

- ▶ Voice and Data Applications
- ▶ Third Party Verified
- ▶ Riser and Plenum Rated
- ▶ Limited Combustible Available



www.berktek.com  
1-800-237-5835

Berk-Tek's Hyper Plus 5e Standard Category 5e UTP cables are designed for horizontal network and voice applications in a structured cabling network to connect between the user outlet and horizontal cross-connect.

**CONSTRUCTION**

0.52 mm (24 AWG), bare copper wire insulated with polyethylene (non-plenum) or FEP (plenum). Two insulated conductors twisted together to form a pair and four such pairs laid up to form the basic unit jacketed with flame-retardant PVC.

**STANDARDS**

North American ANSI/TIA/EIA-568-B.2  
Category 5e and Category 5  
International ISO/IEC 11801 Category 5  
European EN 50173

**FLAME RATING**

Non-Plenum—UL 1666, CMR, CMG, IEC 332-1  
Plenum—UL 910, CMP  
Patch—UL 1581, CM, IEC 332-1

**APPLICATIONS**

Berk-Tek's Hyper Plus 5e Standard Category 5e UTP cable is intended for high speed data applications up to 100 MHz including:

IEEE 802.3 1000BASE-T, 100BASE-TX,  
10BASE-T  
155 Mb/s ATM  
ANSI X3.263 100Mb/s  
4/16 Mb/s Token Ring

**FEATURES**

- ▶ Supports 10BASE-T, 100BASE-TX, Fast Ethernet, Gigabit Ethernet, Token Ring, TP-PMD, Voice, Telephony, Multimedia, 155 Mb/s ATM
- ▶ Tested and guaranteed NEXT, ACR, PS-NEXT, PS-ACR, ELFEXT, PS-ELFEXT, RL and SRL
- ▶ ETL Verified to TIA/EIA-568-B.2 Category 5e

**BENEFITS**

- ▶ Universally accepted design for global commercial network installations
- ▶ Simplified structured cabling solution preserving long-term network investment
- ▶ Warranted, trouble-free cabling installation and maintenance

**TECHNICAL DATA—PHYSICAL**

|                                       | CMR         | CMP         | CM (PATCH) * |
|---------------------------------------|-------------|-------------|--------------|
| Conductor diameter—in. (mm)           | .020 (0.52) | .020 (0.52) | .024 (0.61)  |
| Cable diameter—in. (mm)               | .187 (4.8)  | .165 (4.2)  | .215 (5.5)   |
| Nominal cable weight—lb./kft. (kg/km) | 23 (34)     | 20 (30)     | 23 (34)      |
| Max. installation tension—lb. (N)     | 25 (110)    | 25 (110)    | 25 (110)     |
| Min. bend radius—in. (mm)             | 1.0 (25.4)  | 1.0 (25.4)  | 1.0 (25.4)   |

\* Patch cables utilize stranded tinned copper conductors.

**PARAMETRIC MEASUREMENTS**

|                         | HORIZONTAL                             | PATCH                   |
|-------------------------|--|-------------------------|
| Mutual Capacitance      | 4.6 nF/100 m nom.                      | 5.6 nF/100 m nom.       |
| DC resistance           | 9.38 Ohms/100 m max.                   | 9.09 Ohms/100 m max.    |
| Skew                    | 25 ns/100 m max.                       | 25 ns/100 m max.        |
| Velocity of Propagation | 72% nom. Non-Plenum<br>72% nom. Plenum | 72% nom.                |
| Input Impedance         | 100 ± 15% 0.772-100 MHz                | 100 ± 15% 0.772-100 MHz |

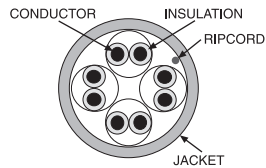
**COLOR CODE**

| PAIR   | Color 1      | Color 2 |
|--------|--------------|---------|
| PAIR 1 | White/Blue   | Blue    |
| PAIR 2 | White/Orange | Orange  |
| PAIR 3 | White/Green  | Green   |
| PAIR 4 | White/Brown  | Brown   |

**TEMPERATURE RATING**

|              |                  |
|--------------|------------------|
| INSTALLATION | 0 °C to +50 °C   |
| OPERATION    | -10 °C to +60 °C |





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TECHNICAL DATA—ELECTRICAL (Patch cable values appear in parentheses)

| HORIZONTAL |             |  |             |              |           |          |             |             |                |      |
|------------|-------------|--|-------------|--------------|-----------|----------|-------------|-------------|----------------|------|
| FREQUENCY  | RL (dB)     | INSERTION LOSS (ATTENUATION) (dB/100M) |             | PS-NEXT (dB) | NEXT (dB) | ACR (dB) | PS-ACR (dB) | ELFEXT (dB) | PS-ELFEXT (dB) |      |
| MHz        | MIN.        | MAX.                                   | MIN.        | MIN.         | MIN.      | MIN.     | MIN.        | MIN.        | MIN.           | MIN. |
| 1          | 20.0 (20.0) | 2.0 (2.4)                              | 62.3 (62.3) | 65.3 (65.3)  | 63.2      | 60.3     | 63.8 (63.8) | 60.8 (60.8) |                |      |
| 4          | 23.0 (23.0) | 4.1 (4.9)                              | 53.2 (53.2) | 56.2 (56.2)  | 52.1      | 49.1     | 51.7 (51.7) | 48.7 (48.7) |                |      |
| 10         | 25.0 (25.0) | 6.5 (7.8)                              | 47.3 (47.3) | 50.3 (50.3)  | 43.8      | 40.8     | 43.8 (43.8) | 40.8 (40.8) |                |      |
| 16         | 25.0 (25.0) | 8.2 (9.8)                              | 44.2 (44.2) | 47.2 (47.2)  | 39.0      | 36.0     | 39.7 (39.7) | 36.6 (36.6) |                |      |
| 20         | 25.0 (25.0) | 9.3 (11.1)                             | 42.7 (42.7) | 45.7 (45.7)  | 36.4      | 33.4     | 37.7 (37.7) | 34.7 (34.7) |                |      |
| 31.25      | 23.6 (23.6) | 11.7 (14.1)                            | 39.8 (39.8) | 42.8 (42.8)  | 31.1      | 28.1     | 33.9 (33.9) | 30.9 (30.9) |                |      |
| 62.5       | 21.5 (21.5) | 17.0 (20.4)                            | 35.3 (35.3) | 38.3 (38.3)  | 21.3      | 18.3     | 27.8 (27.8) | 24.8 (24.8) |                |      |
| 100        | 20.1 (20.1) | 22.0 (26.4)                            | 32.3 (32.3) | 35.3 (35.3)  | 13.3      | 10.3     | 23.8 (23.8) | 20.8 (20.8) |                |      |

PART NUMBERS—STANDARD CATEGORY 5e UTP

|        | NO. PAIRS | PART NUMBER | JACKET    | FLAME RATING        | JACKET COLOR |
|--------|-----------|-------------|-----------|---------------------|--------------|
| CS-002 | 4         | 10032510    | PVC       | CMR Riser           | Gray         |
|        | 4         | 10032528    | PVC       | CMR Riser           | Blue         |
|        | 4         | 10032531    | PVC       | CMR Riser           | Yellow       |
|        | 4         | 10032535    | PVC       | CMR Riser           | White        |
|        | 4         | 10032539    | PVC       | CMR Riser           | Green        |
|        | 4         | 10032706    | PVC       | CM Patch            | Black        |
|        | 4         | 10032708    | PVC       | CM Patch            | Red          |
|        | 4         | 10032710    | PVC       | CM Patch            | Green        |
|        | 4         | 10032712    | PVC       | CM Patch            | Yellow       |
|        | 4         | 10032714    | PVC       | CM Patch            | Blue         |
|        | 4         | 10032715    | PVC       | CM Patch (Reel)     | Violet       |
|        | 4         | 10032717    | PVC       | CM Patch            | White        |
|        | 4         | 10032719    | PVC       | CM Patch            | Gray         |
|        | CS-001    | 4           | 10032207  | PVC Alloy           | CMP Plenum   |
| 4      |           | 10032223    | PVC Alloy | CMP Plenum          | White        |
| 4      |           | 10032227    | PVC Alloy | CMP Plenum          | Blue         |
| 4      |           | 10032232    | PVC Alloy | CMP Plenum          | Green        |
| 4      |           | 10032235    | PVC Alloy | CMP Plenum          | Yellow       |
| 4      |           | 10034866    | FEP       | Limited Combustible | Clear        |

Note: Standard Lengths: 1,000 feet (305 meters.) Specifications subject to change without notice. Part numbers shown are for Tek-Pak boxes. Also available on reels or Reel-It reel-in-a-box. Limited Combustible version also available. Other jacket colors available.




# SUTTLE StarSix SYSTEM COMPONENTS


## SpeedStar CAT6 CABLING SYSTEM COMPONENTS




| CAT6 DATA JACK |               | PART#:            | DESCRIPTION                   | PAGE |
|----------------|---------------|-------------------|-------------------------------|------|
| STAR6000C6     | <b>CS-003</b> | <b>STAR6000C6</b> | 8-Conductor, 568 A/B, 110-IDC | 47   |




| CAT6 PATCH CORDS |  | PART#:               | DESCRIPTION                             | PAGE               |
|------------------|--|----------------------|---|--------------------|
| STAR661-04-53    |  | <b>STAR661-LL-xx</b> | CAT6 patch cord<br>LL = 04, 08, 12 foot | 55                 |
| Colors (-xx):    |  | Red = <b>(53)</b>    | Yellow = <b>(56)</b>                    | Blue = <b>(62)</b> |



| CAT6 PATCH PANELS |  | PART#:                | DESCRIPTION                     | PAGE |
|-------------------|--|-----------------------|---------------------------------|------|
| STAR19110C6-24    |  | <b>STAR19110C6-12</b> | 12-port, 568A/B, wall mount     | 53   |
|                   |  | <b>STAR19110C6-24</b> | 24-port, 568A/B, 19" rack mount | 53   |
|                   |  | <b>STAR19110C6-48</b> | 48-port, 568A/B, 19" rack mount | 53   |



| CAT6 110 CROSS-CONNECT KIT |  | PART#:              | DESCRIPTION                            | PAGE |
|----------------------------|--|---------------------|--|------|
| STAR110C6-96               |  | <b>STAR110C6-48</b> | 48-pair wall mount 110 termination kit | 56   |
|                            |  | <b>STAR110C6-96</b> | 96-pair wall mount 110 termination kit | 56   |



**FOR QUALIFYING CABLE CONTACT  
A SUTTLE REPRESENTATIVE**



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TRADITIONAL TELCO  
STRUCTURED CABLING  
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GLOSSARY  
INDEX

## PATCH PANELS

**DESCRIPTION:**

Patch panels are 19-inch rack mountable and are equipped with IDC terminated PCB assemblies. The 12-port patch panels include a bracket for wall mounting.

- ◆ Rugged steel construction, with rolled edges eliminates flex during termination
- ◆ Write-on label and number designations provide easy identification
- ◆ Rear cable management bar provides cable strain relief
- ◆ Multiple cable tie locations facilitate cable dressing, moves, adds, and changes
- ◆ Termination labels provide port numbering and T568A/B color-coding for quick installation
- ◆ Available in 12, 24, and 48 port configurations

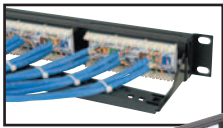
**PRODUCT:**

**CATEGORY 6 PATCH PANELS**

cUL<sup>us</sup> **EXCEEDS**  
**250 MHz**

**DESCRIPTION:**

- ◆ Exceeds TIA/EIA-568-B.2-1 specifications for performance
- ◆ Supports bandwidth beyond 250MHz
- ◆ Angled and paired IDC pins aid in maintaining maximum Category 6 performance, providing a gas tight connection and improved cable retention



STAR19110C6-24



| PART#:                | DESCRIPTION  |
|-----------------------|--|
| <b>STAR19110C6-12</b> | 12-port, Category 6, 568A/B, wall mount (bracket included) |
| Dimensions:           | 3.2" H x 10" W x 2" D                                      |
| <b>STAR19110C6-24</b> | 24-port, Category 6, 568A/B, 19" rack mount                |
| Dimensions:           | 1.75" H x 19" W x 3.5" D                                   |
| <b>STAR19110C6-48</b> | 48-port, Category 6, 568A/B, 19" rack mount                |
| Dimensions:           | 3.5" H x 19" W x 3.5" D                                    |

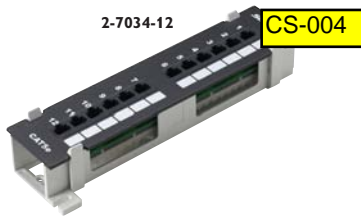
**PRODUCT:**

**CATEGORY 5e PATCH PANELS**

cUL<sup>us</sup> **EXCEEDS**  
**100 MHz**

**DESCRIPTION:**

- ◆ Exceeds TIA/EIA-568-B.2-6 specifications for component performance
- ◆ Supports bandwidth beyond 100MHz



2-7034-12

CS-004

| PART#:           | DESCRIPTION   |
|------------------|---|
| <b>2-7034-12</b> | 12-port, Category 5e, 568A/B, wall mount (89B bracket included) |
| Dimensions:      | 3.25" H x 10" W x 2" D  |

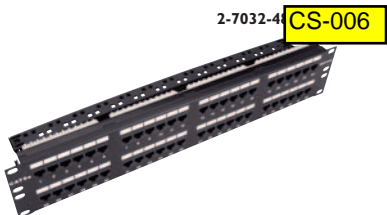


2-7030-24

CS-005



| PART#:           | DESCRIPTION                                  |
|------------------|--|
| <b>2-7030-24</b> | 24-port, Category 5e, 568A/B, 19" rack mount |
| Dimensions:      | 1.75" H x 19" W x 3.5" D                     |



2-7032-48

CS-006

| PART#:           | DESCRIPTION                                  |
|------------------|--|
| <b>2-7032-48</b> | 48-port, Category 5e, 568A/B, 19" rack mount |
| Dimensions:      | 3.5" H x 19" W x 3.5" D                      |

## **Patch Panel Wall Mount Assemblies**

*103B1 & 103B1-24*

### **Product Description**

Wall mount assemblies for 24 and 48 port patch panels.



### **Ordering Information**

|        | <u>Product Number</u> | <u>Description</u>         |
|--------|-----------------------|----------------------------|
| CS-007 | 103B1-24              | 24 port wall mount bracket |
| CS-008 | 103B1                 | 48 port wall mount bracket |

Specifications subject to change without notice. Copyright 2006. Original: 07/06

# RACKS AND CABLE MANAGEMENT

## RACKS

PRODUCT:

**EQUIPMENT RACK**

DESCRIPTION:

Aluminum alloy relay rack for mounting computer room panels, enclosures and related communications equipment. Side rails are drilled and tapped on both sides. Includes thirty (30) #12-24 screws.

19110RK



PART#:

**19110RK**

DESCRIPTION

Relay rack (19" W x 84" H)

## CABLE MANAGEMENT

PRODUCT:

**HORIZONTAL TROUGH**

DESCRIPTION:

The 19WM350 provides a horizontal trough to route cable between components within or between racks.

19WM350



**CS-009**

PART#:

**19WM350**

DESCRIPTION

Horizontal trough (19" W x 3.5" H)

## PATCH CORDS

### CAT6 PATCH CORDS

**DESCRIPTION:**

Exceeds TIA/EIA-568-B.2-1 specifications for performance.

- ◆ Category 6 products support bandwidth beyond 250MHz
- ◆ Molded boot covers and protects the protruding latch, preventing connector disruption
- ◆ The easily depressed latch mechanism makes it a snap to insert and unplug
- ◆ Additional sizes and colors may be available by request

**PRODUCT:**

**CATEGORY 6 PATCH CORDS**



EXCEEDS

**250 MHz**

STAR661-04-53



**PART#:**

**DESCRIPTION**

|                      |                              |
|----------------------|------------------------------|
| <b>STAR661-04-xx</b> | 4-ft, Category 6 patch cord  |
| <b>STAR661-08-xx</b> | 8-ft, Category 6 patch cord  |
| <b>STAR661-12-xx</b> | 12-ft, Category 6 patch cord |

|                      |                   |                      |                    |
|----------------------|-------------------|----------------------|--------------------|
| <b>Colors (-xx):</b> | Red = <b>(53)</b> | Yellow = <b>(56)</b> | Blue = <b>(62)</b> |
|----------------------|-------------------|----------------------|--------------------|

### CAT5e PATCH CORDS

**DESCRIPTION:**

Exceeds TIA/EIA-568-B.2-6 specifications for component performance.

- ◆ Category 5e products support bandwidth beyond 100MHz
- ◆ Molded boot covers provide bend radius protection
- ◆ The easily depressed latch mechanism makes it a snap to insert and unplug
- ◆ Additional sizes and colors may be available by request

**PRODUCT:**

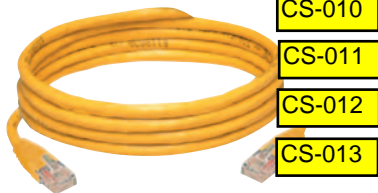
**CATEGORY 5e PATCH CORDS**



EXCEEDS

**100 MHz**

2-7407-56



**PART#:**

**DESCRIPTION**

|               |                  |                               |
|---------------|------------------|-------------------------------|
| <b>CS-010</b> | <b>2-7403-xx</b> | 3-ft, Category 5e patch cord  |
| <b>CS-011</b> | <b>2-7407-xx</b> | 7-ft, Category 5e patch cord  |
| <b>CS-012</b> | <b>2-7410-xx</b> | 10-ft, Category 5e patch cord |
| <b>CS-013</b> | <b>2-7415-xx</b> | 15-ft, Category 5e patch cord |


|                      |                   |                      |                    |
|----------------------|-------------------|----------------------|--------------------|
| <b>Colors (-xx):</b> | Red = <b>(53)</b> | Yellow = <b>(56)</b> | Blue = <b>(62)</b> |
|----------------------|-------------------|----------------------|--------------------|



- ▶ Horizontal and Patch Cable
- ▶ Gigabit Capable
- ▶ Riser and Plenum Rated
- ▶ Limited Combustible Available

**Berk-Tek**<sup>®</sup>  
A NEXANS COMPANY

 [www.berktek.com](http://www.berktek.com)

 1-800-237-5835

LANmark-1000 is an ANSI/TIA/EIA Category 6 verified cable that is ideal for gigabit network applications. It introduces new electrical performance parameters which are needed for gigabit Ethernet network systems. These electrical characteristics include: PS-NEXT, PS-ACR, PS-ELFEXT, ELFEXT, RL and LCL/TCL/EL TCTL (balance).

LANmark-1000 was the first cable in the industry which set requirements for cable balance. Balance is the performance parameter which affects cable emissions. Cable balance is a property that helps protect the network from the damaging effects of outside noise sources such as alien crosstalk.

## CONSTRUCTION

0.58 mm (23 AWG), bare copper wire insulated with polyethylene (non-plenum) or FEP (plenum). Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit jacketed with flame-retardant PVC.

## STANDARDS

|                |                                      |
|----------------|--------------------------------------|
| North American | ANSI/TIA/EIA-568-B.2-1<br>Category 6 |
| International  | ISO/IEC 11801-1995                   |
| European       | EN 50173                             |

## FLAME RATING

Non-plenum—UL 1666, CMR, CMG, IEC 332-1  
Plenum—NFPA 262, CMP  
Patch—UL 1581, CM, IEC 332-1  
UL Listed

## APPLICATIONS

Berk-Tek's LANmark-1000 UTP cable is intended for high speed data applications including:

IEEE 802.3 1000BASE-T, 100BASE-TX,  
10BASE-T  
155 Mb/s ATM  
ANSI X3.263 100 Mb/s  
1000BASE-TX (ANSI/TIA/EIA-854-2001)  
4/16 Mb/s Token Ring

## FEATURES

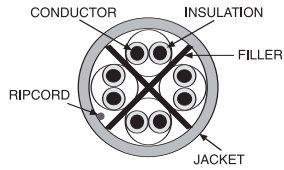
- ▶ Full duplex operation over four cable pairs
- ▶ Full power sum performance
- ▶ Increased usable bandwidth up to 250 MHz
- ▶ Documented balance characteristics (LCL, LCTL)
- ▶ Small, round, easy to install construction
- ▶ ETL verified to ANSI/TIA/EIA-568-B.2-1 Category 6 standard gigabit

## BENEFITS

- ▶ Capable of handling next generation network applications which will utilize full duplex operation and/or simultaneous bidirectional transmission
- ▶ Power sum characterization gives highest performance using existing applications
- ▶ Provides additional bandwidth required for future applications
- ▶ Addition of balance requirements improves overall cable performance and reduces cable emissions which results in reduced transmission errors
- ▶ State-of-the-art testing allows high frequency characterization of the cable to 500 MHz







- ▶ Horizontal and Patch Cable
- ▶ Gigabit Capable
- ▶ Riser and Plenum Rated
- ▶ Limited Combustible Available



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TECHNICAL DATA—PHYSICAL

|                                       | CMR  |        | CMP  |        | CM (PATCH)* |        |
|---------------------------------------|------|--------|------|--------|-------------|--------|
| Conductor diameter—in. (mm)           | .022 | (0.56) | .022 | (0.56) | .024        | (0.61) |
| Cable diameter—in. (mm)               | .224 | (5.7)  | .22  | (5.6)  | .215        | (5.4)  |
| Nominal cable weight—lb./kft. (kg/km) | 27   | (40)   | 28   | (41.3) | 23          | (34)   |
| Max. installation tension—lb. (N)     | 25   | (110)  | 25   | (110)  | 25          | (110)  |
| Min. bend radius—in. (mm)             | 1.0  | (25.4) | 1.0  | (25.4) | 1.0         | (25.4) |

\* Patch cables utilize stranded tinned copper conductors.

PARAMETRIC MEASUREMENTS

|                          | HORIZONTAL  | PATCH   |
|--------------------------|---|---|
| Mutual Capacitance       | 4.4 nF/100 m nom.   | 4.4 nF/100 m nom.   |
| DC resistance            | 9.38 Ohms/100 m max.  | 9.09 Ohms/100 m max.  |
| Skew                     | 25 ns/100 m max.  | 25 ns/100 m max.  |
| Pair to ground Unbalance | 330 pF/100 m max.   | 330 pF/100 m max.   |
| Velocity of Propagation  | 70% nom. Non-Plenum<br>72% nom. Plenum                          | 70% nom.  |
| Input Impedance          | 100 ± 13% 0.772-100 MHz<br>100 ± [13+15log (F/100)] 100-500 MHz | 100 ± 13% 0.772-100 MHz<br>100 ± [13+15log (F/100)] 100-500 MHz |

TEMPERATURE RATING

|              |                |
|--------------|----------------|
| Installation | 0°C to +50°C   |
| Operation    | -10°C to +60°C |

COLOR CODE

|        |              |        |
|--------|--------------|--------|
| Pair 1 | White/Blue   | Blue   |
| Pair 2 | White/Orange | Orange |
| Pair 3 | White/Green  | Green  |
| Pair 4 | White/Brown  | Brown  |

PART NUMBERS—LANMARK-1000 UTP

|        | NO. PAIRS | PART NUMBER | JACKET    | FLAME RATING    | JACKET COLOR |
|--------|-----------|-------------|-----------|-----------------|--------------|
| CS-015 | 4         | 10032452    | PVC       | CMR Riser       | Gray         |
|        | 4         | 10032455    | PVC       | CMR Riser       | Blue         |
|        | 4         | 10032459    | PVC       | CMR Riser       | White        |
|        | 4         | 10032461    | PVC       | CMR Riser       | Yellow       |
|        | 4         | 10032479    | PVC       | CMR Riser       | Green        |
|        | 4         | 10032678    | PVC       | CM Patch (reel) | Gray         |
|        | 4         | 10032679    | PVC       | CM Patch (reel) | White        |
|        | 4         | 10032680    | PVC       | CM Patch (reel) | Blue         |
|        | 4         | 10032681    | PVC       | CM Patch (reel) | Yellow       |
|        | 4         | 10032693    | PVC       | CM Patch (reel) | Green        |
| CS-014 | 4         | 10032026    | PVC Alloy | CMP Plenum      | Gray         |
|        | 4         | 10032090    | PVC Alloy | CMP Plenum      | Yellow       |
|        | 4         | 10032092    | PVC Alloy | CMP Plenum      | White        |
|        | 4         | 10032094    | PVC Alloy | CMP Plenum      | Blue         |
|        | 4         | 10032097    | PVC Alloy | CMP Plenum      | Green        |

NOTE: Standard Lengths: 1,000 feet (305 meters.) Specifications subject to change without notice. Part numbers here are for Tek-Pak boxes—also available on reels and Reel-It reel-in-a-box. Other jacket colors available.

## PATCH PANELS

**DESCRIPTION:**

Patch panels are 19-inch rack mountable and are equipped with IDC terminated PCB assemblies. The 12-port patch panels include a bracket for wall mounting.

- ◆ Rugged steel construction, with rolled edges eliminates flex during termination
- ◆ Write-on label and number designations provide easy identification
- ◆ Rear cable management bar provides cable strain relief
- ◆ Multiple cable tie locations facilitate cable dressing, moves, adds, and changes
- ◆ Termination labels provide port numbering and T568A/B color-coding for quick installation
- ◆ Available in 12, 24, and 48 port configurations

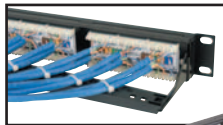
**PRODUCT:**

**CATEGORY 6 PATCH PANELS**

**EXCEEDS**  
**250 MHz**

**DESCRIPTION:**

- ◆ Exceeds TIA/EIA-568-B.2-1 specifications for performance
- ◆ Supports bandwidth beyond 250MHz
- ◆ Angled and paired IDC pins aid in maintaining maximum Category 6 performance, providing a gas tight connection and improved cable retention



STAR19110C6-24

**CS-016**

| PART#:                | DESCRIPTION  |
|-----------------------|--|
| <b>STAR19110C6-12</b> | 12-port, Category 6, 568A/B, wall mount (bracket included) |
| Dimensions:           | 3.2" H x 10" W x 2" D                                      |



**CS-017**

| PART#:                | DESCRIPTION                                 |
|-----------------------|---|
| <b>STAR19110C6-24</b> | 24-port, Category 6, 568A/B, 19" rack mount |
| Dimensions:           | 1.75" H x 19" W x 3.5" D                    |

**CS-018**

| PART#:                | DESCRIPTION                                 |
|-----------------------|---|
| <b>STAR19110C6-48</b> | 48-port, Category 6, 568A/B, 19" rack mount |
| Dimensions:           | 3.5" H x 19" W x 3.5" D                     |

**PRODUCT:**

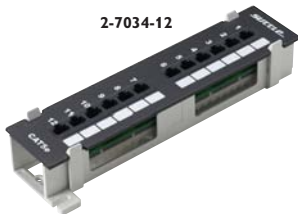
**CATEGORY 5e PATCH PANELS**

**EXCEEDS**  
**100 MHz**

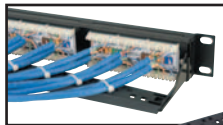
**DESCRIPTION:**

- ◆ Exceeds TIA/EIA-568-B.2-6 specifications for component performance
- ◆ Supports bandwidth beyond 100MHz

2-7034-12



| PART#:           | DESCRIPTION   |
|------------------|---|
| <b>2-7034-12</b> | 12-port, Category 5e, 568A/B, wall mount (89B bracket included) |
| Dimensions:      | 3.25" H x 10" W x 2" D  |

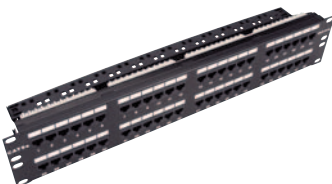


2-7030-24



| PART#:           | DESCRIPTION                                  |
|------------------|--|
| <b>2-7030-24</b> | 24-port, Category 5e, 568A/B, 19" rack mount |
| Dimensions:      | 1.75" H x 19" W x 3.5" D                     |

2-7032-48



| PART#:           | DESCRIPTION                                  |
|------------------|--|
| <b>2-7032-48</b> | 48-port, Category 5e, 568A/B, 19" rack mount |
| Dimensions:      | 3.5" H x 19" W x 3.5" D                      |

## PATCH CORDS

### CAT6 PATCH CORDS

**DESCRIPTION:**

Exceeds TIA/EIA-568-B.2-1 specifications for performance.

- ◆ Category 6 products support bandwidth beyond 250MHz
- ◆ Molded boot covers and protects the protruding latch, preventing connector disruption
- ◆ The easily depressed latch mechanism makes it a snap to insert and unplug
- ◆ Additional sizes and colors may be available by request

**PRODUCT:**

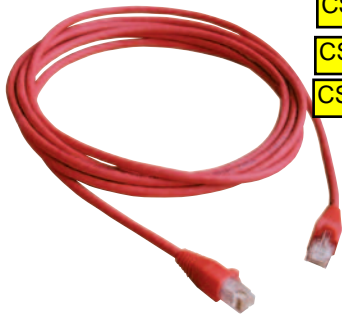
CATEGORY 6 PATCH CORDS



EXCEEDS

**250 MHz**

STAR661-04-53



CS-019

**PART#:**

**DESCRIPTION**

|               |                              |
|---------------|------------------------------|
| STAR661-04-xx | 4-ft, Category 6 patch cord  |
| STAR661-08-xx | 8-ft, Category 6 patch cord  |
| STAR661-12-xx | 12-ft, Category 6 patch cord |

Colors (-xx):

Red = (53)

Yellow = (56)

Blue = (62)

### CAT5e PATCH CORDS

**DESCRIPTION:**

Exceeds TIA/EIA-568-B.2-6 specifications for component performance.

- ◆ Category 5e products support bandwidth beyond 100MHz
- ◆ Molded boot covers provide bend radius protection
- ◆ The easily depressed latch mechanism makes it a snap to insert and unplug
- ◆ Additional sizes and colors may be available by request

**PRODUCT:**

CATEGORY 5e PATCH CORDS



EXCEEDS

**100 MHz**

2-7407-56



**PART#:**

**DESCRIPTION**

|           |                               |
|-----------|-------------------------------|
| 2-7403-xx | 3-ft, Category 5e patch cord  |
| 2-7407-xx | 7-ft, Category 5e patch cord  |
| 2-7410-xx | 10-ft, Category 5e patch cord |
| 2-7415-xx | 15-ft, Category 5e patch cord |

Colors (-xx):

Red = (53)

Yellow = (56)

Blue = (62)

PRODUCT:

**AUDIO/VIDEO MODULES**



STAR500F-xx



STAR500BNC-xx



PART#:

DESCRIPTION

|               |             |
|---------------|-------------|
| STAR500F-xx   | F connector |
| STAR500BNC-xx | BNC module  |

STAR-RCAY-xx



STAR-RCAW-xx



|              |  |        |
|--------------|--|--------|
| STAR-RCAY-xx | RCA (Yellow) connector, 110 IDC blocks | cUL US |
| STAR-RCAW-xx | RCA (White) connector, 110 IDC blocks  | cUL US |

STAR-RCAB-xx



STAR-RCAR-xx



|              |                                       |        |
|--------------|---------------------------------------|--------|
| STAR-RCAB-xx | RCA (Black) connector, 110 IDC blocks | cUL US |
| STAR-RCAR-xx | RCA (Red) connector, 110 IDC blocks   | cUL US |

STAR-SVID-xx



STAR-SVGA-xx



|                |  |        |
|----------------|--|--------|
| STAR-SVID-xx   | S-Video connector, 110 IDC blocks                        | cUL US |
| STAR-SVGA-xx   | SVGA connector module for 1064M frame                    | cUL US |
| STAR506SVGA-xx | SVGA connector module for STAR5501 or STAR5502 faceplate | cUL US |

|               |                     |                         |              |
|---------------|---------------------|-------------------------|--------------|
| Colors (-xx): | Light Almond = (64) | Electrical Ivory = (52) | White = (85) |
|---------------|---------------------|-------------------------|--------------|

PRODUCT:

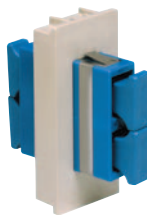
**FIBER OPTIC MODULES**



STAR504SC-xx



STAR505SC-xx



STAR500STB-xx



PART#:

DESCRIPTION

|               |  |       |
|---------------|--|-------|
| STAR-SCS-xx   | Simplex SC insert and adapter for use with STAR1064M single gang duplex mounting frame only              |       |
| STAR-SCD-xx   | Duplex SC insert and adapter for use with STAR1064M single gang duplex mounting frame only               |       |
| STAR504SC-xx  | Simplex SC insert and adapter for use with insert style modular faceplates or surface mount housings     |       |
| STAR505SC-xx  | Duplex SC insert and adapter for use with insert style modular faceplates only or surface mount housings |       |
| STAR500STB-xx | Simplex ST snap-in module housing and adapter  |       |
| STAR500HST-xx | Simplex ST snap-in module housing only   | UL SF |

|               |                     |                         |              |
|---------------|---------------------|-------------------------|--------------|
| Colors (-xx): | Light Almond = (64) | Electrical Ivory = (52) | White = (85) |
|---------------|---------------------|-------------------------|--------------|

PRODUCT:

**BLANK (FILLER) MODULES**



STAR500B-xx



CS-022  
CS-035

PART#:

DESCRIPTION

|               |                     |                         |              |
|---------------|---------------------|-------------------------|--------------|
| STAR500B-xx   | Blank insert        |                         |              |
| Colors (-xx): | Light Almond = (64) | Electrical Ivory = (52) | White = (85) |

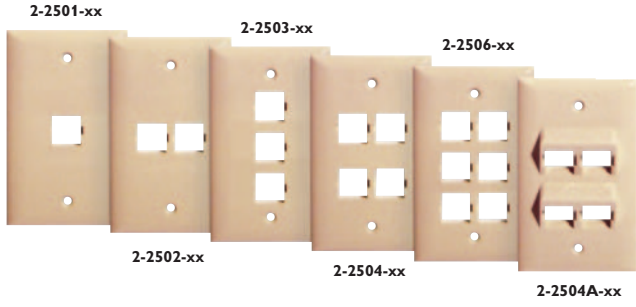
# FACEPLATES AND FRAMES

**DESCRIPTION:**

- ◆ Faceplates are available in Smooth or Textured finishes
- ◆ Modular ports provide versatile configuration options
- ◆ Flush mount faceplates and surface mount housings deliver flexibility to any application
- ◆ Mounting frames fit standard floor and wall J-box designs and can utilize standard electrical faceplates

**PRODUCT:**

**SMOOTH MODULAR FACEPLATES : SINGLE GANG**

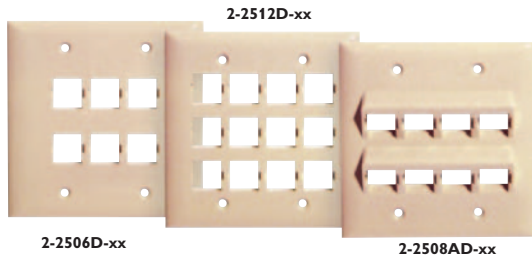


| PART#:     | DESCRIPTION                                |
|------------|--|
| 2-2501-xx  | Smooth plate, 1-port <b>CS-023, CS-036</b> |
| 2-2502-xx  | Smooth plate, 2-port <b>CS-024, CS-037</b> |
| 2-2503-xx  | Smooth plate, 3-port                       |
| 2-2504-xx  | Smooth plate, 4-port <b>CS-025, CS-038</b> |
| 2-2506-xx  | Smooth plate, 6-port                       |
| 2-2504A-xx | Smooth plate, 4-port, angled               |

|               |                            |                                |                     |
|---------------|----------------------------|--------------------------------|---------------------|
| Colors (-xx): | Light Almond = <b>(64)</b> | Electrical Ivory = <b>(52)</b> | White = <b>(85)</b> |
|---------------|----------------------------|--------------------------------|---------------------|

**PRODUCT:**

**SMOOTH MODULAR FACEPLATES : DOUBLE GANG**



| PART#:      | DESCRIPTION                               |
|-------------|---|
| 2-2506D-xx  | Smooth plate, double gang, 6-port         |
| 2-2512D-xx  | Smooth plate, double gang, 12-port        |
| 2-2508AD-xx | Smooth plate, double gang, 8-port, angled |

|               |                            |                                |                     |
|---------------|----------------------------|--------------------------------|---------------------|
| Colors (-xx): | Light Almond = <b>(64)</b> | Electrical Ivory = <b>(52)</b> | White = <b>(85)</b> |
|---------------|----------------------------|--------------------------------|---------------------|

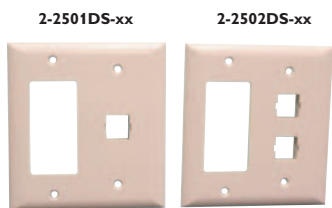
**PRODUCT:**

**SMOOTH MODULAR FACEPLATES: COMBO ELECTRIC/MULTIMEDIA**

**DESCRIPTION**

This double gang electric/multimedia combo faceplate provides a single gang electrical port for standard GFCI electrical receptacles as well as one or two multimedia ports (for voice, data, video, audio, or fiber modules). The smooth, sleek design matches electrical style faceplates and is available in 3 colors.

- ◆ Single gang electrical port – fits standard GFCI electrical receptacles
  - ◆ Available with one or two multimedia connector ports
  - ◆ Smooth, Sleek design
  - ◆ Snap-in module ports provide versatile configurations for voice, data, video, audio, or fiber connections
  - ◆ Note: check local building codes about wiring

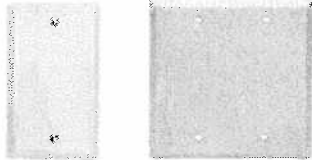


| PART#:                                     | DESCRIPTION   |
|--|---|
| 2-2501DS-xx                                | 1 multimedia port, single gang GFCI port, smooth finish                       |
| 2-2502DS-xx                                | 2 multimedia port, single gang GFCI port, smooth finish                       |
| <b>Dimensions:</b> 4.5" H x 4.7"W x 0.2" D |   |
| Colors (-xx):                              | Light Almond = <b>(64)</b> Electrical Ivory = <b>(52)</b> White = <b>(85)</b> |

# **SUTTLE**

## **Blank Flexplate™ Faceplates**

**107-52 & 108-52**



### **Product Description**

Blank Flexplate™ single and double gang faceplates.

| Product Number | Description  |
|----------------|--|
| CS-026         | 107-52<br>Blank, single gang faceplate, electric ivory |
| CS-028         | 108-52<br>Blank, double gang faceplate, electric ivory |
| CS-039         | 107-85<br>Blank, single gang faceplate, white          |
| CS-041         | 108-85<br>Blank, double gang faceplate, white          |

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Hector, MN 55342  
www.suttleonline.com

Toll Free: 1-800-333-3333  
Local: 1-651-451-3333  
Fax: 1-651-451-3333

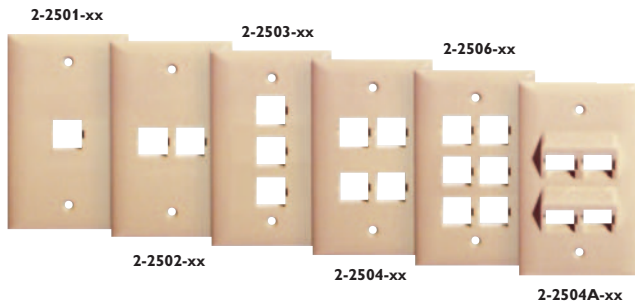
## FACEPLATES AND FRAMES

### DESCRIPTION:

- ◆ Faceplates are available in Smooth or Textured finishes
- ◆ Modular ports provide versatile configuration options
- ◆ Flush mount faceplates and surface mount housings deliver flexibility to any application
- ◆ Mounting frames fit standard floor and wall J-box designs and can utilize standard electrical faceplates

### PRODUCT:

#### SMOOTH MODULAR FACEPLATES : SINGLE GANG

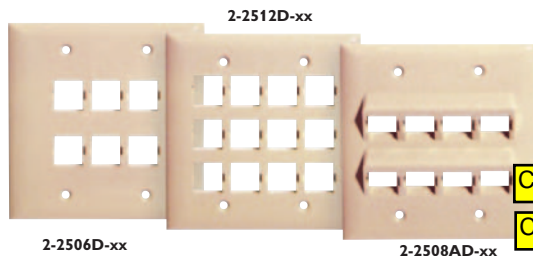


| PART#:     | DESCRIPTION                  |
|------------|------------------------------|
| 2-2501-xx  | Smooth plate, 1-port         |
| 2-2502-xx  | Smooth plate, 2-port         |
| 2-2503-xx  | Smooth plate, 3-port         |
| 2-2504-xx  | Smooth plate, 4-port         |
| 2-2506-xx  | Smooth plate, 6-port         |
| 2-2504A-xx | Smooth plate, 4-port, angled |

Colors (-xx): Light Almond = (64) Electrical Ivory = (52) White = (85)

### PRODUCT:

#### SMOOTH MODULAR FACEPLATES : DOUBLE GANG



| PART#:      | DESCRIPTION                               |
|-------------|---|
| 2-2506D-xx  | Smooth plate, double gang, 6-port         |
| 2-2512D-xx  | Smooth plate, double gang, 12-port        |
| 2-2508AD-xx | Smooth plate, double gang, 8-port, angled |

Colors (-xx): Light Almond = (64) Electrical Ivory = (52) White = (85)

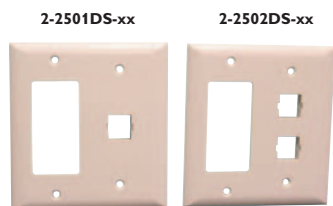
### PRODUCT:

#### SMOOTH MODULAR FACEPLATES: COMBO ELECTRIC/MULTIMEDIA

### DESCRIPTION

This double gang electric/multimedia combo faceplate provides a single gang electrical port for standard GFCI electrical receptacles as well as one or two multimedia ports (for voice, data, video, audio, or fiber modules). The smooth, sleek design matches electrical style faceplates and is available in 3 colors.

- ◆ Single gang electrical port – fits standard GFCI electrical receptacles
  - ◆ Available with one or two multimedia connector ports
  - ◆ Smooth, Sleek design
  - ◆ Snap-in module ports provide versatile configurations for voice, data, video, audio, or fiber connections
  - ◆ Note: check local building codes about wiring



| PART#:                              | DESCRIPTION  |
|-------------------------------------|--|
| 2-2501DS-xx                         | 1 multimedia port, single gang GFCI port, smooth finish  |
| 2-2502DS-xx                         | 2 multimedia port, single gang GFCI port, smooth finish  |
| Dimensions: 4.5" H x 4.7"W x 0.2" D |  |
| Colors (-xx):                       | Light Almond = (64) Electrical Ivory = (52) White = (85) |



## SURFACE MOUNT HOUSINGS AND BOXES

PRODUCT:

### SURFACE MOUNT HOUSINGS

DESCRIPTION:

SpeedStar surface mount housings are available in several configurations for use with Suttle's multimedia modules. Each housing provides simple snap-in installation of modules with the use of versatile insert plates.

- ◆ Easily field configured with snap-in modules which can be terminated directly in each port
- ◆ Snap-in wiring spools provide cable management and recommended strain relief (STARMMB only)
- ◆ Screw or adhesive pad mounting options (both included)
- ◆ Easy to read port designations for quick identification (STARMMB only)
- ◆ Snap on cover reduces installation time (STARMMD has a screw-on cover)
- ◆ The STARMMB (Multi-Media Box) contains knockouts to accommodate cable or raceway entry and fits single, double and European style electrical boxes

STAR558-xx



CS-029  
CS-042

| PART#:        | DESCRIPTION         | DIMENSIONS                | UL           | SP |
|---------------|---------------------|---------------------------|--------------|----|
| STAR558-xx    | 1- or 2-ports       | 2.5" L x 2.7" W x 1.18" H | UL           | SP |
| Colors (-xx): | Light Almond = (64) | Electrical Ivory = (52)   | White = (85) |    |

Mounting plate inserts included as shown.

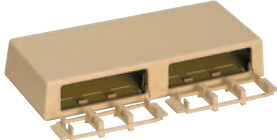
STAR107SM-xx



|               |                     |                             |              |
|---------------|---------------------|-----------------------------|--------------|
| STAR107SM-xx  | Up to 3-ports       | 3.25" L x 2.63" W x 1.04" H | UL           |
| Colors (-xx): | Light Almond = (64) | Electrical Ivory = (52)     | White = (85) |

Mounting plate inserts included as shown.

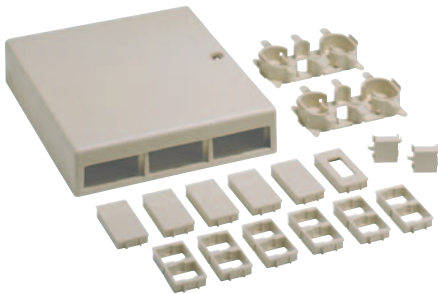
STAR108SM-xx



|               |                     |                            |              |
|---------------|---------------------|----------------------------|--------------|
| STAR108SM-xx  | Up to 6-ports       | 6.2" L x 2.63" W x 1.04" H | UL           |
| Colors (-xx): | Light Almond = (64) | Electrical Ivory = (52)    | White = (85) |

Mounting plate inserts included as shown.

STARMMB-xx



|               |                     |                             |                 |
|---------------|---------------------|-----------------------------|-----------------|
| STARMMB-xx    | Up to 12-ports      | 6.82" L x 5.61" W x 1.35" H | UL <sup>c</sup> |
| Colors (-xx): | Light Almond = (64) | Electrical Ivory = (52)     | White = (85)    |

Mounting plate inserts included as shown.

PRODUCT:

### SURFACE MOUNT BOXES



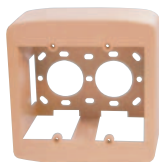
DESCRIPTION:

- ◆ Contoured to match SpeedStar faceplates
- ◆ Provides for proper Category 5e and Category 6 bend radius
- ◆ Oversized to accommodate most faceplates
- ◆ Rear cable entry and mounting holes to fit most brackets
- ◆ Knockouts on top, bottom, and sides for raceway entry

STARMBD-xx



STARMBDD-xx



| PART#:        | DESCRIPTION  |
|---------------|--|
| STARMBD-xx    | Surface mount box, single gang                           |
| STARMBDD-xx   | Surface mount box, double gang                           |
| Colors (-xx): | Light Almond = (64) Electrical Ivory = (52) White = (85) |



## SURFACE MOUNT HOUSINGS AND BOXES

PRODUCT:

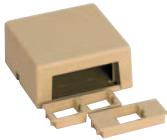
### SURFACE MOUNT HOUSINGS

DESCRIPTION:

SpeedStar surface mount housings are available in several configurations for use with Suttle's multimedia modules. Each housing provides simple snap-in installation of modules with the use of versatile insert plates.

- ◆ Easily field configured with snap-in modules which can be terminated directly in each port
- ◆ Snap-in wiring spools provide cable management and recommended strain relief (STARMMB only)
- ◆ Screw or adhesive pad mounting options (both included)
- ◆ Easy to read port designations for quick identification (STARMMB only)
- ◆ Snap on cover reduces installation time (STARMMD has a screw-on cover)
- ◆ The STARMMB (Multi-Media Box) contains knockouts to accommodate cable or raceway entry and fits single, double and European style electrical boxes

STAR558-xx



| PART#:        | DESCRIPTION         | DIMENSIONS                | UL           | SP |
|---------------|---------------------|---------------------------|--------------|----|
| STAR558-xx    | 1- or 2-ports       | 2.5" L x 2.7" W x 1.18" H | UL           | SP |
| Colors (-xx): | Light Almond = (64) | Electrical Ivory = (52)   | White = (85) |    |

Mounting plate inserts included as shown.

STAR107SM-xx



|               |                     |                             |              |
|---------------|---------------------|-----------------------------|--------------|
| STAR107SM-xx  | Up to 3-ports       | 3.25" L x 2.63" W x 1.04" H | UL           |
| Colors (-xx): | Light Almond = (64) | Electrical Ivory = (52)     | White = (85) |

Mounting plate inserts included as shown.

STAR108SM-xx

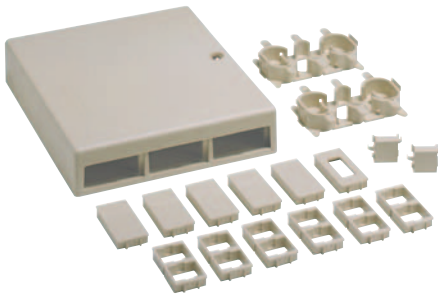


CS-030  
CS-043

|               |                     |                            |              |
|---------------|---------------------|----------------------------|--------------|
| STAR108SM-xx  | Up to 6-ports       | 6.2" L x 2.63" W x 1.04" H | UL           |
| Colors (-xx): | Light Almond = (64) | Electrical Ivory = (52)    | White = (85) |

Mounting plate inserts included as shown.

STARMMB-xx



|               |                     |                             |                    |
|---------------|---------------------|-----------------------------|--------------------|
| STARMMB-xx    | Up to 12-ports      | 6.82" L x 5.61" W x 1.35" H | UL <sup>c</sup> US |
| Colors (-xx): | Light Almond = (64) | Electrical Ivory = (52)     | White = (85)       |

Mounting plate inserts included as shown.

PRODUCT:

### SURFACE MOUNT BOXES



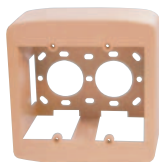
DESCRIPTION:

- ◆ Contoured to match SpeedStar faceplates
- ◆ Provides for proper Category 5e and Category 6 bend radius
- ◆ Oversized to accommodate most faceplates
- ◆ Rear cable entry and mounting holes to fit most brackets
- ◆ Knockouts on top, bottom, and sides for raceway entry

STARMBD-xx



STARMBDD-xx



| PART#:        | DESCRIPTION  |
|---------------|--|
| STARMBD-xx    | Surface mount box, single gang                           |
| STARMBDD-xx   | Surface mount box, double gang                           |
| Colors (-xx): | Light Almond = (64) Electrical Ivory = (52) White = (85) |

PRODUCT:

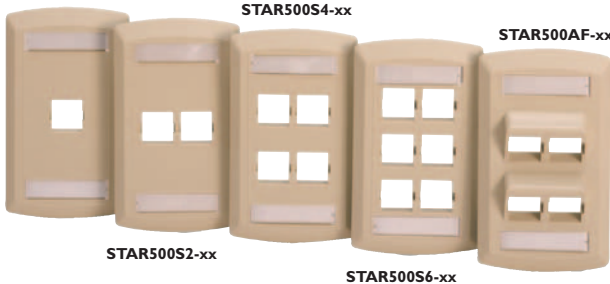
**TEXTURED MODULAR FACEPLATES WITH LABELS : STANDARD**



STAR500S1-xx

STAR500S4-xx

STAR500AF-xx



STAR500S2-xx

STAR500S6-xx

PART#: DESCRIPTION

|              |                             |
|--------------|-----------------------------|
| STAR500S1-xx | 1-port, single gang         |
| STAR500S2-xx | 2-port, single gang         |
| STAR500S4-xx | 4-port, single gang         |
| STAR500S6-xx | 6-port, single gang         |
| STAR500AF-xx | 4-port, angled, single gang |

|               |                     |                         |              |
|---------------|---------------------|-------------------------|--------------|
| Colors (-xx): | Light Almond = (64) | Electrical Ivory = (52) | White = (85) |
|---------------|---------------------|-------------------------|--------------|

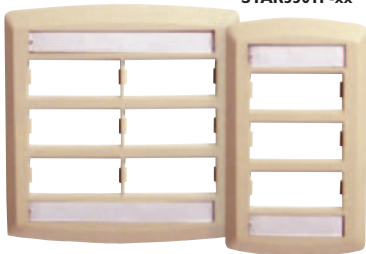
PRODUCT:

**TEXTURED MODULAR FACEPLATES WITH LABELS : INSERT**



STAR5502P-xx

STAR5501P-xx



PART#: DESCRIPTION

|              |  |
|--------------|--|
| STAR5501P-xx | 6-port, single gang (requires mounting plate inserts)  |
| STAR5502P-xx | 12-port, double gang (requires mounting plate inserts) |

|               |                     |                         |              |
|---------------|---------------------|-------------------------|--------------|
| Colors (-xx): | Light Almond = (64) | Electrical Ivory = (52) | White = (85) |
|---------------|---------------------|-------------------------|--------------|

PRODUCT:

**MOUNTING PLATE INSERTS**

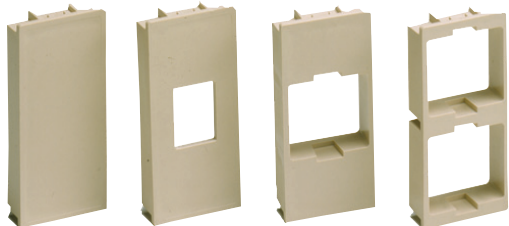


STAR503-xx

STAR504-xx

STAR501-xx

STAR502-xx



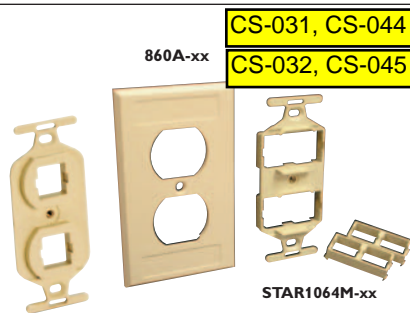
PART#: DESCRIPTION

|            |                         |
|------------|-------------------------|
| STAR501-xx | 1-port insert           |
| STAR502-xx | 2-port insert           |
| STAR503-xx | Blank insert (no ports) |
| STAR504-xx | Simplex SC insert       |
| STAR505-xx | Duplex SC insert        |

|               |                     |                         |              |
|---------------|---------------------|-------------------------|--------------|
| Colors (-xx): | Light Almond = (64) | Electrical Ivory = (52) | White = (85) |
|---------------|---------------------|-------------------------|--------------|

PRODUCT:

**106 TYPE MODULAR MOUNTING FRAMES : SINGLE GANG**



STAR1062-xx

STAR1064M-xx

| PART#:       | DESCRIPTION   |
|--------------|---|
| STAR1062-xx  | 2-port insert mounting frame  |
| STAR1064M-xx | 4-port duplex insert style mounting frame (includes mounting plate inserts) |
| 860A-xx      | Duplex electrical style faceplate with label location                       |

|               |                     |                         |              |
|---------------|---------------------|-------------------------|--------------|
| Colors (-xx): | Light Almond = (64) | Electrical Ivory = (52) | White = (85) |
|---------------|---------------------|-------------------------|--------------|

## SURFACE MOUNT HOUSINGS AND BOXES

PRODUCT:

### SURFACE MOUNT HOUSINGS

DESCRIPTION:

SpeedStar surface mount housings are available in several configurations for use with Suttle's multimedia modules. Each housing provides simple snap-in installation of modules with the use of versatile insert plates.

- ◆ Easily field configured with snap-in modules which can be terminated directly in each port
- ◆ Snap-in wiring spools provide cable management and recommended strain relief (STARMMB only)
- ◆ Screw or adhesive pad mounting options (both included)
- ◆ Easy to read port designations for quick identification (STARMMB only)
- ◆ Snap on cover reduces installation time (STARMMD has a screw-on cover)
- ◆ The STARMMB (Multi-Media Box) contains knockouts to accommodate cable or raceway entry and fits single, double and European style electrical boxes

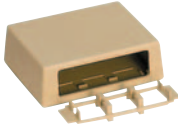
STAR558-xx



| PART#:        | DESCRIPTION         | DIMENSIONS                | UL           | SP |
|---------------|---------------------|---------------------------|--------------|----|
| STAR558-xx    | 1- or 2-ports       | 2.5" L x 2.7" W x 1.18" H | UL           | SP |
| Colors (-xx): | Light Almond = (64) | Electrical Ivory = (52)   | White = (85) |    |

Mounting plate inserts included as shown.

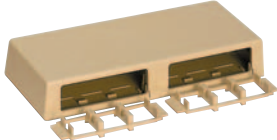
STAR107SM-xx



|               |                     |                             |              |
|---------------|---------------------|-----------------------------|--------------|
| STAR107SM-xx  | Up to 3-ports       | 3.25" L x 2.63" W x 1.04" H | UL           |
| Colors (-xx): | Light Almond = (64) | Electrical Ivory = (52)     | White = (85) |

Mounting plate inserts included as shown.

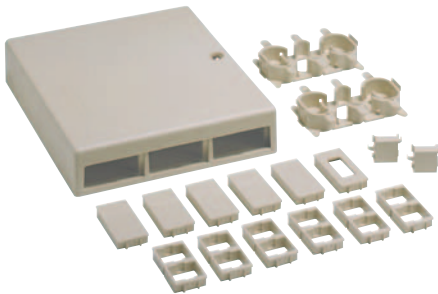
STAR108SM-xx



|               |                     |                            |              |
|---------------|---------------------|----------------------------|--------------|
| STAR108SM-xx  | Up to 6-ports       | 6.2" L x 2.63" W x 1.04" H | UL           |
| Colors (-xx): | Light Almond = (64) | Electrical Ivory = (52)    | White = (85) |

Mounting plate inserts included as shown.

STARMMB-xx



|               |                     |                             |                   |
|---------------|---------------------|-----------------------------|-------------------|
| STARMMB-xx    | Up to 12-ports      | 6.82" L x 5.61" W x 1.35" H | cUL <sup>us</sup> |
| Colors (-xx): | Light Almond = (64) | Electrical Ivory = (52)     | White = (85)      |

Mounting plate inserts included as shown.

PRODUCT:

### SURFACE MOUNT BOXES



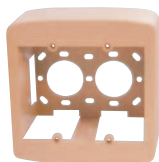
DESCRIPTION:

- ◆ Contoured to match SpeedStar faceplates
- ◆ Provides for proper Category 5e and Category 6 bend radius
- ◆ Oversized to accommodate most faceplates
- ◆ Rear cable entry and mounting holes to fit most brackets
- ◆ Knockouts on top, bottom, and sides for raceway entry

STARMBD-xx



STARMBDD-xx



| PART#:        | DESCRIPTION                    |                                      |
|---------------|--------------------------------|--------------------------------------|
| STARMBD-xx    | Surface mount box, single gang | CS-033, CS-046                       |
| STARMBDD-xx   | Surface mount box, double gang | CS-034, CS-047                       |
| Colors (-xx): | Light Almond = (64)            | Electrical Ivory = (52) White = (85) |

Copper

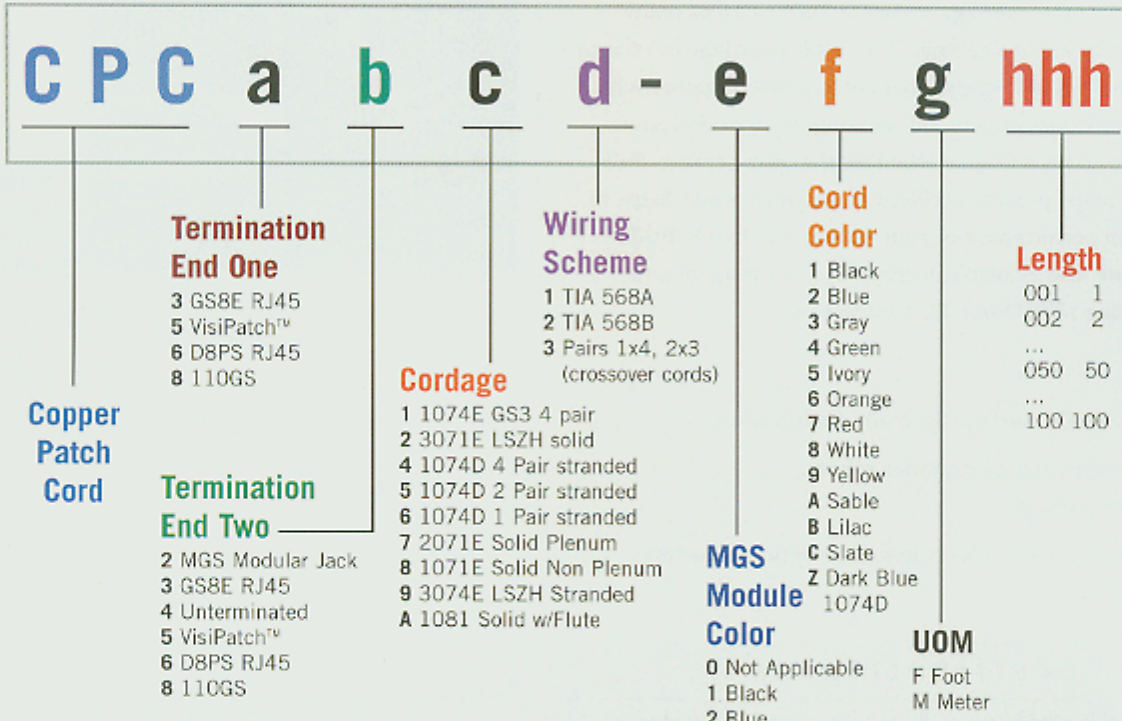
Patch Cord Product Identifier

Miscellaneous

Patch Cord Identifier

The Patch Cord Product Identifier provides for a flexible ordering system. The various patch cords are orderable with a 14-character feature configuration coding system. It allows for many different combinations of plug ends, cordage types, colors and lengths. However, as this product guide is global, regional portfolios differ. To confirm your regions offering please contact your account representative or BusinessPartner.

- CS-048
- CS-049
- CS-050
- CS-051
- CS-052
- CS-053



Patch Cord Portfolio Options

|                   |                                   |
|-------------------|-----------------------------------|
| GS8E              | CPC3312 - 0XXXXX                  |
| GS117             | CPC3412 - 0XXXXX                  |
| GS8MGS-SN         | CPC3282 - 0XXXXX blue, gray only  |
| GS8MGS-SP         | CPC3272 - 0XXXXX blue, white only |
| GS8E-SND          | CPC3382 - 0XXXXX blue, gray only  |
| GS8E-SN           | CPC3482 - 0XXXXX blue, gray only  |
| GS8E-SPD          | CPC3372 - 0XXXXX blue, white only |
| GS8E-SP           | CPC3472 - 0XXXXX blue, white only |
| 110VP8-GS3-B      | CPC5512 - 0XXXXX                  |
| 110VP8-GS3-A      | CPC5511 - 0XXXXX                  |
| 119VP8-GS3-B      | CPC5312 - 0XXXXX                  |
| 119VP8-GS3-A      | CPC5311 - 0XXXXX                  |
| GS8EN             | CPC3313 - 0XXXXX                  |
| 110P4UP           | CPC5552 - 03XXXX gray only        |
| 110P2UP           | CPC5562 - 03XXXX gray only        |
| 119P8CM*A         | CPC8141 - 0XXXXX                  |
| 119P8CM*B         | CPC8142 - 0XXXXX                  |
| 110P8GS           | CPC8842 - 0XXXXX                  |
| 1 pr VP to RJ45   | CPC5162 - 03XXXX gray only        |
| 4 pr VP to Unterm | CPC5482 - 0XXXXX blue, gray only  |
| GS8L              | CPC3322 - 0XXXXX                  |
| GS8H              | CPC3392 - 08XXXX white only       |
| D8PS              | CPC6642 - 0XXXXX                  |
| 117PS             | CPC6442 - 03XXXX gray only        |
| GS81-SN           | CPC33A2 - XXXXX                   |
| GS81              | CPC33A2 - 0XXXXX                  |
| GS81-SE           | CPC34A2 - 0XXXXX white, blue      |
| GS8E Keyed        | CPC9912 - 0XXXXX                  |

**Product SKU:** 7023708 CS-054  
**Product Description:** Customer Premise Cross-Connect Wire, No. of Pairs:  
 1, Pair 1: Blue/White-White/Blue Gauge Size (AWG):  
 24, 1000' Spool

**Product Category:** Data Communication - Central Office Products - Cross-Connect Wire - Customer Premise Cross-Connect Wire

|                                   |  |                                   |
|-----------------------------------|--|-----------------------------------|
| <b>Product Construction:</b>      |  |                                   |
| <b>Engineering Specification:</b> |  | 5006                              |
| <b>Conductors:</b>                |  | 24 AWG solid bare annealed copper |
| <b>Insulation:</b>                |  | Flame retardant semi-rigid PVC    |
| <b>Pairing:</b>                   |  | Two twists per foot minimum       |

|   |  |   |
|---|--|---|
| <b>Product Specification:</b>                 |  |   |
| <b>No. of Pairs:</b>                          |  | 1   |
| <b>Conductor Size (AWG):</b>                  |  | 24  |
| <b>Color Code Pair 1:</b>                     |  | Blue/White-White/Blue   |
| <b>Standard Packaging:</b>                    |  | 1000' Spool (SP)<br>1000' Spool   |
| <b>Outside Diameter (in):</b>                 |  | 0.06  |
| <b>Approximate Weight (lbs per 1,000 ft):</b> |  | 3   |
| <b>Standard Package Quantity:</b>             |  | 8   |
| <b>Footnote:</b>                              |  | Data subject to change without notice. Contact your Customer Service Representative for latest information. |
| <b>UPC #:</b>                                 |  | 079407356058  |
| <b>Put-up:</b>                                |  | 1000  |
| <b>SCC-14:</b>                                |  | 50079407356055  |
| <b>Cube:</b>                                  |  | 581.4   |
| <b>Weight Per Unit of Measure:</b>            |  | .003  |

|                             |  |  |
|-----------------------------|--|--|
| <b>Product Information:</b> |  |  |
| <b>Applications:</b>        |  | Suitable for voice and data transmission up to 4 Mbps  |
| <b>Compliances:</b>         |  | UL Listed communications cable Category 2 compatible   |
| <b>Features:</b>            |  | For cross-connecting between terminals of a distribution frame or other premise equipment          |
| <b>Packaging:</b>           |  | For ease of identification, a variety of different color options are available<br>1000' spool (SP) |

- Technical Specifications**
- [NEC and CSA Fire Resistance Levels](#)
  - [Glossary](#)
  - [Color Code Chart](#)
  - [Industry Standards, Typical Uses of Electrical Requirements](#)
  - [Abbreviations and Acronyms](#)
  - [Conduit Capacities by Wire or Cable Diameter](#)
  - [Commercial Building Datacom/Electronics Wiring](#)

**Product SKU:** **7023716** **CS-055**  
**Product Description:** Customer Premise Cross-Connect Wire,  
 No. of Pairs: 2, Pair 1: Black/White-  
 White/Black, Pair 2: Orange/White-  
 White/Orange, Gauge Size (AWG): 24,  
 1000' Spool

**Product Category:** Data Communication - Central Office  
 Products - Cross-Connect Wire - Customer  
 Premise Cross-Connect Wire

#### Product Construction:

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| <b>Engineering Specification:</b> | 5006                              |
| <b>Conductors:</b>                | 24 AWG solid bare annealed copper |
| <b>Insulation:</b>                | Flame retardant semi-rigid PVC    |
| <b>Pairing:</b>                   | Two twists per foot minimum       |

#### Product Specification:

|   |   |
|---|---|
| <b>No. of Pairs:</b>                          | 2   |
| <b>Conductor Size (AWG):</b>                  | 24  |
| <b>Color Code Pair 1:</b>                     | Blue/White-White/Blue   |
| <b>Color Code Pair 2:</b>                     | Orange/White-White/Orange   |
| <b>Standard Packaging:</b>                    | 1000' Spool (SP)<br>1000' Spool   |
| <b>Outside Diameter (in):</b>                 | 0.09  |
| <b>Approximate Weight (lbs per 1,000 ft):</b> | 6   |
| <b>Standard Package Quantity:</b>             | 3   |
| <b>Footnote:</b>                              | Data subject to change without notice.<br>Contact your Customer Service<br>Representative for latest information. |
| <b>UPC #:</b>                                 | 079407356065  |
| <b>Put-up:</b>                                | 1000  |
| <b>SCC-14:</b>                                | 50079407356066  |
| <b>Cube:</b>                                  | 661.572   |
| <b>Weight Per Unit of Measure:</b>            | .01   |

#### Product Information:

|                      |                                |
|----------------------|--------------------------------|
| <b>Applications:</b> | 4 Mbps                         |
| <b>Compliances:</b>  | UL Listed communications cable |
| <b>Features:</b>     | Category 2 compatible          |

For cross-connecting between terminals of a  
 distribution frame or other premise equipment  
 For ease of identification, a variety of different  
 color options are available

#### Technical Specifications

[NEC and CSA Fire Resistance Levels](#)

[Glossary](#)

[Color Code Chart](#)

[Industry Standards, Typical Uses of Electrical Requirements](#)

[Abbreviations and Acronyms](#)

[Conduit Capacities by Wire or Cable Diameter](#)

[Commercial Building Datacom/Electronics Wiring](#)

## ADAPTERS AND COUPLERS

PRODUCT:

**COUPLERS**



DESCRIPTION:

Used as an in-line device for connecting two modular plug-ended line cords, for extending modular circuits without the hassle and expense of hard-wired connecting blocks.

- ◆ Flame-resistant thermoplastic



159MC-4



159MC-8A

CS-056

| PART#:        | DESCRIPTION                                  |
|---------------|--|
| 159MC-4       | 4-conductor, coupler, reverse wiring         |
| 159MC-6       | 6-conductor, coupler, reverse wiring         |
| Colors (-xx): | Ivory = (50)                                 |
| 159MC-8A      | 8-conductor coupler, straight through wiring |
| 159MC-8B      | 8-conductor coupler, reverse wiring          |
| Colors (-xx): | Gray = (48)                                  |

PRODUCT:

**MODULAR "T" ADAPTERS**



| PART#:                                     | DESCRIPTION  | DIAGRAM          |
|--|--|------------------|
| <b>267A4</b><br>Colors (-xx): Ivory = (50) | "2 for 1" adapter – designed for connecting two telephones or equipment to an existing modular jack. | <b>267A4</b><br> |

267 Series



| PART#:                                     | DESCRIPTION  | DIAGRAM          |
|--|--|------------------|
| <b>267A6</b><br>Colors (-xx): Ivory = (50) | Similar to 267A4 – 2 additional contacts are wired parallel to each other in the jack but are not connected to the 4 conductor plug. | <b>267A6</b><br> |

| PART#:                                    | DESCRIPTION   | DIAGRAM         |
|---|---|-----------------|
| <b>267B</b><br>Colors (-xx): Ivory = (50) | Used for connecting two telephones and/or ancillary devices to separate outside lines through a single 4 contact jack wired for termination of two lines. | <b>267B</b><br> |

CS-057

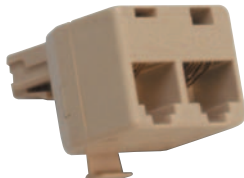
267 Series



| PART#:                     | DESCRIPTION   | DIAGRAM   |
|----------------------------|---|---|
| <b>267C</b>                | Ideal for combining voice and data transmission through a single jack. Voice labeled: PHONE Data labeled: MODEM | <b>267C</b>   |
| Colors (-xx): Ivory = (50) |   | <p>The diagram shows a 6-pin modular jack on the left labeled 'PHONE' and another 6-pin jack on the right labeled 'MODEM'. Wires connect the two: Pin 1 (black) to Pin 1, Pin 2 (red) to Pin 2, Pin 3 (green) to Pin 3, Pin 4 (yellow) to Pin 4, Pin 5 (blue) to Pin 5, and Pin 6 (brown) to Pin 6.</p> |

| PART#:                     | DESCRIPTION   | DIAGRAM   |
|----------------------------|---|---|
| <b>267E</b>                | Provides modular connection for 2 - 6 conductor line cords wired to a 6 conductor modular plug. | <b>267E</b>   |
| Colors (-xx): Ivory = (50) |   | <p>The diagram shows a 6-pin modular jack on the left and a 6-pin modular plug on the right. Wires connect the two: Pin 1 (black) to Pin 1, Pin 2 (red) to Pin 2, Pin 3 (green) to Pin 3, Pin 4 (yellow) to Pin 4, Pin 5 (blue) to Pin 5, and Pin 6 (brown) to Pin 6.</p> |

468A



| PART#:                     | DESCRIPTION  | DIAGRAM  |
|----------------------------|--|--|
| <b>468A</b>                | Designed to permit quick connection of one telephone and one automatic dialing device to the same line without changing existing installation RJ31X. | <b>468A</b>  |
| Colors (-xx): Ivory = (50) |  | <p>The diagram shows a 6-pin modular jack on the left labeled 'PHONE' and an 8-pin modular plug on the right. A 'Shorting bar' is shown between pins 7 and 8 of the plug. Wires connect the two: Pin 1 (black) to Pin 1, Pin 2 (red) to Pin 2, Pin 3 (green) to Pin 3, Pin 4 (yellow) to Pin 4, Pin 5 (blue) to Pin 5, and Pin 6 (brown) to Pin 6.</p> |

464



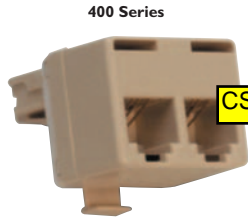
| PART#:                     | DESCRIPTION   | DIAGRAM  |
|----------------------------|---|--|
| <b>464</b>                 | Used for operator training purposes where two headsets can be plugged into the 464 for student and instructor use. Designed to plug into a standard console headset jack. | <b>464</b>   |
| Colors (-xx): Ivory = (50) |   | <p>The diagram shows a 4-pin modular jack on the left and another 4-pin jack on the right. Wires connect the two: Pin 1 (black) to Pin 1, Pin 2 (red) to Pin 2, Pin 3 (green) to Pin 3, and Pin 4 (yellow) to Pin 4.</p> |

400 Series



| PART#:                     | DESCRIPTION   | DIAGRAM  |
|----------------------------|---|--|
| <b>400B</b>                | Provides auxiliary power to telephones – labeled phone and power. | <b>400B</b>  |
| Colors (-xx): Ivory = (50) |   | <p>The diagram shows an 8-pin modular jack on the left labeled 'PHONE' and another 8-pin jack on the right labeled 'POWER'. Wires connect the two: Pin 1 (black) to Pin 1, Pin 2 (red) to Pin 2, Pin 3 (green) to Pin 3, Pin 4 (yellow) to Pin 4, Pin 5 (blue) to Pin 5, Pin 6 (brown) to Pin 6, Pin 7 (orange) to Pin 7, and Pin 8 (purple) to Pin 8.</p> |





CS-058

| PART#:                     | DESCRIPTION   | DIAGRAM |
|----------------------------|---|---------|
| <b>400D</b>                | Allows the spare pair from multi-line electronic telephone wiring to provide tip and ring to a single line set. |         |
| Colors (-xx): Ivory = (50) |   |         |

| PART#:                     | DESCRIPTION   | DIAGRAM |
|----------------------------|---|---------|
| <b>400E</b>                | Used to split eight conductor premise wiring into two four conductor modular outputs. |         |
| Colors (-xx): Ivory = (50) |   |         |

CS-059

| PART#:                     | DESCRIPTION   | DIAGRAM |
|----------------------------|---|---------|
| <b>400S</b>                | Two 8-conductor jacks wired to a single eight conductor plug. |         |
| Colors (-xx): Ivory = (50) |   |         |

PRODUCT:

**MODULAR "Y" ADAPTERS**



DESCRIPTION:

One modular jack split to two modular jacks.



450A

| PART#:                     | DESCRIPTION   | DIAGRAM |
|----------------------------|---|---------|
| <b>450A</b>                | Used to split an 8-conductor plug ended cord for output in two 4-conductor jacks. |         |
| Colors (-xx): Ivory = (50) |   |         |

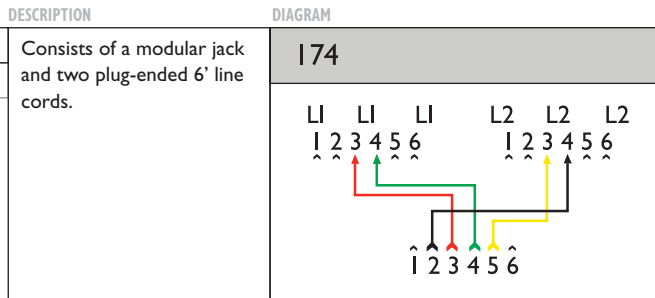
| PART#:                     | DESCRIPTION   | DIAGRAM |
|----------------------------|---|---------|
| <b>450B</b>                | Allows a 4-conductor plug-ended cord to be output in two 6-position, 2-conductor jacks. |         |
| Colors (-xx): Ivory = (50) |   |         |

PRODUCT:

**TWO-LINE ADAPTER**



| PART#:        | DESCRIPTION  |
|---------------|--|
| <b>174</b>    | Consists of a modular jack and two plug-ended 6' line cords. |
| Colors (-xx): | Ivory = (50)   |

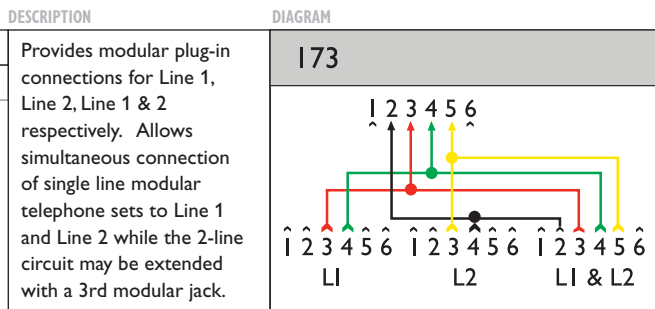


PRODUCT:

**TRIPLEX ADAPTERS**

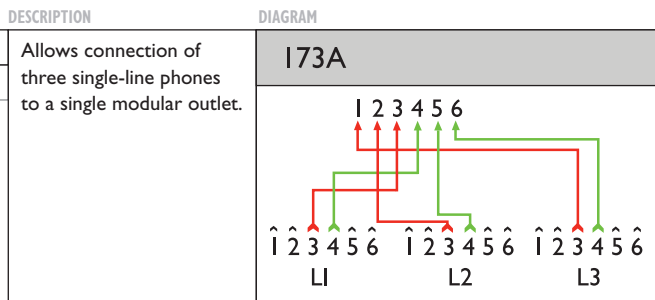


| PART#:        | DESCRIPTION   |
|---------------|---|
| <b>173</b>    | Provides modular plug-in connections for Line 1, Line 2, Line 1 & 2 respectively. Allows simultaneous connection of single line modular telephone sets to Line 1 and Line 2 while the 2-line circuit may be extended with a 3rd modular jack. |
| Colors (-xx): | Ivory = (50)  |



**CS-060**

| PART#:        | DESCRIPTION   |
|---------------|---|
| <b>173A</b>   | Allows connection of three single-line phones to a single modular outlet. |
| Colors (-xx): | Ivory = (50)  |



PRODUCT:

**NON MODULAR TO MODULAR RETROFIT ADAPTER**



DESCRIPTION:

Adapts non-modular ring or spade tipped telephone line cords with modular jacks.



| PART#:          | DESCRIPTION                              |
|-----------------|--|
| <b>152MRL-4</b> | 4-conductor, 6-position, screw terminals |
| Colors (-xx):   | Ivory = (50)                             |

PRODUCT:

**MODULAR TO NON-MODULAR ADAPTER**



| PART#:         | DESCRIPTION                      |
|----------------|----------------------------------|
| <b>283M-50</b> | 4-prong plug to 4-conductor jack |
| Colors (-xx):  | Ivory = (50)                     |

CORROSHIELD®

TRADITIONAL TELCO

STRUCTURED CABLING

FIBER

DSL

USOC WIRING GUIDE

GLOSSARY

INDEX

# Copper

## Wiring Blocks

The 110 Wiring Block is a fire-retardant molded plastic block with horizontal index strips each of which secures and organizes 25 cable pairs. The index strips are marked with the five tip colors to help the installer locate pairs quickly. The blocks accommodate 0.643 mm - 0.404 mm (22 - 26 AWG) diameter conductors and can be mounted directly on wall surfaces.

There are two types of 110 Wiring Blocks: "110A" Wiring Blocks and "110D" Wiring Blocks. The 110A Wiring Block is equipped with legs to provide space behind the block for routing the incoming cables. The 110D Wiring Block is built without legs and is used where depth is restrictive. The 110A Wiring Blocks can be ordered in 100-pair and 300-pair sizes. The 110D Wiring Blocks can be ordered in 25, 50, 100 and 300 pair sizes.

There are several choices in ordering the 110 Wiring Blocks:

- 110AW2 and 110DW2 are only the Wiring Blocks themselves, no accessories are included.
- 110AA2, 110AB2, and 110AC2 are the Wiring Blocks with connecting blocks (A = 5-pair, B = 4-pair, and C = 3-pair), clear designation strips and blank labels.

Please see the ACCESSORIES section of this chapter for associated products.

The 110 Wiring Blocks can be used with patch cords to support Gigabit Data Rates or cross-connect wires up to 10 Mb/s. When using in patching applications, it is important to use a 110 Jumper Trough between each 100-pair block to allow for horizontal routing of patch cords. Backboards should also be used to neatly organize the vertical routing of jumpers and patch cords.



Listed

### 110 Family

#### 100-Pair and 300-Pair Wiring Blocks

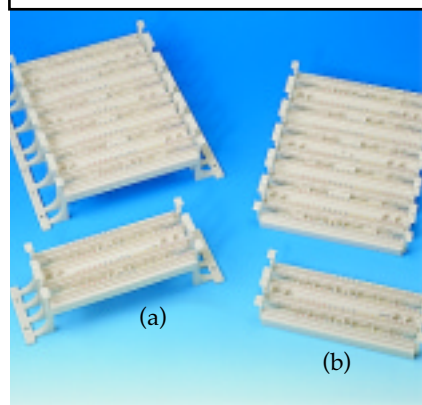


Figure 70  
(a) 110AW2-100, 110AW2-300, 110DW2-100 and 110DW2-300 Wiring Blocks

#### Electrical Specifications

GigaSPEED (Category 6) when installed with 110 GS patch cords

PowerSUM (Category 5 and 5e) when installed with PowerSUM 110 patch cords.

#### Physical Specifications

Height: 100-Pair: 9.12 cm (3.6 in)  
300-Pair: 27.41 cm (10.8 in)  
25/50-Pair: 4.45 cm (1.75 in)

Width: A-Block: 27.23 cm (10.7 in)  
D-Block: 21.60 cm (8.5 in)

Depth: A-Block: 8.25 cm (3.2 in)  
D-Block: 3.60 cm (1.4 in)

| Product             | Material ID | Pair Size | Packaging |
|---------------------|-------------|-----------|-----------|
| 110AW2-100          | 107059891   | 100       | 1/Pkg     |
| 110AW2-300          | 107059917   | 300       | 1/Pkg     |
| 110DW2-100          | 107059909   | 100       | 1/Pkg     |
| 110DW2-300          | 107059925   | 300       | 1/Pkg     |
| CS-061 110AA2-100ft | 107058901   | 100       | 1/Pkg     |
| CS-062 110AA2-300ft | 107058935   | 300       | 1/Pkg     |
| CS-063 110AB2-100FT | 107058919   | 100       | 1/Pkg     |
| CS-064 110AB2-300FT | 107058943   | 300       | 1/Pkg     |
| 110AC2-100FT        | 107058927   | 100       | 1/Pkg     |
| 110AC2-300FT        | 107058950   | 300       | 1/Pkg     |
| 110DE1-25           | 107256653   | 25        | 1/Pkg     |
| 110DW1-50           | 107256661   | 50        | 1/Pkg     |

# Copper Accessories

## 110 Family

### 110C Connecting Blocks

The **110C Connecting Blocks** are one piece, fire-retardant, molded plastic housings containing double-ended, solder plated quick clips with insulation displacement capabilities. The rear or cable side of the connector is designed to mount on the 110 index strip and terminate 0.643 mm - 0.404 mm (22 - 26 AWG) insulated conductors without prior removal of the insulation. The front side of the connector is designed to accept F Cross-Connect Wire or 110 Patch Cords. The top of the **Connecting Block** is stamped with the product code, while the color code on the high teeth is provided to allow for pair identification during installation.



**Figure 82**  
110C-3, 110C-4 and 110C-5 Connecting Blocks

The **110C Connecting Blocks** come in three different pair sizes; **110C-3** is 3-pair, **110C-4** is 4-pair, and **110C-5** is 5-pair.

The **110C Connecting Blocks** meet or exceed the Category 5 and Category 5e requirements in ISO/IEC 11801 (2002), EN50173-1 (2002) and EIA/TIA-568B.



### Physical Specifications

**Height:** 0.8 cm (0.3 in)

**Width:** **3-Pair:** 2.3 cm (1 in); **4-Pair:** 3.1 cm (1.2 in); **5-Pair:** 3.8 cm (1.5 in)

**Depth:** 2.8 cm (1.1 in)

### Electrical Specifications

The 110 Connecting Blocks can be used with patch cords to EIA/TIA Category GigaSPEED XL (Category 6 with 400% margin) when installed as part of a 110 system.

GigaSPEED (Category 6) when installed with 110 GS patch cords.

PowerSUM (Category 5 and 5e) when installed with PowerSUM 110 patch cord, or cross-connect wire.

| Product          | Material ID | Pair Size | Packaging |
|------------------|-------------|-----------|-----------|
| 110C-3           | 103801239   | 3         | 10/Pkg    |
| CS-065<br>110C-4 | 103801247   | 4         | 10/Pkg    |
| CS-066<br>110C-5 | 103801254   | 5         | 10/Pkg    |

## Copper Wiring Blocks

### 110 Family

#### 110 Troughs

The **110 Jumper Trough** is a white, fire-retardant, molded plastic frame which is placed between each 100-pair wiring block and at the top of each column of 110 blocks. It serves as a horizontal trough for the routing of patch cords and cross-connect wire. The trough is available with legs (**110A3 Trough**) for use with the 110A Wiring Block or without legs (**110B3 Trough**) for use with the 110D Wiring Block or patch panel terminal block.



**Figure 71**  
110A2 and  
110B1 Jumper  
Troughs

#### Physical Specifications

**Height:** 6.83 cm (2.7 in)

**Width:** 110A3: 27.30 cm (10.7 in); 110B3: 21.60 cm (8.5 in)

**Depth:** 110A3: 13.91 cm (5.5 in); 110B3: 8.83 cm (3.5 in)

|        | Product | Material ID | Legs | Packaging |
|--------|---------|-------------|------|-----------|
| CS-067 | 110A3   | 107831133   | Yes  | 1/Pkg     |
|        | 110B3   | 107831141   | No   | 1/Pkg     |

# Copper

## Wiring Blocks

### 110 Family

#### 188 Backboards

The **188B1 Backboard** is used next to or between 110A Wiring Blocks to arrange jumper wires running between adjacent blocks. It is constructed of metal with two plastic distribution rings for neat horizontal or vertical routing of the jumper wires.

The **188B2 Backboard** is identical to the **188B1 Backboard** except that the **188B2** has legs to allow space for routing cables behind the **Backboard**.



Figure 72  
188B2 and  
188B1 Backboards

### Physical Specifications

**Height:** 16.50 cm (6.5 in)

**Width:** 27.30 cm (10.7 in)

**Depth:** **188B1:** 8.90 cm (3.5 in); **188B2:** 11.45 cm (4.5 in)

| Product            | Material ID | Legs | Packaging |
|--------------------|-------------|------|-----------|
| 188B1 without legs | 102689569   | No   | 1/Pkg     |
| 188B2 with legs    | 104405113   | Yes  | 1/Pkg     |

CS-068

Copper

Patch Panels

110 Family

188 Backboards

The 110 Patch Panel System Backboard is a metal panel equipped with distributing rings that provide the vertical paths for running patch cords or jumpers between 110 Patch Panel System Terminal Blocks. The 188D3 is used with a 300-pair patch panel while the 188C3 is used with the 900-pair patch panel.

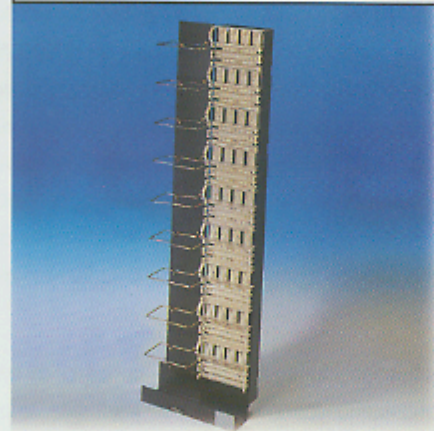


Figure 76  
110PB2-900FT  
Patch Panel and  
188C3 Backboard

Physical Specifications

Length: 188C3: 156.84 cm (61.7 in); 188D3: 61 cm (24 in)

Width: 21.60 cm (8.5 in)

Depth: 20 cm (7.9 in)

| Product | Material ID | Pair Size | Packaging |
|---------|-------------|-----------|-----------|
| CS-069  | 188D3       | 300       | 1/Pkg     |
| CS-070  | 188C3       | 900       | 1/Pkg     |

# Copper

## Wiring Blocks

The 110 Wiring Block is a fire-retardant molded plastic block with horizontal index strips each of which secures and organizes 25 cable pairs. The index strips are marked with the five tip colors to help the installer locate pairs quickly. The blocks accommodate 0.643 mm - 0.404 mm (22 - 26 AWG) diameter conductors and can be mounted directly on wall surfaces.

There are two types of 110 Wiring Blocks: "110A" Wiring Blocks and "110D" Wiring Blocks. The 110A Wiring Block is equipped with legs to provide space behind the block for routing the incoming cables. The 110D Wiring Block is built without legs and is used where depth is restrictive. The 110A Wiring Blocks can be ordered in 100-pair and 300-pair sizes. The 110D Wiring Blocks can be ordered in 25, 50, 100 and 300 pair sizes.

There are several choices in ordering the 110 Wiring Blocks:

- 110AW2 and 110DW2 are only the Wiring Blocks themselves, no accessories are included.
- 110AA2, 110AB2, and 110AC2 are the Wiring Blocks with connecting blocks (A = 5-pair, B = 4-pair, and C = 3-pair), clear designation strips and blank labels.

Please see the ACCESSORIES section of this chapter for associated products.

The 110 Wiring Blocks can be used with patch cords to support Gigabit Data Rates or cross-connect wires up to 10 Mb/s. When using in patching applications, it is important to use a 110 Jumper Trough between each 100-pair block to allow for horizontal routing of patch cords. Backboards should also be used to neatly organize the vertical routing of jumpers and patch cords.

### 110 Family

#### 100-Pair and 300-Pair Wiring Blocks

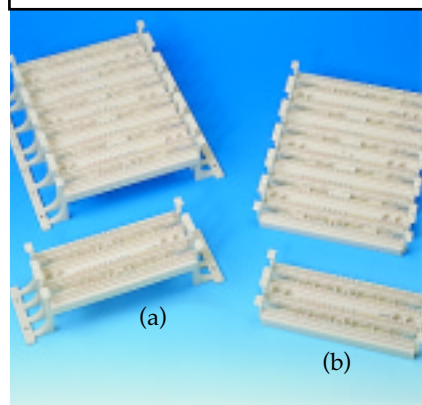


Figure 70  
(a) 110AW2-100, 110AW2-300, 110DW2-100 and 110DW2-300 Wiring Blocks

#### Electrical Specifications

GigaSPEED (Category 6) when installed with 110 GS patch cords

PowerSUM (Category 5 and 5e) when installed with PowerSUM 110 patch cords.

#### Physical Specifications

Height: 100-Pair: 9.12 cm (3.6 in)  
300-Pair: 27.41 cm (10.8 in)  
25/50-Pair: 4.45 cm (1.75 in)

Width: A-Block: 27.23 cm (10.7 in)  
D-Block: 21.60 cm (8.5 in)

Depth: A-Block: 8.25 cm (3.2 in)  
D-Block: 3.60 cm (1.4 in)



| Product          | Material ID | Pair Size | Packaging |
|------------------|-------------|-----------|-----------|
| 110AW2-100       | 107059891   | 100       | 1/Pkg     |
| 110AW2-300       | 107059917   | 300       | 1/Pkg     |
| 110DW2-100       | 107059909   | 100       | 1/Pkg     |
| 110DW2-300       | 107059925   | 300       | 1/Pkg     |
| 110AA2-100ft     | 107058901   | 100       | 1/Pkg     |
| 110AA2-300ft     | 107058935   | 300       | 1/Pkg     |
| 110AB2-100FT     | 107058919   | 100       | 1/Pkg     |
| 110AB2-300FT     | 107058943   | 300       | 1/Pkg     |
| 110AC2-100FT     | 107058927   | 100       | 1/Pkg     |
| 110AC2-300FT     | 107058950   | 300       | 1/Pkg     |
| CS-071 110DE1-25 | 107256653   | 25        | 1/Pkg     |
| CS-072 110DW1-50 | 107256661   | 50        | 1/Pkg     |



|                           |
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| Racks & Cable Management  |
| Patch Cords & Components  |
| Fiber                     |
| Industrial                |
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| S66 Products / Protection |
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| Tools & Testers           |

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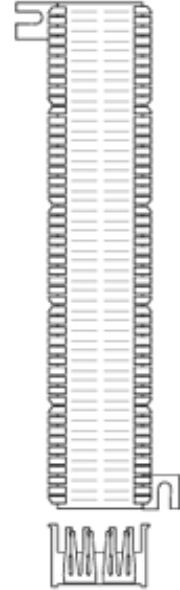
## S66 Field-Terminated M Series Blocks

**Part Number: S66M1-50**

**Description:** M Series Category 5e 66 Block, Pair Capacity: 50 Quick Clip: 500. Center-to-center vertical spacing between rows of clips is 6.4mm (0.25 in.).

*height: 254mm (10 in.)*  
*width: 86.4mm (3.4 in.)*  
*depth: 24.6mm (1.0 in.)*

**Block Size:** 4 x 50  
**Pair Capacity:** 50



Note: Picture may not represent the actual product.

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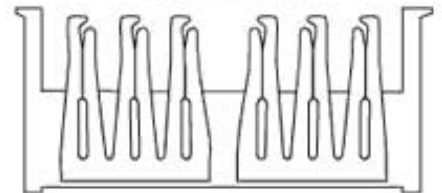
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## S66 Field-Terminated B Series Blocks

**Part Number: S66B3-50**

**Description:** B Series 66 Block, Pair Capacity: 50, Quick Clip: 843

**Block Size:** 6 x 50  
**Pair Capacity:** 50



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Note: Picture may not represent the actual product.

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## S66 Prewired M Series Blocks

**Part Number: S66M2-5W**

**Description:** Pair Capacity - 50 (bridged, 2 dual common clips). Two female 25-pair connectors.

**Pair Capacity:** 50 (bridged)  
**25-pair Connector Type:** Female  
**Connector Mount Location:** Side  
**Clip Layout:** 2 dual common clips



Note: Picture may not represent the actual product.

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## S66 Bridging Clips

**Part Number: SA1-100**

**Description:** 2-position clip, 100 per polybag

**Clip Material:** Tin Plated

**Quantity:** 100



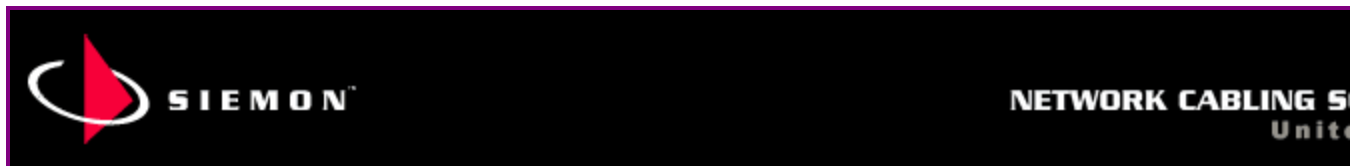
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## S66 Stand-off Brackets

**CS-077** **Part Number: SB6**

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**ACA Compliance Check:** This Siemon compliant cabling product will no longer Tick affixed.

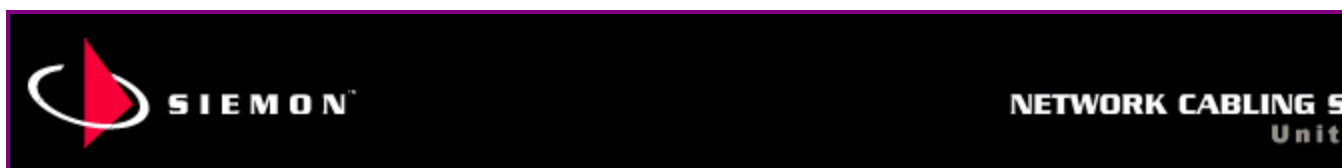
**Description:** S66 block stand-off bracket. Use with all B6 X 50 series blocks. Can mount three 25-pair connector on each side and six on the back.

**Product Type:** Bracket for all B6 X 50 blocks.



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## S66 Snap On Covers

**Part Number: BC6**

**Description:** Clear snap-on cover, for use with: B6 X 50

**Used With:** B6 x 50



Note: Picture may not represent the actual product.

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## **BACKBOARDS**

**CS-079 Plywood Backboard, 2' X 4', ea**

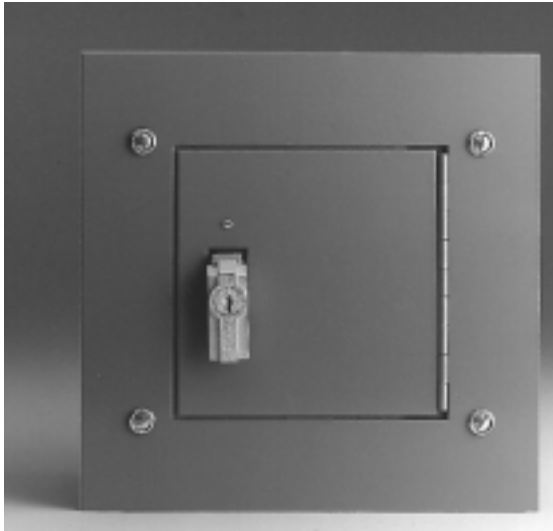
**CS-080 Plywood Backboard, 4' X 4', ea**

**CS-081 Plywood Backboard, 4' X 8', ea**

Includes materials and labor to mount a  $\frac{3}{4}$ " deep, wolmanized, construction standard type plywood backboard. Backboard will be painted on both sides prior to placement with white fire retardant paint.

# Type 1 Telephone Termination Cabinets

## Data Sheet



Flush Mount



Surface Mount

### Application

- Houses electrical controls and instruments
- Used as wiring boxes, junction boxes, pull boxes, telephone and communication cable termination and spare fuse cabinet
- Protects against contact with enclosed equipment

### Standards

- UL 50 listed, Type 1
- CSA C22.2 No. 40 certified, Type 1
- Conforms to NEMA standard for Type 1
- IEC 60529, IP30

### Finish

- Wash and phosphate undercoat
- ANSI 61 gray acrylic electrocoat finish

### Accessories

- Locks and latches
- Ground lug kit
- Terminal blocks
- Wood back boards, barriers and shelves
- Touch-up paint
- See Accessories section

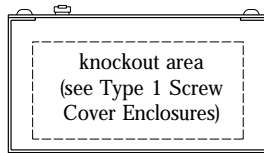
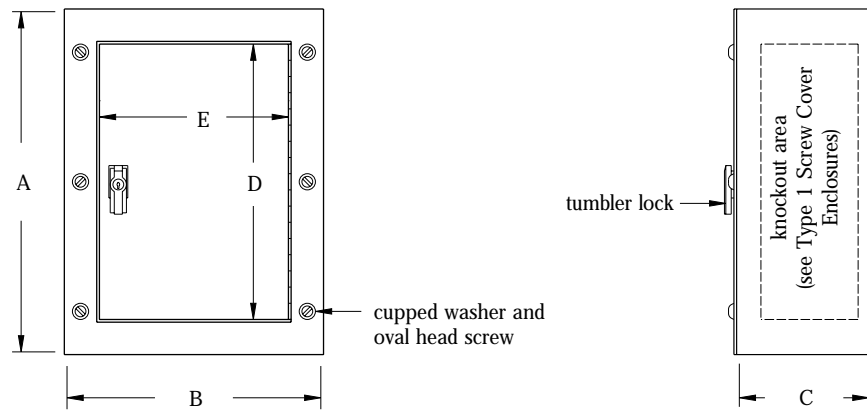
### Construction

- Cabinet and trim covers are fabricated from code gauge steel, (see table)
- Cabinet body has mounting holes on the back
- Knockouts on sides, top and bottom ends are standard on cabinets 24 inches wide or smaller, (see Type 1 Screw Cover Enclosures for knockout configuration)
- Cabinets are available without knockouts
- Surface or flush mounting
- Doors have either a continuous or heavy-duty butt hinge
- Double-door construction on trim covers fitting cabinets wider than 24 inches
- Tumbler lock with key furnished on single-door trim covers less than 48 inches high
- T-handle 3-pt lock with key furnished on 48" high single-door and all double-door trim covers
- Directory card holder on all trim covers wider than 18 inches
- Trim covers can be ordered separately and used with Type 1 Screw Cover Enclosures, (see table)
- Cupped washer and bright finish oval head screw used to protect trim cover finish and improve appearance



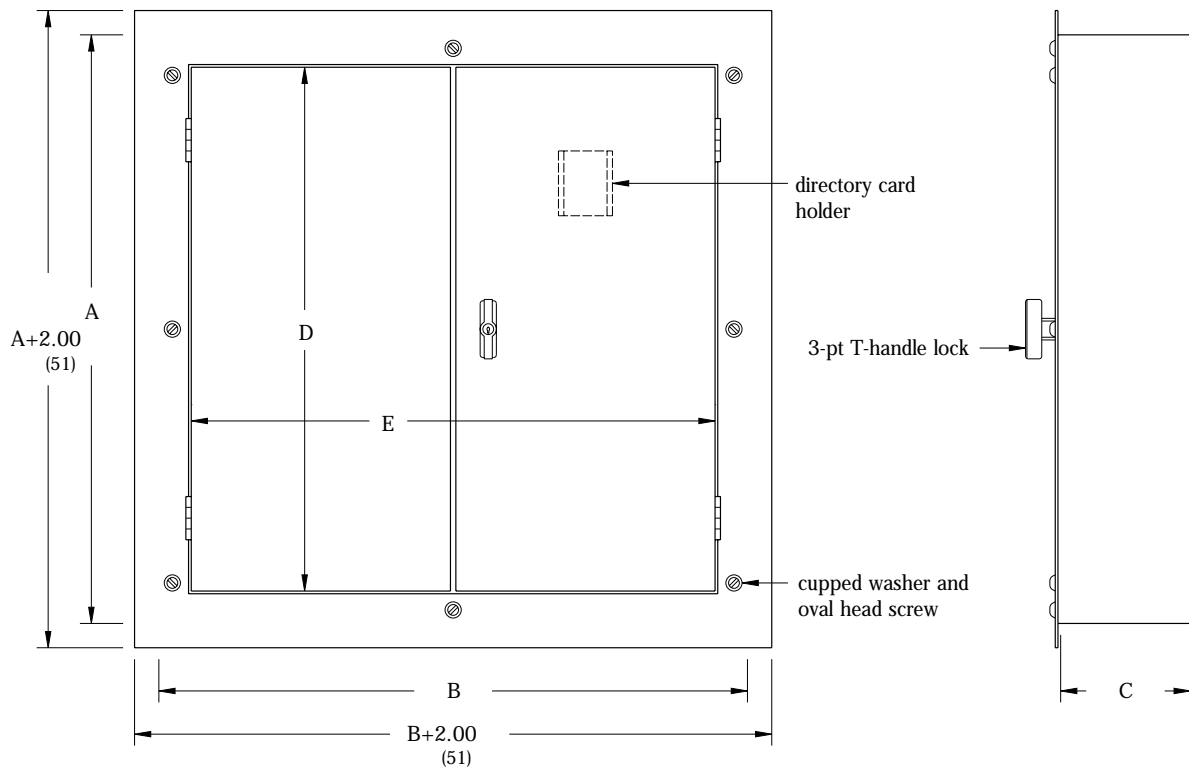
# Type 1 Telephone Termination Cabinets

## Illustration Sheet



**Typical Single Door**  
(surface mount)

**Note:** Knockouts are standard on cabinets 24 inches wide and smaller. (See Type 1 Screw Cover Enclosures for KO configuration).



**Typical Double Door**  
(flush mount)

# Type 1 Telephone Termination Cabinets

Catalog Number

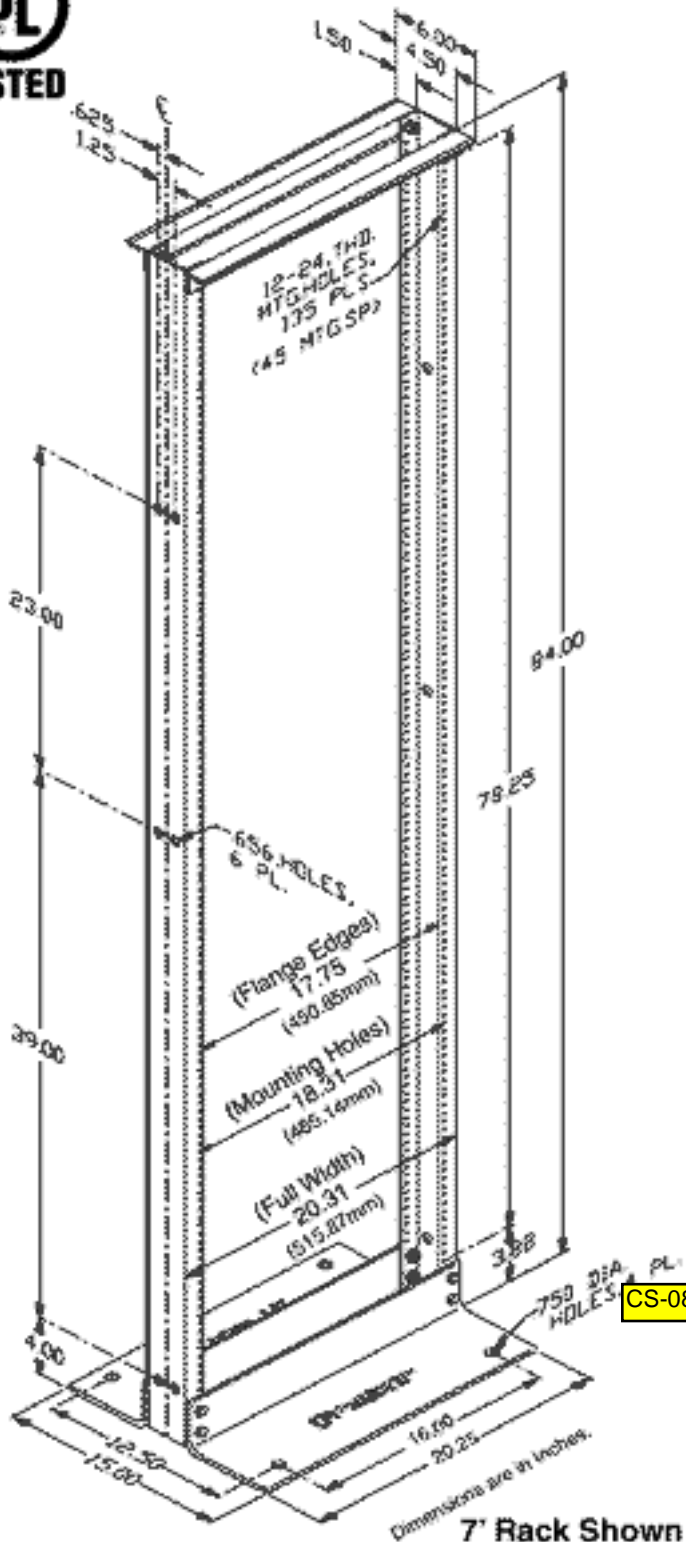
Type 1 Enclosures

| Cabinet Depth | Cabinet Catalog Number |                  | Cabinet Size           |              | Gauge    | Trim Cover Catalog Number |          |          |       | Door Opening <sup>(1)</sup> |      |         |     |
|---------------|------------------------|------------------|------------------------|--------------|----------|---------------------------|----------|----------|-------|-----------------------------|------|---------|-----|
|               | Surface                | Flush            | Height x Width x Depth |              |          | Surface                   | Gauge    | Flush    | Gauge | Height D                    |      | Width E |     |
|               |                        |                  | in.                    | mm           |          |                           |          |          |       | in.                         | mm   | in.     | mm  |
| 4             | 884 TCS                | 884 TCF          | 8.00x8.00x4.00         | 203x203x102  | 16       | 88 TCS                    | 16       | 88 TCF   | 14    | 5                           | 127  | 5       | 127 |
|               | 10104 TCS              | 10104 TCF        | 10.00x10.00x4.00       | 254x254x102  | 16       | 1010 TCS                  | 16       | 1010 TCF | 14    | 6                           | 152  | 6       | 152 |
|               | 1284 TCS               | 1284 TCF         | 12.00x8.00x4.00        | 305x203x102  | 16       | 128 TCS                   | 16       | 128 TCF  | 14    | 8                           | 203  | 5       | 127 |
|               | 12104 TCS              | 12104 TCF        | 12.00x10.00x4.00       | 305x254x102  | 16       | 1210 TCS                  | 16       | 1210 TCF | 14    | 8                           | 203  | 6       | 152 |
|               | 12124 TCS              | 12124 TCF        | 12.00x12.00x4.00       | 305x305x102  | 16       | 1212 TCS                  | 16       | 1212 TCF | 14    | 8                           | 203  | 8       | 203 |
|               | 16124 TCS              | 16124 TCF        | 16.00x12.00x4.00       | 406x305x102  | 16       | 1612 TCS                  | 16       | 1612 TCF | 14    | 12                          | 305  | 8       | 203 |
|               | 18124 TCS              | 18124 TCF        | 18.00x12.00x4.00       | 457x305x102  | 16       | 1812 TCS                  | 16       | 1812 TCF | 14    | 14                          | 356  | 8       | 203 |
|               | 18154 TCS              | 18154 TCF        | 18.00x15.00x4.00       | 457x381x102  | 16       | 1815 TCS                  | 16       | 1815 TCF | 14    | 14                          | 356  | 11      | 279 |
|               | 18184 TCS              | 18184 TCF        | 18.00x18.00x4.00       | 457x457x102  | 16       | 1818 TCS                  | 16       | 1818 TCF | 12    | 14                          | 356  | 14      | 356 |
|               | 24124 TCS              | 24124 TCF        | 24.00x12.00x4.00       | 610x305x102  | 16       | 2412 TCS                  | 16       | 2412 TCF | 12    | 19                          | 483  | 8       | 203 |
|               | 24184 TCS              | 24184 TCF        | 24.00x18.00x4.00       | 610x457x102  | 16       | 2418 TCS                  | 14       | 2418 TCF | 12    | 19                          | 483  | 14      | 356 |
|               | 24244 TCS              | 24244 TCF        | 24.00x24.00x4.00       | 610x610x102  | 14       | 2424 TCS                  | 14       | 2424 TCF | 12    | 19                          | 483  | 19      | 483 |
|               | 30154 TCS              | 30154 TCF        | 30.00x15.00x4.00       | 762x381x102  | 16       | 3015 TCS                  | 14       | 3015 TCF | 12    | 25                          | 635  | 11      | 279 |
|               | 30184 TCS              | 30184 TCF        | 30.00x18.00x4.00       | 762x457x102  | 16       | 3018 TCS                  | 14       | 3018 TCF | 12    | 25                          | 635  | 14      | 356 |
|               | 30244 TCS              | 30244 TCF        | 30.00x24.00x4.00       | 762x610x102  | 14       | 3024 TCS                  | 14       | 3024 TCF | 12    | 25                          | 635  | 19      | 483 |
|               | 30304 TCS NK           | 30304 TCF NK     | 30.00x30.00x4.00       | 762x762x102  | 12       | 3030 TCS                  | 12       | 3030 TCF | 12    | 25                          | 635  | 25      | 635 |
|               | 36244 TCS              | 36244 TCF        | 36.00x24.00x4.00       | 914x610x102  | 14       | 3624 TCS                  | 14       | 3624 TCF | 12    | 31                          | 787  | 19      | 483 |
|               | 36304 TCS NK           | 36304 TCF NK     | 36.00x30.00x4.00       | 914x762x102  | 12       | 3630 TCS                  | 12       | 3630 TCF | 12    | 31                          | 787  | 25      | 635 |
|               | 36364 TCS NK           | 36364 TCF NK     | 36.00x36.00x4.00       | 914x914x102  | 12       | 3636 TCS                  | 12       | 3636 TCF | 12    | 31                          | 787  | 31      | 787 |
|               | 48244 TCS              | 48244 TCF        | 48.00x24.00x4.00       | 1219x610x102 | 14       | 4824 TCS                  | 12       | 4824 TCF | 12    | 43                          | 1092 | 19      | 483 |
| 48364 TCS NK  | 48364 TCF NK           | 48.00x36.00x4.00 | 1219x914x102           | 12           | 4836 TCS | 10                        | 4836 TCF | 10       | 43    | 1092                        | 31   | 787     |     |
| 48484 TCS NK  | 48484 TCF NK           | 48.00x48.00x4.00 | 1219x1219x102          | 12           | 4848 TCS | 10                        | 4848 TCF | 10       | 43    | 1092                        | 43   | 1092    |     |
| 6             | 10106 TCS              | 10106 TCF        | 10.00x10.00x6.00       | 254x254x152  | 16       | 1010 TCS                  | 16       | 1010 TCF | 14    | 6                           | 152  | 6       | 152 |
|               | 1286 TCS               | 1286 TCF         | 12.00x8.00x6.00        | 305x203x152  | 16       | 128 TCS                   | 16       | 128 TCF  | 14    | 8                           | 203  | 5       | 127 |
|               | 12106 TCS              | 12106 TCF        | 12.00x10.00x6.00       | 305x254x152  | 16       | 1210 TCS                  | 16       | 1210 TCF | 14    | 8                           | 203  | 6       | 152 |
|               | 12126 TCS              | 12126 TCF        | 12.00x12.00x6.00       | 305x305x152  | 16       | 1212 TCS                  | 16       | 1212 TCF | 14    | 8                           | 203  | 8       | 203 |
|               | 16126 TCS              | 16126 TCF        | 16.00x12.00x6.00       | 406x305x152  | 16       | 1612 TCS                  | 16       | 1612 TCF | 14    | 12                          | 305  | 8       | 203 |
|               | 18126 TCS              | 18126 TCF        | 18.00x12.00x6.00       | 457x305x152  | 16       | 1812 TCS                  | 16       | 1812 TCF | 14    | 14                          | 356  | 8       | 203 |
|               | 18156 TCS              | 18156 TCF        | 18.00x15.00x6.00       | 457x381x152  | 16       | 1815 TCS                  | 16       | 1815 TCF | 14    | 14                          | 356  | 11      | 279 |
|               | 18186 TCS              | 18186 TCF        | 18.00x18.00x6.00       | 457x457x152  | 16       | 1818 TCS                  | 16       | 1818 TCF | 12    | 14                          | 356  | 14      | 356 |
|               | 24126 TCS              | 24126 TCF        | 24.00x12.00x6.00       | 610x305x152  | 16       | 2412 TCS                  | 16       | 2412 TCF | 12    | 19                          | 483  | 8       | 203 |
|               | 24186 TCS              | 24186 TCF        | 24.00x18.00x6.00       | 610x457x152  | 16       | 2418 TCS                  | 14       | 2418 TCF | 12    | 19                          | 483  | 14      | 356 |
|               | 24246 TCS              | 24246 TCF        | 24.00x24.00x6.00       | 610x610x152  | 14       | 2424 TCS                  | 14       | 2424 TCF | 12    | 19                          | 483  | 19      | 483 |
|               | 30156 TCS              | 30156 TCF        | 30.00x15.00x6.00       | 762x381x152  | 16       | 3015 TCS                  | 14       | 3015 TCF | 12    | 25                          | 635  | 11      | 279 |
|               | 30186 TCS              | 30186 TCF        | 30.00x18.00x6.00       | 762x457x152  | 16       | 3018 TCS                  | 14       | 3018 TCF | 12    | 25                          | 635  | 14      | 356 |
|               | 30246 TCS              | 30246 TCF        | 30.00x24.00x6.00       | 762x610x152  | 14       | 3024 TCS                  | 14       | 3024 TCF | 12    | 25                          | 635  | 19      | 483 |
|               | CS-082 → 30306 TCS NK  | 30306 TCF NK     | 30.00x30.00x6.00       | 762x762x152  | 12       | 3030 TCS                  | 12       | 3030 TCF | 12    | 25                          | 635  | 25      | 635 |
|               | 36246 TCS              | 36246 TCF        | 36.00x24.00x6.00       | 914x610x152  | 14       | 3624 TCS                  | 14       | 3624 TCF | 12    | 31                          | 787  | 19      | 483 |
|               | 36306 TCS NK           | 36306 TCF NK     | 36.00x30.00x6.00       | 914x762x152  | 12       | 3630 TCS                  | 12       | 3630 TCF | 12    | 31                          | 787  | 25      | 635 |
|               | 36366 TCS NK           | 36366 TCF NK     | 36.00x36.00x6.00       | 914x914x152  | 12       | 3636 TCS                  | 12       | 3636 TCF | 12    | 31                          | 787  | 31      | 787 |
|               | 48246 TCS              | 48246 TCF        | 48.00x24.00x6.00       | 1219x610x152 | 14       | 4824 TCS                  | 12       | 4824 TCF | 12    | 43                          | 1092 | 19      | 483 |
|               | 48366 TCS NK           | 48366 TCF NK     | 48.00x36.00x6.00       | 1219x914x152 | 12       | 4836 TCS                  | 10       | 4836 TCF | 10    | 43                          | 1092 | 31      | 787 |
| 48486 TCS NK  | 48486 TCF NK           | 48.00x48.00x6.00 | 1219x1219x152          | 12           | 4848 TCS | 10                        | 4848 TCF | 10       | 43    | 1092                        | 43   | 1092    |     |

(1) Door opening is approximate.

CS-083

# STANDARD RACK



## 7', 8' & 9' Standard and 7' U.L. Listed Standard Rack

The standard rack is designed for value conscious, high volume customers, while still offering the quality and service that sets CPI racks apart from the competition. The 7'H x 19"W UL listed standard equipment rack is an Underwriters Laboratory listed 22Y9 communications circuit accessory designed specifically for use in telecommunications equipment installations where codes require UL Listed equipment racks. For those customers who require a greater breadth of features, we recommend CPI Universal racks described on the preceding pages.

For decades, CPI racks have set industry standards. Priced competitively, the Standard Equipment Rack represents the best value in racks today.

- Self-supporting racks in three heights. High- strength 6061-T6 aluminum construction. Supplied with two top angles for additional strength
- 5/8"-5/8"-1/2" alternating hole pattern offers greater mounting flexibility and is fully compatible with conventional EIA 1 1/4"-1/2" alternating hole patterns
- Six web channel holes per side enable multiple racks to be mounted together side by side
- High strength roll-formed threaded mounting holes
- Includes 50 pilot point #12-24 mounting screws with combination Phillips & Straight heads to reduce cross-threading and installation time
- White, Black, Gray or Clear grained finish provides attractive appearance and protection against aluminum oxidation corrosion
- Ships unassembled. Individually packaged, with assembly and installation instructions included. Bulk packaging (25 racks per pallet) is also available
- Weight capacity of 750 lb (evenly distributed)

| PART NUMBER | DESCRIPTION          | RMU | SHIPPING WEIGHT |
|-------------|----------------------|-----|-----------------|
| 55053-X03   | 19" X 7' STD RACK    | 45  | 32 lb           |
| 55053-X15   | 19" X 8' STD RACK    | 51  | 38 lb           |
| 55053-X08   | 19" X 9' STD RACK    | 58  | 41 lb           |
| 55054-X03   | 19" X 7' UL STD RACK | 45  | 32 lb           |

\* Note: X=color: 1=Gray, 2=White, 5=Clear, 7=Black

| <b>RACK HEIGHT</b> | <b>NUMBER OF MOUNTING HOLES</b> | <b>NUMBER OF MOUNTING SPACES</b> |
|--------------------|---------------------------------|----------------------------------|
| 7'                 | 135                             | 45                               |
| 8'                 | 155                             | 51                               |
| 9'                 | 176                             | 58                               |

[Top](#)

1-9

© Chatsworth Products, Inc.

# Product Information Sheet

## SINGLE-SIDED WIDE VERTICAL CABLING SECTION

Provides convenient cable run between equipment racks.  
Conceals cable for a more attractive installation.

- Bolts to CPI Standard and Universal racks and the 6" Deep High Density Frame
- Includes formed cabling section, lockable cabling latches (12" in between latches), protective edge guards, and mounting hardware
- 6"W x 6.38"D; single-sided cable trough
- 9' version consists of 7' section with a 2' extension
- Sold individually

|        |       |                                     |
|--------|-------|-------------------------------------|
| CS-085 | 11374 | Cabling Section, Single-Sided, Wide |
|--------|-------|-------------------------------------|

| Color |                |
|-------|----------------|
| 1     | Gray           |
| 2     | Computer White |
| 5     | Clear          |
| 7     | Black          |

| Height |                     |
|--------|---------------------|
| 00     | Five foot Six inch  |
| 01     | Six foot            |
| 02     | Six foot Six inch   |
| 03     | Seven foot          |
| 05     | Seven foot Six inch |
| 15     | Eight foot          |
| 08     | Nine foot           |

|       |   |   |    |
|-------|---|---|----|
| 11374 | - | X | XX |
|-------|---|---|----|

### Single-Sided Wide Vertical Cabling Section Extensions

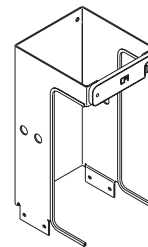
Adds one or two feet of height to vertical cabling sections, providing a uniform vertical pathway from ceiling to rack. Mounting hardware included.

| Part Number | Description                        | Shipping Weight |
|-------------|------------------------------------|-----------------|
| 11584-X01   | One-Foot Extension<br>6"W x 6.38"D | 3 lb            |
| 11378-X01   | Two-Foot Extension<br>6"W x 6.38"D | 4 lb            |

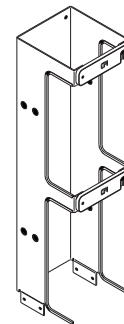
\* Note: X=color: 1=Gray, 2=White, 5=Clear, 7=Black



One-Foot Extension



Two-Foot Extension



# SYSTIMAX®

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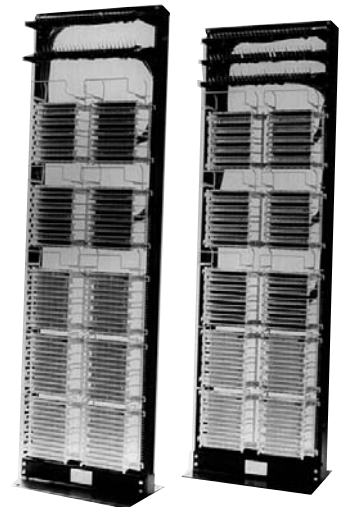
## SOLUTIONS

## The SYSTIMAX® Extra Large Building Entrance Terminal Frame System (XLBET)

### SYSTIMAX® SCS Component

You needed more density so we made it even bigger. The Extra Large Building Entrance Terminal (XLBET) Frame System was introduced to facilitate even larger entrance facilities where wall space is at a premium. The Extra Large Building Entrance Terminal is used to terminate telephone network cables from the central office, and designed to meet the needs of large entrance facilities and PBX distribution systems where space is at a premium.

The XLBET can be designed to meet the needs of any facility or PBX distribution system. The key to installation is the modular design, adding versatility and professional looking hardware where space is at a premium and high density is required. When frame-mounted apparatus is used, engineering time is reduced since each site does not require customized design. Frames fit well into the modular concept as they allow for easy system expansion and are convenient to handle.



#### Features

- Free standing frame comes in both Single-sided and Double-sided configurations
- Available in both 19" and 23" widths and 7ft in height
- Maximizes use of space
- Accommodates any standard 19" or 23" application
- Available with protection, termination or pre-connectorization

#### Applications

- PBX Distribution Systems Protection Support Data Terminations

### Physical Specifications

|         | Single-Sided                | Double-Sided                |
|---------|-----------------------------|-----------------------------|
| Height: | 7 ft (213.3 cm)             | 7 ft (213.3 cm)             |
| Width:  | 20 / 24 inch (50.8 / 61 cm) | 20 / 24 inch (50.8 / 61 cm) |
| Depth:  | 15 inch (38.1 cm)           | 15 inch (38.1 cm)           |

### Ordering Information

| Material ID   | Product Description | Description   |
|---|---------------------|---|
| <b>Basic Frame</b>  |                     |   |
| CS-087  | 105 158 224         | 7 ft Tall 24" Wide Single-Sided   |
|   | 105 158 240         | 7 ft Tall 24" Wide Double-Sided   |
| CS-086  | 107 308 322         | 7 ft Tall 20" Wide Single-Sided   |
|   | 107 308 330         | 7 ft Tall 20" Wide Double-Sided   |
| <b>Brackets and Unwired Assemblies: To Mount 195 Protectors</b> |                     |   |
|   | 105 661 771         | Brackets to mount 1200 pairs of 195 blocks  |
|   | 105 516 496         | Brackets to mount 2700 pairs of 195 blocks  |
| <b>To Mount 110 Connectors in 19" Frames</b>                    |                     |   |
|   | 107 535 593         | Bracket to mount 100 pairs of 110 connectors  |
|   | 107 535 585         | Bracket to mount 200 pairs of 110 connectors  |
|   | 107 098 816         | Bracket to mount 110 patch panel hardware, 3 ea.                                    |
|   | 108 340 779         | Bracket to mount 600 pairs of 110 connectors, 2 ea.                                 |
| <b>To Mount 110 Connectors in 23" Frames</b>                    |                     |   |
|   | 107 213 068         | Bracket for mounting 110AW  |
|   | 107 213 076         | Bracket for mounting 110AW and wire management                                      |
|   | 107 213 084         | Bracket for mounting 110AW and wire management                                      |
|   | 107 396 533         | Bracket for wire management front to rear   |
|   | 107 205 205         | Field terminate 600 pairs on 110AW hardware, with 2002 and 2007 mounting brackets   |
|   | 107 205 213         | Field terminate 600 pairs on 110AW hardware, with 2002 and 2007 mounting brackets   |
|   | 107 512 055         | Field terminate 200 pairs on 110DW hardware, with 110B3 wire troughs in a 24" frame |

# Mounting Plate Brackets (Non-Metallic)



PATENT PENDING

## Features

- No sharp metal edges with new plastic design.
- Fastest, easiest way to install.
- No installation tools required to secure bracket in the drywall opening.
- Serrated interlocking system secures tight.
- Template points on brackets eliminate multiple measurement markings during installation.
- Recessed design assures flush mount of device.
- Only CADDY provides the industry with the widest application range 1/4" to 1 1/4".
- Available in single gang, double gang and a unique 3-4 gang sizes.
- Eliminates the need for electrical boxes on low voltage class 2 applications.

**NOTE:** For low voltage Class 2 use only.

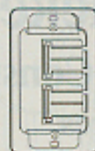


Fig. 1

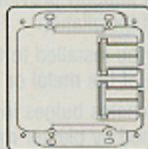


Fig. 2

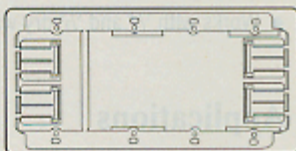
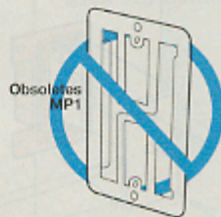
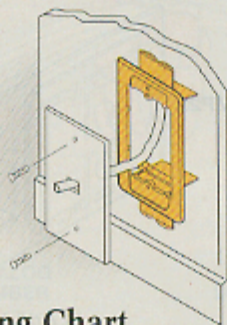


Fig. 3

## Applications



UL & cUL Listed  
No Load Rating - Positioning Only

## Sizing Chart

| CATALOG NUMBER              | FIG NO. | DESCRIPTION                | QTY PER BOX |
|-----------------------------|---------|----------------------------|-------------|
| CS-088<br>MP1P <sup>1</sup> | 1       | Single gang mounting plate | 100         |
| CS-089<br>MPAL2             | 2       | Double gang mounting plate | 100         |
| MP34P                       | 3       | 3 or 4 gang mounting plate | 20          |

<sup>1</sup> Replaces MP1

# Mounting Plate Brackets (Metallic)

PATENT NUMBERS  
US: 4,955,825  
Re: 33,305  
Can: 1,265,230

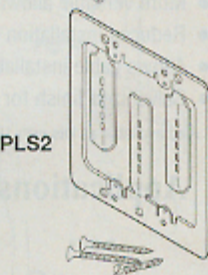
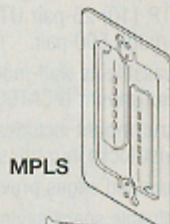
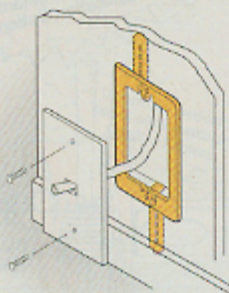
## Screw-On Support

### Features

- Provides positive support with locking screws (included).
- Mounts any standard low voltage device in 1/2" through 1 1/4" walls.
- Makes wire "fishing" easier.
- Install with a drywall saw and screwdriver.
- Eliminates the need for an electrical box when installing low voltage Class 2 wiring.

**NOTE:** For low voltage Class 2 use only.

## Applications



## Sizing Chart

UL & cUL Listed  
No Load Rating - Positioning Only

| CATALOG NUMBER | DESCRIPTION                                     | QTY. PER BOX |
|----------------|---|--------------|
| MPLS           | Single gang screws to drywall (screws included) | 100          |
| MPLS2          | Double gang screws to drywall (screws included) | 100          |



## Bring Wiring Down to Business



**D**ropping power and communications – neatly and simply – from up there to down here: that’s what Wiremold® Tele-Power Poles are all about. Their sole purpose is to get the business end of your wiring needs down to your office equipment, phones, PCs, and task lighting. Specifically, in away-from-wall locations in open commercial office areas, schools, labs, stores, and other sites.

Whatever kind of power or communications wiring you need to bring down to the desk side, workstations, or cash registers – Wiremold Tele-Power Poles handle all your needs effortlessly. For your modular office furniture – our poles easily provide the hook up to feed office partitions. The poles are available with specialized electrical circuits such as dedicated/isolated ground, and with Sentrex® surge protection modules. Without electrical power; you may devote the vertical drop poles entirely to communications and/or power feeds.



*Tele-Power Poles offer a convenient open space solution.*

### Features & Benefits

- **Wide selection of materials, finishes, wire fill capacities, heights, and devices.** Application versatility in commercial open office landscapes, schools, labs, stores, and manufacturing plants.
- **Communication twistouts.** Allows flexibility and easy access to update wiring.
- **Relocatable.** Ready for service in 30 minutes or less.
- **Dual-channel.** Accommodates electrical power circuits plus receptacles and low voltage cabling.
- **Furnished with feed fittings, ceiling trim plates, T-bar mounting hardware, and carpet/floor grippers.** Includes all components for a complete and stationary installation.
- **Add-On compartment.** Increase cable capacity for 25DT, NP620, and AMTP Series.
- **Dedicated custom capabilities.** Modify receptacles, change enamel and powder coat paint finishes, alter pole heights, add fixture whips, and more. Consult your local Wiremold representative.
- **Datacom connectivity options.** Accepts industry standard and proprietary devices from a wide range of manufacturers to provide a seamless and aesthetically pleasing interface for voice, data, audio, and video applications at the point of use.
- **Connectivity pole.** Pole comes complete with Category 5e connections. 
- **Low voltage cabling entrance fitting.** 2" [51mm] radius control. For use with 25DT and AMDT Series. UL Listed for use in plenum areas.
- **Jumbo poles.** Our largest capacity series to accommodate tomorrow’s wire and cable requirements. 

# Steel Tele-Power Poles

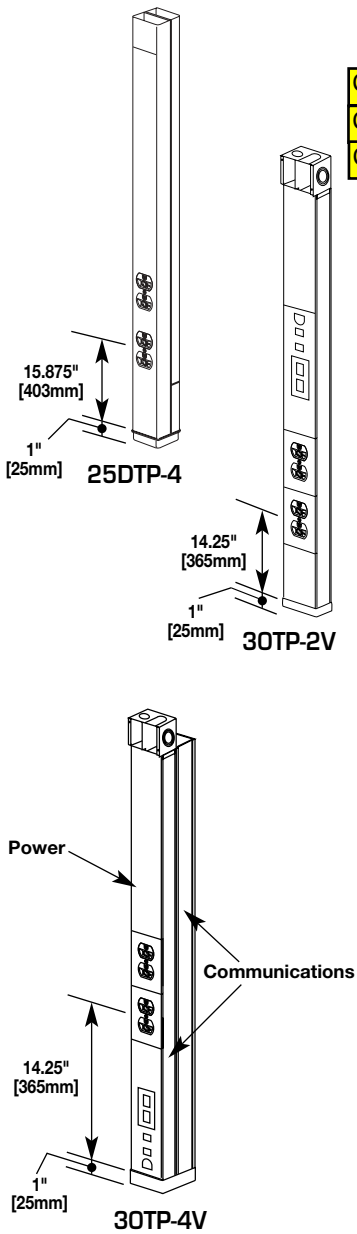
- Standard of the industry; combines good looks, economy, and easy installation with sufficient capacity for expansion.
- Ivory enamel finish with matching 20A, 120V NEMA heavy duty duplex receptacles.
- Dedicated circuit pole features separate isolated ground circuit protection.
- Dual channel poles for communication cabling and power wiring accessibility.
- Modular jack knockouts and modular furniture outlets permit direct connections or use "mouse hole" grommet for direct cable feed.

Steel Tele-Power Poles



25DTP-4ACT pole with additional inserts.

## Receptacle Heights

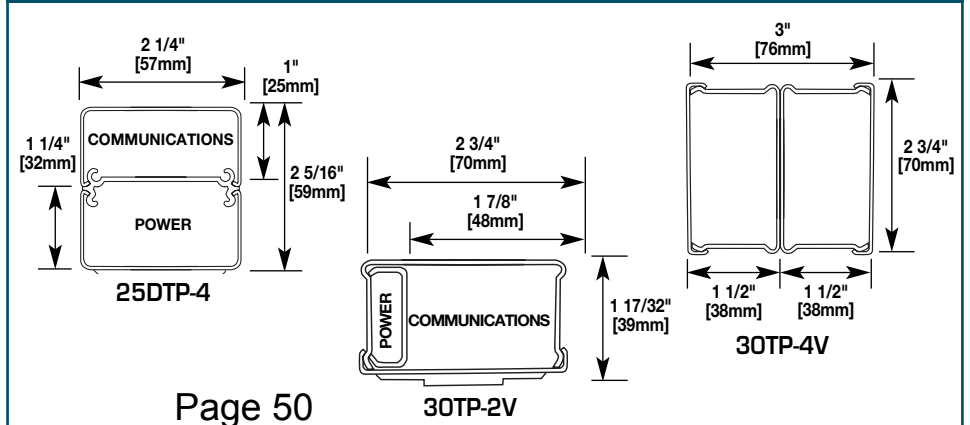


- CS-090
- CS-091
- CS-092

## Ordering Guide

| CATALOG NO. | OUTLETS  | HEIGHT          | FINISH | CAPACITY      |     |          |       |
|-------------|--|-----------------|--------|---------------|-----|----------|-------|
|             |  |                 |        | THHN/THWN #10 | #12 | UTP 4-PR | 25-PR |
| 25DTP-4     | Two Duplex Receptacles (20A, 125V)   | 10' 5" [3.175m] | Ivory  | 10            | 15  | 15       | 6     |
| 25DTP-412   | Two Duplex Receptacles (20A, 125V)   | 12' 5" [3.780m] |        |               |     |          |       |
| 25DTP-415   | Two Duplex Receptacles (20A, 125V)   | 15' 5" [4.700m] |        |               |     |          |       |
| 25DTP-4ACT  | Two Duplex Receptacles (20A, 125V) One Communications Insert Mounting Bezel, One Dual Cat 5e Insert, Two Blank Inserts and Labeling Supplies | 10' 5" [3.175m] |        |               |     |          |       |
| 25DTP-4D    | Two Duplex Receptacles (20A, 125V) One Dedicated/ Isolated and One Standard Branch Circuit   | 10' 5" [3.175m] |        |               |     |          |       |
| 30TP-2V     | Two Duplex Receptacles (20A, 125V)   | 10' 5" [3.175m] | Ivory  | 9             | 14  | 22       | 8     |
| 30TP-212V   |  | 12' 5" [3.780m] |        |               |     |          |       |
| 30TP-4V     | Two Duplex Receptacles (20A, 125V)   | 10' 5" [3.175m] | Ivory  | 18            | 18  | 30       | 11    |
| 30TP-412V   |  | 12' 5" [3.780m] |        |               |     |          |       |
| 25AM10FO    | 2" [51mm] radius control entrance fitting for 25DT and AMDT Series   |                 |        |               |     |          |       |

## Cross-Sectional Areas



Catalog Direct Fastening Powder Actuated System Specialty Fasteners Clips Ceiling Clips Ceiling Clips (Non-Combo)

**CS-093** Ceiling clip CC27 X-AL-H22P8T 8' (100/bundle): Item No.: 00283375



Enlarge photo

#### Technical Data

|                     |   |
|---------------------|---|
| Ordering Name       | Ceiling clip CC27 X-AL-H22P8T 8' (100/bundle) |
| Package Quantity    | 100   |
| Pin Length          | 7/8 in.                                       |
| Useable Wire Length | 7.5 ft  |
| Applications        | Hanging suspended ceilings                    |
| Nail Included       | Yes   |
| Pin Type            | Standard                                      |
| Wire Thickness      | 12 gauge                                      |

#### Online shopping

##### Package quantity

100

##### Number of packages

Add to cart

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## Hilti. Outperform. Outlast.

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Hilti = registered trademark of Hilti Corp., FL-9494 Schaan, Principality of Liechtenstein  
© 2001 - 2006, Right of technical and programme changes reserved, S.E. & O.



## CADDY® Clips for Threaded Rods

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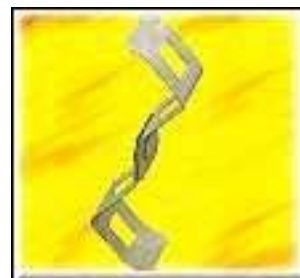


ERICO offers CADDY Clips for Threaded Rods.

### Features

#### MA/MA Hanger

- For M6-M8-M10 threaded rods
- Simply squeeze either spring steel component for height adjustment
- Adjustment without having to dismantle equipment



#### K Clip

- For cable or conduit diameters from 5 to 44 mm
- The KX is used on M6 threaded rods (or 4, 6, 8 mm steel sheets)
- EPZ corrosion protection

#### 4Z34 Clip

- 2 thread impression holes
- 6.5 mm clearance hole
- EPZ corrosion protection
- Can be used in combination with HSC snap clips

#### 4Z34-RBMX Clip

- Same general characteristics as the 4Z/6Z34 clips
- The cables are simply pushed into position

#### 4Z34-M Clip

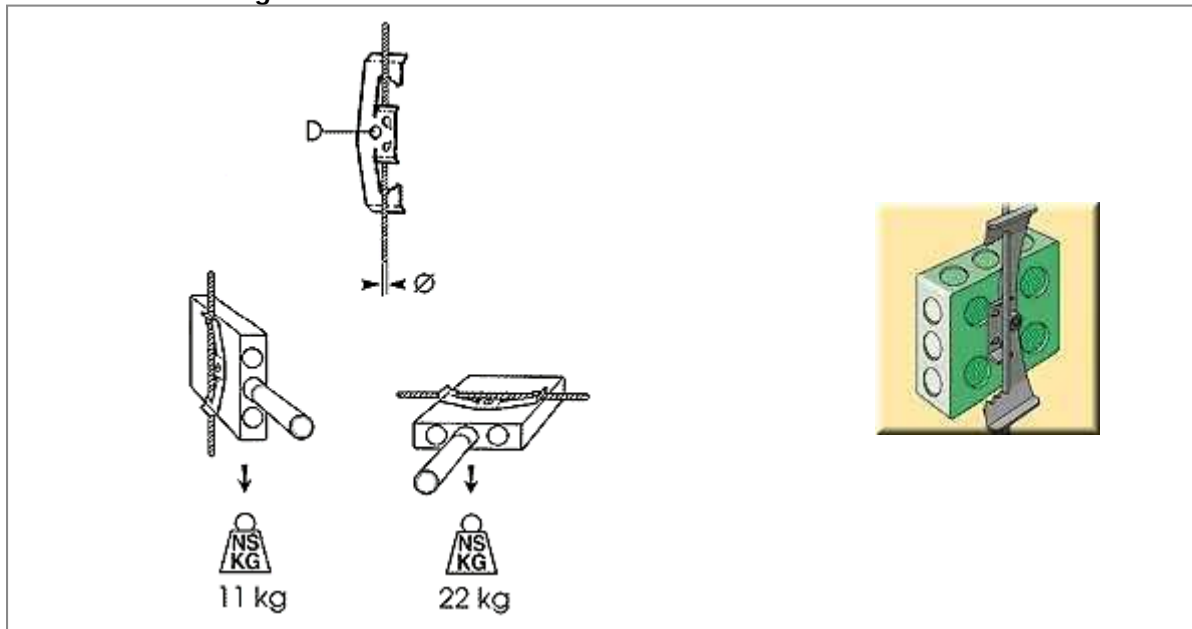
- Same general characteristics as the 4Z/6Z34 clips
- The conduit is locked secure with pliers

#### 4Z34-CTS Clip

- Ideal also for retrofitting
- Easy to install (and to remove) without any tools
- No extra fixings required
- Will fit M6, M8 or M10 threaded rods
- Ideal for communication, low voltage, or security cable installations
- EPZ corrosion protection
- Installation time dramatically reduced

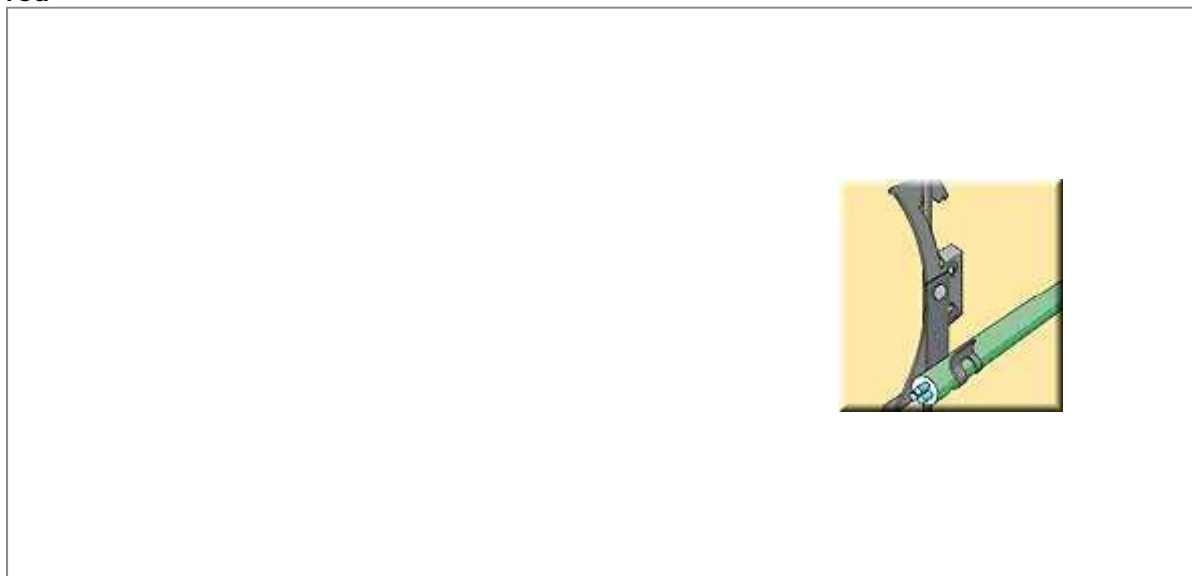
| Description | Part No. | Ø 1 mm | Ø 2 mm | Protection | Pack | Load |
|-------------|----------|--------|--------|------------|------|------|
| KX          | 170870   | 5-10   | 4-8    | 4          | 100  | -    |
| K8          | 170660   | 14-18  | 4-6.5  | 4          | 100  | 22   |
| K12         | 170670   | 19-25  | 4-6.5  | 4          | 100  | 22   |
| K16         | 170680   | 25-32  | 4-6.5  | 4          | 100  | 22   |
| K20         | 170690   | 35-44  | 4-6.5  | 4          | 100  | 22   |

**4Z34 - For attaching electrical services to threaded rod**



| Description | Part No. | Ø M    | D mm | Protection | Pack |
|-------------|----------|--------|------|------------|------|
| CS-094 4Z34 | 170650   | M4-M8  | 6.5  | 4          | 100  |
| 6Z34        | 170720   | M8-M12 | 6.5  | 4          | 100  |

**4Z34-RBMX - For the installation of low voltage security, alarm and data cables to threaded rod**





## CADDY® Flexible Conduit And Cable Hanger

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Erico offers the CADDY WMX series Flexible Conduit and Cable Hangers.

### Features

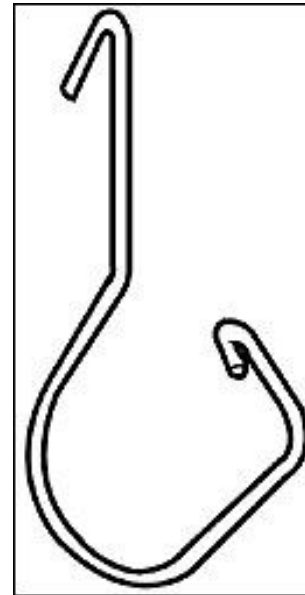
- Bundle runs of MC or AC or communications cables
- Can be used with all flange clips or deck clip DH2 - also AO or AB, VF14, AF14, 122-123

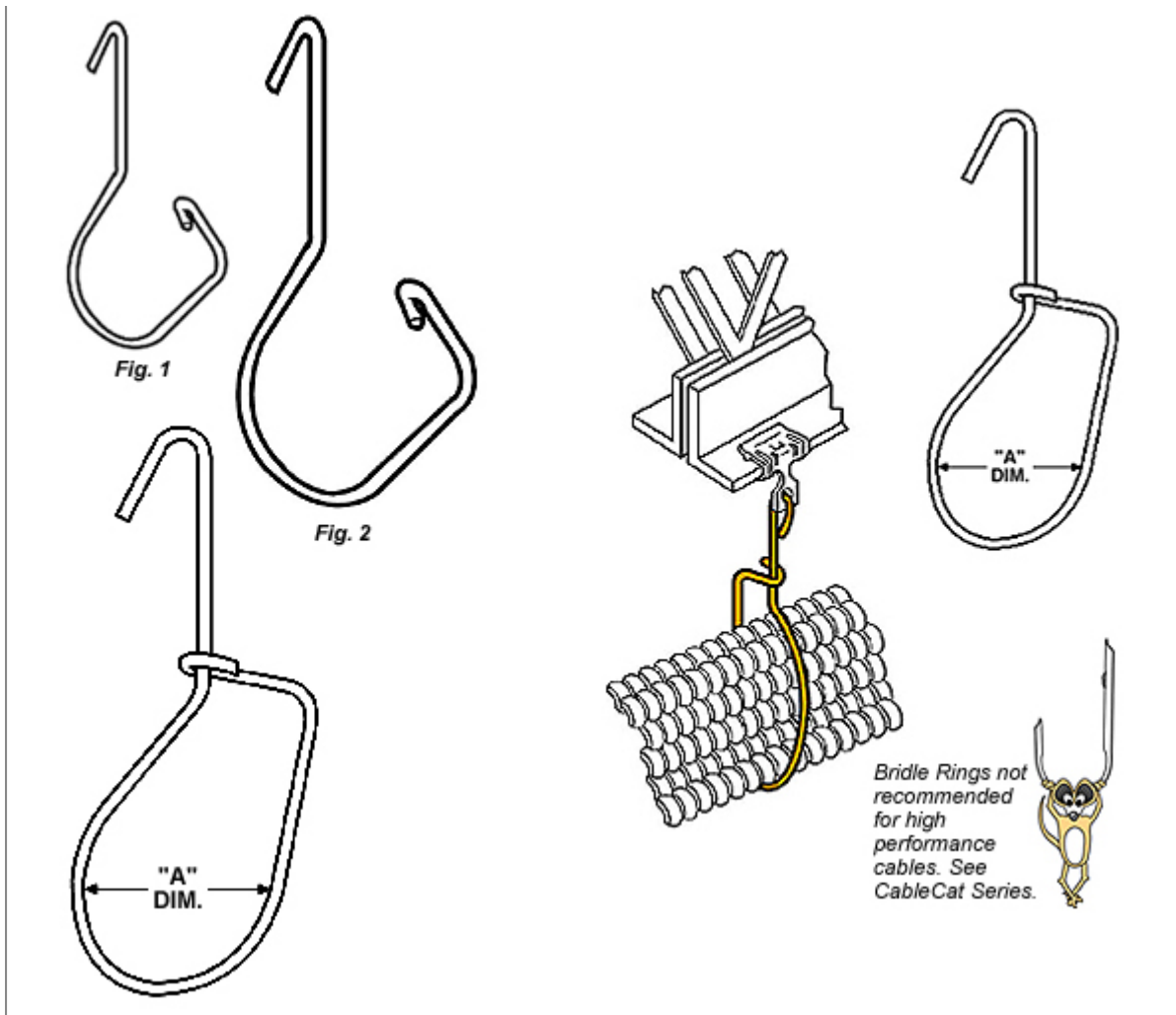
**NOTE:** Refer to local authorities and NEC Article 310 for derating ampacity when flexible power cables are used.

### Applications

The CADDY WMX series Flexible Conduit and Cable Hanger supports bundles from a variety of structures when used with other CADDY fasteners.

### More Information





| Catalog No.    | Fig No. | Number of Runs of MC/AC Cable That May Be Supported | "A" Dimension | Ultimate Static Load Rating | Std Box Qty |
|----------------|---------|---|---------------|-----------------------------|-------------|
| WMX3           | 1       | 3   | 1-1/8"        | 50#                         | 100         |
| CS-095<br>WMX6 | 2       | 6   | 1-3/4"        | 75#                         | 100         |

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## CADDY® Plain, Threaded And Wood Screw Bridle Rings

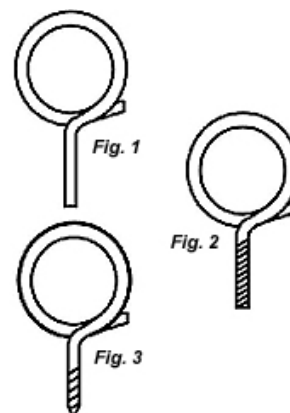


CADDY Plain, Threaded and Wood Screw Bridle Rings for voice communication, signal, and control cable.

### Features

When combined with other CADDY® Fasteners, Bridle Rings can be located on:

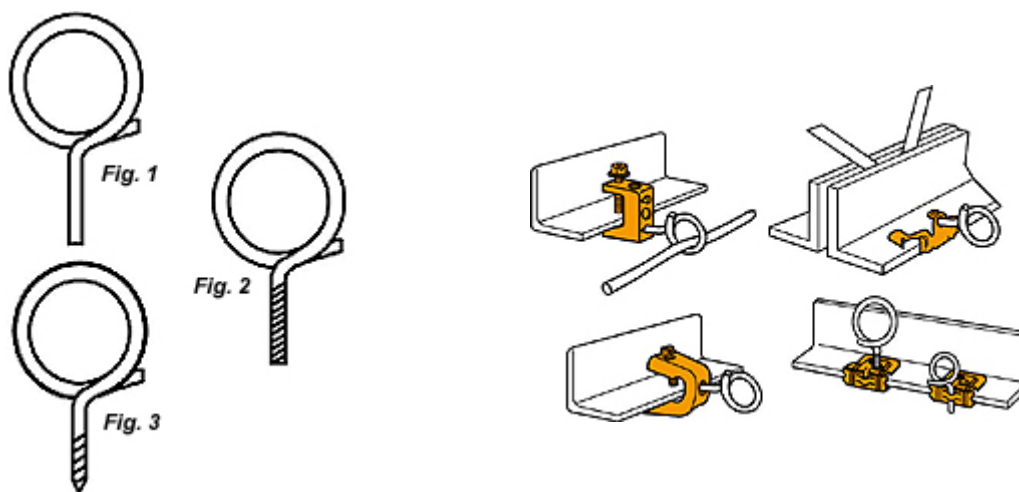
- Beam Flanges up to 3/4" – use with 2FMP28, BC, BC200, or M912
- Drop Wire – use with 4Z34 or 6Z34
- Concrete – use with 4TIB
- "C" Purlins – use with VF144TI
- "Z" Purlins – use with 1224TI or AF144TI
- Acoustical T-Grid – use with ATS4I or ATA4I



### Applications

To support low-speed cable.

### More Information



| Part Number | Fig No. | "A" Dim. | Stock Dia.     | Qty Per Box |
|-------------|---------|----------|----------------|-------------|
| 2BR         | 1       | 1/2"     | #8 wire (.162) | 100         |
| 2BR12       | 1       | 3/4"     | #8 wire (.162) | 100         |



|        |          |   |         |                       |     |
|--------|----------|---|---------|-----------------------|-----|
|        | 2BR20    | 1 | 1-1/4"  | #8 wire (.162)        | 100 |
|        | 2BR32    | 1 | 2"      | #8 wire (.162)        | 100 |
|        | 2BRT8    | 2 | 1/2"    | 10-24 threaded        | 100 |
|        | 2BRT12   | 2 | 3/4"    | 10-24 threaded        | 100 |
|        | 2BRT20   | 2 | 1-1/4"  | 10-24 threaded        | 100 |
| CS-096 | 2BRT32   | 2 | 2"      | 10-24 threaded        | 100 |
|        | 4BRT20   | 2 | 1-1/4 " | 1/4"-20 threaded      | 100 |
|        | 4BRT32   | 2 | 2"      | 1/4"-20 threaded      | 100 |
| CS-097 | 4BRT64   | 2 | 4"      | 1/4"-20 threaded      | 50  |
|        | 4BRT20WS | 3 | 1-1/4"  | #14 wood screw thread | 100 |
|        | 4BRT32WS | 3 | 2"      | #14 wood screw thread | 100 |

*Ultimate static load limit 50 lbs.*

*Bridle Rings not recommended for high performance cables.*

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# CABLE TIE WITH SADDLE MOUNT

## TR SERIES & TRM SADDLE



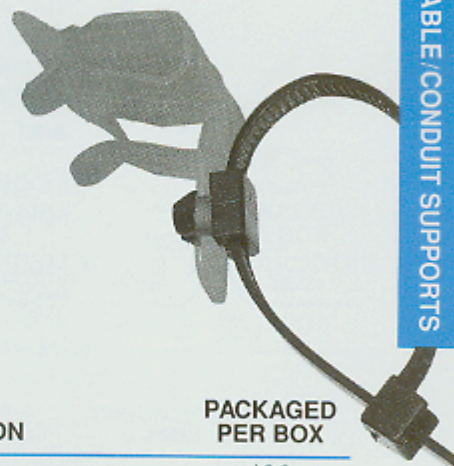
Fig. 2



Fig. 1

### FEATURES

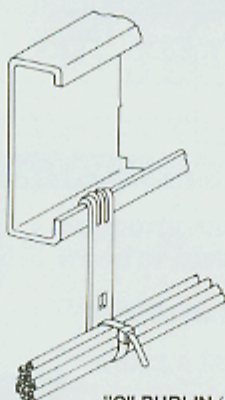
- A fast, neat method of bundling communications cable or low voltage wiring.
- The unique TRM saddle fits the standard hole (9/32") in many CADDY® Fasteners allowing you to place a cable tie anywhere on main and substructures.
- Manufactured from ultraviolet-resistant black nylon.
- Ties are self locking for fast installation.
- Check out the versatility of CADDY tie wraps and saddle.



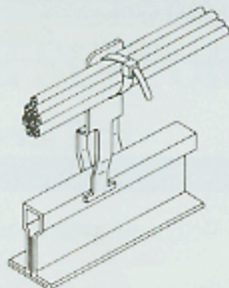
CABLE/CONDUIT SUPPORTS

### SIZING CHART

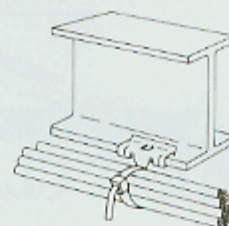
| CATALOG NUMBER | AT&T COM CODE NO. | FIG. NO. | DESCRIPTION                    | PACKAGED PER BOX |
|----------------|-------------------|----------|--------------------------------|------------------|
| TR4            |                   | 1        | Bundle Dia. 7/8"               | 100              |
| TR7            |                   | 1        | Bundle Dia. 1-3/4"             | 100              |
| TR14           |                   | 1        | Bundle Dia. 4"                 | 100              |
| CS-098         |                   | 2        | Tie Wrap Mount Fits 9/32" Hole | 100              |



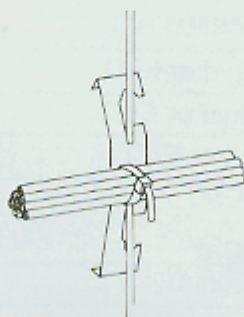
"C" PURLIN (see page 21)



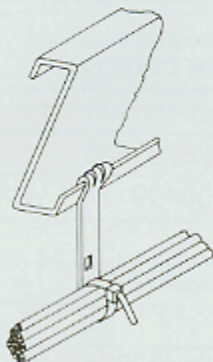
ACOUSTICAL Tee (see page 13)



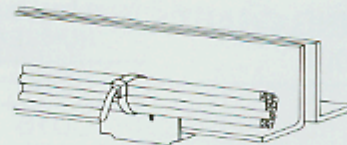
I Beam (see page 7)



DROP WIRE (see page 12)



"Z" PURLIN (see page 21)



Flange (see page 10)



## CADDY® CABLECAT Base Components

---



CADDY® CABLECAT has a number of base components.

### Features

#### CABLECAT 32 and 21

- Specifically designed for high-performance data cables
- Wide base and smooth edges provide proper support and allow flexible installation with maximum bend radius and minimized pressure for cables



#### CABLECAT 12

- Smaller than CABLECAT 31 and 21
- Complies with the new 1997 TIA 569-A standard which allows for attachment to ceiling suspension wire and T-bar
- Ideal choice for smaller runs of cables
- Patent pending

#### CABLECAT 425

- Can adjust to a 100mm or 150mm loop
- Simple locking and unlocking feature allows for the addition of cables
- Cables can be pulled through easily
- Also suitable for air handling spaces (Plenum rated)

### Applications

For high-performance Category 5 cables.

### More Information



CABLECAT 12



CABLECAT 21 & 32



CABLECAT 425

| Description  | Part No. | Loop Ø mm | Protection | Pack | UL-tested Load |
|--------------|----------|-----------|------------|------|----------------|
| CAT12        | 181100   | 19        | 1          | 100  | 22kg           |
| CS-099 CAT21 | 181110   | 33        | 1          | 75   | 22kg           |
| CS-100 CAT32 | 181120   | 50        | 1          | 50   | 22kg           |
| CAT425       | 181130   | 100/150   | 1          | 20   | 45kg           |

### Fill Rate

| Cable Type | Pair | AWG | Cable meas. max. | CAT 12     | CAT 21     | CAT 32     | CAT 425      |
|------------|------|-----|------------------|------------|------------|------------|--------------|
| UTP        | 4    | 24  | 5 mm dia.        | 16 -> 1    | 50 -> 2.75 | 80 -> 4.5  | 425 -> 22.75 |
| FTP        | 4    | 24  | 6 mm dia.        | 11 -> 0.75 | 35 -> 2.25 | 55 -> 3.5  | 300 -> 18.25 |
| SFTP       | 4    | 24  | 6 mm dia.        | 11 -> 1.25 | 35 -> 4    | 55 -> 6    | 300 -> 32    |
| SFTP       | 4    | 23  | 7 mm dia.        | 8 -> 1     | 25 -> 3    | 40 -> 4.75 | 225 -> 25.25 |
| F/STP      | 4    | 23  | 8.5 mm dia.      | 5 -> 0.75  | 17 -> 2.25 | 27 -> 3.5  | 150 -> 18.25 |
| S/STP      | 4    | 23  | 8.5 mm dia.      | 5 -> 0.75  | 17 -> 2.5  | 27 -> 4    | 150 -> 20.5  |

### CABLECAT Installation



**Step 1**  
Attach to structure



**Step 2**  
Position flexible support around cables



**Step 3**  
Insert bar into locking tabs

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# Cable Support System

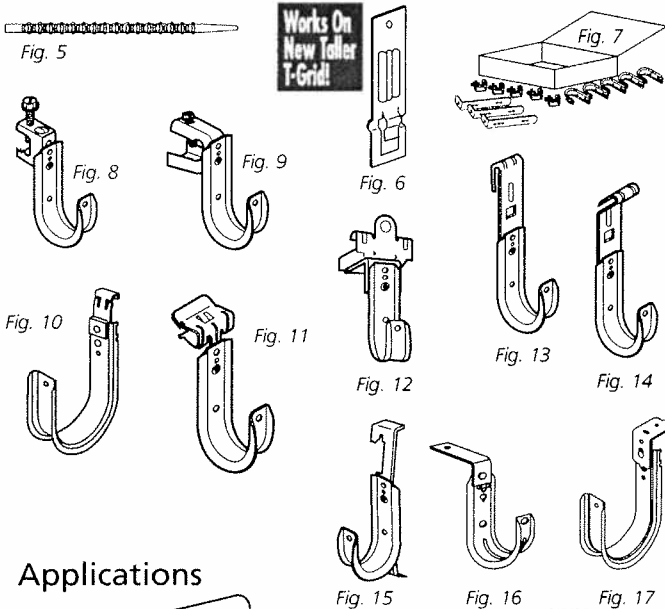
## CADDY® CABLECAT® Wide Base Cable Support

PATENT # 5,740,994

New Angle Brackets  
for Greater Field  
Assembly Options  
Up to 300 Lb. Loads

### Features

- Provides proper support of Category 5, Category 6, fiber optic and innerduct.
- Many sizes and designs available to attach to a variety of structures.
- Cost effective alternative to expensive cable tray.
- Galvanized finish on J-hooks provide smoother cable pull and greater corrosion resistance.
- Complies with UL, cUL, NEC and EIA/TIA requirements for structured cabling systems.



## CADDY® CABLECAT® Wide Base Cable Support

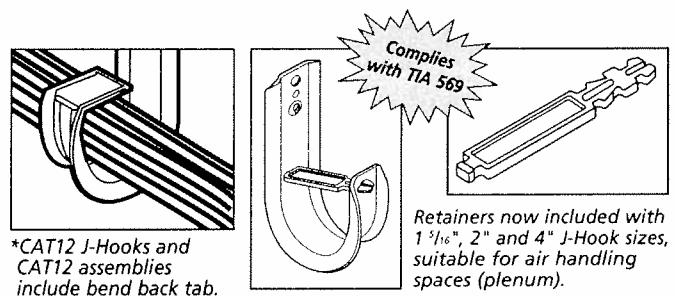
| PART NUMBER | FIG. NO. | DESCRIPTION  | QTY. PER BOX |
|-------------|----------|--|--------------|
| CAT12*      | 1        | Up to 16 4-pair UTP CAT5/5e or 2-strand fiber optic cable, or 10 CAT6 - 3/4" dia. loop                       | 50           |
| CAT21†      | 1        | Up to 50 4-pair UTP CAT5/5e or 2-strand fiber optic cable or innerduct, or 32 CAT6 - 1 1/16" dia. loop       | 80           |
| CAT32†      | 1        | Up to 80 4-pair UTP CAT5/5e or 2-strand fiber optic cable or innerduct, or 50 CAT6 - 2" dia. loop            | 60           |
| CAT64       | 1        | Up to 300 4-pair UTP CAT5/5e or 2-strand fiber optic cable, or 185 CAT6 - 4" dia. loop (100 lb. static load) | 25           |
| CATHBA      | 2        | Extended J-Hook angle bracket - 1/4" mounting hole   | 40           |
| CATHBA3     | 2        | Extended J-Hook angle bracket - 3/16" mounting hole  | 40           |
| CATHBA6     | 2        | Extended J-Hook angle bracket - 1/8" mounting hole   | 40           |
| CATHBA8     | 2        | Extended J-Hook angle bracket - 1/2" mounting hole   | 40           |
| S3575BP100  | 3        | 1/4 - 20 x 3/8" round head screw   | 100          |
| S3575DP100  | 3        | 1/4 - 20 x 1/2" round head screw   | 100          |
| AFAB3       | 4        | 3/16" mounting hole (includes 1/4" - 20 x 3/8" round head screw)   | 50           |
| AFAB4       | 4        | 1/4" mounting hole (includes 1/4 - 20 x 3/8" round head screw)   | 50           |
| AFAB6       | 4        | 3/8" mounting hole (includes 1/4 - 20 x 3/8" round head screw)   | 50           |
| CATMTP      | 5        | Mille-Tie™ for air handling spaces (plenum)  | 100          |
| CATTS*      | 6        | Support from tee grid  | 100          |

### Kits For Beam Applications (Field Assemblies)

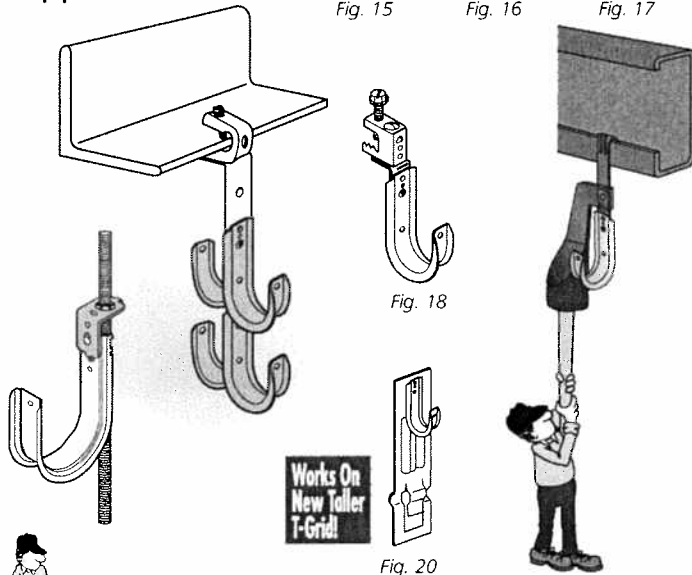
|         |  |  |  |       |
|---------|--|--|--|-------|
| CATKITA | 7 CAT32 - 20 pieces / CATHBA Hanger - 5 pieces | BC200 Beam Clamps - 5 pieces                   | 1 Kit  |       |
| CATKITB | 7 CAT21 - 10 pieces / CAT32 - 10 pieces        | CATHBA Hanger - 5 pieces                       | BC200 Beam Clamps - 5 pieces (screws included) | 1 Kit |
| CATKITC | 7 CAT21 - 20 pieces / CATHBA Hanger - 5 pieces | BC200 Beam Clamps - 5 pieces (screws included) | 1 Kit  |       |

† Available in stainless steel

™ Mille-Tie is a trademark of Millepede International Ltd.



### Applications





## CADDY® CABLECAT - Wide Base Cable Support

---



ERICO offers the CADDY CABLECAT- Wide Base Cable Support as a non-continuous pathway for high-speed communication cables based on the properties of the cables.



### Features

- Cost-effective alternative to expensive cable tray
- Multiple tree configurations possible
- Galvanized finish on J-hooks provide smoother cable pull and greater corrosion resistance

### Applications

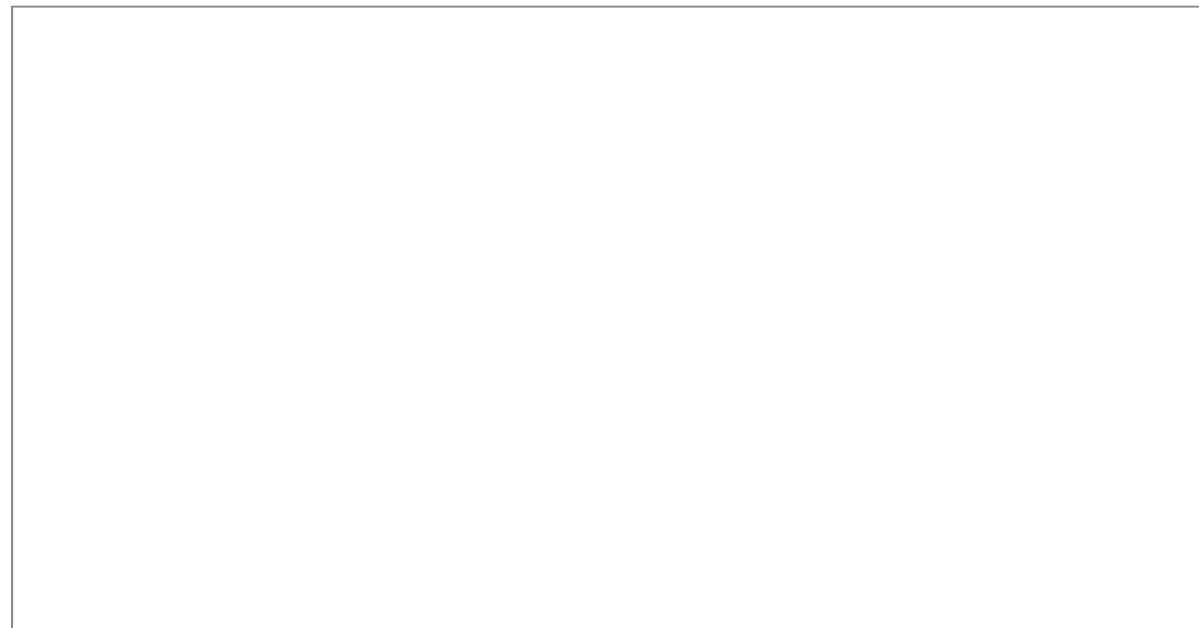
- Provides proper support of high-speed copper or fiber optic cable and innerduct
- Variety of sizes and designs available to attach to virtually any structure or sub-structure

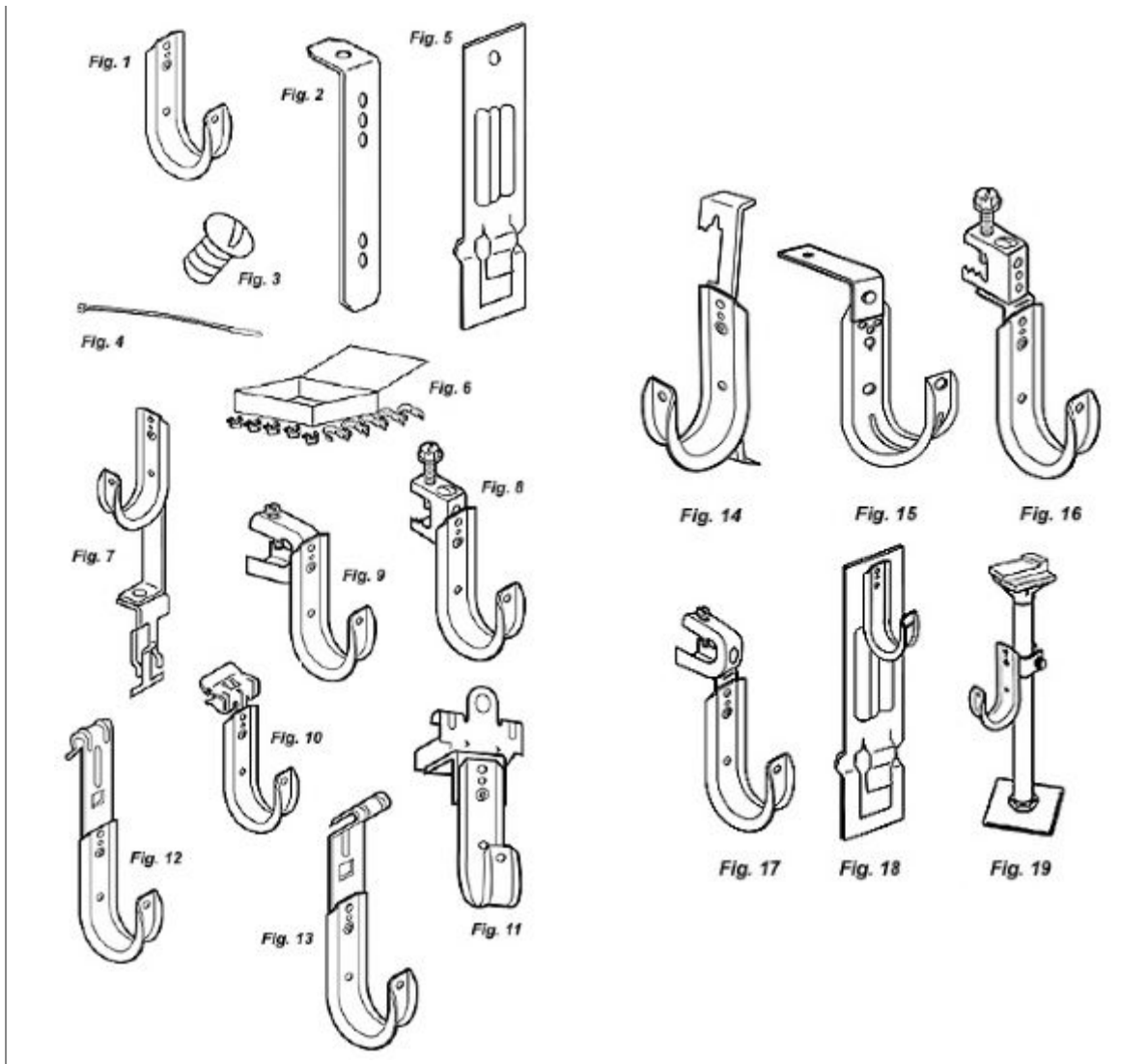
### More Information

Details by Region: [North and Latin America](#)

#### North and Latin America

- Complies with UL, cUL, NEC and EIA/TIA requirements for structured cabling systems
- Provides proper support of Category 5e, Category 6, fiber optic and innerduct





| Catalog No.  | Fig No. | Description   | Std Box Qty |
|--|---------|---|-------------|
| <b>Pre-Riveted Factory Assemblies For 3/4" Diameter Loop</b> |         |   |             |
| CAT12BC  | 8       | Screw-on 1/8" thru 1/2" flange                              | 40          |
| CAT12BC200   | 9       | Screw-on 1/8" thru 5/8" flange                              | 40          |
| CAT1224SM  | 10      | Hammer-on 1/8" thru 1/4" flange                             | 40          |
| CAT1258SM  | 10      | Hammer-on 5/16" thru 1/2" flange                            | 40          |
| CAT12912SM   | 10      | Hammer-on 1/2" thru 3/4" flange                             | 40          |
| CAT1224  | 11      | Hammer-on 1/8" thru 1/4" flange – bottom mount rotates 360° | 40          |
| CAT1258  | 11      | Hammer-on 5/8" thru 1/2" flange – bottom mount rotates 360° | 40          |
| CAT12912   | 11      | Hammer-on 1/2" thru 3/4" flange – bottom mount rotates 360° | 20          |
| CAT12VF14  | 12      | 1/16" thru 1/4" vertical flange                             | 40          |
| CAT12AF14  | 13      | 1/6" thru 1/4" Z purlin                                     | 40          |

|             |    |   |    |
|-------------|----|---|----|
| CAT124Z34   | 14 | #12 thru 1/4" wire, plain or threaded rod and 1/8" thru 3/8" flange | 60 |
| CAT126Z34   | 14 | 3/8" plain or threaded rod and 3/8" thru 9/16" flange               | 60 |
| CAT12CPNA   | 15 | Longer leg Angle bracket  | 50 |
| CAT12AB     | 15 | Angle bracket   | 80 |
| CAT12BCB    | 16 | Screw-on 1/8" thru 1/2" flange–rotates 360°                         | 40 |
| CAT12BC200B | 17 | Screw-on 1/8" thru 5/8" flange–rotates 360°                         | 40 |
| CAT12TS     | 18 | Acoustical tee bar  | 60 |
| CAT12CD1B   | 19 | Under floor support to pedestal                                     | 20 |

| Catalog No.   | Fig No. | Description   | Std Box Qty |
|---|---------|---|-------------|
| <b>Pre-Riveted Factory Assemblies For 1-5/16" Diameter Loop</b> |         |   |             |
| CAT21528  | 7       | Cable to acoustical tee bar   | 20          |
| CAT21BC   | 8       | Screw-on 1/8" thru 1/2" flange                                      | 40          |
| CS-102 CAT21BC200   | 9       | Screw-on 1/8" thru 5/8" flange                                      | 40          |
| CAT2124SM   | 10      | Hammer-on 1/8" thru 1/4" flange                                     | 40          |
| CAT2158SM   | 10      | Hammer-on 5/16" thru 1/2" flange                                    | 40          |
| CAT21912SM  | 10      | Hammer-on 1/2" thru 3/4" flange                                     | 40          |
| CAT2124   | 11      | Hammer-on 1/8" thru 1/4" flange – rotates 360°                      | 40          |
| CAT2158   | 11      | Hammer-on 5/16" thru 1/2" flange – rotates 360°                     | 40          |
| CAT21912  | 11      | Hammer-on 1/2" thru 3/4" flange – rotates 360°                      | 20          |
| CAT21VF14   | 12      | 1/16" thru 1/4" vertical flange                                     | 40          |
| CAT21AF14   | 13      | 1/6" thru 1/4" Z purlin   | 40          |
| CS-104 CAT214Z34  | 14      | #12 thru 1/4" wire, plain or threaded rod and 1/8" thru 3/8" flange | 60          |
| CAT216Z34   | 14      | 3/8" plain or threaded rod and 3/8" thru 9/16" flange               | 60          |
| CAT21AB   | 15      | Angle bracket   | 40          |
| CAT21CPNA   | 15      | Longer let Angle bracket  | 50          |
| CAT21BCB  | 16      | Screw-on 1/8" thru 1/2" flange–rotates 360°                         | 40          |
| CAT21BC200B   | 17      | Screw-on 1/8" thru 5/8" flange–rotates 360°                         | 40          |
| CAT21CD1B   | 19      | Under floor support to pedestal                                     | 20          |

| Catalog No.   | Fig No. | Description                      | Std Box Qty |
|---|---------|----------------------------------|-------------|
| <b>*Pre-Riveted Factory Assemblies For 2" Diameter Loop</b> |         |                                  |             |
| CAT32528  | 7       | Cable to acoustical tee bar      | 20          |
| CAT32BC   | 8       | Screw-on 1/8" thru 1/2" flange   | 40          |
| CS-103 CAT32BC200   | 9       | Screw-on 1/8" thru 5/8" flange   | 20          |
| CAT3224SM   | 10      | Hammer-on 1/8" thru 1/4" flange  | 40          |
| CAT3258SM   | 10      | Hammer-on 5/16" thru 1/2" flange | 40          |
|   |         |                                  |             |



|                  |    |   |    |
|------------------|----|---|----|
| CAT32912SM       | 10 | Hammer-on 1/2" thru 3/4" flange                                     | 40 |
| CAT3224          | 11 | Hammer-on 1/8" thru 1/4" flange – rotates 360°                      | 40 |
| CAT3258          | 11 | Hammer-on 5/16" thru 1/2" flange – rotates 360°                     | 20 |
| CAT32912         | 11 | Hammer-on 1/2" thru 3/4" flange – rotates 360°                      | 20 |
| CAT32VF14        | 12 | 1/16" thru 1/4" vertical flange                                     | 40 |
| CA32AF14         | 13 | 1/6" thru 1/4" Z purlin   | 40 |
| CS-105 CAT324Z34 | 14 | #12 thru 1/4" wire, plain or threaded rod and 1/8" thru 3/8" flange | 40 |
| CAT326Z34        | 14 | 3/8" plain or threaded rod and 3/8" thru 9/16" flange               | 40 |
| CAT32AB          | 15 | Angle bracket   | 40 |
| CAT32CPNA        | 15 | Longer leg Angle bracket  | 50 |
| CAT32BCB         | 16 | Screw-on 1/8" thru 1/2" flange – rotates 360°                       | 20 |
| CAT32BC200B      | 17 | Screw-on 1/8" thru 5/8" flange – rotates 360°                       | 20 |
| CAT32CD1B        | 19 | Under floor support to pedestal                                     | 20 |

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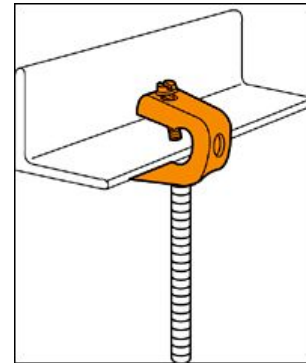
## CADDY® BC200 Series Beam Clamps



ERICO offers BC200 Series Beam Clamps.

### Features

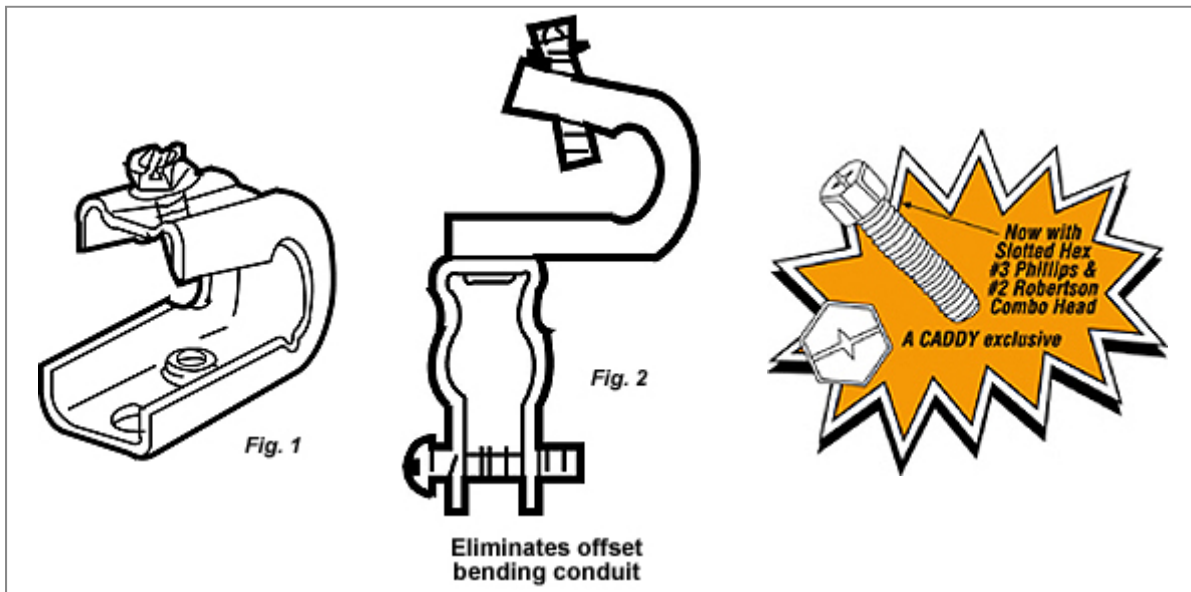
- Easy installation for beam flanges 1/8" to 5/8"
- Supports 1/4" threaded rod, 1/4" threaded bridle rings and boxes
- Available riveted to conduit clips 1/2" thru 2"
- Bright zinc finish
- Threaded hole on back and bottom



### Applications

CADDY BC200 series beam clamps fit flanges up to 5/8" and accept 1/4"-20 threaded components. Available pre-riveted to conduit/pipe hangers up to 2".

### More Information



| Catalog No. | Fig No. | Rigid | EMT  | Std Box Qty |
|-------------|---------|-------|------|-------------|
| BC200       | 1       | —     | —    | 50          |
| BC200 CD0B  | 2       | 1/2"  | 1/2" | 50          |
| BC200 CD1B  | 2       | 3/4"  | 3/4" | 50          |
| BC200 CD2B  | 2       | 1"    | 1"   | 50          |

CS-106

|              |   |        |        |    |
|--------------|---|--------|--------|----|
| BC200 CD2.5B | 2 | —      | 1-1/4" | 50 |
| BC200 CD3B   | 2 | 1-1/4" | 1-1/2" | 50 |
| BC200 CD4B   | 2 | 1-1/2" | —      | 25 |
| BC200 CD5B   | 2 | 2"     | 2"     | 25 |

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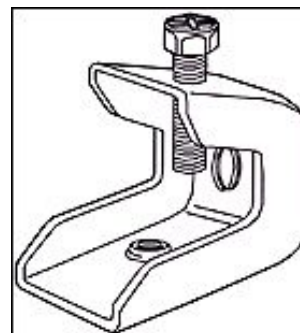
## CADDY® BC400 Series Big Beam Clamps



CADDY BC400 beam clamps fit flanges up to 3/4" and accept 3/8"-16 threaded components.

### Features

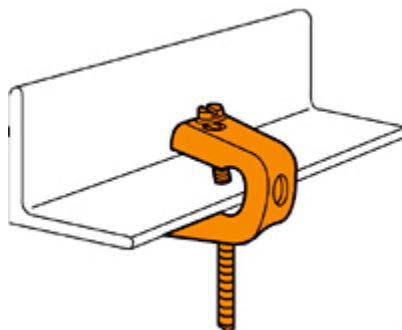
- Threaded holes accommodate 3/8" threaded rod or 3/8" bolt
- Attaches to beam flange up to 3/4"
- Ideal for creating a threaded rod trapeze
- Bright zinc finish



### Applications

Ideal for electrical, mechanical and HVAC applications.

### More Information



| Catalog No. | Description  | Std Box Qty |
|-------------|--|-------------|
| BC400       | For 3/8" threaded rod or 3/8" - 16 bolts to beam flange through 3/4" | 25          |

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# TYPE 1 ENCLOSURES



|                                     |    |
|-------------------------------------|----|
| Screw Cover Enclosures.....         | 48 |
| Small Panel Enclosures.....         | 52 |
| Medium Panel Enclosures.....        | 54 |
| Large Panel Enclosures.....         | 56 |
| Hinge Cover Enclosures.....         | 58 |
| Telephone Termination Cabinets..... | 60 |
| Spare Fuse Cabinets.....            | 63 |

# Type 1 Screw Cover Enclosures - Painted & Galvanized

## Data Sheet

Type 1 Enclosures



### Construction

- Enclosure and cover are fabricated from code gauge steel or galvanized steel, (see table)
- Enclosure body has mounting holes on the back
- Enclosures are available with or without knockouts on the sides, top and bottom ends
- Cover is secured to the body with plated screws
- Keyhole slots provided in the cover allow easy access to the inside without removing the screws
- #10-32 tapped hole provision for optional ground lug kit

### Finish

- Wash and phosphate undercoat or galvanized steel
- ANSI 61 gray acrylic electrocoat finish

### Standards

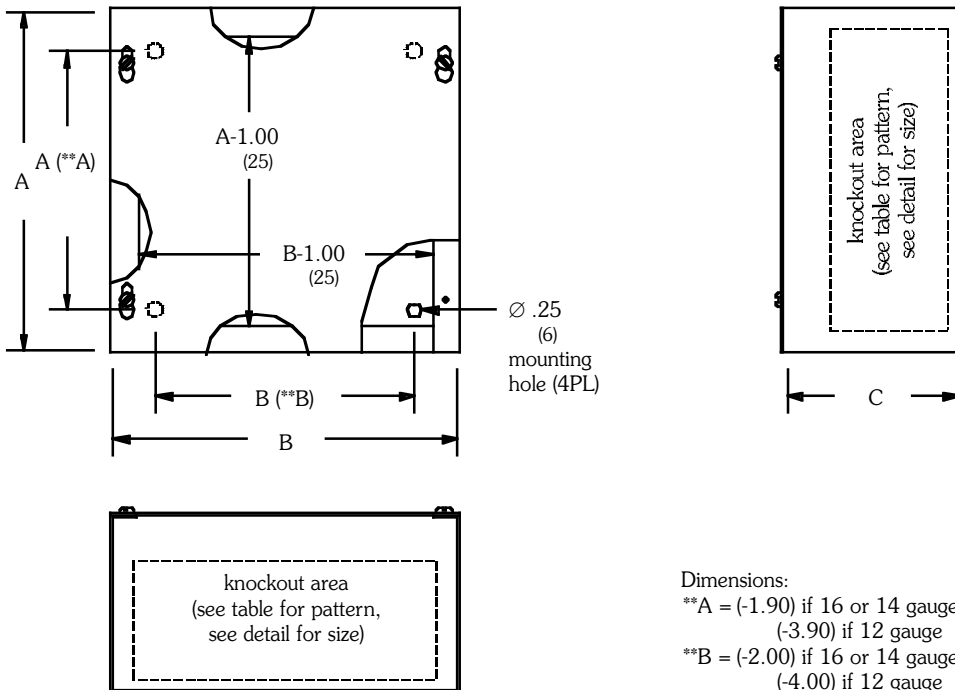
- UL 50 listed, Type 1
- CSA C22.2 No. 40 certified, Type 1
- Conforms to NEMA standard for Type 1
- IEC 60529, IP30

### Accessories

- Ground lug kit
- Touch-up paint
- See Accessories section

### Application

- Used as wiring boxes, junction and pull boxes
- Protects against contact with enclosed equipment



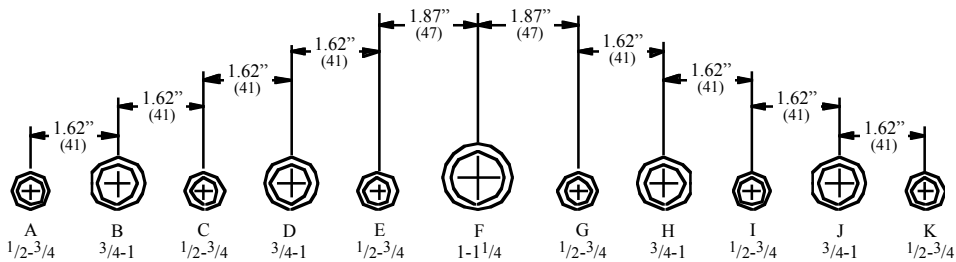
Dimensions:  
 \*\*A = (-1.90) if 16 or 14 gauge  
 (-3.90) if 12 gauge  
 \*\*B = (-2.00) if 16 or 14 gauge  
 (-4.00) if 12 gauge

# Type 1 Screw Cover Enclosures - Painted & Galvanized

## Catalog Number

CS-108  
Type 1  
CS-109  
CS-111  
CS-110

|        | Enclosure Catalog Number |             |            |               | Enclosure Size         |               | Gauge | Knockout Pattern | Knockout Pattern |
|--------|--------------------------|-------------|------------|---------------|------------------------|---------------|-------|------------------|------------------|
|        | Painted                  |             | Galvanized |               | Height x Width x Depth |               |       |                  |                  |
|        | KO                       | No KO       | KO         | No KO         | in.                    | mm            |       |                  |                  |
| CS-108 | 666 SC                   | 666 SC NK   | 666 SCGV   | 666 SCGV NK   | 6.00x6.00x6.00         | 152x152x152   | 16    | CDE              | CDE              |
|        | 866 SC                   | 866 SC NK   | 866 SCGV   | 866 SCGV NK   | 8.00x6.00x6.00         | 203x152x152   | 16    | GHIJ             | CDE              |
|        | 886 SC                   | 886 SC NK   | 886 SCGV   | 886 SCGV NK   | 8.00x8.00x6.00         | 203x203x152   | 16    | GHIJ             | GHIJ             |
|        | 1086 SC                  | 1086 SC NK  | 1086 SCGV  | 1086 SCGV NK  | 10.00x8.00x6.00        | 254x203x152   | 16    | DEFGH            | GHIJ             |
|        | 10106 SC                 | 10106 SC NK | 10106 SCGV | 10106 SCGV NK | 10.00x10.00x6.00       | 254x254x152   | 16    | DEFGH            | DEFGH            |
|        | 1266 SC                  | 1266 SC NK  | 1266 SCGV  | 1266 SCGV NK  | 12.00x6.00x6.00        | 305x152x152   | 16    | DEFGH            | CDE              |
|        | 1286 SC                  | 1286 SC NK  | 1286 SCGV  | 1286 SCGV NK  | 12.00x8.00x6.00        | 305x203x152   | 16    | DEFGH            | GHIJ             |
|        | 12106 SC                 | 12106 SC NK | 12106 SCGV | 12106 SCGV NK | 12.00x10.00x6.00       | 305x254x152   | 16    | DEFGH            | DEFGH            |
| CS-109 | 12126 SC                 | 12126 SC NK | 12126 SCGV | 12126 SCGV NK | 12.00x12.00x6.00       | 305x305x152   | 16    | DEFGH            | DEFGH            |
|        | 15126 SC                 | 15126 SC NK | 15126 SCGV | 15126 SCGV NK | 15.00x12.00x6.00       | 381x305x152   | 16    | CDEFGHI          | DEFGH            |
|        | 15156 SC                 | 15156 SC NK | 15156 SCGV | 15156 SCGV NK | 15.00x15.00x6.00       | 381x381x152   | 16    | CDEFGHI          | CDEFGHI          |
|        | 16126 SC                 | 16126 SC NK | 16126 SCGV | 16126 SCGV NK | 16.00x12.00x6.00       | 406x305x152   | 16    | CDEFGHI          | DEFGH            |
|        | 16166 SC                 | 16166 SC NK | 16166 SCGV | 16166 SCGV NK | 16.00x16.00x6.00       | 406x406x152   | 16    | CDEFGHI          | BCDEFGHIJ        |
|        | 18126 SC                 | 18126 SC NK | 18126 SCGV | 18126 SCGV NK | 18.00x12.00x6.00       | 457x305x152   | 16    | BCDEFGHIJ        | DEFGH            |
|        | 18156 SC                 | 18156 SC NK | 18156 SCGV | 18156 SCGV NK | 18.00x15.00x6.00       | 457x381x152   | 16    | BCDEFGHIJ        | CDEFGHI          |
|        | 18186 SC                 | 18186 SC NK | 18186 SCGV | 18186 SCGV NK | 18.00x18.00x6.00       | 457x457x152   | 16    | BCDEFGHIJ        | BCDEFGHIJ        |
|        | 24126 SC                 | 24126 SC NK | 24126 SCGV | 24126 SCGV NK | 24.00x12.00x6.00       | 610x305x152   | 16    | BCDEFGHIJ        | DEFGH            |
|        | 24186 SC                 | 24186 SC NK | 24186 SCGV | 24186 SCGV NK | 24.00x18.00x6.00       | 610x457x152   | 16    | BCDEFGHIJ        | BCDEFGHIJ        |
|        | 24246 SC                 | 24246 SC NK | 24246 SCGV | 24246 SCGV NK | 24.00x24.00x6.00       | 610x610x152   | 14    | BCDEFGHIJ        | BCDEFGHIJ        |
|        | 30186 SC                 | 30186 SC NK | 30186 SCGV | 30186 SCGV NK | 30.00x18.00x6.00       | 762x457x152   | 16    | BCDEFGHIJ        | BCDEFGHIJ        |
|        | 30246 SC                 | 30246 SC NK | 30246 SCGV | 30246 SCGV NK | 30.00x24.00x6.00       | 762x610x152   | 14    | BCDEFGHIJ        | BCDEFGHIJ        |
|        | -                        | 30306 SC NK | -          | 30306 SCGV NK | 30.00x30.00x6.00       | 762x762x152   | 12    | -                | -                |
| CS-111 | 36246 SC                 | 36246 SC NK | 36246 SCGV | 36246 SCGV NK | 36.00x24.00x6.00       | 914x310x152   | 14    | BCDEFGHIJ        | BCDEFGHIJ        |
|        | -                        | 36306 SC NK | -          | 36306 SCGV NK | 36.00x30.00x6.00       | 914x762x152   | 12    | -                | -                |
|        | -                        | 36366 SC NK | -          | 36366 SCGV NK | 36.00x36.00x6.00       | 914x914x152   | 12    | -                | -                |
|        | -                        | 48366 SC NK | -          | 48366 SCGV NK | 48.00x36.00x6.00       | 1219x914x152  | 12    | -                | -                |
|        | -                        | 48486 SC NK | -          | 48486 SCGV NK | 48.00x48.00x6.00       | 1219x1219x152 | 12    | -                | -                |
|        | 888 SC                   | 888 SC NK   | 888 SCGV   | 888 SCGV NK   | 8.00x8.00x8.00         | 203x203x203   | 16    | GHIJ             | GHIJ             |
| CS-110 | 12128 SC                 | 12128 SC NK | 12128 SCGV | 12128 SCGV NK | 12.00x12.00x8.00       | 305x305x203   | 16    | DEFGH            | DEFGH            |
|        | 16128 SC                 | 16128 SC NK | 16128 SCGV | 16128 SCGV NK | 16.00x12.00x8.00       | 406x305x203   | 16    | CDEFGHI          | DEFGH            |
|        | 18128 SC                 | 18128 SC NK | 18128 SCGV | 18128 SCGV NK | 18.00x12.00x8.00       | 457x305x203   | 16    | BCDEFGHIJ        | DEFGH            |
|        | 18188 SC                 | 18188 SC NK | 18188 SCGV | 18188 SCGV NK | 18.00x18.00x8.00       | 457x457x203   | 16    | BCDEFGHIJ        | BCDEFGHIJ        |
|        | 24128 SC                 | 24128 SC NK | 24128 SCGV | 24128 SCGV NK | 24.00x12.00x8.00       | 610x305x203   | 16    | BCDEFGHIJ        | DEFGH            |
|        | 24188 SC                 | 24188 SC NK | 24188 SCGV | 24188 SCGV NK | 24.00x18.00x8.00       | 610x457x203   | 16    | BCDEFGHIJ        | BCDEFGHIJ        |
|        | 24248 SC                 | 24248 SC NK | 24248 SCGV | 24248 SCGV NK | 24.00x24.00x8.00       | 610x610x203   | 14    | BCDEFGHIJ        | BCDEFGHIJ        |
|        | 30248 SC                 | 30248 SC NK | 30248 SCGV | 30248 SCGV NK | 30.00x24.00x8.00       | 762x610x203   | 14    | BCDEFGHIJ        | BCDEFGHIJ        |
|        | -                        | 30308 SC NK | -          | 30308 SCGV NK | 30.00x30.00x8.00       | 762x762x203   | 12    | -                | -                |
|        | 36248 SC                 | 36248 SC NK | 36248 SCGV | 36248 SCGV NK | 36.00x24.00x8.00       | 914x610x203   | 14    | BCDEFGHIJ        | BCDEFGHIJ        |



Conduit Sizes

### Knockout Detail

Note: See table for applicable knockout pattern.

Notes: Dimensions are in inches. Millimeters shown are for reference only. Data subject to change without notice.

**SECTION 1****SECTION 2****SECTION 3****SECTION 4****SECTION 5****SECTION 6****SECTION 7**

E-MAIL TECH SUPPORT

ORDER A CATALOG

ALPHABETICAL INDEX

NUMERIC INDEX

# CABLE RUNWAY PRODUCTS



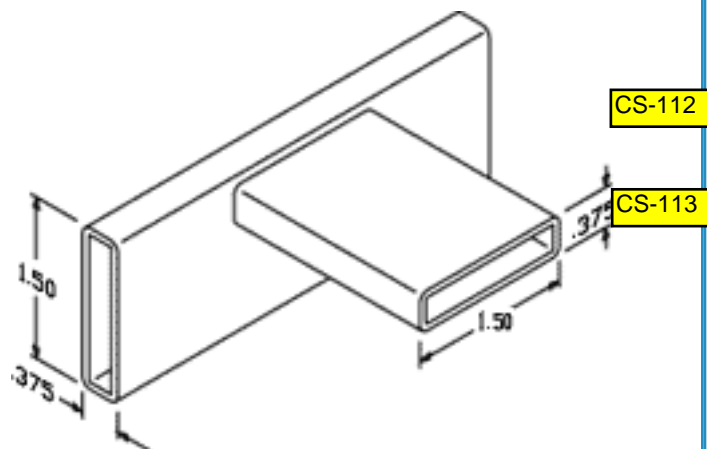
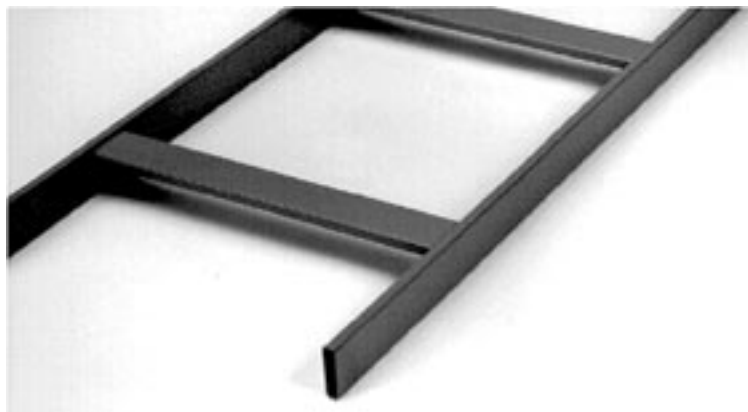
## Runway In A Box

Cable runway is individually packaged to simplify shipping. Individual packaging is utilized for all 10250 Series Universal Cable Runway, 11252 Series TELCO-Style Cable Runway, and 11275 Series U.L. Classified Cable Runway. Individual pieces of runway are packaged in a custom width box of 32 ECT cardboard and banded on our strapping machine. Each box is labeled with the part number and product description indicating color and width. Pallets are designed to support the full length and width of multiple quantities of runway. Runway is neatly stacked in two or three columns, fully stretch-wrapped and banded to the pallet to eliminate movement during shipping.

## Universal Cable Runway

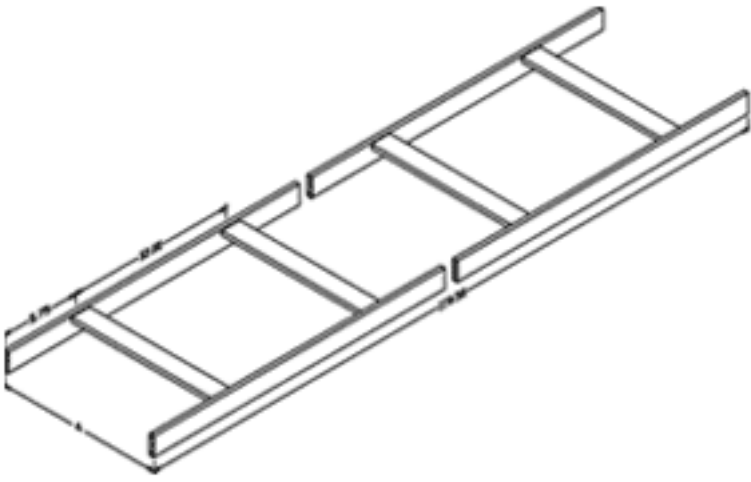
Our most popular cable runway is designed for value conscious customers. This basic Cable Runway offers the industry standard features you've come to expect. With the runway supported every five feet, maximum load with minimal deflection is 135 lb/ft.

- Made of 3/8" x 1-1/2" x .065" wall rectangular steel tubing
- Cross members welded at 12" intervals
- Individually boxed to prevent scratches and damage
- Standard length is 9' 11-1/2"



| PART NUMBER GRAY | PART NUMBER WHITE | PART NUMBER BLACK | WIDTH (DIM. A) | SHIPPING WEIGHT |
|------------------|-------------------|-------------------|----------------|-----------------|
| 10250-104        | 10250-204         | 10250-704         | 4"             | 18 lb           |
| 10250-106        | 10250-206         | 10250-706         | 6"             | 19 lb           |
| 10250-109        | 10250-209         | 10250-709         | 9"             | 20 lb           |
| 10250-112        | 10250-212         | 10250-712         | 12"            | 25 lb           |
| 10250-115        | 10250-215         | 10250-715         | 15"            | 27 lb           |
| 10250-118        | 10250-218         | 10250-718         | 18"            | 29 lb           |
| 10250-124        | 10250-224         | 10250-724         | 24"            | 32 lb           |





Top

7-3



© Chatsworth Products, Inc.

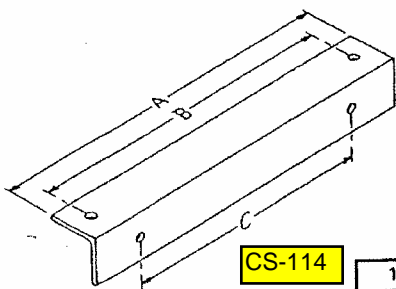
# CABLE RUNWAY SUPPORT PRODUCTS

## Wall Angle Support Kit, Cable Runway

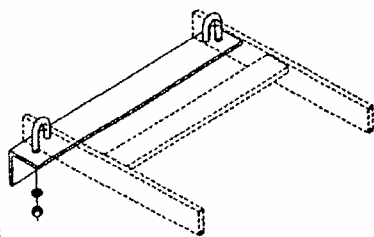
2" x 2" x 3/16" (50 mm x 50 mm x 4.763 mm) steel support angle is cut and drilled for wall-mounting specific widths of Cable Runway.

Kit consists of:

- (1) wall angle
- (2) 5/16-18 x 2 1/4" J-bolts
- (2) 5/16-18 hex nuts
- (2) 5/16 lock washers



CS-114



|       |                        |
|-------|------------------------|
| 11421 | Wall Angle Support Kit |
|-------|------------------------|

| Color |                |
|-------|----------------|
| 1     | Gray           |
| 2     | Computer White |
| 7     | Black          |
| 0     | Gold           |

|    | Runway Width | Dim. A       | Dim. B            | Dim. C           |
|----|--------------|--------------|-------------------|------------------|
| 04 | 4" (100 mm)  | 6" (150 mm)  | 4.31" (109.5 mm)  | 4.31" (109.5 mm) |
| 06 | 6" (150 mm)  | 8" (200 mm)  | 6.31" (160.3 mm)  | 4" (100.0 mm)    |
| 09 | 9" (230 mm)  | 11" (280 mm) | 9.31" (236.5 mm)  | 7" (180.0 mm)    |
| 12 | 12" (300 mm) | 14" (360 mm) | 12.31" (312.7 mm) | 10" (250.0 mm)   |
| 15 | 15" (380 mm) | 17" (430 mm) | 15.31" (388.9 mm) | 13" (330.0 mm)   |
| 18 | 18" (460 mm) | 20" (510 mm) | 18.31" (465.1 mm) | 16" (410.0 mm)   |
| 20 | 20" (510 mm) | 22" (560 mm) | 20.31" (515.9 mm) | 18" (460.0 mm)   |
| 24 | 24" (610 mm) | 26" (660 mm) | 24.31" (617.5 mm) | 22" (460.0 mm)   |

11421 - X XX

GROUNDING & BONDING

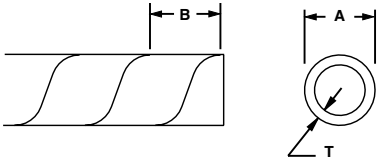
SEISMIC PROTECTION SYSTEMS

POWER MANAGEMENT

ELECTRONICS, MONITORING & SECURITY

INDEX

## Ordering Information — Spiral Wrapping



## Ordering Information — Spiral Wrapping

| Part Number | Material                       | Color         | A<br>In. (mm) | B<br>In. (mm) | T<br>In. (mm)                | Bundle Size<br>In. (mm)      | Length       | Std. Pkg. Qty* |
|-------------|--------------------------------|---------------|---------------|---------------|------------------------------|------------------------------|--------------|----------------|
| T12F-C      | Polyethylene                   | Natural       | 0.125" (3.2)  | 0.218" (5.5)  | 0.03" (.76)                  | 1/16" (1.6) – 1/2" (12.7)    | 100' (30.5M) | 1 Pkg.         |
| T19F-C      |                                | Natural       | 0.188" (4.8)  | 0.250" (6.4)  | 0.035" (0.89)                | 1/8" (3.2) - 1" (25.4)       | 100' (30.5M) | 1 Pkg.         |
| T25F-X      |                                | Natural       | 0.25" (6.4)   | 0.375" (9.5)  | 0.04" (1.02)                 | 3/16" (4.8) – 2" (50.8)      | 10' (3.0M)   | 1 Pkg.         |
| T25F-C      |                                | Natural       | 0.25" (6.4)   | 0.375" (9.5)  | 0.04" (1.02)                 | 3/16" (4.8) – 2" (50.8)      | 100' (30.5M) | 1 Pkg.         |
| T25F-C1     |                                | Brown         | 0.25" (6.4)   | 0.375" (9.5)  | 0.04" (1.02)                 | 3/16" (4.8) – 2" (50.8)      | 100' (30.5M) | 1 Pkg.         |
| T25F-C10    |                                | White         | 0.25" (6.4)   | 0.375" (9.5)  | 0.04" (1.02)                 | 3/16" (4.8) – 2" (50.8)      | 100' (30.5M) | 1 Pkg.         |
| T25F-C16    |                                | Pink          | 0.25" (6.4)   | 0.375" (9.5)  | 0.04" (1.02)                 | 3/16" (4.8) – 2" (50.8)      | 100' (30.5M) | 1 Pkg.         |
| T25F-C2     |                                | Red           | 0.25" (6.4)   | 0.375" (9.5)  | 0.04" (1.02)                 | 3/16" (4.8) – 2" (50.8)      | 100' (30.5M) | 1 Pkg.         |
| T25F-C3     |                                | Orange        | 0.25" (6.4)   | 0.375" (9.5)  | 0.04" (1.02)                 | 3/16" (4.8) – 2" (50.8)      | 100' (30.5M) | 1 Pkg.         |
| T25F-C4     |                                | Yellow        | 0.25" (6.4)   | 0.375" (9.5)  | 0.04" (1.02)                 | 3/16" (4.8) – 2" (50.8)      | 100' (30.5M) | 1 Pkg.         |
| T25F-C5     |                                | Green         | 0.25" (6.4)   | 0.375" (9.5)  | 0.04" (1.02)                 | 3/16" (4.8) – 2" (50.8)      | 100' (30.5M) | 1 Pkg.         |
| T25F-C6     |                                | Blue          | 0.25" (6.4)   | 0.375" (9.5)  | 0.04" (1.02)                 | 3/16" (4.8) – 2" (50.8)      | 100' (30.5M) | 1 Pkg.         |
| T25F-C7     |                                | Purple        | 0.25" (6.4)   | 0.375" (9.5)  | 0.04" (1.02)                 | 3/16" (4.8) – 2" (50.8)      | 100' (30.5M) | 1 Pkg.         |
| T25F-C8     |                                | Gray          | 0.25" (6.4)   | 0.375" (9.5)  | 0.04" (1.02)                 | 3/16" (4.8) – 2" (50.8)      | 100' (30.5M) | 1 Pkg.         |
| T38F-C      |                                | Natural       | 0.375" (9.5)  | 0.437" (11.1) | 0.055" (1.4)                 | 5/16" (7.9) – 3" (76.2)      | 100' (30.5M) | 1 Pkg.         |
| T50F-X      |                                | Natural       | 0.5" (12.7)   | 0.5" (12.7)   | 0.06" (1.5)                  | 3/8" (9.5) – 4" (101.6)      | 10' (3.0M)   | 1 Pkg.         |
| T50F-C      |                                | Natural       | 0.5" (12.7)   | 0.5" (12.7)   | 0.06" (1.5)                  | 3/8" (9.5) – 4" (101.6)      | 100' (30.5M) | 1 Pkg.         |
| T50F-C1     |                                | Brown         | 0.5" (12.7)   | 0.5" (12.7)   | 0.06" (1.5)                  | 3/8" (9.5) – 4" (101.6)      | 100' (30.5M) | 1 Pkg.         |
| T50F-C10    |                                | White         | 0.5" (12.7)   | 0.5" (12.7)   | 0.06" (1.5)                  | 3/8" (9.5) – 4" (101.6)      | 100' (30.5M) | 1 Pkg.         |
| T50F-C16    |                                | Pink          | 0.5" (12.7)   | 0.5" (12.7)   | 0.06" (1.5)                  | 3/8" (9.5) – 4" (101.6)      | 100' (30.5M) | 1 Pkg.         |
| T50F-C2     |                                | Red           | 0.5" (12.7)   | 0.5" (12.7)   | 0.06" (1.5)                  | 3/8" (9.5) – 4" (101.6)      | 100' (30.5M) | 1 Pkg.         |
| T50F-C3     |                                | Orange        | 0.5" (12.7)   | 0.5" (12.7)   | 0.06" (1.5)                  | 3/8" (9.5) – 4" (101.6)      | 100' (30.5M) | 1 Pkg.         |
| T50F-C4     |                                | Yellow        | 0.5" (12.7)   | 0.5" (12.7)   | 0.06" (1.5)                  | 3/8" (9.5) – 4" (101.6)      | 100' (30.5M) | 1 Pkg.         |
| T50F-C5     |                                | Green         | 0.5" (12.7)   | 0.5" (12.7)   | 0.06" (1.5)                  | 3/8" (9.5) – 4" (101.6)      | 100' (30.5M) | 1 Pkg.         |
| T50F-C6     |                                | Blue          | 0.5" (12.7)   | 0.5" (12.7)   | 0.06" (1.5)                  | 3/8" (9.5) – 4" (101.6)      | 100' (30.5M) | 1 Pkg.         |
| T50F-C7     |                                | Purple        | 0.5" (12.7)   | 0.5" (12.7)   | 0.06" (1.5)                  | 3/8" (9.5) – 4" (101.6)      | 100' (30.5M) | 1 Pkg.         |
| T50F-C8     |                                | Gray          | 0.5" (12.7)   | 0.5" (12.7)   | 0.06" (1.5)                  | 3/8" (9.5) – 4" (101.6)      | 100' (30.5M) | 1 Pkg.         |
| T62F-C      | Natural                        | 0.625" (15.9) | 0.625" (15.9) | 0.062" (1.57) | 1/2" (12.7) – 4 1/2" (114.3) | 100' (30.5M)                 | 1 Pkg.       |                |
| T75F-C      | Natural                        | 0.75" (19.1)  | 0.875" (22.2) | 0.065" (1.65) | 5/8" (15.9) – 5" (127)       | 100' (30.5M)                 | 1 Pkg.       |                |
| T100F-C     | Natural                        | 1" (25.4)     | 1.125" (28.6) | 0.07" (1.78)  | 7/8" (22.2) – 6" (152.4)     | 100' (30.5M)                 | 1 Pkg.       |                |
| T12F-C0     | Weather Resistant Polyethylene | Black         | 0.125" (3.2)  | 0.218" (5.5)  | 0.03" (.76)                  | 1/16" (1.6) – 1/2" (12.7)    | 100' (30.5M) | 1 Pkg.         |
| T19F-X0     |                                | Black         | 0.188" (4.8)  | 0.250" (6.4)  | 0.035" (0.89)                | 1/8" (3.2) - 1" (25.4)       | 10' (3.0M)   | 1 Pkg.         |
| T25F-X0     |                                | Black         | 0.25" (6.4)   | 0.375" (9.5)  | 0.04" (1.02)                 | 3/16" (4.8) – 2" (50.8)      | 10' (3.0M)   | 1 Pkg.         |
| T25F-C0     |                                | Black         | 0.25" (6.4)   | 0.375" (9.5)  | 0.04" (1.02)                 | 3/16" (4.8) – 2" (50.8)      | 100' (30.5M) | 1 Pkg.         |
| T38F-C0     |                                | Black         | 0.375" (9.5)  | 0.437" (11.1) | 0.055" (1.4)                 | 5/16" (7.9) – 3" (76.2)      | 100' (30.5M) | 1 Pkg.         |
| T50F-X0     |                                | Black         | 0.5" (12.7)   | 0.5" (12.7)   | 0.06" (1.5)                  | 3/8" (9.5) – 4" (101.6)      | 10' (3.0M)   | 1 Pkg.         |
| T50F-C0     |                                | Black         | 0.5" (12.7)   | 0.5" (12.7)   | 0.06" (1.5)                  | 3/8" (9.5) – 4" (101.6)      | 100' (30.5M) | 1 Pkg.         |
| T62F-C0     |                                | Black         | 0.625" (15.9) | 0.625" (15.9) | 0.062" (1.57)                | 1/2" (12.7) – 4 1/2" (114.3) | 100' (30.5M) | 1 Pkg.         |
| T75F-C0     |                                | Black         | 0.75" (19.1)  | 0.875" (22.2) | 0.065" (1.65)                | 5/8" (15.9) – 5" (127)       | 100' (30.5M) | 1 Pkg.         |
| T100F-C0    |                                | Black         | 1" (25.4)     | 1.125" (28.6) | 0.07" (1.78)                 | 7/8" (22.2) – 6" (152.4)     | 100' (30.5M) | 1 Pkg.         |

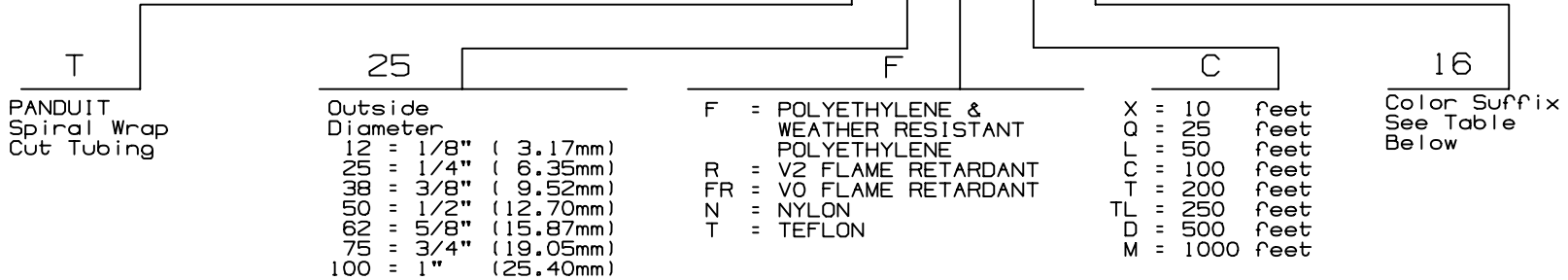
CS-115

\*Order in multiples of Std. Pkg. Qty.

NOTE: Custom cut-to-length sizes are available upon request. Contact factory for details.

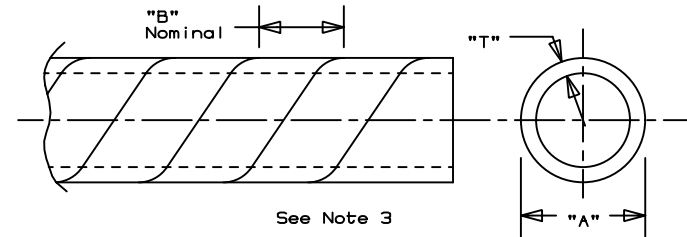
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Example: T25E-C16



COLOR AVAILABILITY

| COLOR                   | COLOR SUFFIX | MATERIAL     |                                |  |  |       |                         |        |
|-------------------------|--------------|--------------|--------------------------------|--|--|-------|-------------------------|--------|
|                         |              | POLYETHYLENE | WEATHER RESISTANT POLYETHYLENE | FLAME RETARDANT POLYETHYLENE V2 RATING | FLAME RETARDANT POLYETHYLENE VO RATING | NYLON | WEATHER RESISTANT NYLON | TEFLON |
| NATURAL (CLEAR)         | LEAVE BLANK  | X            |                                | NATURAL COLOR IS WHITE                 | NATURAL COLOR IS WHITE                 | X     |                         | X      |
| WEATHER RESISTANT BLACK | 0            |              | X                              |  |  |       | X                       |        |
| BROWN                   | 1            | X            |                                |  |  |       |                         |        |
| RED                     | 2            |              |                                |  |  |       |                         |        |
| ORANGE                  | 3            | X            |                                |  |  |       |                         |        |
| YELLOW                  | 4            | X            |                                |  |  |       |                         |        |
| GREEN                   | 5            | X            |                                |  |  |       |                         |        |
| BLUE                    | 6            | X            |                                |  |  |       |                         |        |
| PURPLE                  | 7            | X            |                                |  |  |       |                         |        |
| GRAY                    | 8            | X            |                                |  |  |       |                         |        |
| WHITE                   | 10           | X            |                                |  |  |       |                         |        |
| PINK                    | 16           | X            |                                |  |  |       |                         |        |
| BLACK                   | 20           |              |                                | X                                      | X                                      |       |                         |        |



CAD FILENAME/LAYERS G00239HA\_DC\_SPIRALWRP\_00

**PANDUIT** CORP. TINLEY PARK, ILLINOIS

SPIRAL WRAP

UNLESS OTHERWISE SPECIFIED, DIMENSIONAL TOLERANCES ARE:  
 (.X) ±0.05 (1.3) (.XXX) ±0.010 (0.25)  
 (.XX) ±0.02 (0.5) ANGLES ± 5°

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE GIVEN IN INCHES, THIRD ANGLE PROJECTION.

|              |                  |                      |
|--------------|------------------|----------------------|
| DRAWN BY JAD | MAT'L: SEE TABLE | SCALE NONE           |
| DATE 12-4-00 |                  | DRAWING NO. G00239HA |
| CHK'D        |                  | DWG SIZE A           |

|     |         |     |     |                 |          |   |      |     |
|-----|---------|-----|-----|-----------------|----------|---|------|-----|
| R   | 12-4-00 | JAD |     | INITIAL RELEASE | GB0239HA | R |      |     |
| REV | DATE    | BY  | CHK | DESCRIPTION     | ECN      | R | CUST | SUP |


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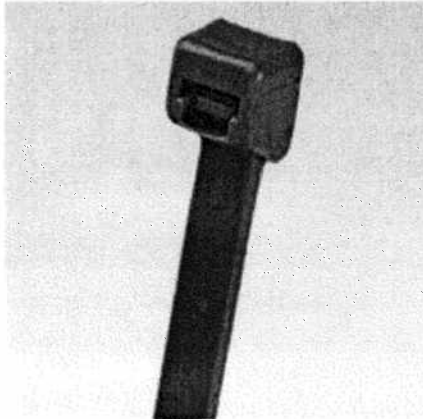
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 [Region](#) ▶ [USA](#)
 [Part Number](#) ▶ [PLT3S-C702Y](#)
 [Product Family](#) ▶ [Pan-Ty® Cable Ties - HALAR®](#)

Your search criteria matched only one product, shown below.



- UL Listed for use in plenum or air handling spaces per NEC, Section 300-22 (C) and (D)
- Low smoke density and excellent flammability rating of UL94V-0
- Commonly accepted solution for bundling qualified cable without conduit in air handling space applications
- Applications include nuclear plants, chemical environments, telecommunications equipment, aerospace, and high and low temperature environments
- Distinctive Maroon color identifies material
- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use

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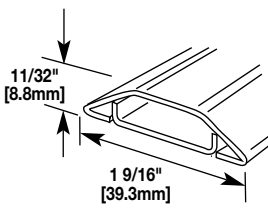
**Related Products**

Cable Tie Tools – Tool C  
 Cable Tie Tools – Install  
 Pneumatic Hand Tools -  
 Cable Tie Mounts  
 Tie Anchor Mounts – Scr

CS-116

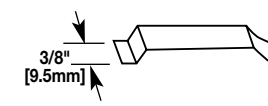
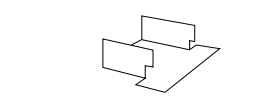
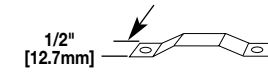
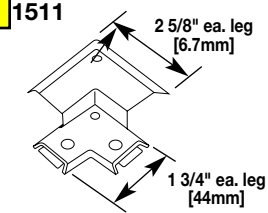
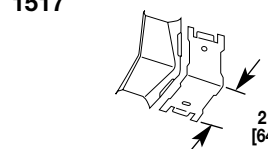
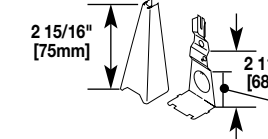
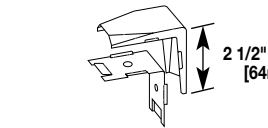
|                                    |  |
|------------------------------------|--|
| Part Number:                       | PLT3S-C702Y                              |
| RoHS Compliancy Status:            | Compliant                                |
| Note:                              | PLT3S-C702Y replaces PLT3S-C702          |
| Part Description:                  | Cable Tie, 11.6", Standard cross section |
| Product Type:                      | Cable Ties                               |
| Material:                          | HALAR Fluoropolymer                      |
| Color:                             | Maroon                                   |
| CSA Certified:                     | Yes                                      |
| UL Listed (File #E56854):          | Yes                                      |
| UL Recognized (File #E56854):      | Yes                                      |
| Length (In.):                      | 11.6                                     |
| Length (mm):                       | 295                                      |
| Width (In.):                       | .190                                     |
| Width (mm):                        | 4.8                                      |
| CE Compliant:                      | Yes                                      |
| Cross Section:                     | Standard                                 |
| Head Height (In.):                 | .240                                     |
| Head Height (mm):                  | 6.1                                      |
| Head Width (In.):                  | .320                                     |
| Head Width (mm):                   | 8.1                                      |
| Locking Style:                     | Locking                                  |
| Material Flammability Rating:      | UL 94V-0                                 |
| Max. Bundle Diameter (In.):        | 3.00                                     |
| Max. Bundle Diameter (mm):         | 76                                       |
| Max. Continuous Use Temperature:   | 302°F (150°C)                            |
| Min. Loop Tensile Strength (Lbs.): | 50                                       |

## 1500 Base and Cover

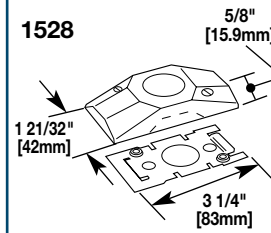
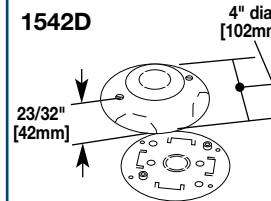
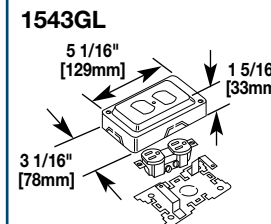
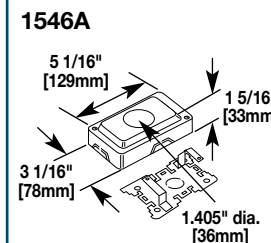
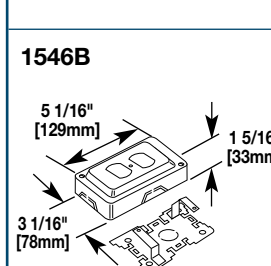
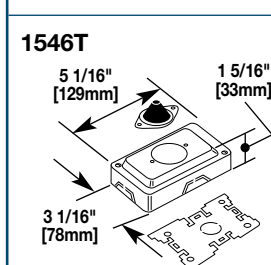
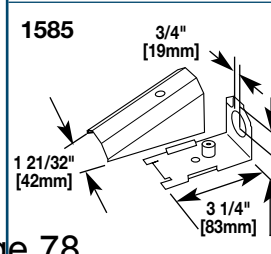
| Catalog No./Item | Description/Specifications  |
|------------------|---|
| 1500             | <p><b>Base and Cover</b> – .040" [1mm] galvanized steel. Packed ten 10 ft. lengths per carton. Base has 9/32" [7.1mm] mounting holes on 8" [203mm] centers. Also available in 5 ft. [1.525m] length, packed ten 5 ft. [1.525m] lengths per carton. Specify <b>1500-5</b> for 5 ft. [1.525m] and <b>1500-10</b> for 10 ft. [3.050m] sections.</p>  |

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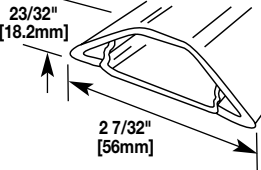
## 1500 Overfloor Raceway Fittings

| Catalog No./Item | Description/Specifications  |
|------------------|---|
| 1500WC           | <p><b>Wire Clip</b> – For holding conductors in place. Not UL Listed.</p>   |
| 1502             | <p><b>Fiber Bushing</b> – Protects wires from abrasion. Slips into open end of 1500 where it enters a fitting.</p>  |
| 1504             | <p><b>Strap</b> – Two-hole strap. Use to fasten 1500 to surfaces at any point desired.</p>                        |
| CS-119 1511      | <p><b>90° Flat Elbow</b> – For right angle turns on the same surface.</p>   |
| 1517             | <p><b>Internal Elbow</b> – For internal 90° corners.</p>    |
| V1517B           | <p><b>Adapter Fitting</b> – To feed to or from V200, V500, or V700 raceway on wall to 1500 on floor.</p>          |
| 1518             | <p><b>External Elbow</b> – For external 90° corners.</p>    |

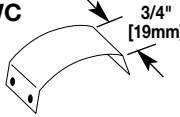
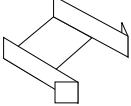
## 1500 Overfloor Raceway Fittings

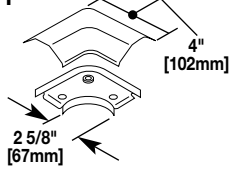
| Catalog No./Item | Description/Specifications  |
|------------------|---|
| 1528             | <p><b>Utility Box</b> – Base and cover each have 1/2" [12.7mm] trade size KO. May be used as a cross, tee, straight through, or to terminate run. Two 1500WC wire clips included.</p>   |
| 1542D            | <p><b>Junction Box</b> – May be used as a cross, tee, or elbow. Cover has 1/2" [12.7mm] and 3/4" [19mm] trade size concentric KOs. Two 1500WC wire clips included.</p>    |
| 1543GL           | <p><b>Grounding Duplex</b> – Cover has 1500 and 2600 twistouts on all four sides. Base has 1/2" [12.7mm], 3/4" [19.1mm] trade size concentric KOs. Two 1500WC Wire Clips included. Gray finish.</p>   |
| 1546A            | <p><b>Single Receptacle Box</b> – Accommodates commercially available straight blade and locking single receptacles with face diameters of 1.38-1.40" [34.5-35mm]. Base has 1/2" [12.7mm] and 3/4" [19mm] trade size concentric KOs. Cover has 1500 and 2600 twistouts on all four sides. Two 1500WC wire clips included.</p>  |
| 1546B            | <p><b>Duplex Receptacle Box</b> – Accommodates commercially available 15A or 20A duplex receptacles. Base has 1/2" [12.7mm] and 3/4" [19mm] concentric trade size KOs. Cover has 1500 and 2600 twistouts on all four sides. Two 1500WC wire clips included. Side wiring recommended.</p>                                      |
| 1546T            | <p><b>Telephone Outlet Box</b> – Furnished with 1/2" [12.7mm] rubber stem. Accepts modular connecting blocks within the fitting. Cover has 1500 and 2600 twistouts on both ends and both sides. Two 1500WC wire clips included. Not UL Listed.</p>    |
| 1585             | <p><b>Combination Connector</b> – For connecting 1/2" [12.7mm] trade size conduit or armored cable to Pancake 1500.</p>   |

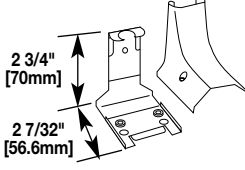
## 2600 Base and Cover

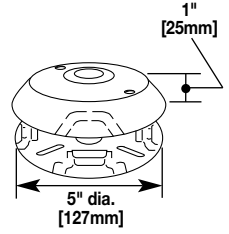
| Catalog No./Item   | Description/Specifications  |
|--|---|
| <b>2600</b><br> | <b>Base and Cover</b> – Cover: .050" [1.25mm] galvanized steel. Base: .040" [1mm] galvanized steel. Packed (5) 10 ft. [3.050m] lengths per carton. Base has 9/32" [7.1mm] dia. mounting holes on centers of approximately 8" [203mm]. |

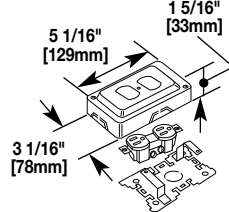
## 2600 Overfloor Raceway Fittings

| Catalog No./Item   | Description/Specifications  |
|--|---|
| <b>2600WC</b><br> | <b>Wire Clip</b> – For holding conductors in place.   |
| <b>2602</b><br>   | <b>Fiber Bushing</b> – Protects wires from abrasion. Bushing slips into open end of 2600 where it enters a fitting. |

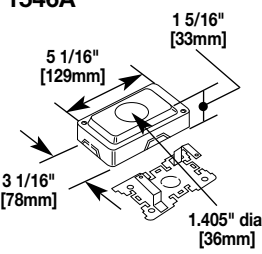
|   |  |
|---|--|
| <b>2611</b><br> | <b>90° Flat Elbow</b> – For right angle turns on same surface. |
|---|--|

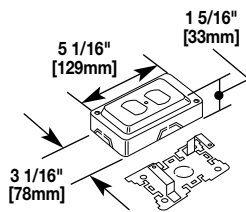
|   |  |
|---|--|
| <b>2617T</b><br> | <b>Telephone Elbow</b> – Used at beginning of run at wall, at end of run, and along run (two fittings back to back, with backs removed at score) where cable is brought out and back to continue run. Cover has two twistouts and base is scored for quarter-round baseboard molding. Max. Capacity: two 25 pr. telephone cables. Not UL Listed. |
|---|--|

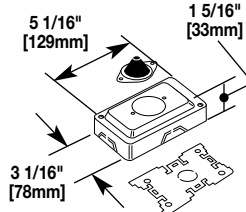
|   |  |
|---|--|
| <b>2642D</b><br> | <b>Junction Box</b> – May be used with 1500 and/or 2600 as a cross, tee, or elbow. Cover has 1/2" [12.7mm] trade size KO. Base has 1/2" [12.7mm] and 3/4" [19mm] concentric KO to enable connection to floor, outlet boxes, or under floor duct systems (use chase nipple – not included). Two 2600WC wire clips included. |
|---|--|

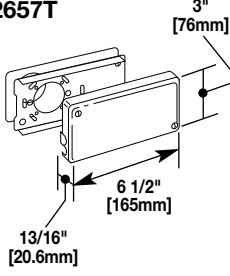
|  |   |
|--|---|
| <b>1543GL</b><br> | <b>Grounding Duplex</b> – Cover has 1500 and 2600 twistouts on all four sides. Base has 1/2" [12.7mm] and 3/4" [19mm] concentric KOs. Two 1500WC Wire Clips included. |
|--|---|

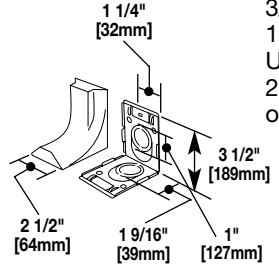
## 2600 Overfloor Raceway Fittings

| Catalog No./Item   | Description/Specifications   |
|--|--|
| <b>1546A</b><br> | <b>Single Receptacle Box</b> – Accommodates commercially available straight blade and locking single receptacles with face diameters of 1.38-1.40" [34.5-35mm]. Base has 1/2" [12.7mm] and 3/4" [19mm] trade size concentric KOs. Cover has 1500 and 2600 twistouts on all four sides. Two 1500WC wire clips included. |

|  |   |
|--|---|
| <b>1546B</b><br> | <b>Duplex Receptacle Box</b> – Accommodates commercially available 15A or 20A duplex receptacles. Base has 1/2" [12.7mm] and 3/4" [19mm] concentric trade size KOs. Cover has 1500 and 2600 twistouts on all four sides. Two 1500WC wire clips included. Side wiring recommended. |
|--|---|

|  |   |
|--|---|
| <b>1546T</b><br> | <b>Telephone Outlet Box</b> – Furnished with 1/2" [12.7mm] rubber stem. Accepts modular connecting blocks within the fitting. Cover has 1500 and 2600 twistouts on both ends and both sides. Two 1500WC wire clips included. Not UL Listed. |
|--|---|

|  |   |
|--|---|
| <b>2657T</b><br> | <b>Telephone Service Fitting</b> – Cover has 1500 and 2600 twistouts on one end. Use to house 25 pr. telephone connector. Two rubber grommets furnished. Holecut base enables mounting to 4" [102mm] wall box. Not UL Listed. |
|--|---|

|   |   |
|---|---|
| <b>2186</b><br> | <b>Adjustable Offset</b> – Has twistouts for 2100 and 2600 on each end. Base has Connector 3/4" [19mm], 1" [25mm] and 1" [25mm] elongated knockouts. Use for 90° internal corners for 2600, transition from 2600 to 2100, or for connection to panel boxes. |
|---|---|

## 1500 Raceway Wire Fill Capacities for Power

|              | WIRE SIZE<br>THHN/THWN | O.D.   |       | 40% FILL |
|--------------|------------------------|--------|-------|----------|
|              |                        | inches | [mm]  |          |
| POWER WIRING | 8 AWG                  | 0.218  | [5.5] | 2        |
|              | 10 AWG                 | 0.153  | [3.9] | 5        |
|              | 12 AWG                 | 0.122  | [3.1] | 8        |
|              | 14 AWG                 | 0.105  | [2.7] | 10       |

## 1500 Raceway Wire Fill Capacities for Communications

|                         | CABLE/WIRE SIZE                                 | O.D.   |        | 20% FILL | 40% FILL |
|-------------------------|---|--------|--------|----------|----------|
|                         |   | inches | [mm]   |          |          |
| UNSHIELDED TWISTED PAIR | 4-Pair, 24 AWG Cat 5 UTP                        | 0.210  | [5.3]  | 1        | 2        |
|                         | 4-Pair, 24 AWG Cat 3 UTP                        | 0.190  | [4.8]  | 1        | 3        |
| TELEPHONE               | 2-Pair, 24 AWG                                  | 0.150  | [3.8]  | 3        | 6        |
|                         | 3-Pair, 24 AWG                                  | 0.160  | [4.1]  | 2        | 5        |
|                         | 4-Pair, 24 AWG                                  | 0.190  | [4.8]  | 1        | 3        |
|                         | 25-Pair, 24 AWG                                 | 0.360  | [9.1]  | 0        | 0        |
| COAXIAL                 | RG58/U  | 0.195  | [5.0]  | 1        | 3        |
|                         | RG59/U  | 0.242  | [6.1]  | 1        | 2        |
|                         | RG62/U  | 0.242  | [6.1]  | 1        | 2        |
|                         | RG6/U   | 0.270  | [6.9]  | 0        | 1        |
| TWINAXIAL               | 100 Ohm   | 0.330  | [8.4]  | 0        | 1        |
| SHIELD TWISTED PAIR     | Type 1  | 0.390  | [9.9]  | 0        | 0        |
|                         | Type 2  | 0.465  | [11.8] | 0        | 0        |
|                         | Type 3  | 0.245  | [6.2]  | 0        | 2        |
| FIBER OPTIC             | Two Stranded (Duplex)<br>Multimode, 62.5/125 µm | 0.190  | [4.8]  | 1        | 3        |

## 2600 Raceway Wire Fill Capacities for Power

|              | WIRE SIZE<br>THHN/THWN | O.D.   |       | 40% FILL |
|--------------|------------------------|--------|-------|----------|
|              |                        | inches | [mm]  |          |
| POWER WIRING | 8 AWG                  | 0.218  | [5.5] | 8        |
|              | 10 AWG                 | 0.153  | [3.9] | 16       |
|              | 12 AWG                 | 0.122  | [3.1] | 25       |
|              | 14 AWG                 | 0.105  | [2.7] | 33       |

## 2600 Raceway Wire Fill Capacities for Communications

|                         | CABLE/WIRE SIZE                                 | O.D.   |        | 20% FILL | 40% FILL |
|-------------------------|---|--------|--------|----------|----------|
|                         |   | inches | [mm]   |          |          |
| UNSHIELDED TWISTED PAIR | 4-Pair, 24 AWG Cat 5 UTP                        | 0.210  | [5.6]  | 3        | 7        |
|                         | 4-Pair, 24 AWG Cat 3 UTP                        | 0.190  | [4.8]  | 5        | 10       |
| TELEPHONE               | 2-Pair, 24 AWG                                  | 0.150  | [3.3]  | 9        | 18       |
|                         | 3-Pair, 24 AWG                                  | 0.160  | [4.1]  | 8        | 16       |
|                         | 4-Pair, 24 AWG                                  | 0.190  | [4.8]  | 5        | 10       |
|                         | 25-Pair, 24 AWG                                 | 0.360  | [9.1]  | 1        | 2        |
| COAXIAL                 | RG58/U  | 0.195  | [5.0]  | 4        | 9        |
|                         | RG59/U  | 0.242  | [6.1]  | 3        | 6        |
|                         | RG62/U  | 0.242  | [6.1]  | 3        | 6        |
|                         | RG6/U   | 0.270  | [6.9]  | 2        | 5        |
| TWINAXIAL               | 100 Ohm   | 0.330  | [8.4]  | 1        | 3        |
| SHIELD TWISTED PAIR     | Type 1  | 0.390  | [9.9]  | 1        | 2        |
|                         | Type 2  | 0.465  | [11.8] | 0        | 1        |
|                         | Type 3  | 0.245  | [6.2]  | 3        | 6        |
| FIBER OPTIC             | Two Stranded (Duplex)<br>Multimode, 62.5/125 µm | 0.190  | [4.8]  | 5        | 10       |

\*20% cable fill is calculated to approximate reduction in cable capacity due to connectors mounted within raceway and fittings that may restrict cross sectional area.

\*\*40% cable fill is the maximum designed cable fill based on a proposed revision to TIA/EIA 569-A.



**The Wiremold Company**

U.S. and International:

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Current refinements (click  to remove)

Region **USA**  Product Family **Pan-Way® T-70 Surface Raceway System**  Text Search: **'T70BEI8'**

Your search criteria matched only one product, shown below.

R



Pan-Way® Type T-70 Surface Raceway is an aesthetically designed multi-channel system to route, protect, and conceal data, voice, video, fiber optic and power cabling.

- UL & CSA rated 600V; meets UL5A and CSA C22.2 No. 62.1-03 standards. FT4 Rated
- Large cable capacity with aesthetically pleasing design
- Tamper resistant
- Compatible with NEMA standard 70mm faceplates or *Pan-Way®* Classic Series Snap-On Faceplates
- Transitions to *PANDUIT®* T-45 and LD Profile Raceways
- Supplied with pre-punched mounting holes

## CS-121

|                         |  |
|-------------------------|--|
| Part Number:            | T70BEI8  |
| Product Family:         | <i>Pan-Way®</i> T-70 Surface Raceway System  |
| Product Line:           | Pan-Way T-70 and Twin-70 Non-Metallic Surface Raceway                              |
| RoHS Compliancy Status: | Compliant  |
| Part Description:       | T-70 Raceway Base in 8' and 10' lengths. Supplied with pre-punched mounting holes. |
| Product Type:           | Power Rated Raceway  |
| Color:                  | Electric Ivory   |
| CSA 22.2 No.62-93:      | Yes  |
| CSA Certified:          | Yes  |
| UL Listed:              | Yes  |
| UL5A Listed:            | Yes  |
| Length (ft.):           | 8  |
| CE Compliant:           | Yes  |
| Inside Diameter (In.):  | (A = 5.15 in <sup>2</sup> )  |
| Product Family:         | <i>Pan-Way®</i> T-70 Surface Raceway System  |
| Record Type:            | Products   |
| Product Length:         | 8'   |
| Product Size:           | 70   |
| Raceway Component:      | Base   |
| Raceway Size:           | 4.07" x 1.77"  |
| Std. Pkg. UOM:          | PK   |
| UOM:                    | FT   |
| Std. Pkg. Qty.:         | 8  |
| Min. Order Qty.:        | 48   |
| Part Number:            | T70BEI8  |



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Current refinements (click  to remove)

Region **USA**  Product Family **Pan-Way® Raceway Covers for T-70, Twin-70, TG-70 and Pan-Pole™**

Text Search: 'T70CEI8'

Your search criteria matched only one product, shown below.

T-70, TG-70, or Twin-70 Raceway Cover in 8' and 10' lengths.

Raceway Covers to be used with T-70, Twin-70, TG-70, Bases, and Pan-Pole™



CS-122

|                         |  |
|-------------------------|--|
| Part Number:            | T70CEI8  |
| Product Family:         | Pan-Way® Raceway Covers for T-70, Twin-70, TG-70 and Pan-Pole™ |
| Product Line:           | Pan-Pole Aluminum Outlet Pole and Accessories                  |
| Product Line:           | Pan-Way T-70 and Twin-70 Non-Metallic Surface Raceway          |
| Product Line:           | Pan-Way TG-70 Non-Metallic Surface Raceway                     |
| RoHS Compliancy Status: | Compliant  |
| Part Description:       | T-70, TG-70, or Twin-70 Raceway Cover in 8' and 10' lengths.   |
| Product Type:           | Power Rated Raceway  |
| Color:                  | Electric Ivory   |
| CSA 22.2 No.62-93:      | Yes  |
| UL5A Listed:            | Yes  |
| Length (ft.):           | 8  |
| Product Family:         | Pan-Way® Raceway Covers for T-70, Twin-70, TG-70 and Pan-Pole™ |
| Record Type:            | Products   |
| Product Length:         | 8'   |
| Product Size:           | 70   |
| Std. Pkg. UOM:          | PK   |
| UOM:                    | FT   |
| Std. Pkg. Qty.:         | 8  |
| Min. Order Qty.:        | 96   |
| Part Number:            | T70CEI8  |
| BOM Qty. (# of Pkgs.)   | <input type="text" value="0"/>                                 |
| Add to My Catalog       | <input type="checkbox"/>                                       |

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 [Product Family](#) ▶ [Pan-Way® T-70 Raceway Fittings](#)
 [Text Search](#): 'T70ICEI'

**Your search criteria matched only one product, shown below.**

R



Fittings include T-70 Tee divider inserts which separate power and data within the tee fitting, a transition fitting to any LD profile raceway, inside and outside corner fittings, end caps and base and cover coupler fittings and are designed to maintain the TIA/EIA required 1" minimum bend radius of high performance copper and fiber optic cabling systems.

- T-70 fittings are designed to maintain the TIA/EIA-568-B and 569-B required minimum bend radius for high performance copper and fiber optic cabling systems

CS-123

|                         |   |
|-------------------------|---|
| Part Number:            | T70ICEI   |
| Product Family:         | <i>Pan-Way®</i> T-70 Raceway Fittings   |
| Product Line:           | Pan-Way T-70 and Twin-70 Non-Metallic Surface Raceway                           |
| RoHS Compliancy Status: | Compliant   |
| Part Description:       | Inside Corner Fitting. Used to join sections of T-70 Raceway at inside corners. |
| Product Type:           | Power Rated Fittings  |
| Color:                  | Electric Ivory  |
| CSA 22.2 No.62-93:      | Yes   |
| CSA Certified:          | Yes   |
| UL Listed:              | Yes   |
| UL5A Listed:            | Yes   |
| Fitting Type:           | Inside Corner   |
| Bend Radius Control:    | Yes   |
| CE Compliant:           | Yes   |
| Product Family:         | <i>Pan-Way®</i> T-70 Raceway Fittings   |
| Record Type:            | Products  |
| Product Size:           | 70  |
| Std. Pkg. UOM:          | PK  |
| UOM:                    | PC  |
| Std. Pkg. Qty.:         | 1   |
| Min. Order Qty.:        | 1   |
| Part Number:            | T70ICEI   |
| BOM Qty. (# of Pkgs.)   | <input type="text" value="0"/>  |
| Add to My Catalog       | <input type="checkbox"/>  |

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 [Text Search](#): 'T70ECEI'

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R



Fittings include T-70 Tee divider inserts which separate power and data within the tee fitting, a transition fitting to any LD profile raceway, inside and outside corner fittings, end caps and base and cover coupler fittings and are designed to maintain the TIA/EIA required 1" minimum bend radius of high performance copper and fiber optic cabling systems.

- T-70 fittings are designed to maintain the TIA/EIA-568-B and 569-B required minimum bend radius for high performance copper and fiber optic cabling systems

CS-124

|                         |  |
|-------------------------|--|
| Part Number:            | T70ECEI  |
| Product Family:         | <i>Pan-Way®</i> T-70 Raceway Fittings  |
| Product Line:           | Pan-Way T-70 and Twin-70 Non-Metallic Surface Raceway  |
| RoHS Compliancy Status: | Compliant  |
| Part Description:       | End Cap Fitting. Used to terminate or allow entry to T-70 Raceway with conduit breakouts of 1/2" . |
| Product Type:           | Power Rated Fittings   |
| Color:                  | Electric Ivory   |
| CSA 22.2 No.62-93:      | Yes  |
| CSA Certified:          | Yes  |
| UL Listed:              | Yes  |
| UL5A Listed:            | Yes  |
| Fitting Type:           | End Cap  |
| Bend Radius Control:    | No   |
| CE Compliant:           | Yes  |
| Product Family:         | <i>Pan-Way®</i> T-70 Raceway Fittings  |
| Record Type:            | Products   |
| Product Size:           | 70   |
| Std. Pkg. UOM:          | PK   |
| UOM:                    | PC   |
| Std. Pkg. Qty.:         | 1  |
| Min. Order Qty.:        | 1  |
| Part Number:            | T70ECEI  |
| BOM Qty. (# of Pkgs.)   | <input type="text" value="0"/>   |
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Region **USA**  Product Family **Pan-Way® T-70 Raceway Fittings**  Text Search: 'T70BCEI'

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R



Fittings include T-70 Tee divider inserts which separate power and data within the tee fitting, a transition fitting to any LD profile raceway, inside and outside corner fittings, end caps and base and cover coupler fittings and are designed to maintain the TIA/EIA required 1" minimum bend radius of high performance copper and fiber optic cabling systems.

- T-70 fittings are designed to maintain the TIA/EIA-568-B and 569-B required minimum bend radius for high performance copper and fiber optic cabling systems

CS-125

Part Number: T70BCEI-X  
 Product Family: Pan-Way® T-70 Raceway Fittings  
 Product Line: Pan-Way T-70 and Twin-70 Non-Metallic Surface Raceway  
 RoHS Compliancy Status: Compliant  
 Part Description: Base Coupler Fitting. Used to join sections of T-70 Raceway Base together.  
 Product Type: Power Rated Fittings  
 Color: Electric Ivory  
 CSA 22.2 No.62-93: Yes  
 CSA Certified: Yes  
 UL Listed: Yes  
 UL5A Listed: Yes  
 Fitting Type: Base Coupler  
 Bend Radius Control: No  
 CE Compliant: Yes  
 Product Family: Pan-Way® T-70 Raceway Fittings  
 Record Type: Products  
 Product Size: 70  
 Std. Pkg. UOM: PK  
 UOM: PC  
 Std. Pkg. Qty.: 10  
 Min. Order Qty.: 10  
 Part Number: T70BCEI-X

BOM Qty. (# of Pkgs.)

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Your search criteria matched only one product, shown below.

R



Twin-70 fittings are designed to maintain the TIA/EIA required 1" minimum bend radius of high performance copper and fiber-optic cabling systems.

- Twin-70 fittings are designed to maintain the TIA/EIA-568-B and 569-B required minimum bend radius for high performance copper and fiber optic cabling systems

## CS-125

|                         |   |
|-------------------------|---|
| Part Number:            | T70CCEI-X   |
| Product Family:         | <i>Pan-Way®</i> T-70 Raceway Fittings                           |
| Product Line:           | Pan-Way T-70 and Twin-70 Non-Metallic Surface Raceway           |
| Product Line:           | Pan-Way TG-70 Non-Metallic Surface Raceway                      |
| RoHS Compliancy Status: | Compliant   |
| Part Description:       | Cover Coupler Fitting. Used to join sections of cover together. |
| Product Type:           | Power Rated Fittings  |
| Color:                  | Electric Ivory  |
| CSA 22.2 No.62-93:      | Yes   |
| CSA Certified:          | Yes   |
| UL Listed:              | Yes   |
| UL5A Listed:            | Yes   |
| Fitting Type:           | Cover Coupler   |
| Bend Radius Control:    | No  |
| CE Compliant:           | Yes   |
| Product Family:         | <i>Pan-Way®</i> T-70 Raceway Fittings                           |
| Product Family:         | <i>Pan-Way®</i> TG-70 Raceway Fittings                          |
| Product Family:         | <i>Pan-Way®</i> Twin-70 Raceway Fittings                        |
| Record Type:            | Products  |
| Product Size:           | 70  |
| Std. Pkg. UOM:          | PK  |
| UOM:                    | PC  |
| Std. Pkg. Qty.:         | 10  |
| Min. Order Qty.:        | 10  |
| Part Number:            | T70CCEI-X   |


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 **Region** ▶ USA  **Product Family** ▶ *Pan-Way*® T-70 Raceway Fittings  **Text Search:** 'T70OCEI'

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R



Fittings include T-70 Tee divider inserts which separate power and data within the tee fitting, a transition fitting to any LD profile raceway, inside and outside corner fittings, end caps and base and cover coupler fittings and are designed to maintain the TIA/EIA required 1" minimum bend radius of high performance copper and fiber optic cabling systems.

- T-70 fittings are designed to maintain the TIA/EIA-568-B and 569-B required minimum bend radius for high performance copper and fiber optic cabling systems

CS-126

|                         |   |
|-------------------------|---|
| Part Number:            | T70OCEI   |
| Product Family:         | <i>Pan-Way</i> ® T-70 Raceway Fittings  |
| Product Line:           | Pan-Way T-70 and Twin-70 Non-Metallic Surface Raceway                             |
| RoHS Compliancy Status: | Compliant   |
| Part Description:       | Outside Corner Fitting. Used to join sections of T-70 Raceway at outside corners. |
| Product Type:           | Power Rated Fittings  |
| Color:                  | Electric Ivory  |
| CSA 22.2 No.62-93:      | Yes   |
| CSA Certified:          | Yes   |
| UL Listed:              | Yes   |
| UL5A Listed:            | Yes   |
| Fitting Type:           | Outside Corner  |
| Bend Radius Control:    | Yes   |
| CE Compliant:           | Yes   |
| Product Family:         | <i>Pan-Way</i> ® T-70 Raceway Fittings  |
| Record Type:            | Products  |
| Product Size:           | 70  |
| Std. Pkg. UOM:          | PK  |
| UOM:                    | PC  |
| Std. Pkg. Qty.:         | 1   |
| Min. Order Qty.:        | 1   |
| Part Number:            | T70OCEI   |
| BOM Qty. (# of Pkgs.)   | <input type="text" value="0"/>  |
| Add to My Catalog       | <input type="checkbox"/>  |

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 Region **USA**
 Product Family **Pan-Way® T-70 Raceway Fittings**
 Text Search: **'T70TREI'**
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R



Fittings include T-70 Tee divider inserts which separate power and data within the tee fitting, a transition fitting to any LD profile raceway, inside and outside corner fittings, end caps and base and cover coupler fittings and are designed to maintain the TIA/EIA required 1" minimum bend radius of high performance copper and fiber optic cabling systems.

- T-70 fittings are designed to maintain the TIA/EIA-568-B and 569-B required minimum bend radius for high performance copper and fiber optic cabling systems

CS-127

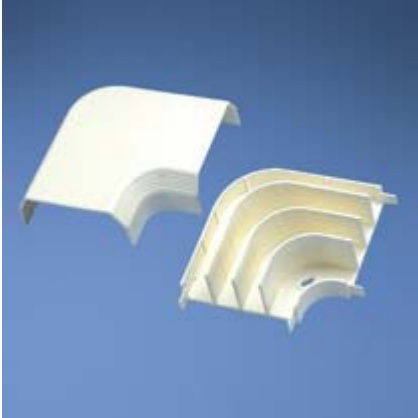
|                         |   |
|-------------------------|---|
| Part Number:            | T70TREI   |
| Product Family:         | <i>Pan-Way®</i> T-70 Raceway Fittings   |
| Product Line:           | Pan-Way T-70 and Twin-70 Non-Metallic Surface Raceway   |
| RoHS Compliancy Status: | Compliant   |
| Part Description:       | Transition Fitting. Used to transition to any LD Profile or T-45 Raceway while maintaining channel separation. Fitting includes bend radius insert. |
| Product Type:           | Power Rated Fittings  |
| Color:                  | Electric Ivory  |
| CSA 22.2 No.62-93:      | Yes   |
| CSA Certified:          | Yes   |
| UL Listed:              | Yes   |
| UL5A Listed:            | Yes   |
| Fitting Type:           | Transition Fitting  |
| Bend Radius Control:    | Yes   |
| CE Compliant:           | Yes   |
| Product Family:         | <i>Pan-Way®</i> T-70 Raceway Fittings   |
| Record Type:            | Products  |
| Product Size:           | 70  |
| Std. Pkg. UOM:          | PK  |
| UOM:                    | PC  |
| Std. Pkg. Qty.:         | 1   |
| Min. Order Qty.:        | 1   |
| Part Number:            | T70TREI   |
| BOM Qty. (# of Pkgs.)   | <input type="text" value="0"/>  |
| Add to My Catalog       | <input type="checkbox"/>  |




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 **Region** ▶ USA
  **Product Family** ▶ *Pan-Way® T-70 Raceway Fittings*
 **Text Search:** 'T70RAEI'

**Your search criteria matched only one product, shown below.**

R



Fittings include T-70 Tee divider inserts which separate power and data within the tee fitting, a transition fitting to any LD profile raceway, inside and outside corner fittings, end caps and base and cover coupler fittings and are designed to maintain the TIA/EIA required 1" minimum bend radius of high performance copper and fiber optic cabling systems.

- T-70 fittings are designed to maintain the TIA/EIA-568-B and 569-B required minimum bend radius for high performance copper and fiber optic cabling systems

CS-128

|                         |   |
|-------------------------|---|
| Part Number:            | T70RAEI   |
| Product Family:         | <i>Pan-Way® T-70 Raceway Fittings</i>                                       |
| Product Line:           | Pan-Way T-70 and Twin-70 Non-Metallic Surface Raceway                       |
| RoHS Compliancy Status: | Compliant   |
| Part Description:       | Right Angle Fitting. Used to join sections of T-70 Raceway at right angles. |
| Product Type:           | Power Rated Fittings  |
| Color:                  | Electric Ivory  |
| CSA 22.2 No.62-93:      | Yes   |
| CSA Certified:          | Yes   |
| UL Listed:              | Yes   |
| UL5A Listed:            | Yes   |
| Fitting Type:           | Right Angle   |
| Bend Radius Control:    | Yes   |
| CE Compliant:           | Yes   |
| Product Family:         | <i>Pan-Way® T-70 Raceway Fittings</i>                                       |
| Record Type:            | Products  |
| Product Size:           | 70  |
| Std. Pkg. UOM:          | PK  |
| UOM:                    | PC  |
| Std. Pkg. Qty.:         | 1   |
| Min. Order Qty.:        | 1   |
| Part Number:            | T70RAEI   |
| BOM Qty. (# of Pkgs.)   | <input type="text" value="0"/>  |
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Region **USA**  Product Family **Pan-Way® T-70 Raceway Fittings**  Text Search: 'T70TEI'

Your search criteria matched only one product, shown below.

R



Fittings include T-70 Tee divider inserts which separate power and data within the tee fitting, a transition fitting to any LD profile raceway, inside and outside corner fittings, end caps and base and cover coupler fittings and are designed to maintain the TIA/EIA required 1" minimum bend radius of high performance copper and fiber optic cabling systems.

- T-70 fittings are designed to maintain the TIA/EIA-568-B and 569-B required minimum bend radius for high performance copper and fiber optic cabling systems

CS-129

Part Number: T70TEI  
 Product Family: Pan-Way® T-70 Raceway Fittings  
 Product Line: Pan-Way T-70 and Twin-70 Non-Metallic Surface Raceway  
 RoHS Compliancy Status: Compliant  
 Part Description: Tee Fitting. Used to join sections of T-70 Raceway at tee intersections.  
 Product Type: Power Rated Fittings  
 Color: Electric Ivory  
 CSA 22.2 No.62-93: Yes  
 CSA Certified: Yes  
 UL Listed: Yes  
 UL5A Listed: Yes  
 Fitting Type: Tee  
 Bend Radius Control: Yes  
 CE Compliant: Yes  
 Product Family: Pan-Way® T-70 Raceway Fittings  
 Record Type: Products  
 Product Size: 70  
 Std. Pkg. UOM: PK  
 UOM: PC  
 Std. Pkg. Qty.: 1  
 Min. Order Qty.: 1  
 Part Number: T70TEI

BOM Qty. (# of Pkgs.)

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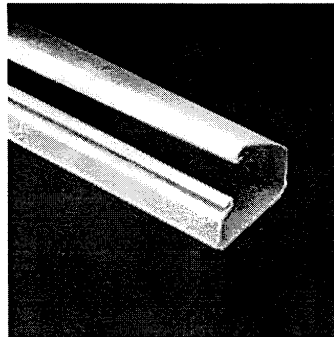
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Consultants  
Distributors  
Installers  
System Integrators  
Warranties

**Product Information: Products**

All Products | Surface Raceway | Non-Metallic Single Channel | Pan-Way LD Profile Non-Metallic Surface Raceway | **Pan-Way® LD Surface Raceway System**

**Related Materials**

FAQs



*Pan-Way® LD Surface Raceway* is a single channel raceway designed to route, protect and conceal data, voice and video cabling.

- For routing data and low voltage cabling
- One-piece hinged design allows cables to be laid in
- Factory applied adhesive backing speeds installation
- FT-4 Rated for Canada
- Terminates using surface mount outlet box solutions or *Mini-Com®* Surface Mount Boxes

|                  |               |   |
|------------------|---------------|---|
| Part Number      | <b>CS-130</b> | LD10EI6-A   |
| Product Family   |               | <i>Pan-Way®</i> LD Surface Raceway System   |
| Part Description |               | One-piece latching surface raceway. Supplied with pre-applied adhesive backed tape. Available in 6', 8', and 10' lengths. |
| Product Type     |               | Low Voltage Raceway   |
| Color            |               | Electric Ivory  |
| Length (ft)      |               | 6   |
| Raceway Size     |               | 1.51" x .94"  |
| Product Size     |               | 10  |
| Product Length   |               | 6'  |
| UOM              |               | FT  |
| Std. Pkg. Qty.   |               | 6   |
| Min. Order Qty   |               | 6   |



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- Industrial Ethernet
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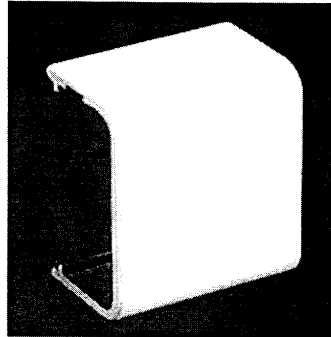
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- System Integrators
- Warranties

**Product Information: Products**

- All Products | Surface Raceway | Non-Metallic Single Channel | Pan-Way LD Profile Non-Metallic Surface Raceway | One Inch Bend Radius Fittings for TIA/EIA Compliance

**Related Materials**

- FAQs
- Installation Instructions
- Part Drawings



All fittings for LD, LDP and LDS raceway comply with the 1" Bend Radius Control for TIA/EIA Compliance. This includes the inside and outside corner fittings, right angle, tee and right angle entrance end fittings.

- One inch bend radius fittings are designed to maintain the TIA/EIA 568-B and 569-B required minimum bend radius for high performance copper and fiber optic cabling systems

|                     |               |   |
|---------------------|---------------|---|
| Part Number         | <b>CS-131</b> | CFX10EI-X   |
| Product Family      |               | One Inch Bend Radius Fittings for TIA/EIA Compliance          |
| Part Description    |               | Coupler Fitting for use with LD10, LDP10, and LD2P10 Raceway. |
| Product Type        |               | Power Rated Fittings  |
| Color               |               | Electric Ivory  |
| Fitting Type        |               | Coupler   |
| Bend Radius Control |               | No  |
| Product Size        |               | 10  |
| UOM                 |               | PC  |
| Std. Pkg. Qty.      |               | 10  |

/.panduit.com/products/Products.asp?navigate=ItemDetails&paramsearch=yes&item=9,CFX10EI-X,One+Inch+Bend+l...



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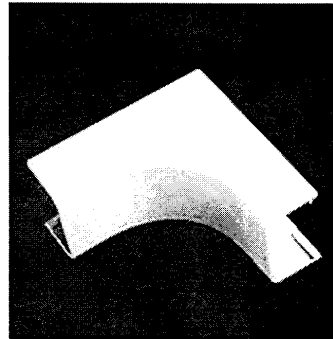
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- Installers
- System Integrators
- Warranties

**Product Information: Products**

- All Products | Surface Raceway | Non-Metallic Single Channel | Pan-Way LD Profile Non-Metallic Surface Raceway |
- One Inch Bend Radius Fittings for TIA/EIA Compliance**

**Related Materials**

- FAQs
- Installation Instructions
- Part Drawings



All fittings for LD, LDP and LDS raceway comply with the 1" Bend Radius Control for TIA/EIA Compliance. This includes the inside and outside corner fittings, right angle, tee and right angle entrance end fittings.

• One inch bend radius fittings are designed to maintain the TIA/EIA 568-B and 569-B required minimum bend radius for high performance copper and fiber optic cabling systems

|                  |               |  |
|------------------|---------------|--|
| Part Number      | <b>CS-132</b> | ICFC10EI-X   |
| Product Family   |               | One Inch Bend Radius Fittings for TIA/EIA Compliance       |
| Part Description |               | Inside Corner Fitting for use with LD10 and LDP10 Raceway. |
| Product Type     |               | Low Voltage Fittings                                       |
| Color            |               | Electric Ivory   |
| Fitting Type     |               | Inside Corner  |
| Product Size     |               | 10   |
| UOM              |               | PC   |
| Std. Pkg. Qty.   |               | 10   |
| Min. Order Qty   |               | 10   |

v.panduit.com/products/Products.asp?navigate=ItemDetails&paramsearch=yes&item=39,ICFC10EI-X,One+Inch+Bend...



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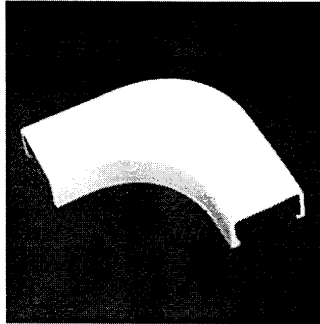
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**Product Information: Products**

- All Products | Surface Raceway | Non-Metallic Single Channel | Pan-Way LD Profile Non-Metallic Surface Raceway |
- One Inch Bend Radius Fittings for TIA/EIA Compliance

**Related Materials**

- FAQs
- Installation Instructions
- Part Drawings



All fittings for LD, LDP and LDS raceway comply with the 1" Bend Radius Control for TIA/EIA Compliance. This includes the inside and outside corner fittings, right angle, tee and right angle entrance end fittings.

- One inch bend radius fittings are designed to maintain the TIA/EIA 568-B and 569-B required minimum bend radius for high performance copper and fiber optic cabling systems

|                  |               |  |
|------------------|---------------|--|
| Part Number      | <b>CS-133</b> | RAFC10EI-X   |
| Product Family   |               | One Inch Bend Radius Fittings for TIA/EIA Compliance     |
| Part Description |               | Right Angle Fitting for use with LD10 and LDP10 Raceway. |
| Product Type     |               | Low Voltage Fittings                                     |
| Color            |               | Electric Ivory   |
| Fitting Type     |               | Right Angle  |
| Product Size     |               | 10   |
| UOM              |               | PC   |
| Std. Pkg. Qty.   |               | 10   |
| Min. Order Qty   |               | 10   |

[panduit.com/products/Products.asp?navigate=ItemDetails&paramsearch=yes&item=67,RAFC10EI-X,One+Inch+Ben...](http://panduit.com/products/Products.asp?navigate=ItemDetails&paramsearch=yes&item=67,RAFC10EI-X,One+Inch+Ben...)



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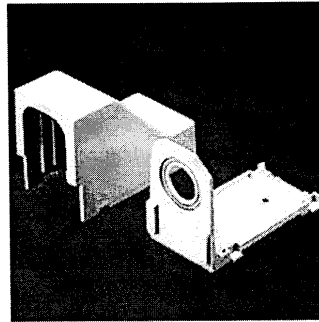
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- Warranties

**Product Information: Products**

- All Products | Surface Raceway | Non-Metallic Single Channel | Pan-Way LD Profile Non-Metallic Surface Raceway | One Inch Bend Radius Fittings for TIA/EIA Compliance

**Related Materials**

- FAQs
- Installation Instructions
- Part Drawings



All fittings for LD, LDP and LDS raceway comply with the 1" Bend Radius Control for TIA/EIA Compliance. This includes the inside and outside corner fittings, right angle, tee and right angle entrance end fittings.

- One inch bend radius fittings are designed to maintain the TIA/EIA 568-B and 569-B required minimum bend radius for high performance copper and fiber optic cabling systems

|                     |               |   |
|---------------------|---------------|---|
| Part Number         | <b>CS-134</b> | DCEFXEI-X   |
| Product Family      |               | One Inch Bend Radius Fittings for TIA/EIA Compliance  |
| Part Description    |               | Drop Ceiling/Entrance End Fitting for use with LD3, LDP3, LDS3, LD5, LDP5, LDS5, LD10, and LDP10 Raceway. Use CA3 or CA5 adapters for LD3 or LD5 Profile Raceway. |
| Product Type        |               | Power Rated Fittings  |
| Color               |               | Electric Ivory  |
| Fitting Type        |               | Drop Ceiling/Entrance End   |
| Bend Radius Control |               | No  |
| Product Size        |               | 10  |
| UOM                 |               | PC  |
| Std. Pkg. Qty.      |               | 10  |
| Min. Order Qty      |               | 10  |



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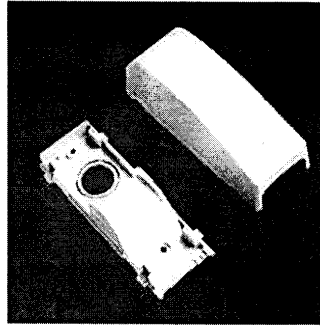
Strategic Alliance Program  
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Installers  
System Integrators  
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**Product Information: Products**

All Products | Surface Raceway | Non-Metallic Single Channel | Pan-Way LD Profile Non-Metallic Surface Raceway |  
**One Inch Bend Radius Fittings for TIA/EIA Compliance**

**Related Materials**

FAQs  
Installation Instructions  
Part Drawings



All fittings for LD, LDP and LDS raceway comply with the 1" Bend Radius Control for TIA/EIA Compliance. This includes the inside and outside corner fittings, right angle, tee and right angle entrance end fittings.

• One inch bend radius fittings are designed to maintain the TIA/EIA 568-B and 569-B required minimum bend radius for high performance copper and fiber optic cabling systems

|                     |               |   |
|---------------------|---------------|---|
| Part Number         | <b>CS-135</b> | RAEFXEI-X   |
| Product Family      |               | One Inch Bend Radius Fittings for TIA/EIA Compliance  |
| Part Description    |               | Right Angle/Entrance End Fitting for use with LD3, LDP3, LDS3, LD5, LDP5, LDS5, LD10, and LDP10 Raceways. CA3 or CA5 adapters for LD3 or LD5 Profile Raceway. |
| Product Type        |               | Power Rated Fittings  |
| Color               |               | Electric Ivory  |
| Fitting Type        |               | Right Angle Entrance End  |
| Bend Radius Control |               | Yes   |
| Product Size        |               | 10  |
| UOM                 |               | PC  |
| Std. Pkg. Qty.      |               | 10  |
| Min. Order Qty      |               | 10  |

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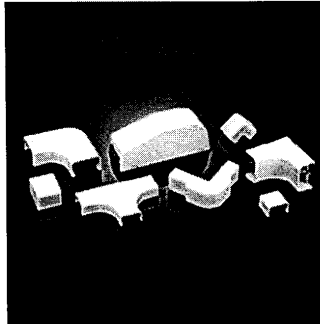
- Strategic Alliance Program
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- System Integrators
- Warranties

**Product Information: Products**

- All Products | Surface Raceway | Non-Metallic Single Channel | Pan-Way LD Profile Non-Metallic Surface Raceway | One Inch Bend Radius Fittings for TIA/EIA Compliance

**Related Materials**

- FAQs
- Installation Instructions
- Part Drawings



All fittings for LD, LDP and LDS raceway comply with the 1" Bend Radius Control for TIA/EIA Compliance. This includes the inside and outside corner fittings, right angle, tee and right angle entrance end fittings.

- One inch bend radius fittings are designed to maintain the TIA/EIA 568-B and 569-B required minimum bend radius for high performance copper and fiber optic cabling systems

|                  |               |   |
|------------------|---------------|---|
| Part Number      | <b>CS-136</b> | OCFX10EI-X  |
| Product Family   |               | One Inch Bend Radius Fittings for TIA/EIA Compliance          |
| Part Description |               | Outside Corner Fitting for use with LDP10 and LD2P10 Raceway. |
| Product Type     |               | Power Rated Fittings  |
| Color            |               | Electric Ivory  |
| Fitting Type     |               | Outside Corner  |
| Product Size     |               | 10  |
| UOM              |               | PC  |
| Std. Pkg. Qty.   |               | 10  |
| Min. Order Qty   |               | 10  |

.panduit.com/products/Products.asp?navigate=ItemDetails&paramsearch=yes&item=51,OCFX10EI-X,One+Inch+Ben...



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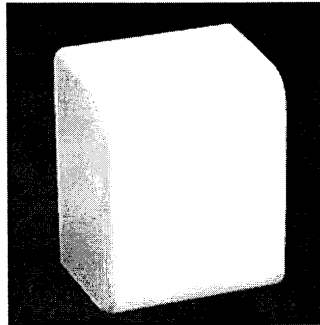
**Product Information: Products**  
All Products | Surface Raceway | Non-Metallic Single Channel | Pan-Way LD Profile Non-Metallic Surface Raceway |  
**One Inch Bend Radius Fittings for TIA/EIA Compliance**

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All fittings for LD, LDP and LDS raceway comply with the 1" Bend Radius Control for TIA/EIA Compliance. This includes the inside and outside corner fittings, right angle, tee and right angle entrance end fittings.

• One inch bend radius fittings are designed to maintain the TIA/EIA 568-B and 569-B required minimum bend radius for high performance copper and fiber optic cabling systems

|                     |               |  |
|---------------------|---------------|--|
| Part Number         | <b>CS-137</b> | ECFX10EI-X   |
| Product Family      |               | One Inch Bend Radius Fittings for TIA/EIA Compliance   |
| Part Description    |               | End Cap Fitting for use with LDP10 and LD2P10 Raceway. |
| Product Type        |               | Power Rated Fittings                                   |
| Color               |               | Electric Ivory   |
| Fitting Type        |               | End Cap  |
| Bend Radius Control |               | No   |
| Product Size        |               | 10   |
| UOM                 |               | PC   |
| Std. Pkg. Qty.      |               | 10   |

www.panduit.com/products/Products.asp?navigate=ItemDetails&paramsearch=yes&item=27,ECFX10EI-X,One+Inch+Bend



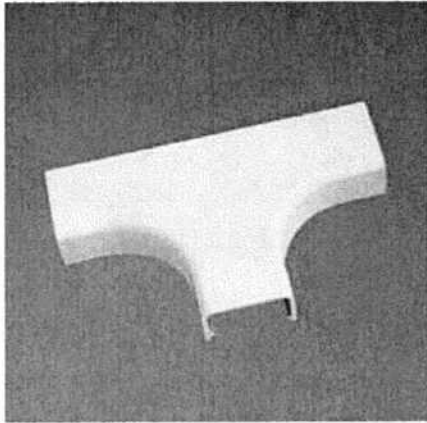
Regular View

Current refinements (click  to remove)

Search Tips

Region **USA**  Product Family **One Inch Bend Radius Fittings for TIA/EIA Compliance**  Text Search: 'TFC10EI'

Your search criteria matched only one product, shown below.



All fittings for LD, LDP and LDS Raceway comply with the 1" Bend Radius Control for TIA/EIA Compliance. This includes the inside and outside corner fittings, right angle, tee and right angle entrance end fittings.

- One inch bend radius fittings are designed to maintain the TIA/EIA-568-B and 569-B required minimum bend radius for high performance copper and fiber optic cabling systems

**CS-138**

Part Number: TFC10EI-X

RoHS Compliancy Status: Compliant

Part Description: Tee fitting for use with LD10 and LDPH10 raceway.

Product Type: Low Voltage Fittings

Color: Electric Ivory

Fitting Type: Tee

Product Size: 10

Min. Order UOM: PC

Min. Order Qty.: 10

BOM Qty. (# of Pkgs.)

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**Part Drawings:**

Tee Fitting for use with LD10 and LDPH...

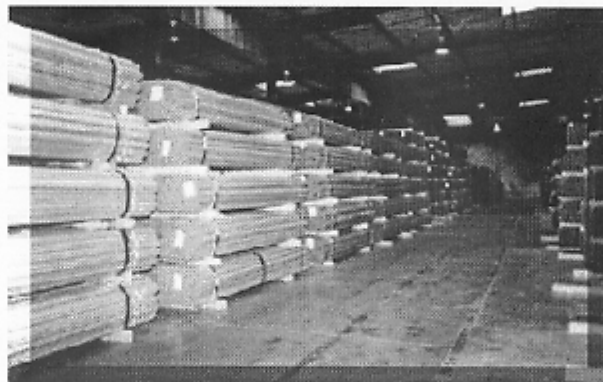
Tee Fitting for use with LD10 and LDPH...

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# ELECTRICAL METALLIC TUBING

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Electrical metallic tubing (EMT) is an electrical raceway, intended to be used with appropriate fittings for the routing of electrical conductors between electrical enclosures or equipment enclosures, in accordance with the National Electric Code (NEC). EMT is sometimes referred to as "thin-wall conduit".



Western EMT is high frequency welded from the highest quality strip steel. A continuous hot galvanized process is used to coat exterior surfaces evenly and smoothly. A special clear secondary coating applied after galvanizing provides added corrosion protection.

Western EMT provides uniformity of weight, wall thickness, O.D. and I.D. concentricity, ductility and maximum strength.

Quality Controlled each step of the way - Regular tests for weld strength, Malleability, plating thickness and uniform smoothness of interior coating provides you with conduit of highest quality.... Western E.M.T.

Western EMT buys only the most consistent quality of steel for the easiest bending quality. Perfect bends and offsets can be made quickly with lightweight easy to handle Western EMT.

Westerns new in-line coating provides smooth trouble free wire pulling. Westerns new process meets all AQMD

Westerns combination of O.D. galvanizing and clear coat make the appearance shiny and clean with no markings for a better looking raceway.

- \***Compatible with all types of building materials.**
- \***Provides a lifetime of safe electrical installations.**
- \***Low in cost - strong, durable.**

## ARCHITECTS HOT ZINC COATED CONDUIT SPECIFICATIONS

**Western EMT is manufactured in accordance with the following:**

- **C80.3** - American National Standards Institute
- **UL 797** - Underwriters Laboratories Standard
- **Article 348** - National Electric Code
- **WW-C-563A** - Federal Specification
- **Article 250-91b** - NEC equipment grounding conductor.
- **RN2-1987** - Master Bundles conform to NEMA Standard.

**\*The Federal Government has adopted the UL Standard and will no longer maintain a separate Standard.**

## WEIGHTS DIMENSIONS AND STANDARD PACKAGING

| SIZE      | APPROX. WT PER 1000 FT. | DIAMETER INSIDE | DIAMETER OUTSIDE | WALL THICKNESS | FEET PER UNIT BUNDLE | FEET PER STANDARD LIFT | WEIGHT PER STANDARD LIFT |
|-----------|-------------------------|-----------------|------------------|----------------|----------------------|------------------------|--------------------------|
| 1/2"      | 295 lbs.                | 0.622           | 0.706            | 0.042          | 100                  | 7000                   | 2065                     |
| 3/4"      | 445 lbs.                | 0.824           | 0.922            | 0.049          | 100                  | 5000                   | 2225                     |
| CS-139 1" | 650 lbs.                | 1.049           | 1.163            | 0.057          | 100                  | 3000                   | 1950                     |
| 1 1/4"    | 960 lbs.                | 1.380           | 1.510            | 0.065          | 50                   | 2000                   | 1920                     |
| 1 1/2"    | 1110 lbs.               | 1.610           | 1.740            | 0.065          | 50                   | 1500                   | 1665                     |
| CS-140 2" | 1410 lbs.               | 2.067           | 2.197            | 0.065          | 30                   | 1200                   | 1692                     |
| 2 1/2"    | 2300 lbs.               | 2.731           | 2.875            | 0.072          | 1                    | 610                    | 1403                     |
| CS-141 3" | 2700 lbs.               | 3.356           | 3.500            | 0.072          | 1                    | 510                    | 1377                     |
| 3 1/2"    | 3260 lbs.               | 3.834           | 4.000            | 0.083          | 1                    | 370                    | 1206                     |
| CS-142 4" | 4000 lbs.               | 4.334           | 4.500            | 0.083          | 1                    | 300                    | 1200                     |
|           |                         |                 |                  |                |                      |                        |                          |

AMPLE STOCK MAINTAINED AT ALL TIMES FOR PROMPT MILL SHIPMENT.

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## **CORING/SLEEVES**

**CS-143 1" Coring, EMT, ea**

**CS-144 2" Coring, EMT, ea**

**CS-145 3" Coring, EMT, ea**

**CS-146 4" Coring, EMT, ea**

Material and labor to core and sleeve a reinforced concrete wall or floor. All coring are for 6" increments for the various sizes of EMT conduit. For coring through walls that are 12" or 18" wide, the line item is multiplied by either 2 or 3 (as appropriate). A 3' section of the appropriately sized conduit is included with the coring. This price does not include the cost to identify any structural requirements before coring. The State will be responsible for identifying the exact location of the core. The State will be responsible for any cost to correct any damage the building structure as a result of erroneous information provided by the State.

**CS-147 4" Sleeves, including coring, ea**

For applications where the conduit being installed is continuous through a BET, IDF, or MDF. One unit of this item includes one core and 10' of EMT conduit. This price does not include the cost to identify any structural requirements before coring. The State will be responsible for identifying the exact location of the core. The State will be responsible for any cost to correct any damage the building structure as a result of erroneous information provided by the State.



# Fire Barrier Moldable Putty+

## Product Data



### 1. Product Description:

3M™ Fire Barrier Moldable Putty+ consists of a synthetic elastomer designed for use as a one part, intumescent fire resistive putty used to restore the integrity of fire rated building construction. Up to a four hour fire rating is achieved when tested in accordance with the time/temperature curves and water hose stream tests of UL 1479 and ASTM E 814. This is achieved by the unique intumescent (expanding when heated) and high strength insulating char-forming properties of this material. 3M Moldable Putty+ Stix MPS-2 are approximately 1.6 inches (40,6 mm) in diameter by 11 inches (279 mm) in length. Moldable Putty+ Pads MPP-1+ are 4 x 8 x 1/8 inches (102 mm x 203 mm x 3,2 mm) and MPP-4S+ are 7 x 7 x 1/8 inches (178 mm x 178mm x 3,2 mm), MPP-5S+ are 9.5 x 9.5 x 1/8 inches (241,3 mm x 241,3 mm x 3,2 mm) approximate dimensions.

### Features:

- Halogen-free formula: Free from corrosive gases during a fire, making it safe for building occupants and sensitive electrical equipment.
- Minimal odor.
- Long shelf-life: Stix and pad packages can be sealed for reuse. Putty will not dry out or crumble.
- Easily re-enterable.
- Provides a draft and cold smoke seal in the installed condition, even before any temperature rise occurs, resultant from a fire.
- Adheres to all common building surfaces (cement, gypsum, wood and plastic), including metal and plastic electrical boxes.
- One part, solventless pads or stix are easily hand molded, with no damming required (this applies to non-insulated metal pipe/conduit), allowing for easy application.

- Intumescent: expands when heated, forming a hard char, preventing the transmission of hot gases and fire.
- Designed to meet the intent of NEC 300-21 (NFPA 70). ICBO, SBCCI and BOCA Building Codes.
- No special tools required.
- Contains no asbestos, non-toxic.

### 2. Applications:

Used to seal construction gaps, cable (including fiber optic inner duct and cable), insulated pipe, electrical conduit, and metal pipe, penetrations against air draft, smoke, noxious gas and flame propagation. Maximum metal pipe size is 10 inches in diameter according to UL system 202.

### 3. Physical Properties:

|   | Value                            |
|---|----------------------------------|
| Color                                       | Red-Brown                        |
| Density                                     | 8-11 (.95 - 1.35) lbs/gal (Kg/l) |
| Weight                                      |                                  |
| 4 in. x 8 in. Pad (102 mm x 203 mm)         | 2.7 oz (76 g)                    |
| 7 in. x 7 in. Pad (178 mm x 178 mm)         | 4.1 oz (115 g)                   |
| 9.5 in. x 9.5 in. Pad (241,3 mm x 241,3 mm) | 7.6 oz (215 g)                   |
| 1.6 in. x 11 in. Stix (40,6 mm x 279 mm)    | 20 oz (567 g)                    |

### 4. Specifications:

The Fire Barrier Moldable Putty+ shall be a one part, intumescent elastomer. Under normal environmental conditions, the material shall be noncorrosive to metal and compatible with synthetic cable jackets. When exposed to flame or heat it shall be capable of expanding and comply with paragraph 300-21 of N.E.C. (NFPA 70) and meet the requirements of UL 1479, ASTM E 814.

### 5. Performance:

#### Properties (Typical Values)

|                 | Units          | Value                  |
|-----------------|----------------|------------------------|
| Adhesion        | All substrates | Good                   |
| Fire Resistance | Hours          | 1-4 (system dependent) |

#### Heat Expansion:

|                |                 |
|----------------|-----------------|
| Begins         | 225°F (107°C)   |
| Significant    | 350°F (177°C)   |
| Free Expansion | Nominal 3 times |

| Test Condition   | Temperature  | Humidity   | Time    | Nominal Expansion |
|------------------|--------------|------------|---------|-------------------|
| Oven             | 176°F (80°C) | ----       | 90 days | 2.7 Times         |
| Humidity Chamber | 90°F (32°C)  | 90 Percent | 90 days | 2.6 Times         |

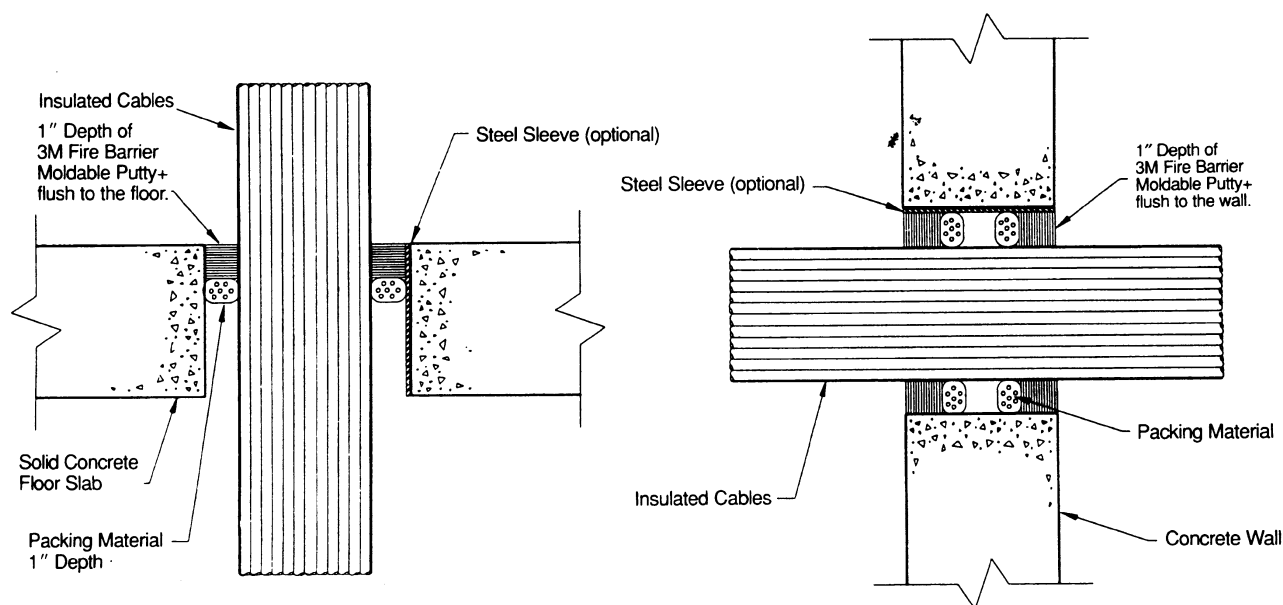
## Physical Properties

| A. Product |         | Dimensions   | Volume               |
|------------|---------|--|----------------------|
| CS-148     | MP Stix | 1.6" x 11"<br>(40,6 mm x 279 mm)                     | 21.2 in <sup>3</sup> |
|            | MP Pads | 1/8" x 4" x 8"<br>(3,2 mm x 102 mm x 203 mm)         | 4 in <sup>3</sup>    |
|            |         | 1/8" x 7" x 7"<br>(3,2 mm x 178 mm x 178 mm)         | 6.12 in <sup>3</sup> |
|            |         | 1/8" x 9.5" x 9.5"<br>(3,2 mm x 241,3 mm x 241,3 mm) | 11.3 in <sup>3</sup> |

## 6. Installation Techniques:

Shown below is an example of one of the UL classified firestop systems using 3M Fire Barrier Moldable Putty+. Drawings for other tested firestop systems are available.

### Insulated Cables/Moldable Putty Penetration Seal/Concrete



### Notes:

1. For concrete/concrete block walls, install 3M Fire Barrier Moldable Putty+ on both sides of wall.
2. Recommendations based on product performance per ASTM E 814 (UL 1479) Fire Test and UL System CAJ 3021.
3. Cable types covered include: telephone, power/control, or fiber optic.
4. Firestop system rating up to 3 hr. F.
5. There are other UL classification listings and configurations not described in this data sheet. For specific information consult current Underwriters Laboratories, Inc. *Fire Resistance Directory*.





- ▶ Backbone or Patch Cable
- ▶ Voice Support
- ▶ Plenum and Rated Riser



www.berktek.com  
1-800-237-5835

Berk-Tek's Category 3 UTP Power Sum cables are designed for use in voice applications. These cables are used to support building backbone service. They also can be used for interconnecting satellite wiring closets.

**CONSTRUCTION**

0.51 mm (24 AWG), bare copper wire insulated with thermoplastic. Three layer core construction jacketed in flame-retardant PVC.

**STANDARDS**

European EN 50173  
North American ANSI/TIA/EIA-568-B.2

**FLAME RATING**

Non-plenum—UL 1666, CMR, CMG, IEC 332-1  
Plenum—NFPA 262, CMP

**APPLICATIONS**

Berk-Tek's Multi-Pair Category 3 UTP Power Sum Backbone cables are intended for data and voice applications including:

Ethernet 10BASE-T  
Token Ring 4 Mb/s  
Voice

**FEATURES**

- ▶ UL verified ANSI/TIA/EIA-568-B.2 Category 3 Backbone Cable
- ▶ Supports 10BASE-T, Token Ring and Voice
- ▶ Ideally suited for backbone, cross-connect and pre-connectorized assemblies

**BENEFITS**

- ▶ Assurance that every link will meet the most demanding transmission requirements
- ▶ Reduced cable routing time allowing for lower cost of installation and testing
- ▶ Simplified structured cabling solution preserving long-term network investment

**TEMPERATURE RATING**

|              |                  |
|--------------|------------------|
| INSTALLATION | 0 °C to +50 °C   |
| OPERATION    | -10 °C to +60 °C |

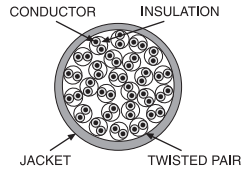
**COLOR CODE**

|         |               |               |
|---------|---------------|---------------|
| PAIR 1  | White/Blue    | Blue/White    |
| PAIR 2  | White/Orange  | Orange/White  |
| PAIR 3  | White/Green   | Green/White   |
| PAIR 4  | White/Brown   | Brown/White   |
| PAIR 5  | White/Gray    | Gray/White    |
| PAIR 6  | Red/Blue      | Blue/Red      |
| PAIR 7  | Red/Orange    | Orange/Red    |
| PAIR 8  | Red/Green     | Green/Red     |
| PAIR 9  | Red/Brown     | Brown/Red     |
| PAIR 10 | Red/Gray      | Gray/Red      |
| PAIR 11 | Black/Blue    | Blue/Black    |
| PAIR 12 | Black/Orange  | Orange/Black  |
| PAIR 13 | Black/Green   | Green/Black   |
| PAIR 14 | Black/Brown   | Brown/Black   |
| PAIR 15 | Black/Gray    | Gray/Black    |
| PAIR 16 | Yellow/Blue   | Blue/Yellow   |
| PAIR 17 | Yellow/Orange | Orange/Yellow |
| PAIR 18 | Yellow/Green  | Green/Yellow  |
| PAIR 19 | Yellow/Brown  | Brown/Yellow  |
| PAIR 20 | Yellow/Gray   | Gray/Yellow   |
| PAIR 21 | Violet/Blue   | Blue/Violet   |
| PAIR 22 | Violet/Orange | Orange/Violet |
| PAIR 23 | Violet/Green  | Green/Violet  |
| PAIR 24 | Violet/Brown  | Brown/Violet  |
| PAIR 25 | Violet/Gray   | Gray/Violet   |

**TECHNICAL DATA—ELECTRICAL**

| FREQUENCY | INSERTION LOSS (ATTENUATION) | SRL  | PS-NEXT |
|-----------|------------------------------|------|---------|
| MHz       | dB/100 m                     | dB   | dB      |
|           | MAX.                         | MIN. | MIN.    |
| 1         | 2.6                          | 12.0 | 41.3    |
| 4         | 5.6                          | 12.0 | 32.3    |
| 10        | 9.8                          | 12.0 | 26.3    |
| 16        | 13.1                         | 10.0 | 23.3    |





- ▶ Backbone or Patch Cable
- ▶ Voice Support
- ▶ Plenum and Rated Riser



www.berktek.com  
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TECHNICAL DATA—PHYSICAL

|                                       | 25 PR (CMR) | 25 PR (CMP) | 50 PR (CMR) | 50 PR (CMP)  | 100 PR (CMR) | 100 PR (CMP) |
|---------------------------------------|-------------|-------------|-------------|--------------|--------------|--------------|
| Mutual Capacitance, nF/100 m nom.     | 6.6         | 6.6         | 6.6         | 6.6          | 6.6          | 6.6          |
| DC Resistance, Ohms/100 m max.        | 9.4         | 9.4         | 9.4         | 9.4          | 9.4          | 9.4          |
| Conductor diameter—in. (mm)           | 0.02 (0.51) | 0.02 (0.51) | 0.02 (0.51) | 0.02 (0.51)  | 0.02 (0.51)  | 0.02 (0.51)  |
| Cable diameter—in. (mm)               | .390 (9.9)  | .382 (9.7)  | .525 (13.3) | .496 (12.59) | .895 (22.72) | .889 (22.57) |
| Nominal cable weight lb/k ft. (kg/km) | 97 (144)    | 100 (148)   | 196 (290)   | 198 (293)    | 387 (573)    | 395 (585)    |

|                                       | 200 PR (CMR)  | 200 PR (CMP)  | 300 PR (CMR)  | 300 PR (CMP) |
|---------------------------------------|---------------|---------------|---------------|--------------|
| Mutual Capacitance, nF/100 m nom.     | 6.6           | 6.6           | 6.6           | 6.6          |
| DC Resistance, Ohms/100 m max.        | 9.4           | 9.4           | 9.4           | 9.4          |
| Conductor diameter—in. (mm)           | 0.02 (0.51)   | 0.02 (0.51)   | 0.02 (0.51)   | 0.02 (0.51)  |
| Cable diameter—in. (mm)               | 1.123 (28.51) | 1.012 (25.69) | 1.314 (33.36) | 1.27 (32.25) |
| Nominal cable weight lb/k ft. (kg/km) | 691 (1023)    | 691 (1023)    | 1226 (1814)   | 1226 (1814)  |

PART NUMBERS—CATEGORY 3 POWER SUM CABLE

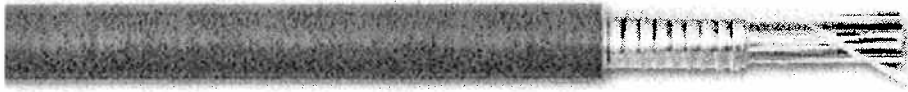
| NO. PAIRS | PART NUMBER | SHEATH | FLAME RATING | JACKET COLOR |
|-----------|-------------|--------|--------------|--------------|
| 25        | 10032036    | PVC    | CMP          | Blue         |
| 25        | 10032396    | PVC    | CMR          | Gray         |
| 25        | 10032111    | PVC    | CMP          | Gray         |
| 50        | 10032471    | PVC    | CMR          | Gray         |
| 50        | 10032112    | PVC    | CMP          | Gray         |
| 100       | 10032472    | PVC    | CMR          | Gray         |
| 100       | 10032113    | PVC    | CMP          | Gray         |
| 200       | 10032493    | PVC    | CMR          | Gray         |
| 200       | 10032123    | PVC    | CMP          | Gray         |
| 300       | 10032494    | PVC    | CMR          | Gray         |
| 300       | 10032124    | PVC    | CMP          | Gray         |

CS-149  
CS-152  
CS-150  
CS-153  
CS-151  
CS-154

Note: Standard Lengths: 1,000 feet (305 meters). Bulk lengths available. Specifications subject to change without notice.



# AR Series Riser Cable - ARAM/ARMM



## Product Description

The AR series riser cables are intended for vertical and horizontal distribution in commercial buildings and meet Category 3 electrical specifications. This includes all applications except those in plenums. These cables have a fire-retardant PVC jacket and have been listed as CMR rated in accordance with the National Electrical Code. AR cables are color coded to match standard outside plant cable designs. The cable consists of solid soft bare copper insulated with foam polyethylene and a skin of PVC. Cores through 900 pair are color coded to match the standard PIC color code. Cables 1200 pair and larger have a "Mirror Image" color code. Spare pairs are offered in cables of 1200 pair and larger. An ALVYN sheath is applied overall. The ALVYN sheath consists of a 8-mil aluminum tape applied longitudinally and bonded to an outer gray PVC jacket.

## Applications

- Riser shafts without using conduits
- 4 Mbps Token Ring™
- Analog Voice
- 10 BaseT Ethernet

PREMISES COPPER

## Part Numbers and Physical Characteristics

| Part #      | Pair Count | AWG (mm) | Jacket Color | Nom. Dia.<br>in (mm) | Approx. Weight<br>lbs/kft (kg/km) | Package       |
|-------------|------------|----------|--------------|----------------------|-----------------------------------|---------------|
| <b>ARAM</b> |            |          |              |                      |                                   |               |
| 02-062-03   | 25         | 22 (0.6) | gray         | 0.61 (16)            | 205 (305)                         | Cut to Length |
| 02-065-03   | 50         | 22 (0.6) | gray         | 0.78 (20)            | 350 (521)                         | Cut to Length |
| 02-069-03   | 100        | 22 (0.6) | gray         | 1.05 (27)            | 648 (964)                         | Cut to Length |
| 02-073-03   | 200        | 22 (0.6) | gray         | 1.41 (36)            | 1183 (1761)                       | Cut to Length |
| 02-075-03   | 300        | 22 (0.6) | gray         | 1.68 (43)            | 1704 (2536)                       | Cut to Length |
| 02-077-03   | 400        | 22 (0.6) | gray         | 1.93 (49)            | 2189 (3258)                       | Cut to Length |
| 02-081-03   | 600        | 22 (0.6) | gray         | 2.31 (59)            | 3207 (4773)                       | Cut to Length |
| <b>ARMM</b> |            |          |              |                      |                                   |               |
| 02-097-03   | 25         | 24 (0.5) | gray         | 0.52 (13)            | 149 (222)                         | Cut to Length |
| 02-100-03   | 50         | 24 (0.5) | gray         | 0.65 (17)            | 245 (365)                         | Cut to Length |
| 02-104-03   | 100        | 24 (0.5) | gray         | 0.84 (21)            | 424 (631)                         | Cut to Length |
| 02-106-03   | 150        | 24 (0.5) | gray         | 1.03 (26)            | 624 (929)                         | Cut to Length |
| 02-108-03   | 200        | 24 (0.5) | gray         | 1.15 (29)            | 796 (1185)                        | Cut to Length |
| 02-110-03   | 300        | 24 (0.5) | gray         | 1.37 (35)            | 1137 (1692)                       | Cut to Length |
| 02-112-03   | 400        | 24 (0.5) | gray         | 1.53 (39)            | 1418 (2110)                       | Cut to Length |
| 02-116-03   | 600        | 24 (0.5) | gray         | 1.87 (48)            | 2121 (3157)                       | Cut to Length |
| 02-118-03   | 900        | 24 (0.5) | gray         | 2.22 (56)            | 3080 (4584)                       | Cut to Length |
| 02-120-03   | 1200       | 24 (0.5) | gray         | 2.52 (64)            | 4036 (6006)                       | Cut to Length |
| 02-121-03   | 1500       | 24 (0.5) | gray         | 2.82 (72)            | 5046 (7510)                       | Cut to Length |
| 02-124-03   | 1800       | 24 (0.5) | gray         | 3.07 (78)            | 5995 (8922)                       | Cut to Length |
| 02-125-03   | 2100       | 24 (0.5) | gray         | 3.33 (85)            | 6952 (10346)                      | Cut to Length |

- CS-155
- CS-156
- CS-157
- CS-158
- CS-159
- CS-160
- CS-161
- CS-162
- CS-163

# Specifications *AR Series Riser Cable - ARAM/ARMM*

## Physical Description

- Conductor: 22 and 24 AWG (0.64 mm, 0.5 mm) Solid Annealed Bare Copper • Insulation: Foam-Skin Polyolefin, PVC (Polyvinyl Chloride)
- Jacket: Tough, Flame Retardant, weather and abrasion resistant PVC (Polyvinyl Chloride)
- Shield: 8 mil Aluminum Tape

## Electrical

| Frequency MHz | Max Attenuation (dB/100m) @ 20°C     | Min PS NEXT (dB/100m)                | Min SRL (dB/100m)                    |
|---------------|--------------------------------------|--------------------------------------|--------------------------------------|
|               | <b>Superior Essex<br/>Guaranteed</b> | <b>Superior Essex<br/>Guaranteed</b> | <b>Superior Essex<br/>Guaranteed</b> |
| 0.772         | 2.2                                  | 43                                   | -1                                   |
| 1             | 2.6                                  | 41                                   | 12                                   |
| 4             | 5.6                                  | 32                                   | 12                                   |
| 8             | 8.5                                  | 27                                   | 12                                   |
| 10            | 9.7                                  | 26                                   | 12                                   |
| 16            | 13.1                                 | 23                                   | 10                                   |

## Electrical (Per Bellcore GR-111, Standard Riser Cable)

| Frequency MHz | Min PS-ELFEXT-Mean (dB/kft) | Min PS-ELFEXT-Worst Pair (dB/kft) | Min PS NEXT-Mean (dB/kft) | Min PS NEXT-Worst Pair (dB/kft) |
|---------------|-----------------------------|-----------------------------------|---------------------------|---------------------------------|
| 0.15          | 63                          | 57                                | 58                        | 53                              |
| 0.772         | 49                          | 43                                | 47                        | 42                              |
| 1.6           | 43                          | 37                                | 43                        | 38                              |
| 3.15          | 37                          | 31                                | 38                        | 33                              |
| 6.3           | 31                          | 25                                | 34                        | 29                              |

## Characteristics

## Units of Measure

|                                       |                             |
|---------------------------------------|-----------------------------|
| <b>Mutual Capacitance</b>             | nF/mile (nF/km)             |
| Average                               | 83, +4, -5 (51.6,+2.4,-3.1) |
| Max Individual                        | 92 (57)                     |
| <b>Capacitance Unbalance</b>          | pF/kft (pF/km)              |
| Maximum RMS                           | 25 (45)                     |
| Maximum Individual                    | 80 (145)                    |
| <b>Insulation Resistance</b>          | Gigohm/mile (Gigohm/km)     |
| Minimum Individual                    | 1.0 (1.6)                   |
| <b>High Voltage Test</b>              | DC Voltage                  |
| Conductor to Conductor                | 1500                        |
| Conductor to Shield                   | 5000                        |
| <b>DC Conductor Resistance @ 20°C</b> | Ohms/mile (Ohms/km)         |
| Maximum Individual (22 AWG)           | 91.0 (56.5)                 |
| Maximum Individual (24 AWG)           | 144.0 (89.5)                |
| <b>Attenuation @ 20°C</b>             | dB/kft (dB/km) @ 772 kHz    |
| Maximum Worst Pair (22 AWG)           | 5.1 (16.7)                  |
| Maximum Worst Pair (24 AWG)           | 6.3 (20.7)                  |

| Impedance (Ohms)<br>guaranteed | Delay Skew (ns/100m)<br>Maximum | Velocity of Propagation (%)<br>Maximum | Resistance Unbalance (%)<br>Max Avg |
|--------------------------------|---------------------------------|--|-------------------------------------|
| 100+/-15                       | 45                              | 60                                     | 5                                   |

### Standards Compliance:

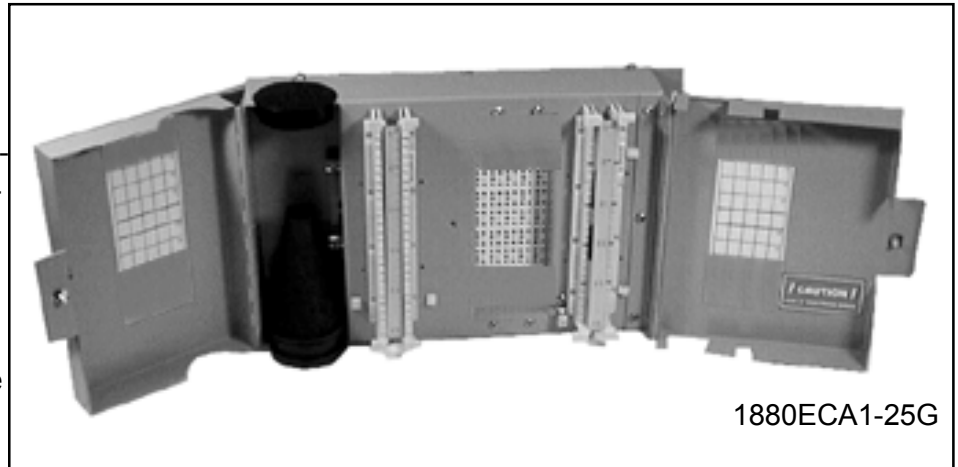
UL 444, UL 1666, ANSI/TIA/EIA 568-B.2, Listed as CMR, Telcordia GR-111, Category 3

SOLID ANNEALED BARE COPPER



## Features & Benefits

- 110 connector input and output
- protects up to 25 lines, also available in 50 pair (1880ECA1-50G) and 100 pair (1880ECA1-100G) configuration
- wall or frame mountable
- designed with an internal splice chamber and cover over incoming and outgoing connections and protection modules



- equipped with an internal fuse link
- stackable to allow for future service expansion
- external ground connectors accept 6-14 AWG ground wire
- accommodates industry standard 5 pin protection modules
- designed to exceed the requirements set forth in Underwriters Laboratory's UL497

## 1880ECA1-25G Ordering Information

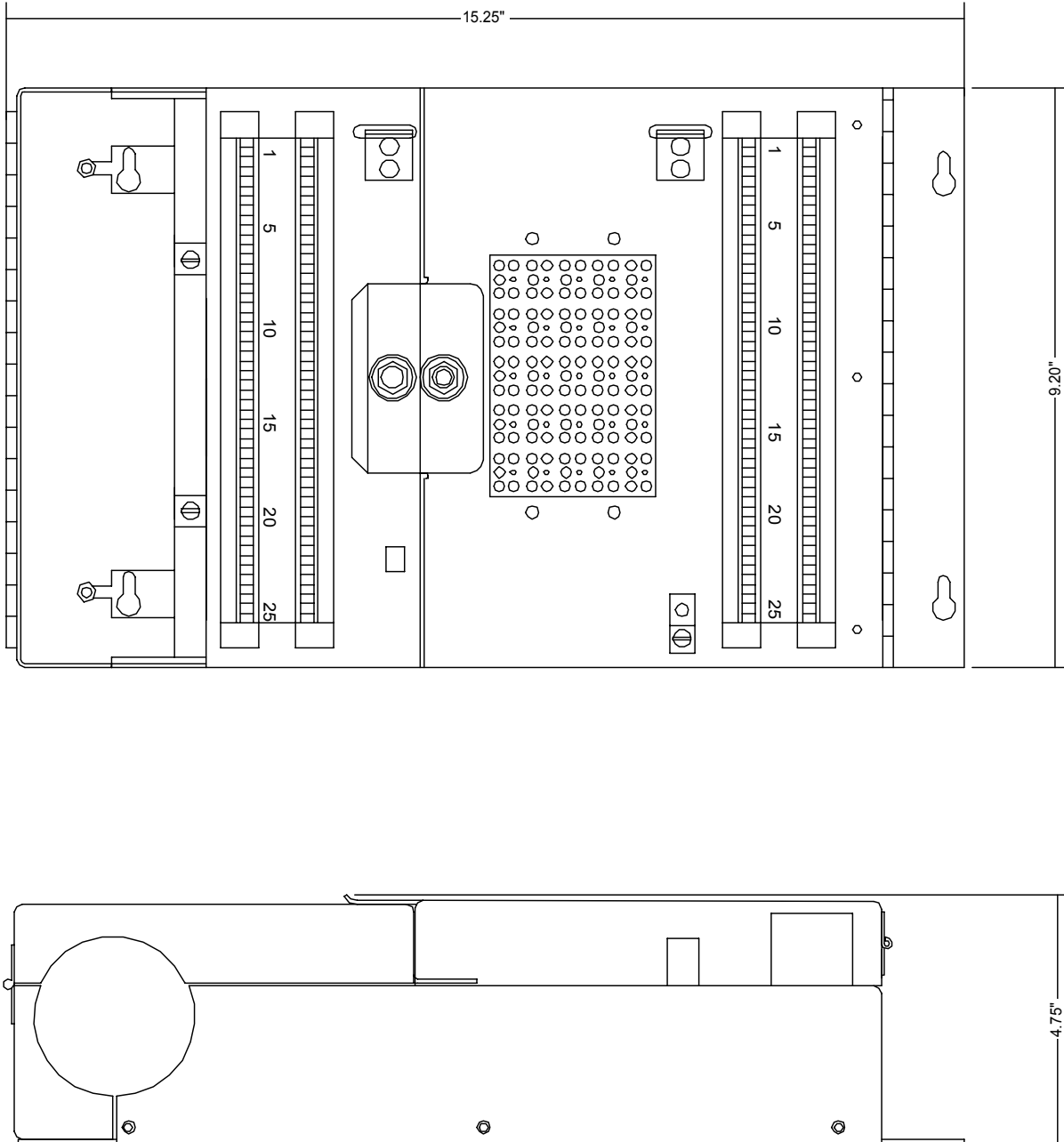
| Model No.           | Order No. | Pair Count | Input         | Output        | Dimensions (H" x W" x D") | Weight (lbs) |
|---------------------|-----------|------------|---------------|---------------|---------------------------|--------------|
| CS-164 1880ECA1-25G | 304004    | 25         | 110 connector | 110 connector | 9.2 x 15.25 x 4.75        | 14           |

Note: Protection modules ordered separately.



# Building Entrance Terminals (Indoor)

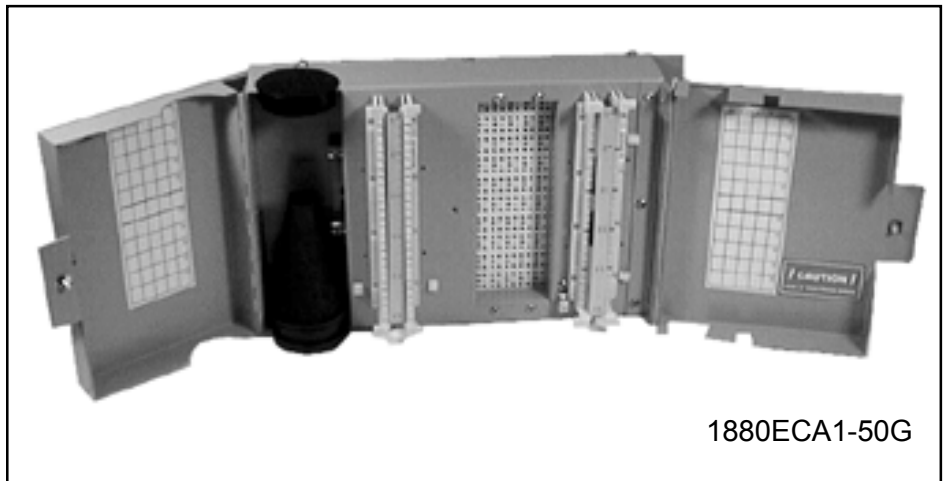
1880ECA1-25G





## Features & Benefits

- 110 connector input and output
- protects up to 50 lines, also available in 25 pair (1880ECA1-25G) and 100 pair (1880ECA1-100G) configuration
- wall or frame mountable
- designed with an internal splice chamber and cover over incoming and outgoing connections and protection modules
- stackable to allow for future service expansion
- equipped with an internal fuse link
- external ground connectors accept 6-14 AWG ground wire
- accommodates industry standard 5 pin protection modules
- designed to exceed the requirements set forth in Underwriters Laboratory's UL497



## 1880ECA1-50G Ordering Information

| Model No.           | Order No. | Pair Count | Input         | Output        | Dimensions (H" x W" x D") | Weight (lbs) |
|---------------------|-----------|------------|---------------|---------------|---------------------------|--------------|
| CS-165 1880ECA1-50G | 316016    | 50         | 110 connector | 110 connector | 9.2 x 15.25 x 4.75        | 15           |

Note: Protection modules ordered separately.

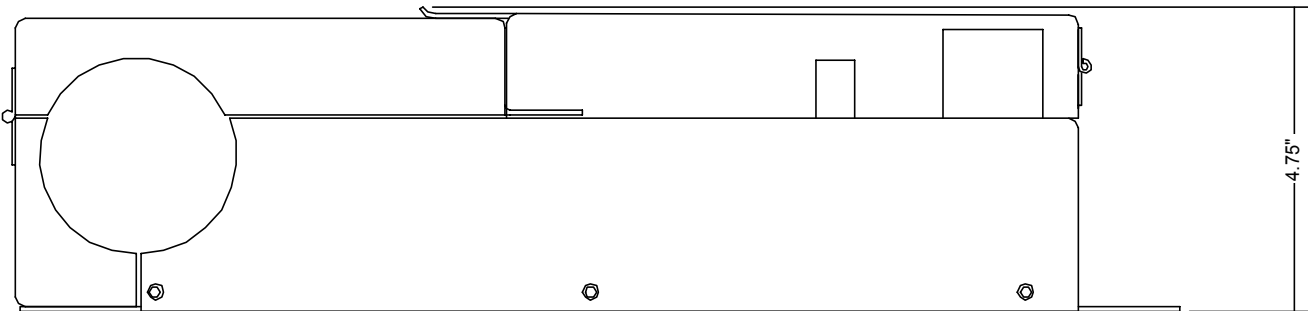
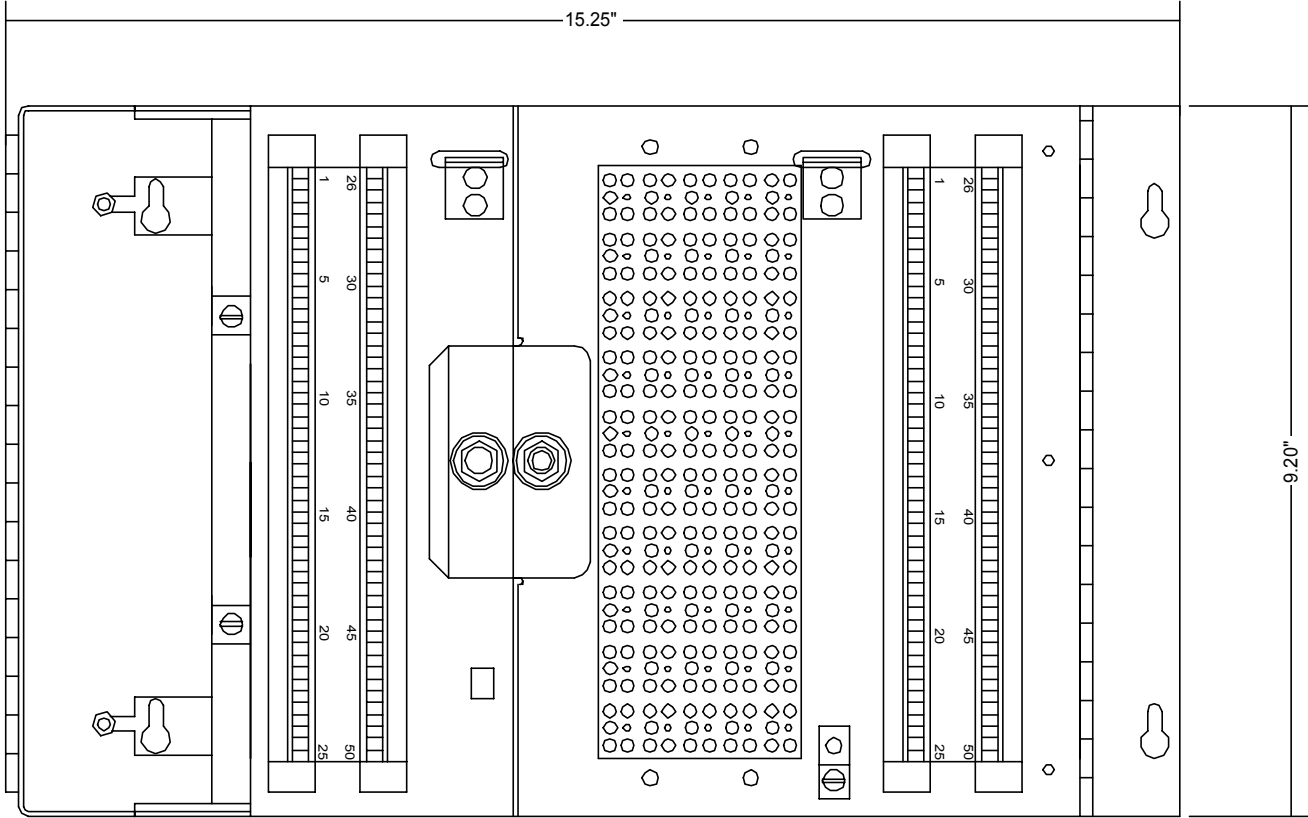


# Building Entrance Terminals (Indoor)

1880ECA1-50G



110







## Features & Benefits

- 110 connector input and output
- protects up to 100 lines, also available in 25 pair (1880ECA1-25G) and 50 pair (1880ECA1-50G) configuration
- wall or frame mountable
- designed with an internal splice chamber and cover over incoming and outgoing connections and protection modules
- stackable to allow for future service expansion
- external three position ground connectors accept 6-14 AWG ground wire



1880ECA1-100G  
PREVIOUSLY 1880ENA110-100

- equipped with an internal fuse link
- accommodates industry standard 5 pin protection modules
- designed to exceed the requirements set forth in Underwriters Laboratory's UL497

## 1880ECA1-100G

### Ordering Information

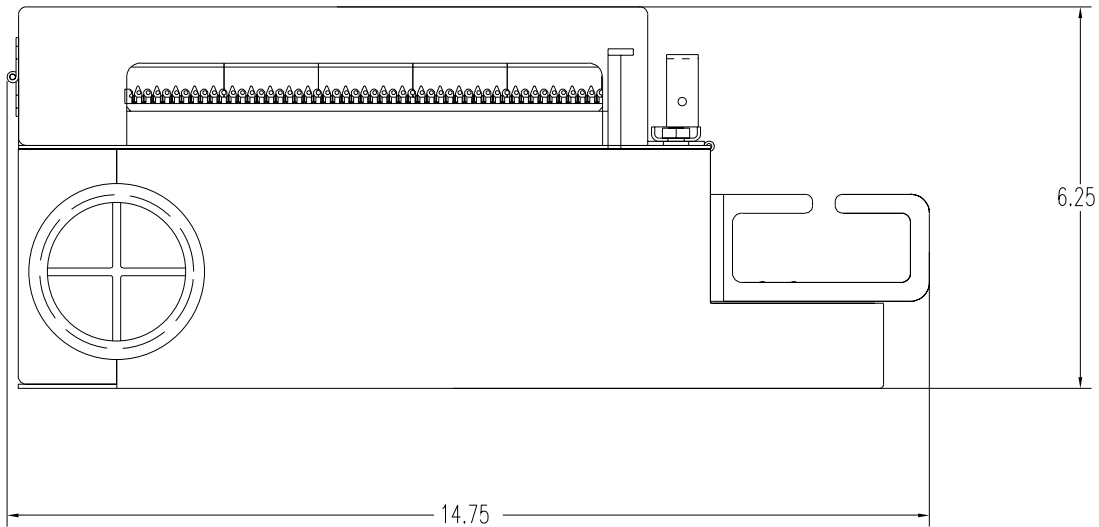
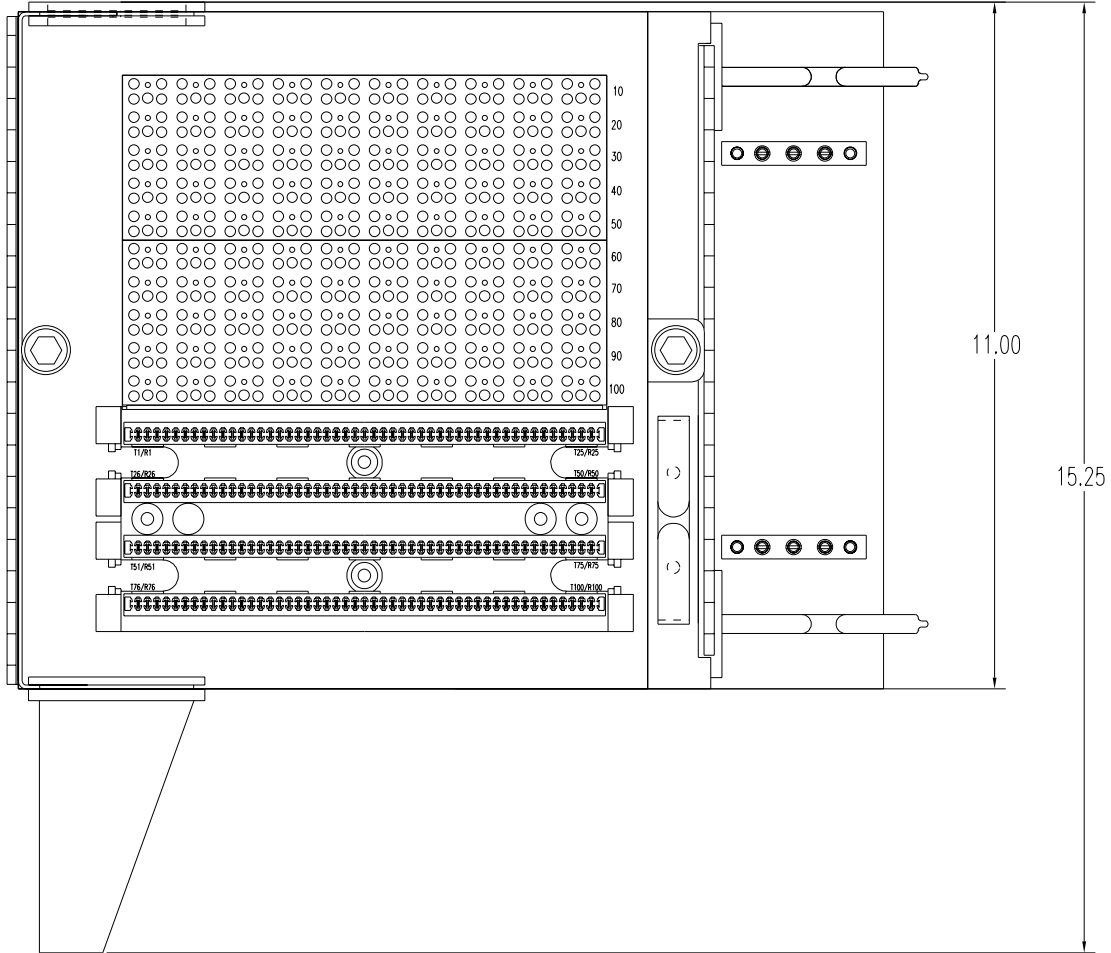
| Model No.            | Order No. | Pair Count | Input         | Output        | Dimensions (H" x W" x D") | Weight (lbs) |
|----------------------|-----------|------------|---------------|---------------|---------------------------|--------------|
| CS-166 1880ECA1-100G | 329029    | 100        | 110 connector | 110 connector | 10.75 x 14.5 x 6.25       | 15           |

Note: Protection modules ordered separately.

1880ECA1-100G



110



# Surge Protection Modules Solid State - Premium Series



## C3B1S-BAL, C3B1FS-BAL, C4B1S-BAL(PTC) & C4B1FS-BAL(PTC) Series

Balanced Operation



### Description:

The C3B1S-BAL & C3B1FS-BAL premium series of 5 pin solid state protector modules are designed to provide superior transient and power fault protection for most standard telephone line applications. The balanced configuration provides the best protection against line to line metallic surges where the transient on one side slightly lags the other. The characteristics of the solid state protector are far superior to gas tube technology in speed of response to faults and are virtually immune to overshoot, aging, and failure due to repeated tripping within rated limits. The C4B1S-BAL & C4B1FS-BAL with PTC (positive temperature coefficient) versions include fast acting, self resetting current limiters. These are especially useful where extra protection against "sneak current" type faults is desirable.



### Features:

- longer lifespan than conventional gas tube and carbon arrestors
- external failsafe mechanism which permanently grounds module under sustained high current conditions
- Integrated Test Points
- UL & cUL listed
- solid state technology provides nanosecond response time

### Benefits:

- reduced "pass through" of dangerous transients
- safe mode operation in adverse situations
- reduced service calls
- documented safe performance
- ISO 9002 Certified Manufacturer

## C3B1S-BAL, C3B1FS-BAL, C4B1S-BAL & C4B1FS-BAL Series Ordering Information

| Model No.        | Order No. | DC Voltage Breakover | Pin <sup>1</sup> | Color <sup>2</sup> |
|------------------|-----------|----------------------|------------------|--------------------|
| CS-167 C3B1S-BAL | 750029    | 300VDC               | gold             | black              |
| C3B1FS-BAL       | 750033    | 240VDC               | gold             | black              |
| C4B1S-BAL(PTC)   | 750031    | 300VDC               | gold             | black              |
| C4B1FS-BAL(PTC)  | 750035    | 240VDC               | gold             | black              |

<sup>1</sup> pin alloy refers to tip and ring pins. Unless otherwise noted, all ground pins are tin

<sup>2</sup> red module shells are available upon request

Modules

## C3B1S-BAL, C3B1FS-BAL, C4B1S-BAL & C4B1FS-BAL Series

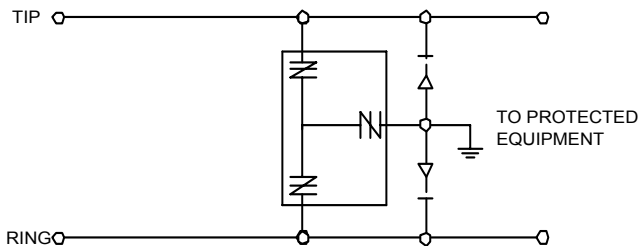


### Specifications:

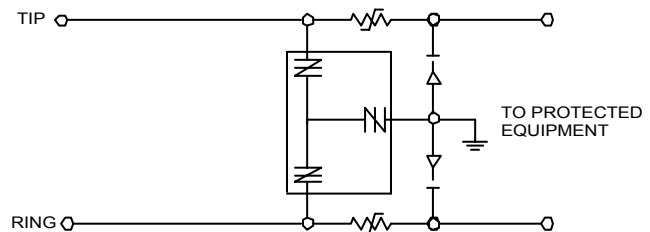
|  | C*B1S                           | C*B1FS                          |  | C*B1S                                   | C*B1FS                                  |
|--|---------------------------------|---------------------------------|--|---|---|
| <b>DC Breakover (nominal)</b><br>@ 100V/□sec   | 300V                            | 240V                            | <b>Capacitance</b><br>1 Vrms @ 1KHZ, 50VDC   | <45 pf                                  | <45 pf                                  |
| <b>Peak Pulse Current (max)<sup>1</sup></b><br>@ 8 x 20 □sec<br>@ 10 x 160 □sec<br>@ 10 x 1000 □sec                                    | 250A<br>150A<br>100A            | 250A<br>150A<br>100A            | <b>Insulation Resistance</b><br>@ 50VDC  | >100M ohms                              | >100M ohms                              |
| <b>Holding Current (min)</b>   | 200(mA)                         | 200(mA)                         | <b>Fail-safe Operation</b><br>@ 1.0A<br>@ 5.0A<br>@ 20 A<br>@ 60A                            | <50 sec<br><15 sec<br><10 sec<br><3 sec | <50 sec<br><15 sec<br><10 sec<br><3 sec |
| <b>Surge life (min operations)<sup>2</sup></b><br>@ 10A, 10 x 1000 □sec<br>@ 100A, 10 x 1000 □sec<br>@ 1Arms, 1 sec<br>@ 10Arms, 1 sec | unlimited<br>>300<br>>60<br>>20 | unlimited<br>>300<br>>60<br>>20 | <b>Current Limiters (PTC models only)</b><br>hold current (ma) @20 C =<br>R min / R max ohms | 145<br>4/6                              | 145<br>4/6                              |

- total surge rating is 2x listed with respect to ground during a simultaneous surge
- service life requirement as per Bellcore TR-NWT-000974
- pin alloy refers to tip and ring pins. Unless otherwise noted, all ground pins are tin

C3B1S-BAL & C3B1FS-BAL  
Solid State Module  
(Symmetrical)



C4B1S-BAL & C4B1FS-BAL  
Solid State Module  
(Symmetrical)



# THHN/THWN/TFFN THERMOPLASTIC INSULATION NYLON JACKETED



## Copper and Aluminum Conductor—600 Volts

Small-diameter single conductor PVC insulated/Nylon jacket wire suitable for use in dry locations at a conductor operating temperature of 90°C and in wet locations at 75°C. It is also by UL as Type MTW 90°C, AWM 105°C, and VW-1, and is Gasoline and Oil Resistant. Sizes 1/0 AWG and larger are re-nized for CT use.

| Catalog #         | AWG      | No. of Strands | Insul. Thickness In. | Jacket Thickness | O.D. In. | Lbs. M/Ft. |   |
|-------------------|----------|----------------|----------------------|------------------|----------|------------|---|
|                   |          |                |                      |                  |          | Copper     | A |
| THHN-14-SOL       | 14       | 1              | .015                 | .004             | .11      | 16         |   |
| THHN-12-SOL       | 12       | 1              | .015                 | .004             | .12      | 24         |   |
| THHN-10-SOL       | 10       | 1              | .020                 | .004             | .15      | 37         |   |
| TFFN-18-STR       | 18*      | 16             | .015                 | .004             | .09      | 8          |   |
| TFFN-16-STR       | 16*      | 26             | .015                 | .004             | .10      | 12         |   |
| THHN-14-STR       | 14       | 19             | .015                 | .004             | .11      | 16         |   |
| THHN-12-STR       | 12       | 19             | .015                 | .004             | .13      | 24         |   |
| THHN-10-STR       | 10       | 19             | .020                 | .004             | .17      | 39         |   |
| THHN-8-STR        | 8        | 19             | .030                 | .005             | .22      | 64         |   |
| THHN-6-STR        | 6        | 19             | .030                 | .005             | .26      | 96         |   |
| THHN-4-STR        | 4        | 19             | .040                 | .005             | .33      | 154        |   |
| THHN-3-STR        | 3        | 19             | .040                 | .006             | .36      | 191        |   |
| THHN-2-STR        | 2        | 19             | .040                 | .006             | .39      | 236        |   |
| THHN-1-STR        | 1        | 19             | .050                 | .007             | .45      | 302        |   |
| THHN-1/0-STR      | 1/0      | 19             | .050                 | .007             | .49      | 375        |   |
| THHN-2/0-STR      | 2/0      | 19             | .050                 | .007             | .54      | 465        |   |
| THHN-3/0-STR      | 3/0      | 19             | .050                 | .007             | .59      | 578        |   |
| THHN-4/0-STR      | 4/0      | 19             | .050                 | .007             | .65      | 719        |   |
| THHN-250-MCM STR  | 250 MCM  | 37             | .060                 | .008             | .72      | 858        |   |
| THHN-300 MCM STR  | 300 MCM  | 37             | .060                 | .008             | .77      | 1021       |   |
| THHN-350 MCM STR  | 350 MCM  | 37             | .060                 | .008             | .83      | 1182       |   |
| THHN-400 MCM STR  | 400 MCM  | 37             | .060                 | .008             | .87      | 1350       |   |
| THHN-500 MCM STR  | 500 MCM  | 37             | .060                 | .008             | .96      | 1662       |   |
| THHN-600 MCM STR  | 600 MCM  | 61             | .070                 | .009             | 1.06     | 2019       |   |
| THHN-750 MCM STR  | 750 MCM  | 61             | .070                 | .009             | 1.17     | 2502       |   |
| THHN-1000 MCM STR | 1000 MCM | 61             | .070                 | .009             | 1.32     | 3263       |   |

CS-168

\* Listed as TFFN 90°C Appliance Wiring Material (80°C Exposed to Oil) and 90°C MTW.  
For aluminum conductor enter designation AL after THHN. Example THHN-AL-14-SOL

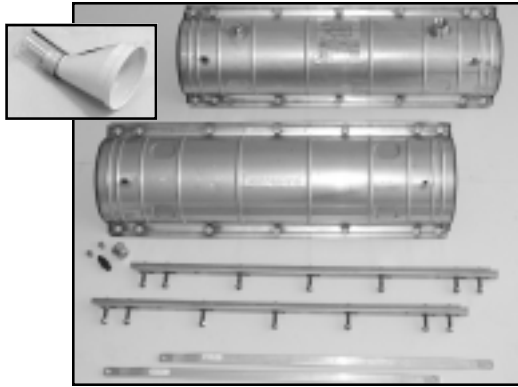
### Color Abbreviations

- BLK - Black
- BLU - Blue
- BRN - Brown
- GRN - Green
- GRY - Gray
- ORN - Orange
- PNK - Pink
- PUR - Purple
- RED - Red
- TAN - Tan
- WHT - White
- YEL - Yellow

**PREFORMED** LINE PRODUCTS  
**ARMADILLO®** Stainless Shell Kits  
 Section 7 — Page 118

**ARMADILLO Stainless Shell Kits:**

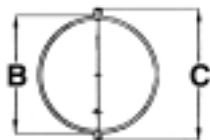
ARMADILLO Stainless shells are precision formed of stainless steel with an inside liner of neoprene. They feature a permanent gasket-sealing system that requires no re-entry kit or cleaning upon re-entry, and an integral air flange and grounding lead that allow pressurization and grounding through the shell. The LOCKBAR™ Fastening system features corrosion-resistant stainless steel front and back bars that mate through the flange area and lock into position to reduce installation time.



Standard Shell Kit

Shell Kit with Filling Flange

| Size (mm)                             | Catalog Number |                | Dimensions (mm) |             |             |                | Shipping Weight (kg) |
|---------------------------------------|----------------|----------------|-----------------|-------------|-------------|----------------|----------------------|
|                                       | Standard       | Filling Flange | A               | B           | C           | Sheath Opening |                      |
| 4.0" x 25" (102 x 635)                | 8006750        | 8006756        | 25.8" (655)     | 4.5" (114)  | 6.0" (152)  | 16.8" (427)    | 12# (5)              |
| 6.5" x 22" (165 x 559)                | 8006510        | 8006390        | 22.0" (559)     | 7.0" (178)  | 9.3" (235)  | 12.7" (322)    | 15# (7)              |
| 6.5" x 28" (165 x 711)                | 8006474        | 8006244        | 28.4" (721)     | 7.0" (178)  | 9.3" (235)  | 19.2" (488)    | 26# (12)             |
| 6.5" x 38" (165 x 965)                | 8006751        | 8006246        | 38.4" (975)     | 7.0" (178)  | 9.3" (235)  | 29.2" (742)    | 33# (15)             |
| 8.0" x 28" (203 x 711)                | 8006776        | 8006391        | 28.4" (721)     | 8.5" (216)  | 10.5" (267) | 19.2" (488)    | 24# (11)             |
| 8.0" x 38" (203 x 965)                | 8006777        | 8006392        | 38.4" (975)     | 8.5" (216)  | 10.5" (267) | 29.2" (742)    | 35# (16)             |
| 8.0" x 45" (203 x 1143)               | 8006778        | 8006393        | 45.2" (1148)    | 8.5" (216)  | 10.5" (267) | 36.2" (919)    | 57# (26)             |
| <b>CS-169</b> 9.5" x 28" (241 x 711)  | 8006779        | 8006245        | 28.4" (721)     | 10.0" (254) | 12.5" (318) | 18.1" (460)    | 32# (15)             |
| 9.5" x 38" (241 x 965)                | 8006780        | 8006247        | 38.4" (975)     | 10.0" (254) | 12.5" (318) | 28.1" (714)    | 40# (18)             |
| <b>CS-170</b> 9.5" x 45" (241 x 1143) | 8006781        | 8006250        | 45.2" (1148)    | 10.0" (254) | 12.5" (318) | 36.2" (919)    | 52# (24)             |
| 9.5" x 53" (241 x 1346)               | 8003461        | 8006758        | 53.3" (1354)    | 10.0" (254) | 12.5" (318) | 43.2" (1097)   | 56# (25)             |
| 12.5" x 28" (318 x 711)               | 8006782        | 8006274        | 28.4" (721)     | 13.0" (330) | 15.5" (394) | 18.1" (460)    | 41# (19)             |
| 12.5" x 38" (318 x 965)               | 8006783        | 8006275        | 38.4" (975)     | 13.0" (330) | 15.5" (394) | 28.1" (714)    | 51# (23)             |
| 12.5" x 45" (318 x 1143)              | 8006784        | 8006276        | 45.2" (1148)    | 13.0" (330) | 15.5" (394) | 36.2" (919)    | 60# (27)             |
| 12.5" x 65" (318 x 1651)              | 8006509        | n/a            | 65.0" (1651)    | 13.0" (330) | 15.5" (394) | 54.9" (1394)   | 146# (66)            |



## **SPLICE PER PAIR**

**CS-171**

### **Splice per Pair**

For situations where there are unspliced copper cable pairs in an existing splice case. Includes splicing of a copper cable pair.

Unit of measure is per cable pair.

# OSP Broadband Category 5e



## Product Description

- BBD Category 5e OSP cables are designed to provide extension of the LAN beyond the premises. A variety of constructions are available to suit multiple environmental needs.

## Features

- Category 5e Transmission performance characterized to 100MHz
- Metallic shield tapes  
(Aluminum for BBDNE and Copper-clad armor for BBDGE)
- Fully filled constructions
- UV/Sunlight resistant black jacket

## Benefits

- OSP rated cable connections for work area and backbone LAN
- Provides additional protection against EMI/RFI and rodents.
- Prevents intrusion of moisture that can degrade transmission quality
- Confidence that cable will last even with long-term exposure to direct sunlight

## Applications

- 10BASE-T through 1000BASE-T Ethernet, ATM and Token Ring
- BBDE - OSP 4-PR Category 5e Unshielded
- BBDNE - OSP 4-PR Category 5e Shielded with aluminum tape for protection against EMI/RFI
- BBDGE - OSP 4-PR Category 5e Shielded with copper-clad armor for EMI/RFI and rodent protection

## Part Numbers and Physical Characteristics

| Part #    | Name  | Pair Count | AWG (mm) | Nom. Dia.<br>in (mm) | Approx. Weight<br>lbs/kft (kg/km) | Package                  |
|-----------|-------|------------|----------|----------------------|-----------------------------------|--------------------------|
| 04-001-58 | BBDE  | 4          | 24 (0.5) | 0.25 (6.6)           | 28 (42)                           | 1000' Reel               |
| 04-002-58 | BBDE  | 4          | 24 (0.5) | 0.25 (6.6)           | 28 (42)                           | 2500' Reel               |
| 04-003-58 | BBDE  | 4          | 24 (0.5) | 0.25 (6.6)           | 28 (42)                           | 5000' Reel               |
| 04-601-58 | BBDE  | 4          | 24 (0.5) | 0.25 (6.6)           | 28 (42)                           | Cut to length            |
| 04-001-54 | BBDNE | 4          | 24 (0.5) | 0.31 (8.0)           | 48 (71)                           | 1000' Reel <b>CS-172</b> |
| 04-002-54 | BBDNE | 4          | 24 (0.5) | 0.31 (8.0)           | 48 (71)                           | 2500' Reel               |
| 04-003-54 | BBDNE | 4          | 24 (0.5) | 0.31 (8.0)           | 48 (71)                           | 5000' Reel               |
| 04-601-54 | BBDNE | 4          | 24 (0.5) | 0.31 (8.0)           | 48 (71)                           | Cut to length            |
| 04-001-55 | BBDGE | 4          | 24 (0.5) | 0.31 (8.0)           | 62 (92)                           | 1000' Reel               |
| 04-002-55 | BBDGE | 4          | 24 (0.5) | 0.31 (8.0)           | 62 (92)                           | 2500' Reel               |
| 04-003-55 | BBDGE | 4          | 24 (0.5) | 0.31 (8.0)           | 62 (92)                           | 5000' Reel               |
| 04-601-55 | BBDGE | 4          | 24 (0.5) | 0.31 (8.0)           | 62 (92)                           | Cut to length            |



# Specifications OSP Broadband Category 5e

## Physical Description

- Conductor/Cable Core: 24 AWG (0.5 mm) Solid Annealed Bare Copper • Insulation: Solid Polyolefin • Core Filling Compound: 80°C ETPR (extended thermoplastic rubber)
- BBDE: no shield • Black polyethylene outer jacket
- BBDNE: inner polyethylene jacket • Electrically continuous 0.008 in (0.2 mm) polymer coated smooth aluminum tape, applied with an overlap, black polyethylene outer jacket
- BBDEG: inner polyethylene jacket • Electrically continuous 0.005 in (0.13 mm) corrugated copper-clad armor, applied with an overlap shield flooded with a flooding compound • Black polyethylene outer jacket

## Electrical

| Frequency MHz | Max Attenuation (dB/100m) @ 20°C | Min NEXT (dB/100m) | ACR (dB/100m) | Min PS-NEXT (dB/100m) |
|---------------|----------------------------------|--------------------|---------------|-----------------------|
| 0.772         | 1.8                              | 67.0               | 62.2          | 64.0                  |
| 1             | 2.0                              | 65.3               | 60.0          | 62.3                  |
| 4             | 4.1                              | 56.3               | 48.9          | 53.3                  |
| 8             | 5.8                              | 51.8               | 42.2          | 48.8                  |
| 10            | 6.5                              | 50.3               | 40.5          | 47.3                  |
| 16            | 8.2                              | 47.3               | 35.8          | 44.2                  |
| 20            | 9.3                              | 45.8               | 32.7          | 42.8                  |
| 25            | 10.4                             | 44.3               | 30.6          | 41.3                  |
| 31.25         | 11.7                             | 42.9               | 27.3          | 39.9                  |
| 62.5          | 17.0                             | 38.4               | 18.0          | 35.4                  |
| 100           | 22.0                             | 35.3               | 10.0          | 32.0                  |

| Frequency MHz | PS-ACR (dB/100m) | Min Return Loss (dB/100m) | Min ELFEXT (dB/100m) | Min PS-ELFEXT (dB/100m) |
|---------------|------------------|---------------------------|----------------------|-------------------------|
| 0.772         | 62.2             | 23.0                      | 66.0                 | 63.0                    |
| 1             | 60.3             | 23.0                      | 63.8                 | 60.8                    |
| 4             | 49.2             | 23.0                      | 51.7                 | 48.7                    |
| 8             | 43.0             | 23.0                      | 45.7                 | 42.7                    |
| 10            | 40.8             | 23.0                      | 43.8                 | 40.8                    |
| 16            | 36.0             | 23.0                      | 39.7                 | 36.7                    |
| 20            | 33.5             | 23.0                      | 37.7                 | 34.7                    |
| 25            | 30.9             | 22.0                      | 35.8                 | 32.8                    |
| 31.25         | 28.2             | 21.5                      | 33.9                 | 30.9                    |
| 62.5          | 18.4             | 18.1                      | 27.8                 | 24.8                    |
| 100           | 10.3             | 16.0                      | 23.8                 | 20.8                    |

| Impedance (Ohms)<br>guaranteed | Delay Skew (ns/100m)<br>maximum | Velocity of Propagation (%)<br>nominal | DC Resistance (Ohms/100m) @ 20°C<br>maximum |
|--------------------------------|---------------------------------|--|---|
| 100+/-15 @ 1-100MHz            | 48                              | 62                                     | 9.38  |

**Applicable Standards:**  
TIA/EIA 568-B.2, ANSI/ICEA/S-86-634

# Double Jacketed Buried Service Wire

## Spec. 4287

### WITH ALUMINUM SHIELD



#### Nominal Cable Data

| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 2095138        | 2/22      | 0.33          | 48               | 1000                 |
| 2095125        | 2/22      | 0.33          | 48               | 2500                 |
| 2095126        | 2/22      | 0.33          | 48               | 5000                 |
| 2095127        | 3/22      | 0.35          | 56               | 2500                 |
| 2095128        | 3/22      | 0.35          | 56               | 5000                 |
| CS-173 2095137 | 6/22      | 0.41          | 82               | 1000                 |
| 2095129        | 6/22      | 0.41          | 82               | 2500                 |
| 2095130        | 6/22      | 0.41          | 82               | 5000                 |
| 2095131        | 2/24      | 0.30          | 39               | 2500                 |
| 2095132        | 2/24      | 0.30          | 39               | 5000                 |
| 2095133        | 3/24      | 0.32          | 46               | 2500                 |
| 2095134        | 3/24      | 0.32          | 46               | 5000                 |
| 2095135        | 6/24      | 0.37          | 64               | 2500                 |
| 2095136        | 6/24      | 0.37          | 64               | 5000                 |

Data subject to change without notice. Contact your Customer Service Representative for latest information.

#### Product Construction:

**Conductors:**

- Solid annealed copper

**Insulation:**

- High density polyethylene

**Pairing:**

- Varying pair lays

**Core Filling:**

- 80°C filling and flooding compounds

**Inner Jacket:**

- Linear low density polyethylene

**Shield:**

- Polymer-coated 0.008" aluminum tape

**Rip Cord:**

- Under the outer jacket

**Outer Jacket:**

- Black, linear low density polyethylene

**Application(s):**

- Intended for use in buried service application to the subscriber loops

**Compliance:**

- ICEA S-86-634

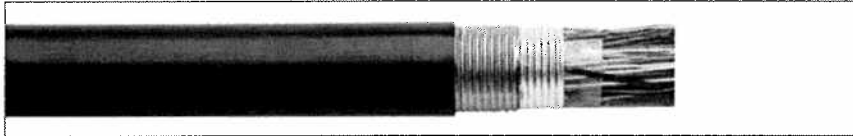
**Packaging:**

- Standard coils or on non-returnable plywood reels in lengths as shown above

# Filled Foam Skin ASP Cable

## Spec. 2100

BELL SYSTEM TYPE ANBW (19 AWG) ANMW (24 AWG)  
ANAW (22 AWG) ANTW (26 AWG)



### Nominal Cable Data

| CATALOG NUMBER | PAIRS AWG | O.D. INCHES | WEIGHT LBS/MFT | STANDARD LENGTH (FT) |
|----------------|-----------|-------------|----------------|----------------------|
| 6987481        | 25/19     | 0.86        | 465            | 5000                 |
| 6987499        | 50/19     | 1.1         | 825            | 2500                 |
| 6987507        | 100/19    | 1.5         | 1450           | 2500                 |
| 6987515        | 200/19    | 2.0         | 2780           | 1250                 |
| 6987523        | 300/19    | 2.4         | 4005           | 1250                 |
| 6987572        | 25/22     | 0.70        | 280            | 5000                 |
| 6987580        | 50/22     | 0.86        | 465            | 5000                 |
| 6987606        | 100/22    | 1.1         | 790            | 2500                 |
| 6987622        | 200/22    | 1.4         | 1410           | 2500                 |
| 6987630        | 300/22    | 1.7         | 2060           | 1250                 |
| 6987648        | 400/22    | 2.0         | 2710           | 1250                 |
| 6987655        | 600/22    | 2.4         | 4050           | 1250                 |
| 6987663        | 900/22    | 2.9         | 5900           | 1000                 |
| 6987671        | 1200/22   | 3.3         | 7740           | 750                  |
| 6987705        | 25/24     | 0.57        | 205            | 5000                 |
| 6987713        | 50/24     | 0.74        | 320            | 5000                 |
| 6987721        | 100/24    | 0.91        | 535            | 5000                 |
| 6987739        | 200/24    | 1.2         | 955            | 2500                 |
| 6987747        | 300/24    | 1.4         | 1350           | 2500                 |
| 6987754        | 400/24    | 1.6         | 1775           | 2500                 |
| 6987762        | 600/24    | 1.9         | 2570           | 1250                 |
| 6987770        | 900/24    | 2.3         | 3770           | 1250                 |
| 6987788        | 1200/24   | 2.6         | 4920           | 1000                 |
| 6987796        | 1500/24   | 2.9         | 6060           | 1000                 |
| 6987804        | 1800/24   | 3.2         | 7270           | 1000                 |
| 6987812        | 25/26     | 0.50        | 150            | 5000                 |
| 6987820        | 50/26     | 0.61        | 230            | 5000                 |
| 6987838        | 100/26    | 0.80        | 395            | 5000                 |
| 6987846        | 200/26    | 1.0         | 670            | 5000                 |
| 6987853        | 300/26    | 1.2         | 940            | 2500                 |
| 6987861        | 400/26    | 1.3         | 1235           | 2500                 |
| 6987879        | 600/26    | 1.6         | 1710           | 1250                 |
| 6987887        | 900/26    | 1.9         | 2475           | 1250                 |
| 6987895        | 1200/26   | 2.1         | 3220           | 1250                 |
| 7507007        | 1500/26   | 2.4         | 4010           | 1250                 |
| 7507015        | 1800/26   | 2.6         | 4685           | 1000                 |
| 7502958        | 2100/26   | 2.8         | 5500           | 1000                 |
| 7507023        | 2400/26   | 2.9         | 6160           | 1000                 |
| 7512650        | 2700/26   | 3.2         | 7010           | 1000                 |
| 7512668        | 3000/26   | 3.3         | 7610           | 750                  |

CS-174  
CS-175  
CS-176  
CS-177  
CS-178  
CS-179  
CS-180  
CS-181  
CS-182

Data subject to change without notice. Contact your Customer Service Representative for latest information.

### Core Construction:

#### Conductors:

- Solid, annealed copper; sizes 19, 22, 24 and 26 AWG

#### Insulation:

- Dual insulation consisting of an inner layer of foamed polyolefin surrounded by a solid polyolefin skin, color-coded in accordance with telephone industry standards

#### Twisted Pairs:

- Insulated conductors are twisted into pairs with varying lay lengths to minimize crosstalk

#### Core Assembly:

- 25 pairs and less: pairs are assembled together in a single group
- More than 25 pairs: pairs are arranged in groups, each group having a color-coded unit binder

#### Filling Compound:

- The entire core assembly is completely filled with ETPR compound, filling the interstices between the pairs and under the core tape

#### Core Wrap:

- Non-hygroscopic dielectric tape applied longitudinally with an overlap

#### ASP Sheath:

##### Aluminum Shield:

- Corrugated, 0.008" aluminum tape applied longitudinally over the core wrap

##### Steel Shield:

- Corrugated, 0.006" steel tape applied longitudinally over the aluminum tape with an overlap
- The sheath interfaces are flooded with an adhesive water-blocking compound

##### Jacket:

- Black, linear low density polyethylene

#### Application(s):

- Intended for direct buried installations in situations in which some additional mechanical and gopher protection is required

#### Compliance:

- Telcordia (Bellcore) Specification GR-421-CORE

#### Packaging:

- Standard lengths are shipped on returnable steel reels or on non-returnable wood reels when requested
- Non-standard packaging is also available



# Anaerobic-Cure Connectors

A LANscape® Solutions Product

Corning  
Cable Systems

## Applications

- Installations requiring field-installed connectors
- Fiber-to-the-desk or fiber-to-the-machine
- Enterprise networks

## Description

Corning Cable Systems' Anaerobic-Cure single-mode and multimode connectors combine the quick-cure convenience of anaerobic adhesive with the performance of epoxy and polish connectors. Connectors are installed in minutes, yet provide unparalleled performance for years.

The anaerobic adhesive uses a two-part epoxy process. The adhesive is first injected into the connector ferrule. The fiber is dipped into the primer and inserted into the connector. Curing takes one minute without the use of lamps or ovens.

## Features / Benefits

- Fast cure time without lamps or ovens
- Installs without index matching gel
- Minimal tools required
- Hand polish; doesn't require polishing machine
- Doesn't require electrical power to install
- Low material cost
- Average insertion loss of 0.2 dB with physical contact polish



Anaerobic-Cure Connectors | Photo CN01

## Specifications

| Parameter                            | Multimode   | Single-mode                       |
|--------------------------------------|---|-----------------------------------|
| <b>Interconnection Compatibility</b> | Compliant with TIA/EIA 604-2 (ST® compatible), 604-3 (SC), 604-4 (FC) and 604-10 (LC) |                                   |
| <b>Insertion Loss</b>                | 0.2 dB average<br>0.75 dB maximum   | 0.2 dB average<br>0.75 dB maximum |
| <b>Reflectance</b>                   | ≤ -26 dB  | ≤ -40 dB                          |
| <b>Temperature Cycling</b>           | ≤ 0.3 dB change, -40° to +75°C; 21 cycles   | same                              |

## Ordering Information

| Part Number | Description |
|-------------|-------------|
|-------------|-------------|

### Multimode

|                         |   |
|-------------------------|---|
| 95-051-51               | ST Compatible 50 µm Multimode Connector with ceramic ferrule; single pack   |
| <b>CS-186</b> 95-101-51 | ST Compatible 62.5 µm Multimode Connector with ceramic ferrule; single pack |
| 95-051-41               | SC 50 µm Multimode Connector with ceramic ferrule; single pack              |
| <b>CS-184</b> 95-101-41 | SC 62.5 µm Multimode Connector with ceramic ferrule; single pack            |
| 95-051-61               | FC 50 µm Multimode Connector with ceramic ferrule; single pack              |
| 95-101-61               | FC 62.5 µm Multimode Connector with ceramic ferrule; single pack            |
| 95-051-98               | LC 50 µm Multimode Connector with ceramic ferrule; single pack              |
| 95-101-98               | LC 62.5 µm Multimode Connector with ceramic ferrule; single pack            |

### Single-mode

|                         |  |
|-------------------------|--|
| <b>CS-185</b> 95-201-51 | ST Compatible Single-Mode Connector with ceramic ferrule and metal hardware; single pack |
| <b>CS-183</b> 95-201-41 | SC Single-Mode Connector with ceramic ferrule and composite hardware; single pack        |
| 95-201-61               | FC Single-Mode Connector with ceramic ferrule and composite hardware; single pack        |
| 95-201-98               | LC Single-Mode Connector with ceramic ferrule and composite hardware; single pack        |

### Boot Color

|             |   |
|-------------|---|
| 50 µm       | Includes both black and aqua boots for standard 50 µm and laser-optimized 50 µm fiber |
| 62.5 µm     | Beige   |
| Single-mode | Blue  |

All ST compatible, SC and FC connectors come with 3 mm, 2 mm and 900 µm boots. LC connectors come with 900 µm and combination 2 mm/1.6 mm boots.

### Accessories

|                        |   |
|------------------------|---|
| <b>TKT-ANAEROBIC</b>   | Installation Kit for Anaerobic-Cure and Anaerobic-Cure Glass-Insert Connectors; includes consumables for 500 connectors |
| <b>TKT-ANAEROBIC-C</b> | LC Anaerobic-Cure and Anaerobic-Cure GIC Consumables Kit; includes adhesive and polishing papers for 500 connectors     |
| <b>3201014-01</b>      | Jacket Retention Crimp Tool for ST compatible, SC and FC connectors   |
| <b>2105616-01</b>      | LC Crimp Tool   |
| <b>2104456-01</b>      | LC Polishing Fixture  |
| <b>2104020-01</b>      | ST Compatible, SC and FC Polishing Fixture  |
| <b>1101045-01</b>      | Anaerobic Adhesive, Primer and Syringe Tips   |
| <b>2104359-01</b>      | Universal Connector Cleaning Cassette   |

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# MIC<sup>®</sup> Riser Cables 2-24 Fiber

A LANscape<sup>®</sup> Pretium<sup>™</sup> Solutions Product

Corning  
Cable Systems

## Applications

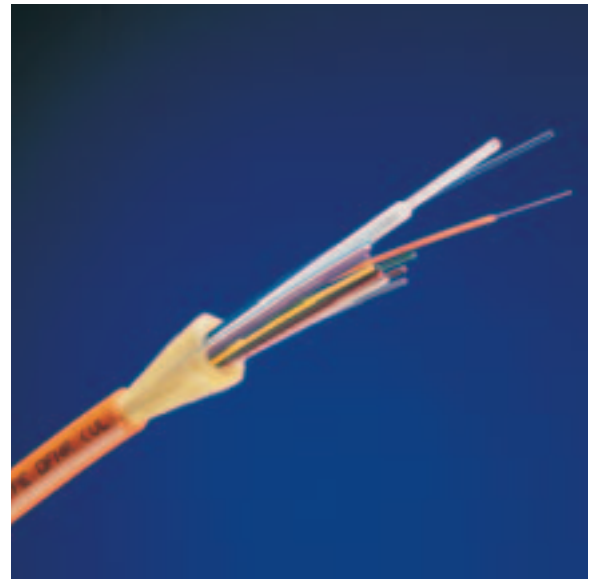
- Intra-building backbone and horizontal installations in riser and general purpose environments

## Description

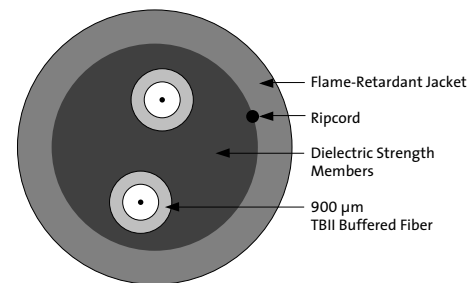
MIC<sup>®</sup> Cables are multifiber cables utilizing 900  $\mu\text{m}$  tight-buffered fibers surrounded by dielectric strength members and a flame-retardant outer jacket. These cables meet the application requirements of the National Electrical Code<sup>®</sup> (NEC<sup>®</sup> Article 770) and are OFNR and FT-4 listed. These cables are ideal for intra-building cabling including riser shafts, telecommunications rooms and workstations.

## Features / Benefits

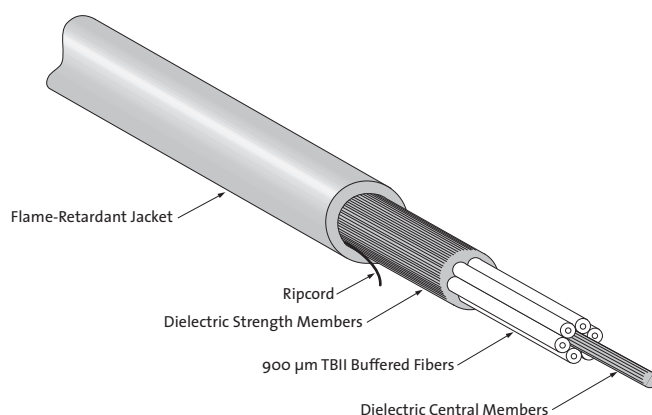
- Utilizes 900  $\mu\text{m}$  TBII<sup>®</sup> Buffered Fibers enabling easy, consistent stripping
- Available in 62.5  $\mu\text{m}$ , 50  $\mu\text{m}$ , single-mode and hybrid versions
- All-dielectric construction requires no grounding and bonding
- Available with interlocking armor
- Availability with approval for TEMPEST applications
- Meets application requirements of the National Electrical Code (NEC Article 770)
- Listed OFNR and FT-4
- Available with MSHA (Mine Safety & Health Administration) approval
- Available with Gigabit Ethernet and 10 Gigabit Ethernet performance



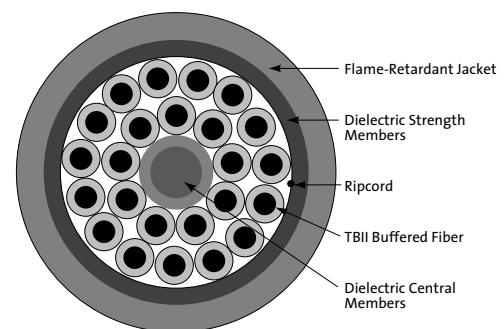
MIC Riser Cable | Photo CLT16



2-Fiber MIC Cable | Drawing CPC-220/1/31



6-Fiber MIC Riser Cable | Drawing CPC-220/1/33



24-Fiber MIC Cable | Drawing CPC-220/1/38

# MIC<sup>®</sup> Riser Cables 2-24 Fiber

A LANscape<sup>®</sup> Pretium<sup>™</sup> Solutions Product

Corning  
Cable Systems

## Specifications

|                               |   |
|-------------------------------|---|
| <b>Temperatures</b>           | Storage: -40° to +70°C (-40° to +158°F)<br>Installation: -10° to +60°C (+14° to +140°F)<br>Operation: -20° to +70°C (-4° to +158°F) |
| <b>Approvals and Listings</b> | National Electrical Code <sup>®</sup> (NEC <sup>®</sup> ) OFNR, CSA FT-4, ICEA S-83-596   |
| <b>Flame Resistance</b>       | UL-1666 (for riser and general building applications)   |

Corning Cable Systems recommends storing indoor/outdoor cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.

| Fiber Count         | Nominal Outer Diameter mm (in) | Nominal Weight kg/km (lb/1000 ft) | Central Member | Maximum Tensile Loads |                   | Minimum Bend Radius |                   |
|---------------------|--------------------------------|-----------------------------------|----------------|-----------------------|-------------------|---------------------|-------------------|
|                     |                                |                                   |                | Short-Term N (lbf)    | Long-Term N (lbf) | Loaded cm (in)      | Installed cm (in) |
| <b>Single Layer</b> |                                |                                   |                |                       |                   |                     |                   |
| 2                   | 4.7 (0.19)                     | 18 (12)                           | Y              | 660 (148)             | 198 (45)          | 7.1 (2.8)           | 4.7 (1.9)         |
| 4                   | 4.8 (0.19)                     | 21 (14)                           | Y              | 660 (148)             | 198 (45)          | 7.2 (2.8)           | 4.8 (1.9)         |
| 6                   | 5.5 (0.22)                     | 26 (17)                           | Y              | 660 (148)             | 198 (45)          | 8.3 (3.3)           | 5.5 (2.2)         |
| 8                   | 6.0 (0.24)                     | 32 (21)                           | JG             | 660 (148)             | 198 (45)          | 8.9 (3.5)           | 6.0 (2.3)         |
| <b>Dual Layer</b>   |                                |                                   |                |                       |                   |                     |                   |
| 12 (9/3)            | 6.3 (0.25)                     | 34 (23)                           | Y              | 660 (148)             | 198 (45)          | 9.5 (3.7)           | 6.3 (2.5)         |
| 18 (12/6)           | 7.4 (0.29)                     | 49 (33)                           | Y              | 1320 (297)            | 396 (89)          | 11.0 (4.3)          | 7.4 (2.9)         |
| 24 (15/9)           | 8.0 (0.31)                     | 58 (39)                           | Y              | 1320 (297)            | 396 (89)          | 12.0 (4.6)          | 8.0 (3.1)         |

Central Member Types: Y = Yarn, JG = Jacketed GRP

Fiber arrangement in dual-layer designs is shown in parentheses. Example: (9/3) = 9 outside fibers around 3 inner fibers

## Transmission Performance

| Fiber Code  | K                         | C                       | S                       | S                       | E                               |
|---|---------------------------|-------------------------|-------------------------|-------------------------|---------------------------------|
| <b>Performance Option Code</b>                    | <b>30</b>                 | <b>31</b>               | <b>80</b>               | <b>90</b>               | <b>31</b>                       |
| <b>Fiber Type</b>                                 | 62.5/125 μm (850/1300 nm) | 50/125 μm (850/1300 nm) | 50/125 μm (850/1300 nm) | 50/125 μm (850/1300 nm) | Single-mode (1310/1383/1550 nm) |
| <b>Maximum Attenuation (dB/km)</b>                | 3.5/1.0                   | 3.5/1.5                 | 3.0/1.5                 | 3.0/1.5                 | 1.0/1.0/0.75                    |
| <b>Minimum LED Bandwidth (MHz•km)</b>             | 200/500                   | 500/500                 | 1500/500                | 1500/500                | - / - / -                       |
| <b>Minimum Effective Modal Bandwidth (MHz•km)</b> | *220/ -                   | *510/ -                 | **2000/ -               | ***4700/ -              | - / - / -                       |
| <b>Serial Gigabit Ethernet Distance (m)</b>       | 300/550                   | 600/600                 | 1000/600                | 1000/600                | 5000/ - / -                     |
| <b>Serial 10 Gigabit Ethernet Distance (m)</b>    | 33/ -                     | 82/ -                   | 300/ -                  | ****550/ -              | 10000/40000                     |

\* As predicted by RML BW, per TIA/EIA 455-204 and IEC 60793-1-41, for intermediate performance laser-based systems (up to 1 Gb/s).

\*\* As predicted by minEMBc, per TIA/EIA 455-220 and IEC 60793-1-49, for high performance laser-based systems (up to 10 Gb/s).

\*\*\* As predicted by minEMBc, per TIA/EIA 455-220 and IEC 60793-1-49, for high performance laser-based systems (up to 10 Gb/s).

\*\*\*\* The 550 m distance is equivalent to a 4700 EMB system with standards-compliant transceiver and fiber characteristics, 3.0 dB/km cable attenuation and 1.0 dB total connector loss.

### Ordering Information

Contact Customer Service for other options.

CS-187  
CS-188  
CS-189  
CS-190  
CS-191  
CS-192  
CS-193  
CS-194

8  - 3  1   - 2 4  
 1  2  3  4  5  6  7  8  9  10  11  12  13  14

**1 - 3 Select fiber count**

Standard Offerings:  
002 006 012 024  
004 008 018

**4 Select fiber code (see Transmission Performance Table).**

**5 / 12 Defines cable type.**

8/- = Standard for MIC® Cable

**6 Select outer jacket.**

1 = Standard for riser  
M = MSHA approved

**7 Defines fiber placement.**

3 = Standard

**8 Select length markings.**

1 = Markings in feet (fiber counts ≤ 10)  
3 = Markings in feet (fiber counts > 10)

**9 Defines tensile strength (see Specifications).**

**10 - 11 Select performance option code.**  
(see Transmission Performance Table).

**13 - 14 Defines special requirements.**

24 = Standard for riser MIC Cable



# MIC® Plenum Cables

## 2-24 Fiber

A LANscape® Solutions Product

Corning  
Cable Systems

### Applications

- Building backbone and horizontal installations in plenum, riser and general purpose environments

### Description

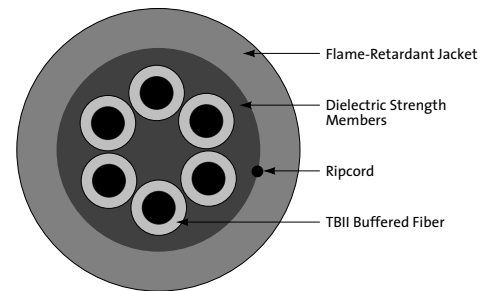
Corning Cable Systems OFNP MIC® Cables utilize 900 µm TBII® Buffered Fibers surrounded by dielectric strength members with a flexible, flame-retardant outer jacket. These cables meet the application requirements of the National Electrical Code® (NEC® Article 770) and are OFNP and FT-6 listed. These cables are ideal for routing inside buildings within plenum areas and riser shafts, to telecommunications rooms and workstations.

### Features / Benefits

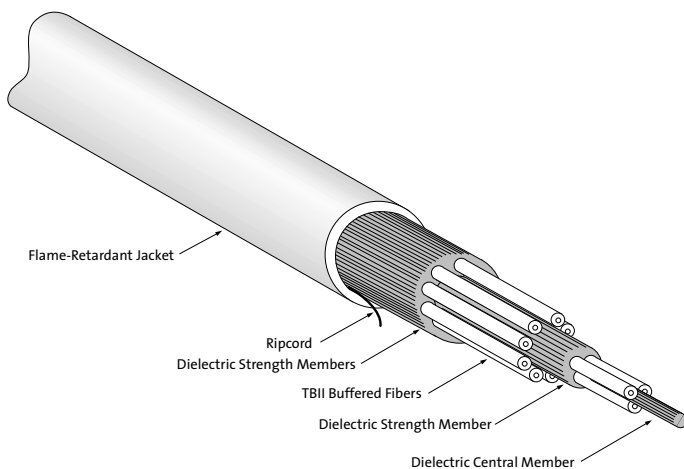
- 900 µm TBII Buffered Fibers enable easy, consistent stripping
- Small diameter and bend radius allow easy installation in space-constrained areas
- Available in 62.5 µm, 50 µm, single-mode and hybrid versions
- All-dielectric cable construction requires no grounding or bonding
- Availability with approval for TEMPEST applications
- Available with interlocking armor
- Listed OFNP and FT-6
- Available with Gigabit Ethernet and 10 Gigabit Ethernet performance



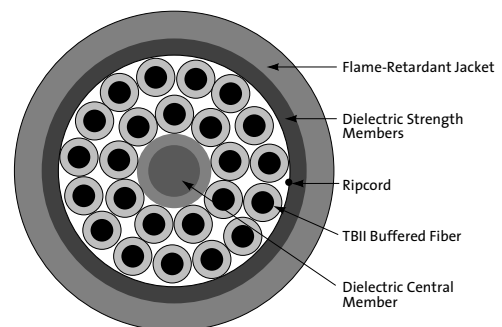
MIC Plenum Cables | Photo LAN04



6-Fiber OFNP MIC Cable | Drawing CPC-220/1/37



12-Fiber MIC Plenum Cable | Drawing CPC-220/1/39



24-Fiber OFNP MIC Cable | Drawing CPC-220/1/38



# MIC<sup>®</sup> Plenum Cables

## 2-24 Fiber

A LANscape<sup>®</sup> Solutions Product

Corning  
Cable Systems

### Specifications

|  |  |
|--|--|
| <b>Storage Temperature</b>               | -40° to +70°C (-40° to +158°F)                                 |
| <b>Installation Temperature</b>          | 0° to +60°C (+32° to +140°F)                                   |
| <b>Operating Temperature</b>             | 0° to +70°C (+32° to +158°F)                                   |
| <b>Approvals, Listings and Standards</b> | NEC <sup>®</sup> OFNP, CSA FT-6, ICEA S-83-596                 |
| <b>Flame Resistance</b>                  | NFPA 262 (for plenum, riser and general building applications) |

| Fiber Count         | Nominal Outer Diameter mm (in) | Nominal Weight kg/km (lb/1000 ft) | Central Member | Maximum Tensile Loads |                   | Minimum Bend Radius |                   |
|---------------------|--------------------------------|-----------------------------------|----------------|-----------------------|-------------------|---------------------|-------------------|
|                     |                                |                                   |                | Short-Term N (lbf)    | Long-Term N (lbf) | Loaded cm (in)      | Installed cm (in) |
| <b>Single Layer</b> |                                |                                   |                |                       |                   |                     |                   |
| 2                   | 5.0 (0.20)                     | 19 (13.0)                         | Y              | 440 (99)              | 132 (30)          | 7.5 (3.0)           | 5.0 (2.0)         |
| 4                   | 5.0 (0.20)                     | 24 (16.0)                         | Y              | 440 (99)              | 132 (30)          | 7.5 (3.0)           | 5.0 (2.0)         |
| 6                   | 5.0 (0.20)                     | 26 (18.0)                         | Y              | 440 (99)              | 132 (30)          | 7.5 (3.0)           | 5.0 (2.0)         |
| 8                   | 5.9 (0.23)                     | 36 (24.0)                         | JY             | 440 (99)              | 132 (30)          | 8.9 (3.5)           | 5.9 (2.3)         |
| <b>Dual Layer</b>   |                                |                                   |                |                       |                   |                     |                   |
| 12 (9/3)            | 6.4 (0.25)                     | 41 (27.0)                         | Y              | 440 (99)              | 132 (30)          | 9.6 (3.8)           | 6.4 (2.5)         |
| 18 (12/6)           | 7.0 (0.28)                     | 50 (34.0)                         | Y              | 660 (148)             | 198 (45)          | 10.5 (4.2)          | 7.0 (2.8)         |
| 24 (15/9)           | 7.4 (0.29)                     | 63 (42.0)                         | Y              | 660 (148)             | 198 (45)          | 11.1 (4.4)          | 7.4 (2.9)         |

Central Member Types: Y = Yarn, JY = Jacketed Yarn

Fiber arrangement in dual-layer designs is shown in parentheses. Example: (9/3) = 9 outside fibers around 3 inner fibers

### Transmission Performance

| Fiber Type  | 62.5/125 $\mu$ m<br>(850/1300 nm) | 62.5/125 $\mu$ m<br>(850/1300 nm) | 62.5/125 $\mu$ m<br>(850/1300 nm) | 50/125 $\mu$ m<br>(850/1300 nm) | 50/125 $\mu$ m<br>(850/1300 nm) | 50/125 $\mu$ m<br>(850/1300 nm) | Single-mode<br>(1310/1550 nm) |
|---|-----------------------------------|-----------------------------------|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------------------|
| <b>Performance Option Code</b>                    | 10                                | 30                                | 50                                | 31                              | 40                              | 80                              | 31                            |
| <b>Maximum Attenuation (dB/km)</b>                | 3.5/1.0                           | 3.5/1.0                           | 3.5/1.0                           | 3.5/1.5                         | 3.5/1.5                         | 3.5/1.5                         | 1.0/0.75                      |
| <b>Typical Attenuation (dB/km)</b>                | 3.0/1.0                           | 3.0/1.0                           | 3.0/1.0                           | 3.0/1.0                         | 3.0/1.0                         | 3.0/1.0                         | 0.5/0.4                       |
| <b>Minimum LED Bandwidth (MHz•km)</b>             | 160/500                           | 200/500                           | 200/500                           | 500/500                         | 700/500                         | 1500/500                        | - / -                         |
| <b>Minimum Effective Modal Bandwidth (MHz•km)</b> | - / -                             | 220/ - *                          | 385/ - *                          | 510/ - *                        | 850/ - **                       | 2000/ - **                      | - / -                         |
| <b>Serial Gigabit Ethernet Distance (m)</b>       | 220/550                           | 300/550                           | 500/1000                          | 600/600                         | 750/600                         | 1000/600                        | 5000/ -                       |
| <b>Serial 10 Gigabit Ethernet Distance (m)</b>    | 26/ -                             | 33/ -                             | 33/ -                             | 82/ -                           | 150/ -                          | 300/ -                          | 10000/40000                   |

\*EMB when deployed with 850 nm, 1 Gb/s VCSELs, as predicted by RML Bandwidth using FOTP-204.

\*\*EMB when deployed with 850 nm, 10 Gb/s VCSELs, as predicted by DMD method using FOTP-220.

# MIC® Plenum Cables 2-24 Fiber

A LANscape® Solutions Product

Corning  
Cable Systems

## Ordering Information

CS-195  
CS-196  
CS-197  
CS-198  
CS-199  
CS-200  
CS-201  
CS-202

88 - 3  1   - 29  
**1**   **2**   **3**   **4**

### 1 Select fiber count.

Standard Offerings:

002 008 024

004 012

006 018

Contact Customer Service for  
availability of non-standard offerings.

### 2 Select fiber type.

K = 62.5/125  $\mu\text{m}$

C = 50/125  $\mu\text{m}$  (use with  
performance option  
code 31)

S = 50/125  $\mu\text{m}$  (use with  
performance option  
codes 40, 80)

R = Single-mode

### 3 Select identification color scheme.

1 = Fiber counts 2 to 8

3 = Fiber counts 12 to 24

### 4 Select performance option code.

10 = 62.5/125  $\mu\text{m}$

30 = 62.5/125  $\mu\text{m}$

50 = 62.5/125  $\mu\text{m}$

31 = 50/125  $\mu\text{m}$

40 = 50/125  $\mu\text{m}$

80 = 50/125  $\mu\text{m}$

31 = Single-mode



## Applications

- Campus backbones in lashed aerial and duct installations

## Description

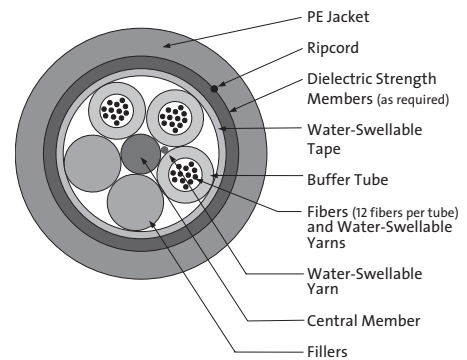
Corning Cable Systems ALTOS® Cables are designed for outdoor and limited indoor use. The loose tube cable is waterblocked to prevent water penetration that could lead to fiber damage.

## Features / Benefits

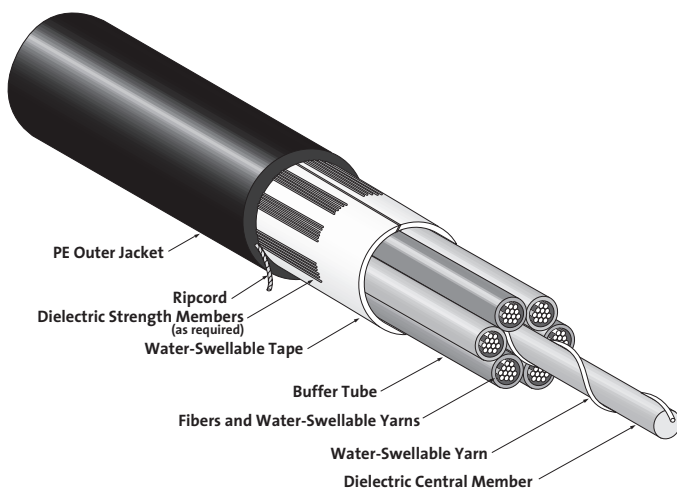
- Gel-free design is fully waterblocked using craft-friendly water-swappable yarns and tapes, making cable access simple and requiring no clean up
- Available in 62.5 µm, 50 µm, single-mode and hybrid versions
- Standard 3.0 mm buffer tube size reduces the number of access tools required by craftspersons
- SZ-stranded, loose tube design isolates fibers from installation, environmental rigors, and allows for easy mid-span access
- Medium Density Polyethylene jacket is rugged, durable and easy to strip
- Available with extended operating temperature to -60°C (-76°F)
- All-dielectric cable construction requires no bonding or grounding
- Available with Gigabit Ethernet and 10 Gigabit Ethernet performance



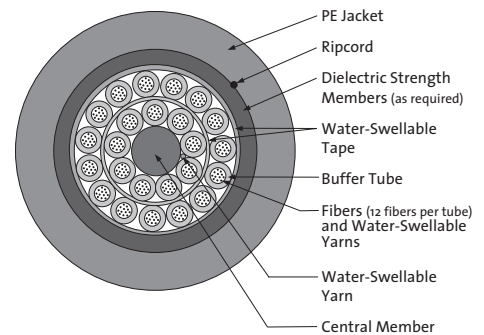
ALTOS All-Dielectric Gel-Free Cable | Photo LAN101



36-Fiber ALTOS Single-Jacket/No-Armor Cable | Drawing CPC-220/1/1



ALTOS All-Dielectric Gel-Free Cable | Drawing CPC-220/1/3



288-Fiber ALTOS Single-Jacket/No-Armor High-Density Cable | Drawing CPC-220/1/2

## Specifications

|                                 |  |
|---------------------------------|--|
| <b>Temperatures</b>             | Storage: -40° to +70°C (-40° to +158°F)<br>Installation: -30° to +70°C (-22° to +158°F)<br>Operation: -40° to +70°C (-40° to +158°F) |
| <b>Maximum Tensile Loads</b>    | Short-Term: 2700 N (600 lbf)<br>Long-Term: 890 N (200 lbf)   |
| <b>Common Installations</b>     | Outdoor lashed aerial and duct; indoor when installed according to NEC® Article 770  |
| <b>Design and Test Criteria</b> | ANSI/ICEA S-87-640   |

| Fiber Count | Maximum Fibers per Tube | Number of Tube Positions | Nominal Cable Weight kg/km (lb/1000 ft) | Nominal Outer Diameter mm (in) | Minimum Bend Radius Loaded cm (in) | Minimum Bend Radius Installed cm (in) |
|-------------|-------------------------|--------------------------|---|--------------------------------|------------------------------------|---------------------------------------|
| ≤ 60        | 12                      | 5                        | 91 (61)                                 | 12.1 (0.48)                    | 18.2 (7.1)                         | 12.1 (4.8)                            |
| ≤ 72        | 12                      | 6                        | 94 (63)                                 | 12.2 (0.48)                    | 18.8 (7.4)                         | 12.2 (4.8)                            |
| ≤ 96        | 12                      | 8                        | 124 (83)                                | 14.1 (0.56)                    | 21.4 (8.4)                         | 14.1 (5.6)                            |
| ≤ 120       | 12                      | 10                       | 161 (108)                               | 16.1 (0.63)                    | 24.3 (9.6)                         | 16.1 (6.3)                            |
| ≤ 192       | 12                      | 16                       | 164 (110)                               | 17.6 (0.69)                    | 26.7 (10.5)                        | 17.6 (6.9)                            |
| ≤ 216       | 12                      | 18                       | 183 (123)                               | 18.4 (0.72)                    | 27.8 (10.9)                        | 18.4 (7.2)                            |
| ≤ 240       | 12                      | 20                       | 202 (135)                               | 19.3 (0.76)                    | 29.1 (11.5)                        | 19.3 (7.6)                            |
| ≤ 288       | 12                      | 24                       | 252 (169)                               | 21.5 (0.85)                    | 32.3 (12.7)                        | 21.5 (8.5)                            |

## Transmission Performance

| Fiber Code  | K                            | C                          | S                          | S                          | E                                  |
|---|------------------------------|----------------------------|----------------------------|----------------------------|------------------------------------|
| <b>Performance Option Code</b>                    | <b>30</b>                    | <b>31</b>                  | <b>80</b>                  | <b>90</b>                  | <b>01</b>                          |
| <b>Fiber Type</b>                                 | 62.5/125 μm<br>(850/1300 nm) | 50/125 μm<br>(850/1300 nm) | 50/125 μm<br>(850/1300 nm) | 50/125 μm<br>(850/1300 nm) | Single-mode<br>(1310/1383/1550 nm) |
| <b>Maximum Attenuation (dB/km)</b>                | 3.5/1.0                      | 3.5/1.5                    | 3.0/1.5                    | 3.0/1.5                    | 0.4/0.4/0.3                        |
| <b>Minimum LED Bandwidth (MHz•km)</b>             | 200/500                      | 500/500                    | 1500/500                   | 1500/500                   | - / - / -                          |
| <b>Minimum Effective Modal Bandwidth (MHz•km)</b> | *220/ -                      | *510/ -                    | **2000/ -                  | ***4700/ -                 | - / - / -                          |
| <b>Serial Gigabit Ethernet Distance (m)</b>       | 300/550                      | 600/600                    | 1000/600                   | 1000/600                   | 5000/ - / -                        |
| <b>Serial 10 Gigabit Ethernet Distance (m)</b>    | 33/ -                        | 82/ -                      | 300/ -                     | ****550/ -                 | 10000/40000                        |

\* As predicted by RML BW, per TIA/ELA 455-204 and IEC 60793-1-41, for intermediate performance laser-based systems (up to 1 Gb/s).

\*\* As predicted by minEMBc, per TIA/ELA 455-220 and IEC 60793-1-49, for high performance laser-based systems (up to 10 Gb/s).

\*\*\* As predicted by minEMBc, per TIA/ELA 455-220 and IEC 60793-1-49, for high performance laser-based systems (up to 10 Gb/s).

\*\*\*\* The 550 m distance is equivalent to a 4700 EMB system with standards-compliant transceiver and fiber characteristics, 3.0 dB/km cable attenuation and 1.0 dB total connector loss.

## Ordering Information

---

Contact Customer Service for other options.

CS-203  
CS-204  
CS-205  
CS-206  
CS-207  
CS-208  
CS-209  
CS-210

W 4 - T 4 1   D 2 0

**1** **2** **3** **4** **5** **6** **7** **8** **9** **10** **11** **12** **13** **14**

**1** - **3** Select fiber count.

Standard Offerings:

004 012 024 072 144 216

006 018 036 096 192 288

**4** Select fiber type (see Transmission Performance Table).

**5** / **12** Defines cable type.

W/D = ALTOS® Gel-Free Cable

**6** Defines outer jacket.

4 = All-dielectric

**7** Defines fiber placement.

T = 12 fibers/buffer tube (standard)

**8** Defines length markings.

4 = Markings in feet (standard)

**9** Defines tensile strength (see Specifications).

**10** - **11** Select performance option code.  
(see Transmission Performance Table).

**13** - **14** Defines special requirements.

20 = No special requirements



## Applications

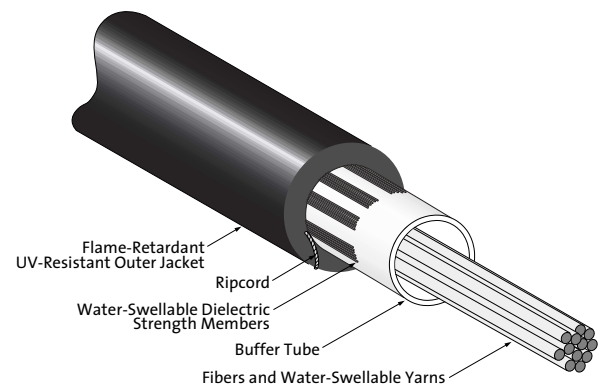
- Inter- and intrabuilding backbones in aerial, duct and riser applications

## Description

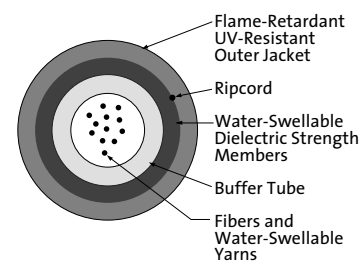
Corning Cable Systems FREEDM<sup>®</sup> LST<sup>™</sup> Gel-Free Cables are flame-retardant, indoor/outdoor, riser-rated cables suitable for installation in aerial, duct and riser applications. Because of the riser rating, there is no need for a transition splice when entering the building. Using water-swallowable yarns both inside and surrounding the buffer tubes, these cables are fully water-blocked without the use of messy gels, providing for more efficient and craft-friendly cable preparation. Available in a compact design from 2 to 24 fibers, the buffer tubes and fibers in each tube are color-coded for quick, easy identification.

## Features / Benefits

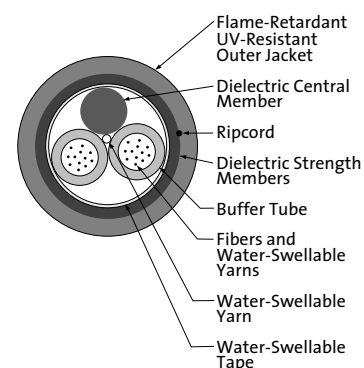
- Gel-free design is fully waterblocked using craft-friendly, water-swallowable yarns, making cable access and use of buffer tube fan-out kits simple
- Available in 62.5  $\mu\text{m}$ , 50  $\mu\text{m}$ , single-mode and hybrid versions
- Standard 3 mm buffer tube size reduces the number of access tools required by craftspersons
- Flame-retardant jacket is rugged, durable and easy to strip
- Compact design, all-dielectric cable construction requires no grounding or bonding
- Color-coded fibers and buffer tubes for quick and easy identification during installation
- No preferential bend axis for easier installation and better handling
- UV-resistant and listed OFNR and FT-4
- Compatible with buffer tube fan-out kit for rapid, simple termination
- Available with interlocking armor
- Available with Gigabit Ethernet and 10 Gigabit Ethernet performance



FREEDM LST Gel-Free Cable | Drawing ZA-2470



12-Fiber FREEDM LST Gel-Free Cable | Drawing ZA-2470



24-Fiber FREEDM LST Gel-Free Cable | Drawing ZA-2470

**Specifications**

|                                 |  |
|---------------------------------|--|
| <b>Temperatures</b>             | Storage: -40° to +70°C (-40° to +158°F)<br>Installation: -10° to +60°C (+14° to +140°F)<br>Operation: -40° to +70°C (-40° to +158°F) |
| <b>Approvals and Listings</b>   | National Electrical Code <sup>®</sup> (NEC <sup>®</sup> ) OFNR, CSA OFN FT-4   |
| <b>Common Installations</b>     | Outdoor aerial and duct; indoor vertical riser and general purpose horizontal according to NEC Article 770                           |
| <b>Design and Test Criteria</b> | ANSI/ICEA S-104-696  |

*Corning Cable Systems recommends storing indoor/outdoor cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.*

| Fiber Count | Nominal Weight<br>kg/km<br>(lb/1000 ft) | Nominal Diameter<br>mm (in) | Maximum Tensile Load  |                      | Minimum Bend Radius<br>Loaded<br>cm (in) | Minimum Bend Radius<br>Installed<br>cm (in) |
|-------------|---|-----------------------------|-----------------------|----------------------|--|---|
|             |   |                             | Short-Term<br>N (lbf) | Long-Term<br>N (lbf) |  |   |
| 2-12        | 55 (37)                                 | 8.0 (0.31)                  | 1330 (300)            | 400 (90)             | 12.0 (4.9)                               | 8.0 (3.1)                                   |
| 13-24       | 72 (48)                                 | 11.2 (0.44)                 | 2700 (600)            | 810 (180)            | 16.8 (6.6)                               | 11.2 (4.4)                                  |

**Transmission Performance**

| Fiber Code  | K                            | C                          | S                          | S                          | E                                  |
|---|------------------------------|----------------------------|----------------------------|----------------------------|------------------------------------|
| <b>Performance Option Code</b>                    | <b>30</b>                    | <b>31</b>                  | <b>80</b>                  | <b>90</b>                  | <b>01</b>                          |
| <b>Fiber Type</b>                                 | 62.5/125 μm<br>(850/1300 nm) | 50/125 μm<br>(850/1300 nm) | 50/125 μm<br>(850/1300 nm) | 50/125 μm<br>(850/1300 nm) | Single-mode<br>(1310/1383/1550 nm) |
| <b>Maximum Attenuation (dB/km)</b>                | 3.5/1.0                      | 3.5/1.5                    | 3.0/1.5                    | 3.0/1.5                    | 0.4/0.4/0.3                        |
| <b>Minimum LED Bandwidth (MHz•km)</b>             | 200/500                      | 500/500                    | 1500/500                   | 1500/500                   | - / - / -                          |
| <b>Minimum Effective Modal Bandwidth (MHz•km)</b> | *220/ -                      | *510/ -                    | **2000/ -                  | ***4700/ -                 | - / - / -                          |
| <b>Serial Gigabit Ethernet Distance (m)</b>       | 300/550                      | 600/600                    | 1000/600                   | 1000/600                   | 5000/ - / -                        |
| <b>Serial 10 Gigabit Ethernet Distance (m)</b>    | 33/ -                        | 82/ -                      | 300/ -                     | ****550/ -                 | 10000/40000                        |

\* As predicted by RML BW, per TLA/ELA 455-204 and IEC 60793-1-41, for intermediate performance laser-based systems (up to 1 Gb/s).

\*\* As predicted by minEMBc, per TLA/ELA 455-220 and IEC 60793-1-49, for high performance laser-based systems (up to 10 Gb/s).

\*\*\* As predicted by minEMBc, per TLA/ELA 455-220 and IEC 60793-1-49, for high performance laser-based systems (up to 10 Gb/s).

\*\*\*\* The 550 m distance is equivalent to a 4700 EMB system with standards-compliant transceiver and fiber characteristics, 3.0 dB/km cable attenuation and 1.0 dB total connector loss.



## Ordering Information

Contact Customer Service for other options.

S F - T 4 1   D 2 0

**1** **2** **3** **4** **5** **6** **7** **8** **9** **10** **11** **12** **13** **14**

**1** - **3** Select fiber count.

Standard Offerings:  
 004 006 012 018 024

**4** Select fiber code (see Transmission Performance Table).

**5** / **12** Defines cable type.

S/D = FREEDM® LST™ Gel-Free Cable

**6** Defines outer jacket.

F = Indoor/outdoor riser

**7** Defines fiber placement.

T = 12 fibers/buffer tube (standard)

**8** Defines length markings.

4 = Markings in feet (standard)

**9** Defines tensile strength (see Specifications).

**10** - **11** Select performance option code.  
 (see Transmission Performance Table).

**13** - **14** Defines special requirements.

20 = No special requirements

CS-211  
 CS-212  
 CS-213  
 CS-215  
 CS-216  
 CS-217  
 CS-219  
 CS-220

# FREEDM<sup>®</sup> Loose Tube Gel-Free Cables

A LANscape<sup>®</sup> Pretium<sup>™</sup> Solutions Product

Corning  
Cable Systems

## Applications

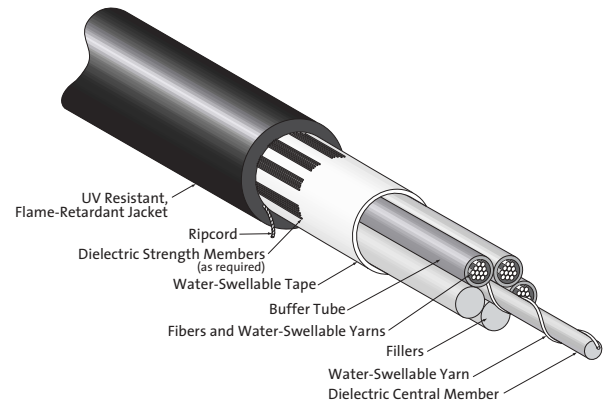
- Inter- and intra building backbones in aerial, duct and riser applications

## Description

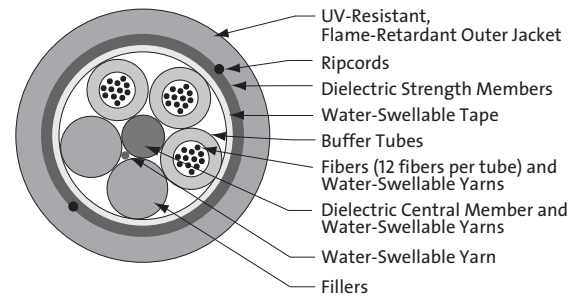
Corning Cable Systems FREEDM<sup>®</sup> Loose Tube Gel-Free Cables are flame-retardant, indoor/outdoor, riser-rated cables suitable for installation in aerial, duct and riser applications. Because of the riser rating, there is no need for a transition splice when entering the building. Using water-swappable yarns both inside and surrounding the buffer tubes, these cables are fully waterblocked without the use of messy gels, providing for more efficient and craft-friendly cable preparation. Available from 2 to 288 fibers, the buffer tubes and fibers in each tube are color-coded for quick, easy identification.

## Features / Benefits

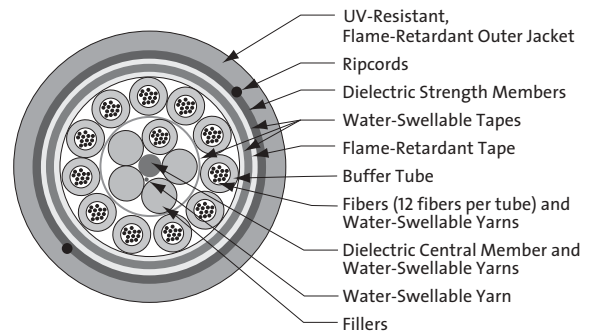
- Gel-free design is fully waterblocked using craft-friendly, water-swappable yarns, making cable access and use of buffer tube fan-out kits simple
- Available in 62.5  $\mu\text{m}$ , 50  $\mu\text{m}$ , single-mode and hybrid versions
- Standard 3.0 mm buffer tube size reduces the number of access tools required by crafts personnel
- SZ-stranded, loose tube design isolates fibers from installation, environmental rigors and allows for easy mid-span access
- UV-resistant, flame-retardant jacket is rugged, durable and easy to strip
- All-dielectric cable construction requires no grounding or bonding
- Color-coded fibers and buffer tubes for quick and easy identification during installation
- Listed OFNR and FT-4
- Available with interlocking armor
- Available with Gigabit Ethernet and 10 Gigabit Ethernet performance



FREEDM Loose Tube Gel-Free Cable | Drawing ZA-1894



36-Fiber FREEDM Loose Tube Gel-Free Cable | Drawing ZA-1596



144-Fiber FREEDM Loose Tube Gel-Free Cable | Drawing ZA-511

# FREEDM<sup>®</sup> Loose Tube Gel-Free Cables

A LANscape<sup>®</sup> Pretium<sup>™</sup> Solutions Product

Corning  
Cable Systems

## Specifications

|                                 |  |
|---------------------------------|--|
| <b>Maximum Tensile Loads</b>    | Short-Term: 2700 N (600 lbf)<br>Long-Term: 810 N (180 lbf)   |
| <b>Temperatures</b>             | Storage: -40° to +70°C (-40° to +158°F)<br>Installation: -10° to +60°C (+14° to +140°F)<br>Operation: -40° to +70°C (-40° to +158°F) |
| <b>Approvals and Listings</b>   | National Electrical Code <sup>®</sup> (NEC <sup>®</sup> ) OFNR, CSA OFN FT-4   |
| <b>Common Installations</b>     | Outdoor aerial and duct; indoor vertical riser and general purpose horizontal according to NEC Article 770                           |
| <b>Design and Test Criteria</b> | ANSI/ICEA S-104-696  |

Corning Cable Systems recommends storing indoor/outdoor cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.

| Fiber Count | Maximum Fibers per Tube | Number of Tube Positions | Nominal Weight kg/km (lb/1000 ft) | Nominal Outer Diameter mm (in) | Minimum Bend Radius Loaded cm (in) | Installed cm (in) |
|-------------|-------------------------|--------------------------|-----------------------------------|--------------------------------|------------------------------------|-------------------|
| ≤ 60        | 12                      | 5                        | 136 (91)                          | 12.9 (0.51)                    | 19.4 (7.6)                         | 12.9 (5.1)        |
| 72          | 12                      | 6                        | 150 (100)                         | 13.3 (0.52)                    | 20.0 (7.9)                         | 13.3 (5.2)        |
| 96          | 12                      | 8                        | 199 (133)                         | 15.5 (0.61)                    | 23.3 (9.2)                         | 15.5 (6.1)        |
| 120         | 12                      | 10                       | 255 (171)                         | 17.8 (0.70)                    | 26.7 (10.5)                        | 17.8 (7.0)        |
| 144         | 12                      | 16                       | 258 (173)                         | 19.4 (0.76)                    | 29.1 (11.5)                        | 19.4 (7.6)        |
| 216         | 12                      | 18                       | 277 (186)                         | 19.8 (0.78)                    | 29.7 (11.7)                        | 19.8 (7.8)        |
| 240         | 12                      | 20                       | 301 (202)                         | 20.7 (0.81)                    | 31.1 (12.2)                        | 20.7 (8.1)        |
| 288         | 12                      | 24                       | 362 (243)                         | 22.9 (0.90)                    | 34.4 (13.5)                        | 22.9 (9.0)        |

## Transmission Performance

| Fiber Code  | K                         | C                       | S                       | S                       | E                               |
|---|---------------------------|-------------------------|-------------------------|-------------------------|---------------------------------|
| <b>Performance Option Code</b>                    | <b>30</b>                 | <b>31</b>               | <b>80</b>               | <b>90</b>               | <b>01</b>                       |
| <b>Fiber Type</b>                                 | 62.5/125 μm (850/1300 nm) | 50/125 μm (850/1300 nm) | 50/125 μm (850/1300 nm) | 50/125 μm (850/1300 nm) | Single-mode (1310/1383/1550 nm) |
| <b>Maximum Attenuation (dB/km)</b>                | 3.5/1.0                   | 3.5/1.5                 | 3.0/1.5                 | 3.0/1.5                 | 0.4/0.4/0.3                     |
| <b>Minimum LED Bandwidth (MHz•km)</b>             | 200/500                   | 500/500                 | 1500/500                | 1500/500                | - / - / -                       |
| <b>Minimum Effective Modal Bandwidth (MHz•km)</b> | *220/ -                   | *510/ -                 | **2000/ -               | ***4700/ -              | - / - / -                       |
| <b>Serial Gigabit Ethernet Distance (m)</b>       | 300/550                   | 600/600                 | 1000/600                | 1000/600                | 5000/ - / -                     |
| <b>Serial 10 Gigabit Ethernet Distance (m)</b>    | 33/ -                     | 82/ -                   | 300/ -                  | ****550/ -              | 10000/40000                     |

\* As predicted by RML BW, per TIA/EIA 455-204 and IEC 60793-1-41, for intermediate performance laser-based systems (up to 1 Gb/s).

\*\* As predicted by minEMBc, per TIA/EIA 455-220 and IEC 60793-1-49, for high performance laser-based systems (up to 10 Gb/s).

\*\*\* As predicted by minEMBc, per TIA/EIA 455-220 and IEC 60793-1-49, for high performance laser-based systems (up to 10 Gb/s).

\*\*\*\* The 550 m distance is equivalent to a 4700 EMB system with standards-compliant transceiver and fiber characteristics, 3.0 dB/km cable attenuation and 1.0 dB total connector loss.

# FREEDM® Loose Tube Gel-Free Cables

A LANscape® Pretium™ Solutions Product

Corning  
Cable Systems

## Ordering Information

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Contact Customer Service for other options.

CS-214  
CS-218

**W F - T 4 1**   **D 2 0**  
**1 2 3 4 5 6 7 8 9 10 11 12 13 14**

**1 - 3 Select fiber count.**

Standard Offerings:

036 072 144 216

048 096 192 288

**4 Select fiber code (see Transmission Performance Table).**

**5 / 12 Defines cable type.**

W/D = FREEDM® Gel-Free Cable

**6 Defines outer jacket.**

F = Indoor/outdoor riser

**7 Defines fiber placement.**

T = 12 fibers/buffer tube (standard)

**8 Defines length markings.**

4 = Markings in feet (standard)

**9 Defines tensile strength (see Specifications).**

**10 - 11 Select performance option code.  
(see Transmission Performance Table).**

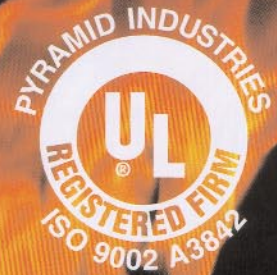
**13 - 14 Defines special requirements.**

20 = No special requirements

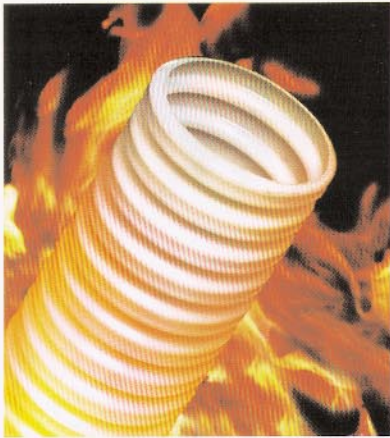




# Interior Raceways Flame Retardant Plenum and Riser Conduits



Fire-Flex Plenum Duct



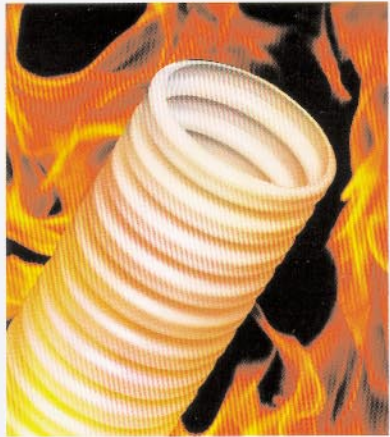
### Fire-Flex Plenum Duct

Fire-Flex Plenum Duct is a flexible, nonmetallic corrugated raceway for installation in ducts, plenums, risers or other environmental air spaces in accordance with NEC Article 770-51(e), *Listing Requirements for Optical Fiber Cables and Raceways*, and NEC Article 770-53(a), *Applications of Listed Fiber Cables and Raceways*. Pyramid Fire-Flex Plenum satisfies UL-2024 standards for low smoke and flame propagation.

Custom lengths and Slit Duct are available upon request. Standard color is white. (Other colors available).



Fire-Flex HF Riser Duct



### Fire-Flex HF (Halogen Free) Riser Duct

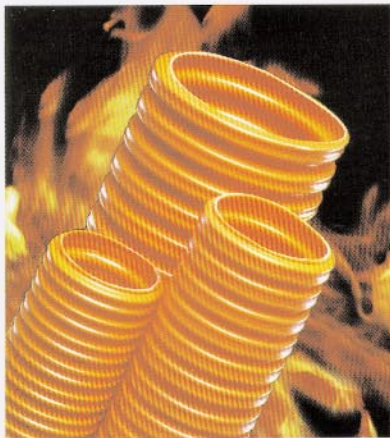
Only Pyramid Industries offers a raceway that releases zero halogens upon combustion. This flexible, nonmetallic raceway is installed in riser spaces in compliance with NEC Article 770-51(f), *Listing Requirements for Optical Fiber Cable and Raceways*, and NEC Article 770-53(b) *Applications of Listed Fiber Cables and Raceways*.

Pyramid Fire-Flex Riser meets all requirements of UL-2024, *Standard Test for Flame Propagation of Optical-Fiber Cable Installed Vertically in Shafts*.

Custom lengths and Slit Duct are available upon request. Standard color is white. (No other colors available).



Fire-Flex Riser Duct



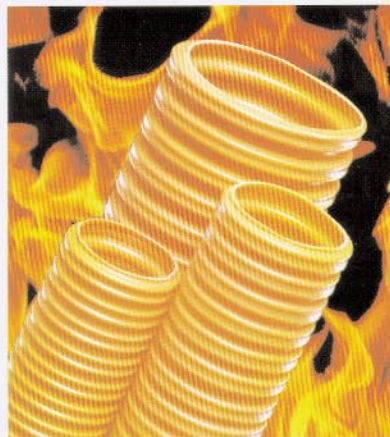
### Fire-Flex Riser Duct

Pyramid Fire-Flex Riser Duct is a flexible, nonmetallic raceway installed in vertical runs or in shafts, and capable of preventing the spread of fire between floors. This product is compliant to NEC Article 770-51(f), *Listing Requirements for Optical Fiber Cables and Raceways*, and NEC Article 770-53(b), *Applications of Listed Fiber Cables and Raceways*. Pyramid Fire-Flex Riser Duct satisfies UL-2024 test standards.

Custom lengths and Slit Duct are available upon request. Standard color is orange. (Other colors available).



Fire-Flex GP Duct



### Fire-Flex GP Duct

Pyramid General Purpose Fire-Flex is a pliable, nonmetallic fire-resistant raceway for installation in general purpose applications, in accordance with NEC Article 770-51(g), *Listing Requirements for Optical Fiber Cables and Raceways*, and NEC Article 770-53(c), *Applications of Listed Fiber Cables and Raceways*.

Custom lengths and Slit Duct are available upon request. Standard color is orange. (Other colors available).



**Fire-Flex Plenum Duct**

| Properties                       | Test Method | Value |
|----------------------------------|-------------|-------|
| Smoke peak optical density       | UL-2024     | 0.033 |
| Smoke average optical density    | UL-2024     | 0.009 |
| Max. flame spread distance (ft.) | UL-2024     | 1.9'  |
| Oxygen index (%)                 | ASTM D-2836 | 60    |
| Crystalline meltpoint (F)        | ASTM D-2239 | 300   |
| Deflection temp. (66 psi F)      | ASTM D-648  | 210   |

| Duct Size        | Pyramid Part # | Std. Lengths |
|------------------|----------------|--------------|
| 1" <b>CS-222</b> | PLM 100T       | 8,000 ft.*   |
| 1-1/4"           | PLM 125T       | 6,000 ft.*   |
| 1-1/2"           | PLM 150T       | 2,000 ft.*   |
| 2"               | PLM 200T       | 2,000 ft.*   |

**Fire-Flex HF Riser Duct**

| Properties                | Test Method | Value |
|---------------------------|-------------|-------|
| Maximum flame propagation | UL-2024     | 3' 6" |
| Maximum air temperature   | UL-2024     | 387 F |

| Duct Size | Pyramid Part # | Std. Lengths |
|-----------|----------------|--------------|
| 1"        | RHF 100T       | 5,000 ft.*   |
| 1-1/4"    | RHF 125T       | 4,000 ft.*   |
| 1-1/2"    | RHF 150T       | 2,000 ft.*   |
| 2"        | RHF 200T       | 2,000 ft.*   |

**Fire-Flex Riser Duct**

| Properties                | Test Method | Value |
|---------------------------|-------------|-------|
| Maximum flame propagation | UL-2024     | 4'    |
| Maximum air temperature   | UL-2024     | 401 F |

| Duct Size | Pyramid Part # | Std. Lengths |
|-----------|----------------|--------------|
| 1"        | RIS 100T       | 5,000 ft.*   |
| 1-1/4"    | RIS 125T       | 4,000 ft.*   |
| 1-1/2"    | RIS 150T       | 2,000 ft.*   |
| 2"        | RIS 200T       | 2,000 ft.*   |

**Fire-Flex GP Duct**


| Properties             | Test Method | Value  |                   |      |       |       |
|------------------------|-------------|--|-------------------|------|-------|-------|
| Residual Flame         | UL-2024     | 0 seconds  |                   |      |       |       |
| Max. Flame Propagation | UL 2024     | <table border="1"> <tr> <td>Max. Flame Height</td> <td>Melt</td> </tr> <tr> <td>2' 9"</td> <td>3'-8"</td> </tr> </table> | Max. Flame Height | Melt | 2' 9" | 3'-8" |
| Max. Flame Height      | Melt        |  |                   |      |       |       |
| 2' 9"                  | 3'-8"       |  |                   |      |       |       |

| Duct Size        | Pyramid Part # | Std. Lengths |
|------------------|----------------|--------------|
| 1" <b>CS-221</b> | GP 100T        | 8,000 ft.*   |
| 1-1/4"           | GP 125T        | 5,500 ft.*   |
| 1-1/2"           | GP 150T        | 4,500 ft.*   |
| 2"               | GP 200T        | 2,000 ft.*   |

# MaxCell®


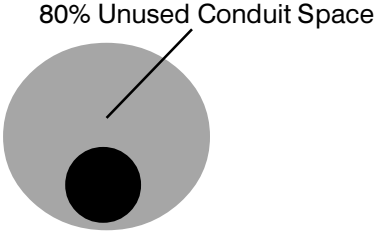

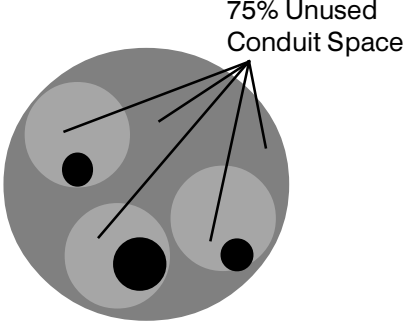
## Maximize Your Cable Density

- 2 Cables - 1 1/2" Conduit
- 3 Cables - 2" Conduit**
- 6 Cables - 3" Conduit
- 9 Cables - 4" Conduit**
- 12 Cables - 5" Conduit
- 15 Cables - 6" Conduit



MaxCell® utilizes up to 80% of conduit space without affecting cable pulling tension

**Traditional Construction Methods**

|   |                          |  |
|---|--------------------------|--|
|   | <p><b>2" Conduit</b></p> |  <p>80% Unused Conduit Space</p>  |
|  | <p><b>4" Conduit</b></p> |  <p>75% Unused Conduit Space</p> |

MaxCell® takes the shape of the cable placed into it having virtually no unused space



4" Conduit with 9 Cables Page 144



2" Conduit with 3 Cables



## Flexible Engineered Fabric Conduits

- Maximize Cable Density
- MaxCell® takes the shape of the cable being placed



• Place MaxCell® packs all at once or add one at a time. Place one MaxCell® Cable 3 pack, and add a second or third as you need it.

- Lightweight - 1/12 the weight of standard innerduct

- High rope or tape burn-through resistances - 480° melt - which is over twice the melt of HDPE innerduct



HDPE Burn Through

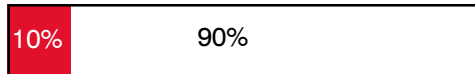
- Does not spiral like conventional innerduct - lowering cable pulling tension



HDPE Spiral

- Dissipates heat much better than innerducts or multi-cell ducts - heat dissipates in 4" ID vs. 1 1/4" ID for innerducts, which results in lower pulling tensions
- Extremely easy to place MaxCell® — very lightweight and flexible — no special capstans or winches required like conventional innerduct. Longer pulls — lower installation costs
- MaxCell® lays flat on the reel. More cost effective shipping/handling
- High tensile strength

- Less warehouse space required

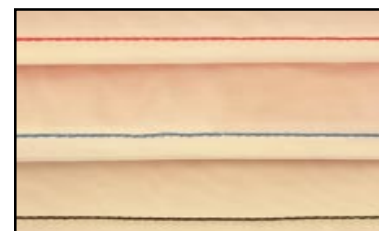


**Reduce warehouse space by 90%**

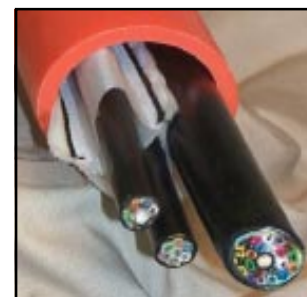
- Easy entry and re-entry; engineered fabric will not rip or tear
- Manufactured with a cable-pulling tape in all cells



- All cells will accept up to one 1" diameter cable - you don't have to place a 2" HDPE to handle your 1" diameter cables
- Easy to rod — with continuous rodder if a tape or rope breaks
- Color-coded by printing and stitching to easily identify each cell



- Water repellant — will not absorb water
- Chemically resistant to ground chemicals and petroleum products
- Can be placed into occupied conduits with existing cables



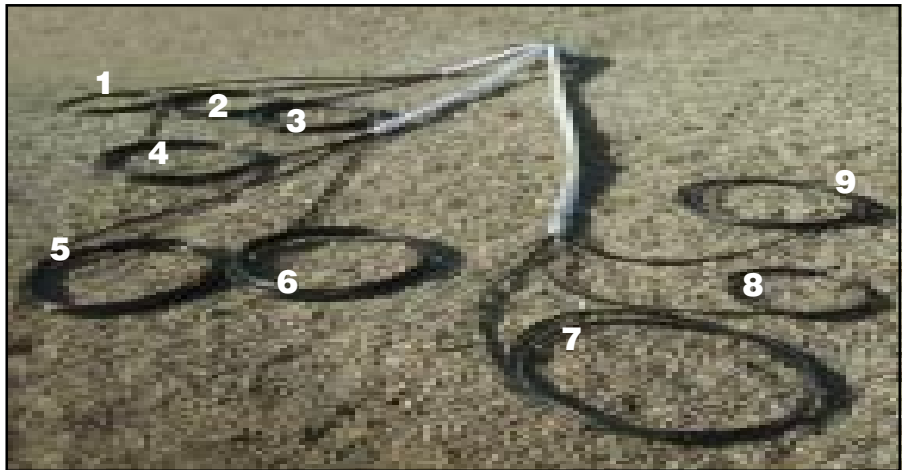
- Engineered fabric has a low co-efficient of friction - low cable pulling tension
- Tests have shown cable pulling tension is not affected adversely until conduit ID is over 80%

# MaxCell® **Maximize your Cable Density**

Field Test Results

Patent Pending- Vikimatic Sales, Inc.,  
A TVC Communications Communications

- Conduit - 2500 ft. of 4" Sch. 40 PVC
- Construction Method - Open trench.
- Extremely rocky and wet - going under 2 creeks with several sweeping changes in direction.
- No select backfill used.
- 3 MaxCell® 3-packs -- allow for 9 cables to be placed
- MaxCell® - Pulling tension to place 3 packs of 3-way MaxCell - 600#



## Cable Pulling Chart

### Blue Thread MaxCell - Bottom Pack

| <u>Order</u> | <u>Cell</u> | <u>Cable Dia.</u> | <u>Fiber Count</u> | <u>Cable Mfg.</u> | <u>Pulling Tension</u> |
|--------------|-------------|-------------------|--------------------|-------------------|------------------------|
| First        | Bottom      | .4"               | 48                 | Alcatel           | 450#                   |
| Second       | Middle      | .9"               | 132                | Alcatel           | 600#                   |
| Third        | Top         | .5"               | 72                 | Siecor            | 350#                   |

### Red Thread MaxCell - Middle Pack

|        |        |     |     |         |      |
|--------|--------|-----|-----|---------|------|
| Fourth | Bottom | .5" | 72  | Siecor  | 350# |
| Fifth  | Middle | .5" | 72  | Siecor  | 350# |
| Sixth  | Top    | .9" | 252 | Alcatel | 600# |

### Black Thread MaxCell - Top Pack

|         |        |     |     |         |      |
|---------|--------|-----|-----|---------|------|
| Seventh | Bottom | .8" | 144 | Alcatel | 600# |
| Eighth  | Middle | .5" | 72  | Siecor  | 350# |
| Ninth   | Top    | .5" | 72  | Alcatel | 450# |

Cable density or number of cables seems to add no more pulling tension than if a single cable was pulled in.

The ninth cable pulled in at the same tension as the first cable.



**For Additional Information  
Please Call...  
1-888-USA-FIBER**



*The Patented,  
Flexible, Textile Innerduct*

**Home    Products    Technical    Installation    Termination    Reference    Literature**

### MAXCELL PART NUMBER OVERVIEW

MaxCell is offered in a variety of configurations and reel sizes. The part numbers used for ordering Maxcell are constructed using by as many as 14 characters:

**MXC3456RD10000**

**MX** is the standard prefix to identify the product as a MaxCell product.

**C** is the Product Line Code.....**C**=Standard, **D**=Detectable, **P**=Plenum

**3456** is the Product Configuration Code.....**3456**= 3" 3 Cell, **2002**= 2" 2 Cell,  
**2003**= 2" 3 Cell, **4003**= 4" 3 Cell,  
**1251**= 1.25" 1 Cell

**RD** is the color code.....**BK** = Black, **RD** = Red, **BL** = Blue,  
**YL** = Yellow, **WH** = White, **PR** = Purple.

**10000** is a standard footage\*.....Standard Footages used in Part Number

*\*The standard footages used in our part numbers do represent standard put up reel lengths, but they also represent pricing standards. Standard footages are also used for custom orders but such orders require textual definition to specific reel lengths.*

#### MaxCell Product Line Overview

Using the above part number configuration, our part numbers for all product lines are below.

| Product                | Footage   | Standard Product (MXC) | Plenum Product (MXP) | Detectable Product (MXD) |
|------------------------|-----------|------------------------|----------------------|--------------------------|
| <b>3" 3 Cell Black</b> | 250 Box   | MXC 3456 BK 250        | MXP 3456 BK 250      | MXD 3456 BK 250          |
|                        | 500-999   | MXC 3456 BK 500        | MXP 3456 BK 500      | MXD 3456 BK 500          |
|                        | 1000-2649 | MXC 3456 BK 1000       | MXP 3456 BK 1000     | MXD 3456 BK 1000         |
|                        | 2650-5299 | MXC 3456 BK 2650       | MXP 3456 BK 2650     | MXD 3456 BK 2650         |
|                        | 5300-9999 | MXC 3456 BK 5300       | MXP 3456 BK 5300     | MXD 3456 BK 5300         |
|                        | 10000-    | MXC 3456 BK 10000      | MXP 3456 BK 10000    | MXD 3456 BK 10000        |
| <b>3" 3 Cell Red</b>   | 250 Box   | MXC 3456 RD 250        | MXP 3456 RD 250      | MXD 3456 RD 250          |
|                        | 500-999   | MXC 3456 RD 500        | MXP 3456 RD 500      | MXD 3456 RD 500          |
|                        | 1000-2649 | MXC 3456 RD 1000       | MXP 3456 RD 1000     | MXD 3456 RD 1000         |
|                        | 2650-5299 | MXC 3456 RD 2650       | MXP 3456 RD 2650     | MXD 3456 RD 2650         |
|                        | 5300-9999 | MXC 3456 RD 5300       | MXP 3456 RD 5300     | MXD 3456RD 5300          |
|                        | 10000-    | MXC 3456 RD 10000      | MXP 3456 RD 10000    | MXD 3456 RD 10000        |

CS-223

|                                   |           |                   |                                      |                   |
|-----------------------------------|-----------|-------------------|--------------------------------------|-------------------|
| <b>3" 3 Cell Blue</b>             | 250 Box   | MXC 3456 BL 250   | MXP 3456 BL 250                      | MXD 3456 BL 250   |
|                                   | 500-999   | MXC 3456 BL 500   | MXP 3456 BL 500                      | MXD 3456BL 500    |
|                                   | 1000-2649 | MXC 3456 BL 1000  | MXP 3456 BL 1000                     | MXD 3456 BL 1000  |
|                                   | 2650-5299 | MXC 3456 BL 2650  | MXP 3456 BL 2650                     | MXD 3456 BL 2650  |
|                                   | 5300-9999 | MXC 3456 BL 5300  | MXP 3456 BL 5300                     | MXD 3456 BL 5300  |
|                                   | 10000-    | MXC 3456 BL 10000 | MXP 3456 BL 10000                    | MXD 3456 BL 10000 |
| <b>3" 3 Cell All Other Colors</b> | 250 Box   | MXC 3456 XX 250   | MXP 3456 XX 250                      | MXD 3456 XX 250   |
|                                   | 500-999   | MXC 3456 XX 500   | MXP 3456 XX 500                      | MXD 3456 XX 500   |
|                                   | 1000-2649 | MXC 3456 XX 1000  | MXP 3456 XX 1000                     | MXD 3456 XX 1000  |
|                                   | 2650-5299 | MXC 3456 XX 2650  | MXP 3456 XX 2650                     | MXD 3456 XX 2650  |
|                                   | 5300-9999 | MXC 3456 XX 5300  | MXP 3456 XX 5300                     | MXD 3456 XX 5300  |
|                                   | 10000-    | MXC 3456 XX 10000 | MXP 3456 XX 10000                    | MXD 3456 XX 10000 |
| <b>2" 2 Cell Purple</b>           | 250 Box   | MXC 2002 PR 250   | MXP 2002 PR 250                      | MXD 2002 PR 250   |
|                                   | 500-999   | MXC 2002 PR 500   | MXP 2002 PR 500                      | MXD 2002 PR 500   |
|                                   | 1000-2649 | MXC 2002 PR 1000  | MXP 2002 PR 1000                     | MXD 2002 PR 1000  |
|                                   | 2650-5299 | MXC 2002 PR 2650  | MXP 2002 PR 2650                     | MXD 2002 PR 2650  |
|                                   | 5300-9999 | MXC 2002 PR 5300  | MXP 2002 PR 5300                     | MXD 2002 PR 5300  |
|                                   | 10000-    | MXC 2002 PR 10000 | MXP 2002 PR 10000                    | MXD 2002 PR 10000 |
| <b>2" 2 Cell All Other Colors</b> | 250 Box   | MXC 2002 XX 250   | MXP 2002 XX 250                      | MXD 2002 XX 250   |
|                                   | 500-999   | MXC 2002 XX 500   | MXP 2002 XX 500                      | MXD 2002 XX 500   |
|                                   | 1000-2649 | MXC 2002 XX 1000  | MXP 2002 XX 1000                     | MXD 2002 XX 1000  |
|                                   | 2650-5299 | MXC 2002 XX 2650  | MXP 2002 XX 2650                     | MXD 2002 XX 2650  |
|                                   | 5300-9999 | MXC 2002 XX 5300  | MXP 2002 XX 5300                     | MXD 2002 XX 5300  |
|                                   | 10000-    | MXC 2002 XX10000  | MXP 2002 XX 10000                    | MXD 2002 XX 10000 |
| <b>2" 3 Cell Yellow</b>           | 250 Box   | MXC 2003 YL 250   | MXP 2003 YL 250                      | MXD 2003 YL 250   |
|                                   | 500-999   | MXC 2003 YL 500   | MXP 2003 YL 500                      | MXD 2003 YL 500   |
|                                   | 1000-2649 | MXC 2003 YL 1000  | MXP 2003 YL 1000                     | MXD 2003 YL 1000  |
|                                   | 2650-5299 | MXC 2003 YL 2650  | MXP 2003 YL 2650                     | MXD 2003 YL 2650  |
|                                   | 5300-9999 | MXC 2003 YL 5300  | MXP 2003 YL 5300                     | MXD 2003 YL 5300  |
|                                   | 10000-    | MXC 2003 YL 10000 | MX 2003 YL 10000                     | MXD 2003 YL 10000 |
| <b>2" 3 Cell All Other Colors</b> | 250 Box   | MXC 2003 XX 250   | MXP 2003 XX 250                      | MXD 2003 XX 250   |
|                                   | 500-999   | MXC 2003 XX 500   | MXP 2003 XX 500                      | MXD 2003 XX 500   |
|                                   | 1000-2649 | MXC 2003 XX 1000  | MXP 2003 XX 1000                     | MXD 2003 XX 1000  |
|                                   | 2650-5299 | MXC 2003 XX 2650  | MXP 2003 XX 2650                     | MXD 2003 XX 2650  |
|                                   | 5300-9999 | MXC 2003 XX 5300  | MXP 2003 XX 5300                     | MXD 2003 XX 5300  |
|                                   | 10000-    | MXC 2003 XX 10000 | MXP 2003 XX 10000                    | MXD 2003 XX 10000 |
| <b>4" 3 Cell Green</b>            | 250 Box   | MXC 4003 GR 250   | <i>Plenum 4"3 Cell Not Available</i> | MXD 4003 GR 250   |
|                                   | 500-999   | MXC 4003 GR 500   |                                      | MXD 4003 GR 500   |
|                                   | 1000-2649 | MXC 4003 GR 1000  |                                      | MXD 4003 GR 1000  |
|                                   | 2650-5299 | MXC 4003 GR 2650  |                                      | MXD 4003 GR 2650  |
|                                   | 5300-9999 | MXC 4003 GR 5300  |                                      | MXD 4003 GR 5300  |
|                                   | 10000-    | MXC 4003 GR 10000 |                                      | MXD 4003 GR 10000 |
| <b>4" 3 Cell All Other Colors</b> | 250 Box   | MXC 4003 XX 250   | <i>Plenum 4"3 Cell Not Available</i> | MXD 4003 XX 250   |
|                                   | 500-999   | MXC 4003 XX 500   |                                      | MXD 4003 XX 500   |
|                                   | 1000-2649 | MXC 4003 XX 1000  |                                      | MXD 4003 XX 1000  |
|                                   | 2650-5299 | MXC 4003 XX 2650  |                                      | MXD 4003 XX 2650  |
|                                   | 5300-9999 | MXC 4003 XX 5300  |                                      | MXD 4003 XX 5300  |
|                                   | 10000-    | MXC 4003 XX 10000 |                                      | MXD 4003 XX 10000 |

|   |           |                   |                   |                   |
|---|-----------|-------------------|-------------------|-------------------|
| <b>1.25" 1 Cell<br/>(Teardrop)<br/>White</b>            | 250 Box   | MXC 1251 WH 250   | MXP 1251 WH 250   | MXD 1251 WH 250   |
|   | 500-999   | MXC 1251 WH 500   | MXP 1251 WH 500   | MXD 1251 WH 500   |
|   | 1000-2649 | MXC 1251 WH 1000  | MXP 1251 WH 1000  | MXD 1251 WH 1000  |
|   | 2650-5299 | MXC 1251 WH 2650  | MXP 1251 WH 2650  | MXD 1251 WH 2650  |
|   | 5300-9999 | MXC 1251 WH 5300  | MXP 1251 WH 5300  | MXD 1251 WH 5300  |
|   | 10000-    | MXC 1251 WH 10000 | MXP 1251 WH 10000 | MXD 1251 WH 10000 |
| <b>1.25" 1 Cell<br/>(Teardrop)<br/>All Other Colors</b> | 250 Box   | MXC 1251 XX 250   | MXP 1251 XX 250   | MXD 1251 XX 250   |
|   | 500-999   | MXC 1251 XX 500   | MXP 1251 XX 500   | MXD 1251 XX 500   |
|   | 1000-2649 | MXC 1251 XX 1000  | MXP 1251 XX 1000  | MXD 1251 XX 1000  |
|   | 2650-5299 | MXC 1251 XX 2650  | MXP 1251 XX 2650  | MXD 1251 XX 2650  |
|   | 5300-9999 | MXC 1251 XX 5300  | MXP 1251 XX 5300  | MXD 1251 XX 5300  |
|   | 10000-    | MXC 1251 XX 10000 | MXP 1251 XX 10000 | MXD 1251 XX 10000 |

Pricing for all orders is based on individual reel lengths. The standard colors for each product are shown above. When Using XX for non-standard colors, textual definition is required on the order as to the required color.

When ordering custom length reels, the standard length reel part number less than the required length is used for both part numbers and pricing and textual definition is required for specific lengths.

For example, for standard black 3" 3 Cell, when needing 4 reels with 3500' each, the pricing is based upon the MXC3456BK2650 and the Purchase Order shall read:

**Part#** : MXC3456BK2650

**Qty**: 14,000' (4 reels, 3500' each)

Purchase Orders received with evenly divided standard footages and no text notes will be interpreted as standard reel length orders with no request clarification. An order received with part number MXC3456BK2650 and a quantity of 10,600 will be shipped as 4 x 2650' reels

### MaxCell Accessory Part Numbers

#### Accessories - Installation Kits

| Part #  | Description  |
|---------|--|
| MXCIK11 | Install kit for all products, <i>single pack pulls</i> |
| MXCIK21 | Install kit for all products, <i>double pack pulls</i> |
| MXCIK31 | Install kit for all products, <i>triple pack pulls</i> |

#### Accessories - Installation Parts

| Part # | Description             |
|--------|-------------------------|
| MXCSW  | 1800lb swivel, .875" OD |
| MXC2CH | 2-Way chain harness     |
| MXC3CH | 3-Way chain harness     |

#### Accessories - Termination Products-Inflatable

| Part #  | Description                                 |
|---------|---|
| MXCITB3 | Inflatable termination bag for a 3" conduit |
| MXCITB4 | Inflatable termination bag for a 4" conduit |
| MXCITB5 | Inflatable termination bag for a 5" conduit |
| MXCITB6 | Inflatable termination bag for a 6" conduit |
| MXCITT  | Inflation termination tool                  |
| MXCIGC  | CO2 Gas cartridge for MXCITT                |

### Accessories - Termination Products- 100% Water Tight Split Plugs

| Part #      | Description                          |
|-------------|--------------------------------------|
| MXCTP4      | 4" Duct water tight termination plug |
| MXCTP6      | 6" Duct water tight termination plug |
| MXCTBSET070 | Bushing set, MaxCell for .70" holes  |
| MXCTBSET090 | Bushing set, MaxCell for .90" holes  |
| MXCTBSET110 | Bushing set, MaxCell for 1.10" holes |

Site last update on 11/25/2003

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**The MaxCell Group**  
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**(888) 387-3828**

# Closet Connector Housings (CCH-02U & CCH-01U)

A LANscape® Solutions Product

Corning  
Cable Systems

## Applications

Corning Cable Systems Closet Connector Housings (CCHs) provide interconnect or cross-connect capabilities between the outside plant, riser, or distribution cables, and the opto-electronics.

## Description

The units can be rack-mounted in 19-in (48 cm) or 23-in (58 cm) equipment racks (1.75-in EIA hole spacing) and are available in one rack space (two connector panels) or two rack spaces (four panels).

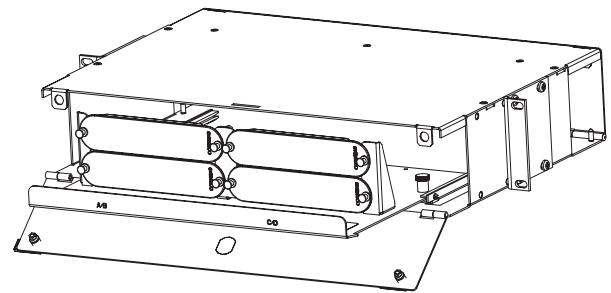
Closet connector housings can be ordered with connector panels for multimode and single-mode applications. Connector panels are offered in 6-, 8-, 12-, 16- and 24-fiber configurations. Documentation labels are provided and units or components can be added as needed to construct a fiber distribution frame for any application.

## Features / Benefits

- Ideal for field connectorization
- Suitable for loose tube, tight-buffered and optical fiber ribbon cables
- Mounting configurations include standard 4.5-in (11.4 cm) frontal projection and 3-in (7.62 cm), partially flush
- Multiple locations for jumper egress
- Accepts CCH connector panels or modules
- Slide-out drawer for easy connector access
- Lock can be field-installed
- Meets requirements of ANSI/TIA/EIA-568A and 606
- Brackets included for rack-mounting in 19-in or 23-in equipment racks

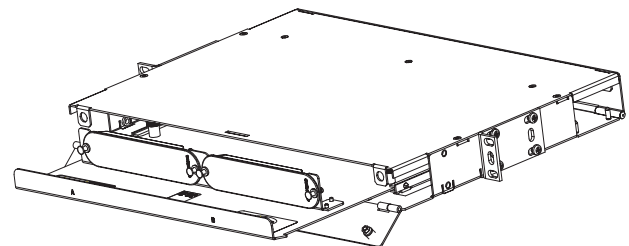


Closet Connector Housings (CCH-02U and CCH-01U) | Photo CPC71



CCH-02U (up to 96 fibers) | Drawing ZA-2800

*Note: One "U" = One industry-standard rack space of 1.75 inches.*



CCH-01U (up to 48 fibers) | Drawing ZA-2801

# Closet Connector Housings (CCH-02U & CCH-01U)

A LANscape® Solutions Product

Corning  
Cable Systems

## Specifications

| Part Number           | Dimensions (H x W x D)<br>cm (in)  | Shipping Weight<br>kg (lb) |
|-----------------------|------------------------------------|----------------------------|
| <b>CS-224</b> CCH-01U | 4.4 x 43.2 x 30.5 (1.75 x 17 x 12) | 2.3 (5)                    |
| <b>CS-225</b> CCH-02U | 8.9 x 43.2 x 30.5 (3.5 x 17 x 12)  | 2.7 (6)                    |

## Ordering Information

| Part Number | Description  |
|-------------|--|
| CCH-01U     | Closet Connector Housing that will accept up to two CCH panels; comes with blank panels and hardware to strain-relieve one cable with the UCC or up to five 0.4-in or smaller cables with the UCC insert; two 6-fiber panels = 12 fiber total capacity; two 8-fiber panels = 16 fiber total capacity; two 12-fiber panels = 24 fiber total capacity; two 16-fiber panels = 32 fiber total capacity; two 24-fiber panels = 48 fiber total capacity (MT-RJ and LC)       |
| CCH-02U     | Closet Connector Housing that will accept up to four CCH panels; comes with blank panels and hardware to strain-relieve one cable with the UCC or up to five 0.4-in or smaller cables with the UCC insert; four 6-fiber panels = 24 fiber total capacity; four 8-fiber panels = 32 fiber total capacity; four 12-fiber panels = 48 fiber total capacity; four 16-fiber panels = 64 fiber total capacity; four 24-fiber panels = 96 fiber total capacity (MT-RJ and LC) |

## Accessories

|                    |  |
|--------------------|--|
| CCH-LABEL-01U-2410 | Replacement Label Kit for the CCH (1-rack-space housing); contains 10 labels   |
| CCH-LABEL-02U-4810 | Replacement Label Kit for the CCH (2-rack-space housing); contains 10 labels   |
| CCH-WALLMNT-KIT    | Bracket Kit for wall mounting the CCH, 6 rack spaces tall, hinged  |
| CPP-UCC-KIT        | One Bracket and Two Universal Cable Clamps (UCCs); each housing is shipped with one bracket and two UCCs; an additional bracket and UCC can be added |
| CJP-01U            | Closet Jumper Management Panel; provides jumper management in a 1.75-in rack space   |
| CJP-02U            | Closet Jumper Management Panel; provides jumper management in a 3.5-in rack space  |
| HDWR-LOCK-KIT      | Lock Kit for front door of housing; contains one lock with two keys  |
| FDC-CABLE-GRND     | Armored Cable Grounding Kit; contains armor grounding clip and ground strap  |
| CDF-01U-24-BKT     | Brackets for mounting the CCH-01U on a 24-in rack  |
| CDF-02U-24-BKT     | Brackets for mounting the CCH-02U on a 24-in rack  |

## Connector Panels and Modules

Must be ordered separately

Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA  
1-800-743-2675 • FAX: +1-828-901-5973 • International: +1-828-901-5000 • <http://www.corning.com/cablesystems>

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LAN-236-EN / June 2005 / pdf



# Closet Connector Housings (CCH-04U & CCH-03U)

A LANscape® Solutions Product

Corning  
Cable Systems

## Applications

Corning Cable Systems Closet Connector Housings (CCHs) provide interconnect or cross-connect capabilities between the outside plant, riser, or distribution cables, and the optoelectronics.

## Description

The units can be rack-mounted in 19-in (48 cm) racks or an optional 23-in (58 cm) equipment rack (1.75-in EIA hole spacing) and are available in three-rack-space (6 panels) or four-rack-space (12 panels) versions. For installations requiring 144 fibers, the capacity can be achieved using SC simplex, SC duplex, LC and MT-RJ connectors for 12 fibers per panel in conjunction with the 4-rack-space housing. For installations requiring up to 288 fibers, the capacity can be achieved using LC and MT-RJ connectors for 24 fibers per panel in conjunction with the 4-rack-space housing.

Closet connector housings can be ordered with connector panels for multimode and single-mode applications. Connector panels are offered in 6-, 8-, 12-, 16- and 24-fiber configurations. Documentation labels are provided and units or components can be added as needed to construct a fiber distribution frame for any application.

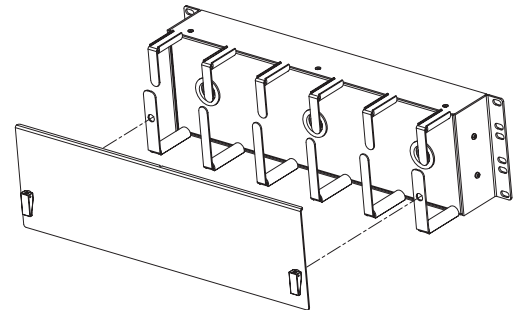
The 3- and 4-rack-space versions of the CCH have been designed with an open top, located in the front of the housing. The opening, when used in conjunction with the closet jumper management panel (CJP), facilitates jumper routing.

## Features / Benefits

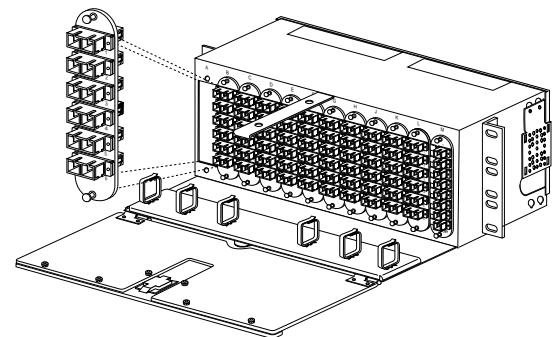
- Ideal for field connectorization
- Includes mounting provisions for buffer tube fan-out kits
- Suitable for loose tube, tight-buffered and optical fiber ribbon cables
- Mounting configurations include standard 4.5-in (11.4 cm) frontal projection, partially flush and fully flush (with optional kit)
- Multiple locations for jumper egress



CCH-04U (open) | Photo LAN209

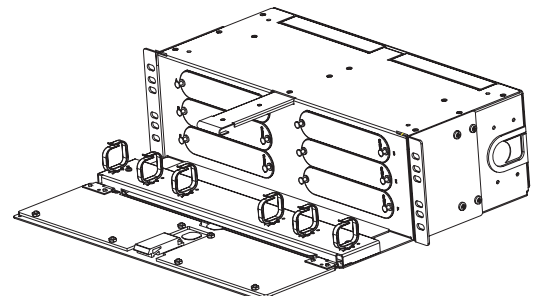


CJP-02U | Drawing ZA-2812



Note: One "U" = One industry-standard rack space of 1.75 inches.

CCH-04U (up to 288 fibers) | Drawing CPC-220/5/1



CCH-03U (up to 144 fibers) | Drawing ZA-2799



# Closet Connector Housings (CCH-04U & CCH-03U)

A LANscape® Solutions Product

Corning  
Cable Systems

## Features / Benefits (continued)

- Removable, durable, clear polycarbonate-tinted front door
- Lock can be field-installed
- Accepts CCH connector panels and modules
- Open top of housing for vertical pigtail or jumper exiting
- Optional top and side covers available
- Meets requirements of ANSI/TIA/EIA-568A and 606
- Brackets included for rack mounting in 19-in equipment racks; 23-in rack-mount brackets sold separately

## Specifications

| Part Number       | Dimensions (H x W x D)<br>cm (in)   | Shipping Weight<br>kg (lb) |
|-------------------|-------------------------------------|----------------------------|
| CS-226<br>CCH-03U | 13.3 x 43.2 x 30.5 (5.25 x 17 x 12) | 2.7 (6)                    |
| CS-227<br>CCH-04U | 17.8 x 43.2 x 30.5 (7 x 17 x 12)    | 3.6 (8)                    |

## Ordering Information

| Part Number | Description  |
|-------------|--|
| CCH-03U     | Closet Connector Housing that will accept up to six CCH panels or modules; comes with blank panels and hardware to strain-relieve one cable with the Universal Cable Clamp (UCC) or up to five 0.4-in or smaller cables with the UCC insert; six 6-fiber panels = 36 fiber total capacity; six 8-fiber panels = 48 fiber total capacity; six 12-fiber panels = 72 fiber total capacity; six 16-fiber panels = 96 fiber total capacity; six 24-fiber panels = 144 fiber total capacity (MT-RJ and LC)                 |
| CCH-04U     | Closet Connector Housing that will accept up to 12 CCH panels or modules; comes with blank panels and hardware to strain-relieve one cable with the Universal Cable Clamp (UCC) or up to five 0.4-in or smaller cables with the UCC insert; twelve 6-fiber panels = 72 fiber total capacity; twelve 8-fiber panels = 96 fiber total capacity; twelve 12-fiber panels = 144 fiber total capacity; twelve 16-fiber panels = 192 fiber total capacity; twelve 24-fiber panels = 288 fiber total capacity (MT-RJ and LC) |

## Pre-Loaded Housings

|               |  |
|---------------|--|
| CCH-04U-E491  | CCH-04U preloaded with 72 568SC (SC duplex) adapters (12 CCH panels), 62.5 µm MM, composite insert, composite housing      |
| CCH-04U-7291  | CCH-04U preloaded with 36 568SC (SC duplex) adapters (six CCH panels), 62.5 µm MM, composite insert, composite housing     |
| CCH-04U-E497  | CCH-04U preloaded with 72 MT-RJ adapters (12 CCH panels), 62.5 µm MM, composite housing                                    |
| CCH-04U-7297  | CCH-04U preloaded with 36 MT-RJ adapters (six CCH panels), 62.5 µm MM, composite housing                                   |
| CCH-04U-7215T | CCH-04U preloaded with 72 ST® compatible connector adapters (12 CCH panels), 62.5 µm MM, ceramic insert, composite housing |

# Wall-Mountable Connector Housings (WCH)

A LANscape® Solutions Product

Corning  
Cable Systems

## Applications

Corning Cable Systems Wall-Mountable Connector Housings provide interconnect or cross-connect capabilities between the outside plant, riser or distribution cables and the opto-electronics.

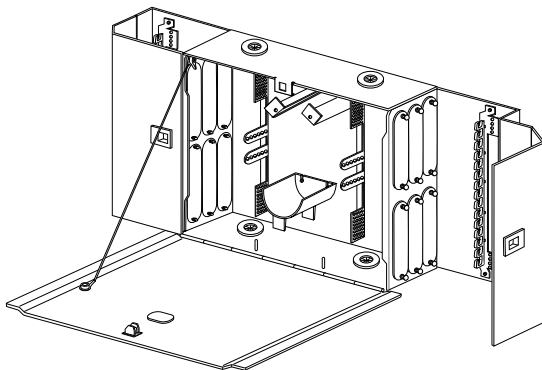
## Description

The units can be wall-mounted in main cross-connects (MCs) or telecommunication rooms (TRs), and are available in different versions: two panels, four panels, six panels and 12 panels.

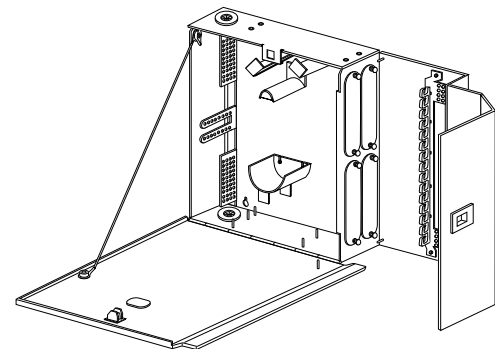
Optional products such as the wall-mountable jumper storage guide kit (WJG-02R) and cable strain-relief kit (WCH-STRNRLF-KIT) have been designed to make your wall-mountable product installation easier. The standoff bracket (WCH-STDOFF-BKT) is designed to extend the WCH housing from the wall so that cable can be routed behind the units. Brackets can be stacked to allow a larger amount of space behind.



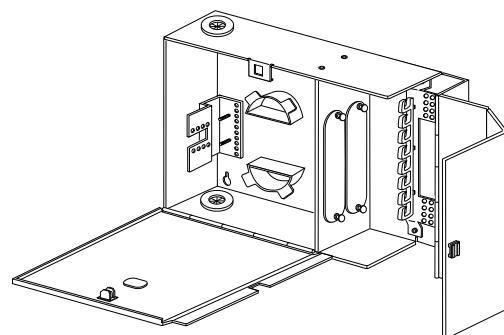
Wall-Mountable Connector Housings | Photo LAN703



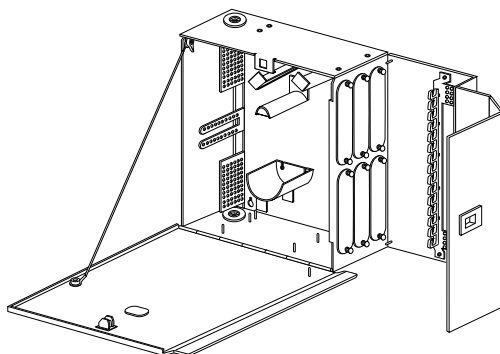
WCH-12P (up to 144 fibers) | Drawing CPC-220/5/31



WCH-04P (up to 48 fibers) | Drawing CPC-220/5/34



WCH-02P (up to 24 fibers) | Drawing CPC-220/5/35



WCH-06P (up to 72 fibers) | Drawing CPC-220/5/33

# Wall-Mountable Connector Housings (WCH)

A LANscape® Solutions Product

Corning  
Cable Systems

## Features / Benefits

- Optimized design for field connectorization
- Suitable for loose tube and tight-buffered fiber optic cables
- Metal cabinet construction
- Jumper routing guides and jumper strain-relief point
- Optional field-installable lock kit
- Includes bracket for buffer tube fan-out kits
- Optional splice tray holder allows easy cable routing and is designed to make field splicing easier; splice trays ordered separately
- Accepts standard CCH connector panels
- -04P, -06P and -12P housings have a durable, clear polycarbonate-tinted jumper door for easy viewing of jumper connections

## Specifications

|        | Part Number | Dimensions (Doors in Closed Position)<br>(H x W x D) – cm (in) | Shipping Weight<br>kg (lb) |
|--------|-------------|--|----------------------------|
| CS-231 | WCH-12P     | 34.3 x 57.1 x 13.0 (13.5 x 22.5 x 5.125)                       | 4.1 (9.0)                  |
| CS-230 | WCH-06P     | 34.3 x 40.8 x 13.0 (13.5 x 16.062 x 5.125)                     | 3.3 (7.2)                  |
| CS-229 | WCH-04P     | 34.3 x 40.8 x 10.3 (13.5 x 16.062 x 4.062)                     | 2.8 (6.2)                  |
| CS-228 | WCH-02P     | 23.5 x 33.2 x 8.2 (9.25 x 13.25 x 3.25)                        | 2.5 (5.4)                  |

## Ordering Information

| Part Number | Description  |
|-------------|--|
| WCH-12P     | Wall-Mountable Connector Housing that will accept up to 12 CCH panels;<br>twelve 6-fiber panels = 72 fiber total capacity; twelve 8-fiber panels = 96 fiber total capacity;<br>twelve 12-fiber panels = 144 fiber total capacity |
| WCH-06P     | Wall-Mountable Connector Housing that will accept up to six CCH panels;<br>six 6-fiber panels = 36 fiber total capacity; six 8-fiber panels = 48 fiber total capacity;<br>six 12-fiber panels = 72 fiber total capacity          |
| WCH-04P     | Wall-Mountable Connector Housing that will accept up to four CCH panels;<br>four 6-fiber panels = 24 fiber total capacity; four 8-fiber panels = 32 fiber total capacity;<br>four 12-fiber panels = 48 fiber total capacity      |
| WCH-02P     | Wall-Mountable Connector Housing that will accept up to two CCH panels;<br>two 6-fiber panels = 12 fiber total capacity; two 8-fiber panels = 16 fiber total capacity;<br>two 12-fiber panels = 24 fiber total capacity          |

# Closet Connector Housing Panels (CCH-CP)

A LANscape® Solutions Product

Corning  
Cable Systems

## Applications

- The panels are used with field-installable connectors or in applications where the preconnectorized cables are routed directly from the equipment to the piece of interconnect hardware
- Provides an efficient way to securely mate two or more connectors

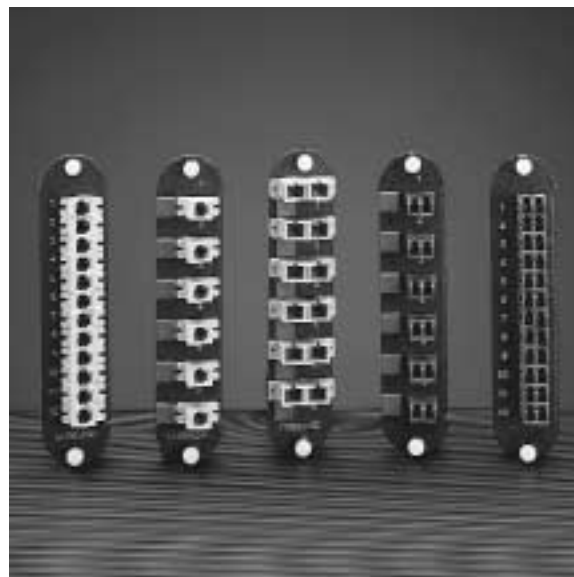
## Description

Closet Connector Housing Panels are offered in 6-, 8-, 12-, 16- and 24-fiber panels for use with the LANscape® Solutions hardware products. The panels are used with field-installable connectors or in applications where the preconnectorized cables are routed directly from the equipment to the interconnect hardware.

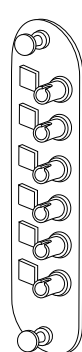
The panels are available with a variety of industry-standard adapter types. In most applications, the Closet Connector Housing Panels are designed for applications where specified labeling and connector identification are required. This is accomplished by the use of colored icons with different symbols molded into the icon.

## Features / Benefits

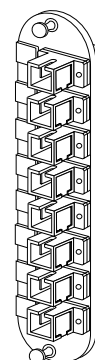
- Designed to accommodate all industry-standard adapter types
- Unique color-coded connector labeling system
- Universal approach is used; one panel size fits in all standard LANscape Solutions hardware
- Available in 6-, 8- and 12-fiber count options in most adapter styles; 16- and 24-fiber count options available in MT-RJ and LC duplex styles
- Also available for copper jacks



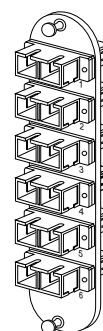
Closet Connector Housing Panels | Photo LAN215



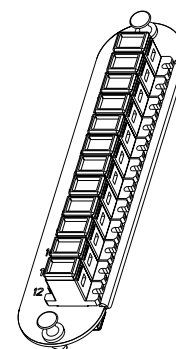
6-Fiber ST Compatible Connector Panel (CCH-CP06-25T)  
| Drawing CPC-220/5/14



8-Fiber SC Simplex Panel (CCH-CP08-56)  
| Drawing CPC-220/5/13



12-Fiber SC Duplex Panel (CCH-CP12-91)  
| Drawing CPC-220/5/12



24-Fiber MT-RJ Connector Panel (CCH-CP24-97)  
| Drawing CPC-220/5/15

# Closet Connector Housing Panels (CCH-CP)

A LANscape® Solutions Product

Corning  
Cable Systems

## Ordering Information

| Part Number                                    | Description  |
|--|--|
| <b>6-Fiber Closet Connector Housing Panels</b> |  |
| <b>FC Adapter</b>                              |  |
| CCH-CP06-11                                    | CCH Connector Panel with six Corning Cable Systems universal adapter holders with FC, single-mode  |
| CCH-CP06-21                                    | CCH Connector Panel with six FC, angle polish, single-mode adapters with metal inserts, metal housings                                   |
| <b>ST® Compatible Adapter</b>                  |  |
| CCH-CP06-15T                                   | CCH Connector Panel with six threaded bulkhead ST compatible, multimode 62.5 µm, ceramic insert, composite housing                       |
| CS-232 CCH-CP06-19T                            | CCH Connector Panel with six threaded bulkhead ST compatible, single-mode, ceramic insert, composite housing                             |
| CS-233 CCH-CP06-25T                            | CCH Connector Panel with six threaded bulkhead ST compatible, multimode 62.5 µm, composite insert, composite housing                     |
| CCH-CP06-G5                                    | CCH Connector Panel with six ST compatible, standard 50 µm multimode, ceramic insert, composite housing                                  |
| CCH-CP06-E5                                    | CCH Connector Panel with six ST compatible, Xcelerate Plus™ Solutions laser-optimized 50 µm multimode, ceramic insert, composite housing |
| <b>SC Adapter (Simplex)</b>                    |  |
| CS-234 CCH-CP06-3C                             | CCH Connector Panel with six SC simplex adapters, single-mode, ceramic insert, composite housing   |
| CCH-CP06-6C                                    | CCH Connector Panel with six SC simplex adapters, angle polish, single-mode, ceramic insert, composite housing                           |
| CS-235 CCH-CP06-56                             | CCH Connector Panel with six SC simplex adapters, multimode 62.5 µm, composite insert, composite housing                                 |
| <b>SC Adapter (Duplex)</b>                     |  |
| CCH-CP06-59                                    | CCH Connector Panel with three 568SC (SC duplex) adapters, single-mode, ceramic insert, composite housing                                |
| CCH-CP06-91                                    | CCH Connector Panel with three 568SC (SC duplex) adapters, multimode 62.5 µm, composite insert, composite housing                        |
| CCH-CP06-G7                                    | CCH Connector Panel with three SC duplex, standard 50 µm multimode, ceramic insert, composite housing                                    |
| CCH-CP06-E7                                    | CCH Connector Panel with three SC duplex, Xcelerate Plus Solutions laser-optimized 50 µm multimode, ceramic insert, composite housing    |
| <b>LC Adapter (Duplex)</b>                     |  |
| CCH-CP06-A7                                    | CCH Connector Panel with three LC duplex adapters, multimode 62.5 µm, metal insert, composite housing                                    |
| CCH-CP06-A8                                    | CCH Connector Panel with three LC duplex adapters, multimode 62.5 µm, ceramic insert, composite housing                                  |
| CCH-CP06-A9                                    | CCH Connector Panel with three LC duplex adapters, single-mode, ceramic insert, composite housing  |
| CCH-CP06-D3                                    | CCH Connector Panel with three LC duplex, standard 50 µm multimode, ceramic insert, composite housing                                    |
| CCH-CP06-E4                                    | CCH Connector Panel with three LC duplex, Xcelerate Plus Solutions laser-optimized 50 µm multimode, ceramic insert, composite housing    |
| <b>MT-RJ Adapter</b>                           |  |
| CCH-CP06-97                                    | CCH Connector Panel with three MT-RJ adapters, multimode 62.5 µm   |
| CCH-CP06-98                                    | CCH Connector Panel with three MT-RJ adapters, single-mode   |
| CCH-CP06-G1                                    | CCH Connector Panel with three MT-RJ, standard 50 µm multimode, composite housing  |
| CCH-CP06-E1                                    | CCH Connector Panel with three MT-RJ, Xcelerate Plus Solutions laser-optimized 50 µm multimode, composite housing                        |

# Closet Connector Housing Panels (CCH-CP)

A LANscape® Solutions Product

Corning  
Cable Systems

## Ordering Information (continued)

| Part Number                                    | Description  |
|--|--|
| <b>8-Fiber Closet Connector Housing Panels</b> |  |
| <b>ST® Compatible Adapter</b>                  |  |
| <b>CCH-CP08-15T</b>                            | CCH Connector Panel with eight threaded bulkhead ST compatible, multimode 62.5 µm, ceramic insert, composite housing                       |
| <b>CCH-CP08-19T</b>                            | CCH Connector Panel with eight threaded bulkhead ST compatible, single-mode, ceramic insert, composite housing                             |
| <b>CCH-CP08-25T</b>                            | CCH Connector Panel with eight threaded bulkhead ST compatible, multimode 62.5 µm, composite insert, composite housing                     |
| <b>CCH-CP08-G5</b>                             | CCH Connector Panel with eight ST compatible, standard 50 µm multimode, ceramic insert, composite housing                                  |
| <b>CCH-CP08-E5</b>                             | CCH Connector Panel with eight ST compatible, Xcelerate Plus™ Solutions laser-optimized 50 µm multimode, ceramic insert, composite housing |
| <b>SC Adapter (Simplex)</b>                    |  |
| <b>CCH-CP08-3C</b>                             | CCH Connector Panel with eight SC simplex adapters, single-mode, ceramic insert, composite housing   |
| <b>CCH-CP08-6C</b>                             | CCH Connector Panel with eight SC simplex adapters, angle polish, single-mode, ceramic insert, composite housing                           |
| <b>CCH-CP08-39</b>                             | CCH Connector Panel with eight SC simplex adapters, multimode 62.5 µm, metal insert, composite housing                                     |
| <b>CCH-CP08-56</b>                             | CCH Connector Panel with eight SC simplex adapters, multimode 62.5 µm, composite insert, composite housing                                 |
| <b>SC Adapter (Duplex)</b>                     |  |
| <b>CCH-CP08-59</b>                             | CCH Connector Panel with four 568SC (SC duplex) adapters, single-mode, ceramic insert, composite housing                                   |
| <b>CCH-CP08-91</b>                             | CCH Connector Panel with four 568SC (SC duplex) adapters, multimode 62.5 µm, composite insert, composite housing                           |
| <b>CCH-CP08-G7</b>                             | CCH Connector Panel with four SC duplex, standard 50 µm multimode, ceramic insert, composite housing                                       |
| <b>CCH-CP08-E7</b>                             | CCH Connector Panel with four SC duplex, Xcelerate Plus Solutions laser-optimized 50 µm multimode, ceramic insert, composite housing       |
| <b>LC Adapter (Duplex)</b>                     |  |
| <b>CCH-CP08-A7</b>                             | CCH Connector Panel with four LC duplex adapters, multimode 62.5 µm, metal insert, composite housing                                       |
| <b>CCH-CP08-A8</b>                             | CCH Connector Panel with four LC duplex adapters, multimode 62.5 µm, ceramic insert, composite housing                                     |
| <b>CCH-CP08-A9</b>                             | CCH Connector Panel with four LC duplex adapters, single-mode, ceramic insert, composite housing   |
| <b>CCH-CP08-D3</b>                             | CCH Connector Panel with four LC duplex, standard 50 µm multimode, ceramic insert, composite housing                                       |
| <b>CCH-CP08-E4</b>                             | CCH Connector Panel with four LC duplex, Xcelerate Plus Solutions laser-optimized 50 µm multimode, ceramic insert, composite housing       |

# Closet Connector Housing Panels (CCH-CP)

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## Ordering Information (continued)

| Part Number                                     | Description   |   |
|---|---|---|
| <b>8-Fiber Closet Connector Housing Panels</b>  |   |   |
| <b>MT-RJ Adapter</b>                            |   |   |
| CCH-CP08-97                                     | CCH Connector Panel with four MT-RJ adapters, multimode 62.5 µm   |   |
| CCH-CP08-98                                     | CCH Connector Panel with four MT-RJ adapters, single-mode   |   |
| CCH-CP08-G1                                     | CCH Connector Panel with four MT-RJ, standard 50 µm multimode, composite housing                                  |   |
| CCH-CP08-E1                                     | CCH Connector Panel with four MT-RJ, Xcelerate Plus™ Solutions laser-optimized 50 µm multimode, composite housing |   |
| <b>FC Adapter</b>                               |   |   |
| CCH-CP08-11                                     | CCH Connector Panel with eight FC, single-mode adapters with metal inserts, metal housings                        |   |
| CCH-CP08-21                                     | CCH Connector Panel with eight FC, angle polish, single-mode adapters with metal inserts, metal housings          |   |
| <b>12-Fiber Closet Connector Housing Panels</b> |   |   |
| <b>SC Adapter (Duplex)</b>                      |   |   |
| CS-236  | CCH-CP12-59   | CCH Connector Panel with six 568SC (SC duplex) adapters, single-mode, ceramic insert, composite housing                             |
| CS-237  | CCH-CP12-91   | CCH Connector Panel with six 568SC (SC duplex) adapters, multimode 62.5 µm, composite insert, composite housing                     |
|   | CCH-CP12-G7   | CCH Connector Panel with six SC duplex, standard 50 µm multimode, ceramic insert, composite housing                                 |
|   | CCH-CP12-E7   | CCH Connector Panel with six SC duplex, Xcelerate Plus Solutions laser-optimized 50 µm multimode, ceramic insert, composite housing |
| <b>LC Adapter (Duplex)</b>                      |   |   |
|   | CCH-CP12-A7   | CCH Connector Panel with six LC duplex adapters, multimode 62.5 µm, metal insert, composite housing                                 |
|   | CCH-CP12-A8   | CCH Connector Panel with six LC duplex adapters, multimode 62.5 µm, ceramic insert, composite housing                               |
|   | CCH-CP12-A9   | CCH Connector Panel with six LC duplex adapters, single-mode, ceramic insert, composite housing                                     |
|   | CCH-CP12-D3   | CCH Connector Panel with six LC duplex, standard 50 µm multimode, ceramic insert, composite housing                                 |
|   | CCH-CP12-E4   | CCH Connector Panel with six LC duplex, Xcelerate Plus Solutions laser-optimized 50 µm multimode, ceramic insert, composite housing |
| <b>SC Adapter (Simplex)</b>                     |   |   |
| CS-238  | CCH-CP12-3C   | CCH Connector Panel with 12 SC simplex, single-mode adapters with ceramic insert, composite housing                                 |
|   | CCH-CP12-6C   | CCH Connector Panel with 12 SC simplex, angle polish, single-mode adapters with ceramic insert, composite housing                   |
| CS-239  | CCH-CP12-56   | CCH Connector Panel with 12 SC simplex adapters, multimode 62.5 µm, composite insert, composite housing                             |
|   | CCH-CP12-G6   | CCH Connector Panel with 12 SC, standard 50 µm multimode  |
|   | CCH-CP12-E6   | CCH Connector Panel with 12 SC, Xcelerate Plus Solutions laser-optimized 50 µm multimode  |



# Closet Connector Housing Panels (CCH-CP)

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## Ordering Information (continued)

| Part Number                                     | Description  |
|---|--|
| <b>12-Fiber Closet Connector Housing Panels</b> |  |
| <b>ST® Compatible Adapter</b>                   |  |
| CCH-CP12-15T                                    | CCH Connector Panel with 12 threaded bulkhead ST compatible adapters, multimode 62.5 µm, ceramic insert, composite housing                 |
| <b>CS-240</b> CCH-CP12-19T                      | CCH Connector Panel with 12 threaded bulkhead ST compatible adapters, single-mode, ceramic insert, composite housing                       |
| <b>CS-241</b> CCH-CP12-25T                      | CCH Connector Panel with 12 threaded bulkhead ST compatible adapters, multimode 62.5 µm, composite insert, composite housing               |
| CCH-CP12-G5                                     | CCH Connector Panel with 12 ST compatible, standard 50 µm multimode, ceramic insert, composite housing                                     |
| CCH-CP12-E5                                     | CCH Connector Panel with eight ST compatible, Xcelerate Plus™ Solutions laser-optimized 50 µm multimode, ceramic insert, composite housing |
| <b>MT-RJ Adapter</b>                            |  |
| CCH-CP12-97                                     | CCH Connector Panel with six MT-RJ adapters, multimode 62.5 µm   |
| CCH-CP12-98                                     | CCH Connector Panel with six MT-RJ adapters, single-mode   |
| CCH-CP12-G1                                     | CCH Connector Panel with six MT-RJ, standard 50 µm multimode, composite housing  |
| CCH-CP12-E1                                     | CCH Connector Panel with six MT-RJ, Xcelerate Plus Solutions laser-optimized 50 µm multimode, composite housing                            |
| <b>16-Fiber Closet Connector Housing Panels</b> |  |
| <b>MT-RJ Adapter</b>                            |  |
| CCH-CP16-97                                     | CCH Connector Panel with eight MT-RJ adapters, multimode 62.5 µm   |
| CCH-CP16-98                                     | CCH Connector Panel with eight MT-RJ adapters, single-mode   |
| CCH-CP16-G1                                     | CCH Connector Panel with eight MT-RJ, standard 50 µm multimode, composite housing  |
| CCH-CP16-E1                                     | CCH Connector Panel with eight MT-RJ, Xcelerate Plus Solutions laser-optimized 50 µm multimode, composite housing                          |
| <b>LC Adapter (Duplex)</b>                      |  |
| CCH-CP16-A7                                     | CCH Connector Panel with eight LC duplex adapters, multimode 62.5 µm, metal insert, composite housing                                      |
| CCH-CP16-A8                                     | CCH Connector Panel with eight LC duplex adapters, multimode 62.5 µm, ceramic insert, composite housing                                    |
| CCH-CP16-A9                                     | CCH Connector Panel with eight LC duplex adapters, single-mode, ceramic insert, composite housing  |
| CCH-CP16-D3                                     | CCH Connector Panel with eight LC duplex, standard 50 µm multimode, ceramic insert, composite housing                                      |
| CCH-CP16-E4                                     | CCH Connector Panel with eight LC duplex, Xcelerate Plus Solutions laser-optimized 50 µm multimode, ceramic insert, composite housing      |

# Closet Connector Housing Panels (CCH-CP)

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## Ordering Information *(continued)*

| Part Number  | Description   |
|--|---|
| <b>24-Fiber Closet Connector Housing Panels</b>        |   |
| <b>MT-RJ Adapter</b>                                   |   |
| CCH-CP24-97  | CCH Connector Panel with 12 MT-RJ adapters, multimode 62.5 µm   |
| CCH-CP24-98  | CCH Connector Panel with 12 MT-RJ adapters, single-mode   |
| CCH-CP24-G1  | CCH Connector Panel with 12 MT-RJ adapters, standard 50 µm multimode, composite housing   |
| CCH-CP24-E1  | CCH Connector Panel with 12 MT-RJ adapters, Xcelerate Plus™ Solutions laser-optimized 50 µm multimode, composite housing                    |
| <b>LC Adapter (Duplex)</b>                             |   |
| CCH-CP24-A7  | CCH Connector Panel with 12 LC duplex adapters, multimode 62.5 µm, metal insert, composite housing  |
| CCH-CP24-A8  | CCH Connector Panel with 12 LC duplex adapters, multimode 62.5 µm, ceramic insert, composite housing  |
| CCH-CP24-A9  | CCH Connector Panel with 12 LC duplex adapters, single-mode, ceramic insert, composite housing  |
| CCH-CP24-D3  | CCH Connector Panel with 12 LC duplex, standard 50 µm multimode, ceramic insert, composite housing  |
| CCH-CP24-E4  | CCH Connector Panel with 12 LC duplex adapters, Xcelerate Plus Solutions laser-optimized 50 µm multimode, ceramic insert, composite housing |
| <b>36-Fiber Closet Connector Housing Panels</b>        |   |
| <b>MTP® Adapter</b>                                    |   |
| CCH-CP36-G3  | CCH Connector Panel with three MTP adapters, standard 50 µm multimode   |
| CCH-CP36-E3  | CCH Connector Panel with three MTP adapters, Xcelerate Plus Solutions laser-optimized 50 µm multimode                                       |
| <b>72-Fiber Closet Connector Housing Panels</b>        |   |
| <b>MTP Adapter</b>                                     |   |
| CCH-CP72-G3  | CCH Connector Panel with six MTP adapters, standard 50 µm multimode   |
| CCH-CP72-E3  | CCH Connector Panel with six MTP adapters, Xcelerate Plus Solutions laser-optimized 50 µm multimode   |
| <b>Closet Connector Panels for Copper Terminations</b> |   |
| CCH-CP04-8L5BX-A                                       | CCH Panel for four AMP Category 5e jacks with T568A wiring  |
| CCH-CP04-8L5BX-B                                       | CCH Panel for four AMP Category 5e jacks with T568B wiring  |
| CCH-CP04-8L5CX-B                                       | CCH Panel for four AT&T Category 5e jacks with T568B wiring   |
| CCH-CP04-8L5DX-A                                       | CCH Panel for four Krone Category 5e jacks with T568A wiring  |
| CCH-CP04-8L5DX-B                                       | CCH Panel for four Krone Category 5e jacks with T568B wiring  |

# Buffer Tube Fan-Out Kits

A LANscape® Solutions Product

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## Applications

- Field termination of loose tube cables at indoor or outdoor cross-connects

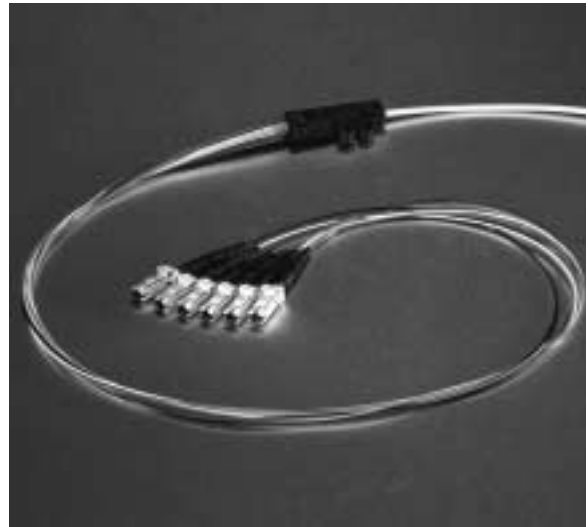
## Description

Corning Cable Systems' Indoor and Outdoor Buffer Tube Fan-Out Kits are specifically designed for the termination of 6- and 12-fiber buffer tubes. These buffer tube fan-out kits provide the ultimate solution for those users who want to field-install connectors. The kits provide the most compact, easy-to-install fan-out solution requiring no additional hardware or space than that required for terminating tight-buffered cables.

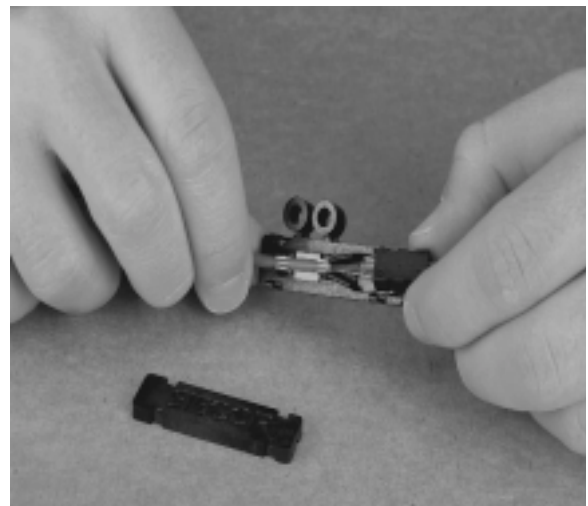
Indoor and Outdoor Kits feature a 900 µm Fan-Out Assembly that is color-coded to match the fiber color scheme. The Fan-Out Assembly is available with 6- or 12-fiber units in lengths of 25 or 47 inches. These different lengths provide the installer the flexibility needed for a variety of hardware options.

## Features / Benefits

- Eliminates strain on fibers by isolating them from tensile forces
- Colored fan-out tubing
- Snap-together furcation unit eliminates epoxy for indoor kits
- Compact design
- Quick and easy to install
- Optimized for field termination of cables
- Excellent fiber routing capabilities
- Bend radius protection designed into each unit
- Outdoor kits include additional elements that compensate for wider temperature fluctuations common in outdoor environments



Buffer Tube Fan-Out Kit | Photo LAN365



Buffer Tube Fan-Out Kit | Photo LAN49

- Indoor temperature range 0° to +70°C  
Outdoor temperature range -40° to +70°C

## Ordering Information

To order a Buffer Tube Fan-Out Kit, first determine the length of tubing required for connector termination, either 25 or 47 inches. Next, determine the number of fibers to furcate.

| Part Number | Length of Tubing | Number of Fibers per Buffer Tube' |
|-------------|------------------|-----------------------------------|
|-------------|------------------|-----------------------------------|

### Indoor Buffer Tube Fan-Out Kits

|        |             |           |    |
|--------|-------------|-----------|----|
| CS-242 | FAN-BT25-06 | 25 inches | 6  |
|        | FAN-BT47-06 | 47 inches | 6  |
| CS-243 | FAN-BT25-12 | 25 inches | 12 |
|        | FAN-BT47-12 | 47 inches | 12 |

### Outdoor Buffer Tube Fan-Out Kits

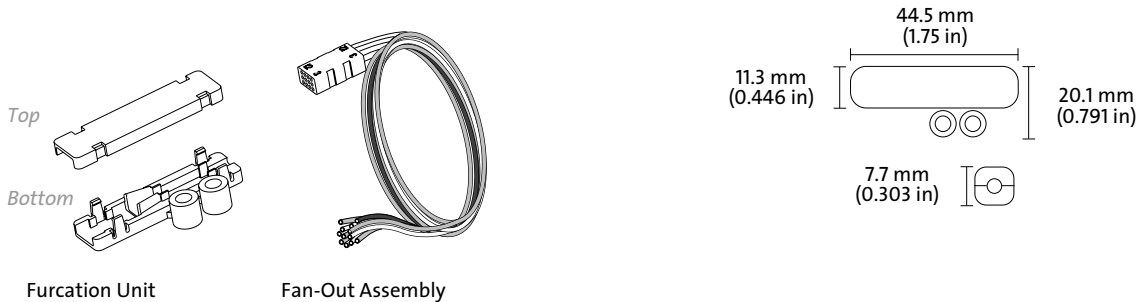
|             |           |    |
|-------------|-----------|----|
| FAN-OD25-06 | 25 inches | 6  |
| FAN-OD47-06 | 47 inches | 6  |
| FAN-OD25-12 | 25 inches | 12 |
| FAN-OD47-12 | 47 inches | 12 |

*Notes*

*'Refer to cable specifications.*

## Tool Kit and Tool Kit Consumables

| Part Number | Description   |
|-------------|---|
| TKT-FANBT-A | Buffer Tube Fan-Out Assembly Tool Kit includes buffer tube fan-out assembly fixture and buffer tube fan-out kit instructions  |
| TKT-FANBT-C | Buffer Tube Fan-Out Assembly Consumables Kit includes buffer tube fan-out procedure instructions, buffer tube fan-out clamp, MSDS 411 adhesive, Loctite 411 adhesive, Kimwipes, alcohol wipes, and MSDS alcohol wipes |



Kit Components | Drawing CPC-220/2/1

Completed Kit Dimensions | Drawing CPC-220/2/2

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|   |  |   |
|---|--|---|
|  |  | <p style="text-align: center;"><b>For more information please<br/>call</b></p> <p style="text-align: center;"><b>1-800-Belden1</b></p> <p style="text-align: center;"><u>See Put-ups and Colors</u></p> |
|---|--|---|

**Description:**

18 AWG solid .040" bare copper-covered steel conductor, plenum, foam FEP insulation, Duofoil® (100% coverage) + TC braid shield (95% coverage), Flamarrest® jacket.

**PHYSICAL CHARACTERISTICS:**

**CONDUCTOR:**

|                            |                                  |
|----------------------------|----------------------------------|
| Number of Coax             | 1                                |
| Total Number of Conductors | 1                                |
| Series Type                | Series 6                         |
| AWG                        | 18                               |
| Stranding                  | Solid                            |
| Conductor Diameter         | .040 in.                         |
| Conductor Material         | BCCS - Bare Copper Covered Steel |

**INSULATION:**

|                     |  |
|---------------------|--|
| Insulation Material | FFEP - Foam Fluorinated Ethylene Propylene |
| Insulation Diameter | .170 in.                                   |

**OUTER SHIELD:**

|                                  |            |
|----------------------------------|------------|
| Outer Shield Material Trade Name | Duofoil®   |
| Outer Shield Type                | Tape/Braid |

Outer Shield Material :

| Layer Number | Trade Name | Type  | Material                                      | % Coverage (%) |
|--------------|------------|-------|---|----------------|
| 1            | Duofoil®   | Tape  | Aluminum Foil-Polyester<br>Tape-Aluminum Foil | 100            |
| 2            |            | Braid | TC - Tinned Copper                            | 95             |

|                         |       |
|-------------------------|-------|
| Outer Shield % Coverage | 100 % |
|-------------------------|-------|

**OUTER JACKET:**

|                                  |                                       |
|----------------------------------|---------------------------------------|
| Outer Jacket Material Trade Name | Flamarrest®                           |
| Outer Jacket Material            | LS PVC - Low Smoke Polyvinyl Chloride |

**OVERALL NOMINAL DIAMETER:**

|                          |          |
|--------------------------|----------|
| Overall Nominal Diameter | .234 in. |
|--------------------------|----------|

**MECHANICAL CHARACTERISTICS:**

**82120 Coax - CATV Cable**

|                                  |                 |
|----------------------------------|-----------------|
| Operating Temperature Range      | -20°C To +75°C  |
| Bulk Cable Weight                | 44 lbs/1000 ft. |
| Max. Recommended Pulling Tension | 141 lbs.        |
| Min. Bend Radius (Install)       | 2.3 in.         |

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

|                                       |            |
|---------------------------------------|------------|
| NEC/(UL) Specification                | CATVP, CMP |
| CEC/C(UL) Specification               | CMP        |
| EU CE Mark (Y/N)                      | No         |
| EU RoHS Compliant (Y/N)               | Yes        |
| EU RoHS Compliance Date (mm/dd/yyyy): | 04/01/2005 |

**FLAME TEST:**

|                |          |
|----------------|----------|
| UL Flame Test  | NFPA 262 |
| CSA Flame Test | FT6      |

**PLENUM/NON-PLENUM:**

|               |              |
|---------------|--------------|
| Plenum (Y/N)  | Y            |
| Plenum Number | 87120, 89120 |

**ELECTRICAL CHARACTERISTICS:**

|   |                   |
|---|-------------------|
| Nom. Characteristic Impedance             | 75 Ohms           |
| Nom. Inductance                           | .09 µH/ft         |
| Nom. Capacitance Conductor to Shield      | 16.5 pF/ft        |
| Nominal Velocity of Propagation           | 82 %              |
| Nominal Delay                             | 1.24 ns/ft        |
| Nom. Conductor DC Resistance @ 20 Deg. C  | 28.0 Ohms/1000 ft |
| Nominal Outer Shield DC Resistance @ 20°C | 1.7 Ohms/1000 ft  |

**Minimum Structural Return Loss :**

| Description | Frequency (MHz) | Start Frequency (MHz) | Stop Frequency (MHz) | Minimum Structural Return Loss (dB) |
|-------------|-----------------|-----------------------|----------------------|-------------------------------------|
|             |                 | 5                     | 400                  | 20                                  |

Nom. Attenuation :

**82120 Coax - CATV Cable**

| Description | Frequency (MHz) | Start Frequency (MHz) | Stop Frequency (MHz) | Nom. Attenuation (dB/100 ft.) |
|-------------|-----------------|-----------------------|----------------------|-------------------------------|
|             | 1               |                       |                      | .3                            |
|             | 10              |                       |                      | .66                           |
|             | 50              |                       |                      | 1.6                           |
|             | 100             |                       |                      | 2.2                           |
|             | 200             |                       |                      | 3.0                           |
|             | 400             |                       |                      | 4.6                           |
|             | 700             |                       |                      | 6.6                           |
|             | 900             |                       |                      | 7.7                           |
|             | 1000            |                       |                      | 8.2                           |

Max. Operating Voltage - UL 300 V RMS

**PUT-UPS AND COLORS:**

| Item          | Description             | Put-Up (ft.) | Ship Weight (lbs.) | Jacket Color | Notes |
|---------------|-------------------------|--------------|--------------------|--------------|-------|
| 82120 8771000 | #18FFEP RG6/U<br>FLMRST | 1000         | 44                 | NATURAL      | C     |

C = CRATE REEL PUT-UP.

Revision Number: 1      Revision Date: 11-23-2005

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|   |  |   |
|---|--|---|
|  |  | <p>For more information please call<br/><b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p> |
|---|--|---|

**Description:**

Series 6, 18 AWG solid .040" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® II + aluminum braid shield (60% coverage), PVC jacket.

**PHYSICAL CHARACTERISTICS:**

**CONDUCTOR:**

|                            |                                  |
|----------------------------|----------------------------------|
| Number of Coax             | 1                                |
| Total Number of Conductors | 1                                |
| Series Type                | Series 6                         |
| AWG                        | 18                               |
| Stranding                  | Solid                            |
| Conductor Diameter         | .040 in.                         |
| Conductor Material         | BCCS - Bare Copper Covered Steel |

**INSULATION:**

|                     |                                      |
|---------------------|--------------------------------------|
| Insulation Material | Gas-injected FPE - Foam Polyethylene |
| Insulation Diameter | .180 in.                             |

**OUTER SHIELD:**

|                                  |             |
|----------------------------------|-------------|
| Outer Shield Material Trade Name | Duobond® II |
| Outer Shield Type                | Tape/Braid  |

Outer Shield Material :

| Layer Number | Trade Name      | Type  | Material  | % Coverage (%) |
|--------------|-----------------|-------|---|----------------|
| 1            | Bonded Duofoil® | Tape  | Bonded Aluminum Foil-Polyester Tape-Aluminum Foil | 100            |
| 2            |                 | Braid | AL - Aluminum                                     | 60             |

|                         |       |
|-------------------------|-------|
| Outer Shield % Coverage | 100 % |
|-------------------------|-------|

**OUTER JACKET:**

|                       |                          |
|-----------------------|--------------------------|
| Outer Jacket Material | PVC - Polyvinyl Chloride |
|-----------------------|--------------------------|

**OVERALL NOMINAL DIAMETER:**

|                          |          |
|--------------------------|----------|
| Overall Nominal Diameter | .270 in. |
|--------------------------|----------|

**MECHANICAL CHARACTERISTICS:**





**9116R Coax - CATV Cable**

|                                  |                 |
|----------------------------------|-----------------|
| Operating Temperature Range      | -40°C To +80°C  |
| Installation Temperature Range   | -30°C To +80°C  |
| Bulk Cable Weight                | 30 lbs/1000 ft. |
| Max. Recommended Pulling Tension | 126 lbs.        |
| Min. Bend Radius (Install)       | 2 in.           |

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

|                                       |                 |
|---------------------------------------|-----------------|
| NEC/(UL) Specification                | CATVR, CMR, CMG |
| CEC/C(UL) Specification               | CMR, CMG        |
| EU CE Mark (Y/N)                      | No              |
| EU RoHS Compliant (Y/N)               | Yes             |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004      |

**FLAME TEST:**

|                |                       |
|----------------|-----------------------|
| UL Flame Test  | UL1666 Vertical Riser |
| CSA Flame Test | FT4                   |

**SWEEP TEST:**

|               |               |
|---------------|---------------|
| Sweep Testing | 5 MHz - 1 GHz |
|---------------|---------------|

**PLENUM/NON-PLENUM:**

|               |       |
|---------------|-------|
| Plenum (Y/N)  | N     |
| Plenum Number | 9116P |

**ELECTRICAL CHARACTERISTICS:**

|   |                   |
|---|-------------------|
| Nom. Characteristic Impedance             | 75 +/-3 Ohms      |
| Nom. Inductance                           | .097 µH/ft        |
| Nom. Capacitance Conductor to Shield      | 16.2 pF/ft        |
| Nominal Velocity of Propagation           | 83 %              |
| Nominal Delay                             | 1.2 ns/ft         |
| Nom. Conductor DC Resistance @ 20 Deg. C  | 28.0 Ohms/1000 ft |
| Nominal Outer Shield DC Resistance @ 20°C | 9 Ohms/1000 ft    |

**Minimum Structural Return Loss :**

| Description | Frequency (MHz) | Start Frequency (MHz) | Stop Frequency (MHz) | Minimum Structural Return Loss (dB) |
|-------------|-----------------|-----------------------|----------------------|-------------------------------------|
|             |                 | 5                     | 1000                 | 20                                  |

Max. Attenuation :

**9116R Coax - CATV Cable**

| Description | Frequency (MHz) | Start Frequency (MHz) | Stop Frequency (MHz) | Max. Attenuation (dB/100 ft.) |
|-------------|-----------------|-----------------------|----------------------|-------------------------------|
|             | 5               |                       |                      | 0.67                          |
|             | 55              |                       |                      | 1.60                          |
|             | 211             |                       |                      | 2.87                          |
|             | 270             |                       |                      | 3.24                          |
|             | 300             |                       |                      | 3.43                          |
|             | 350             |                       |                      | 3.72                          |
|             | 400             |                       |                      | 4.00                          |
|             | 450             |                       |                      | 4.26                          |
|             | 550             |                       |                      | 4.71                          |
|             | 750             |                       |                      | 5.59                          |
|             | 870             |                       |                      | 6.00                          |
|             | 1000            |                       |                      | 6.54                          |

Max. Operating Voltage - UL 350 V RMS

**PUT-UPS AND COLORS:**

| Item           | Description      | Put-Up (ft.) | Ship Weight (lbs.) | Jacket Color | Notes |
|----------------|------------------|--------------|--------------------|--------------|-------|
| 9116R 0101000  | #18 GIFPE SH PVC | 1000         | 34                 | BLACK        |       |
| 9116R 010U1000 | #18 GIFPE SH PVC | U1000        | 33                 | BLACK        |       |

Revision Number: 4      Revision Date: 01-30-2006



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**CS-246 6139B8 Coax - Commercial CATV or MATV Applications**

|  |   |
|--|---|
|   | <p>For more information please call<br/><b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p> |
|--|---|

**Description:**

14 AWG solid BC conductor, foam FEP insulation, foil plus aluminum braid shield(s) as indicated, fluorocopolymer jacket, sequential footage marking every two feet.

**SUITABLE APPLICATIONS:**

|                       |            |
|-----------------------|------------|
| Suitable Applications | CATV, MATV |
|-----------------------|------------|

**PHYSICAL CHARACTERISTICS:**

**CONDUCTOR:**

|                    |                  |
|--------------------|------------------|
| Number of Coax     | 1                |
| RG Type            | 11/U             |
| Series Type        | Series 11        |
| AWG                | 14               |
| Stranding          | Solid            |
| Conductor Diameter | .064 in.         |
| Conductor Material | BC - Bare Copper |

**INSULATION:**

|                     |  |
|---------------------|--|
| Insulation Material | FFEP - Foam Fluorinated Ethylene Propylene |
| Insulation Diameter | .274 in.                                   |

**OUTER SHIELD:**

|                                  |            |
|----------------------------------|------------|
| Outer Shield Material Trade Name | Duofoil®   |
| Outer Shield Type                | Tape/Braid |

Outer Shield Material :

| Layer Number | Trade Name | Type  | Material                                   | % Coverage (%) |
|--------------|------------|-------|--|----------------|
| 1            | Duofoil®   | Tape  | Aluminum Foil-Polyester Tape-Aluminum Foil | 100            |
| 2            |            | Braid | AL - Aluminum                              | 60             |

|                        |       |
|------------------------|-------|
| Outer Shield %Coverage | 100 % |
|------------------------|-------|

**OUTER JACKET:**

|                       |                        |
|-----------------------|------------------------|
| Outer Jacket Material | PVDF - Fluorocopolymer |
|-----------------------|------------------------|

**OVERALL NOMINAL DIAMETER:**



**6139B8 Coax - Commercial CATV or MATV Applications**

|                          |          |
|--------------------------|----------|
| Overall Nominal Diameter | .348 in. |
|--------------------------|----------|

**MECHANICAL CHARACTERISTICS:**

|                                  |                 |
|----------------------------------|-----------------|
| Operating Temperature Range      | -20°C To +150°C |
| UL Temperature Rating            | 75°C            |
| Bulk Cable Weight                | 59 lbs/1000 ft. |
| Max. Recommended Pulling Tension | 107 lbs.        |
| Min. Bend Radius (Install)       | 3.5 in.         |

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

|                                       |            |
|---------------------------------------|------------|
| NEC/(UL) Specification                | CMP, CATVP |
| NEC Articles                          | 820        |
| CEC/C(UL) Specification               | CMP        |
| EU CE Mark (Y/N)                      | Yes        |
| EU RoHS Compliant (Y/N)               | Yes        |
| EU RoHS Compliance Date (mm/dd/yyyy): | 04/01/2005 |

**FLAME TEST:**

|                  |          |
|------------------|----------|
| UL Flame Test    | NFPA 262 |
| C(UL) Flame Test | FT6      |

**SUITABILITY:**

|                       |     |
|-----------------------|-----|
| Suitability - Indoor  | Yes |
| Suitability - Outdoor | Yes |

**PLENUM/NON-PLENUM:**

|              |   |
|--------------|---|
| Plenum (Y/N) | Y |
|--------------|---|

**ELECTRICAL CHARACTERISTICS:**

|   |                  |
|---|------------------|
| Nom. Characteristic Impedance             | 75 Ohms          |
| Nom. Inductance                           | .106 µH/ft       |
| Nom. Capacitance Conductor to Shield      | 16.1 pF/ft       |
| Nominal Velocity of Propagation           | 84 %             |
| Nominal Delay                             | 1.21 ns/ft       |
| Nom. Conductor DC Resistance @ 20 Deg. C  | 2.6 Ohms/1000 ft |
| Nominal Outer Shield DC Resistance @ 20°C | 3.8 Ohms/1000 ft |
| Nom. Attenuation :                        |                  |



## 6139B8 Coax - Commercial CATV or MATV Applications

| Description | Frequency (MHz) | Start Frequency (MHz) | Stop Frequency (MHz) | Nom. Attenuation (dB/100 ft.) |
|-------------|-----------------|-----------------------|----------------------|-------------------------------|
|             | 1               |                       |                      | .17                           |
|             | 10              |                       |                      | .40                           |
|             | 50              |                       |                      | 1.0                           |
|             | 100             |                       |                      | 1.4                           |
|             | 200             |                       |                      | 2.3                           |
|             | 400             |                       |                      | 3.7                           |
|             | 700             |                       |                      | 5.3                           |
|             | 900             |                       |                      | 6.4                           |
|             | 1000            |                       |                      | 6.9                           |

Max. Operating Voltage - UL 600 V RMS

### PUT-UPS AND COLORS:

| Item           | Description         | Put-Up (ft.) | Ship Weight (lbs.) | Jacket Color | Notes |
|----------------|---------------------|--------------|--------------------|--------------|-------|
| 6139B8 0091000 | RG-11/U PLENUM COAX | 1000         | 66                 | WHITE        | C     |

C = CRATE REEL PUT-UP.

Revision Number: 1      Revision Date: 10-04-2005

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|  |   |
|--|---|
|   | <p>For more information please call<br/><b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p> |
|--|---|

**Description:**

Series 11, 14 AWG solid .064" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® II + aluminum braid shield (60% coverage), PVC jacket.

**PHYSICAL CHARACTERISTICS:**

**CONDUCTOR:**

|                            |                                  |
|----------------------------|----------------------------------|
| Number of Coax             | 1                                |
| Total Number of Conductors | 1                                |
| Series Type                | Series 11                        |
| AWG                        | 14                               |
| Stranding                  | Solid                            |
| Conductor Diameter         | .064 in.                         |
| Conductor Material         | BCCS - Bare Copper Covered Steel |

**INSULATION:**

|                     |                                      |
|---------------------|--------------------------------------|
| Insulation Material | Gas-injected FPE - Foam Polyethylene |
| Insulation Diameter | .280 in.                             |

**OUTER SHIELD:**

|                                  |             |
|----------------------------------|-------------|
| Outer Shield Material Trade Name | Duobond® II |
| Outer Shield Type                | Tape/Braid  |

Outer Shield Material :

| Layer Number | Trade Name      | Type  | Material  | % Coverage (%) |
|--------------|-----------------|-------|---|----------------|
| 1            | Bonded Duofoil® | Tape  | Bonded Aluminum Foil-Polyester Tape-Aluminum Foil | 100            |
| 2            |                 | Braid | AL - Aluminum                                     | 60             |

|                         |       |
|-------------------------|-------|
| Outer Shield % Coverage | 100 % |
|-------------------------|-------|

**OUTER JACKET:**

|                       |                          |
|-----------------------|--------------------------|
| Outer Jacket Material | PVC - Polyvinyl Chloride |
|-----------------------|--------------------------|

**OVERALL NOMINAL DIAMETER:**

|                          |          |
|--------------------------|----------|
| Overall Nominal Diameter | .400 in. |
|--------------------------|----------|

**MECHANICAL CHARACTERISTICS:**

**1523R Coax - CATV Cable**

|                                  |                 |
|----------------------------------|-----------------|
| Operating Temperature Range      | -30°C To +80°C  |
| Non-UL Temperature Rating        | 80°C            |
| Bulk Cable Weight                | 54 lbs/1000 ft. |
| Max. Recommended Pulling Tension | 260 lbs.        |
| Min. Bend Radius (Install)       | 4.5 in.         |

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

|                                       |            |
|---------------------------------------|------------|
| NEC/(UL) Specification                | CMR, CATVR |
| CEC/C(UL) Specification               | CMR        |
| EU CE Mark (Y/N)                      | Yes        |
| EU RoHS Compliant (Y/N)               | Yes        |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004 |

**FLAME TEST:**

|                  |                       |
|------------------|-----------------------|
| UL Flame Test    | UL1666 Vertical Riser |
| C(UL) Flame Test | FT4                   |

**PLENUM/NON-PLENUM:**

|              |   |
|--------------|---|
| Plenum (Y/N) | N |
|--------------|---|

**ELECTRICAL CHARACTERISTICS:**

|   |                   |
|---|-------------------|
| Nom. Characteristic Impedance             | 75 Ohms           |
| Nom. Inductance                           | .097 μH/ft        |
| Nom. Capacitance Conductor to Shield      | 16.2 pF/ft        |
| Nominal Velocity of Propagation           | 83 %              |
| Nominal Delay                             | 1.2 ns/ft         |
| Nom. Conductor DC Resistance @ 20 Deg. C  | 11.0 Ohms/1000 ft |
| Nominal Outer Shield DC Resistance @ 20°C | 4.1 Ohms/1000 ft  |

Minimum Structural Return Loss :

| Description | Frequency (MHz) | Start Frequency (MHz) | Stop Frequency (MHz) | Minimum Structural Return Loss (dB) |
|-------------|-----------------|-----------------------|----------------------|-------------------------------------|
|             |                 | 5                     | 1000                 | 20                                  |

Max. Attenuation :

**1523R Coax - CATV Cable**

| Description | Frequency (MHz) | Start Frequency (MHz) | Stop Frequency (MHz) | Max. Attenuation (dB/100 ft.) |
|-------------|-----------------|-----------------------|----------------------|-------------------------------|
|             | 5               |                       |                      | 0.38                          |
|             | 55              |                       |                      | 0.97                          |
|             | 211             |                       |                      | 1.81                          |
|             | 270             |                       |                      | 2.05                          |
|             | 300             |                       |                      | 2.15                          |
|             | 350             |                       |                      | 2.32                          |
|             | 400             |                       |                      | 2.47                          |
|             | 450             |                       |                      | 2.65                          |
|             | 550             |                       |                      | 2.94                          |
|             | 750             |                       |                      | 3.50                          |
|             | 870             |                       |                      | 3.84                          |
|             | 1000            |                       |                      | 4.23                          |

Max. Operating Voltage - UL 600 V RMS

**NOTES:**

Notes Sweep tested 5 MHz to 1 GHz.

**PUT-UPS AND COLORS:**

| Item          | Description         | Put-Up (ft.) | Ship Weight (lbs.) | Jacket Color | Notes |
|---------------|---------------------|--------------|--------------------|--------------|-------|
| 1523R 0101000 | #14 GIFHDLDP SH PVC | 1000         | 70                 | BLACK        |       |
| 1523R 010500  | #14 GIFHDLDP SH PVC | 500          | 35                 | BLACK        |       |

Revision Number: 1      Revision Date: 06-21-2005

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# PIII<sup>®</sup> 500 JCAR (NEC RISER) CS-248

## 75 Ohm Coaxial Cable

### Trunk & Distribution



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**PRODUCT DESCRIPTION: (RISER CONSTRUCTION)**  
 SOLID ALUMINUM TUBE SWAGED ONTO DIELECTRIC  
 CORE, FULLY BONDED COPPER CLAD CENTER  
 CONDUCTOR, FLAME RETARDANT PE JACKET  
 (MEETS NEC ARTICLE 820 RISER RATING (UL LISTED))

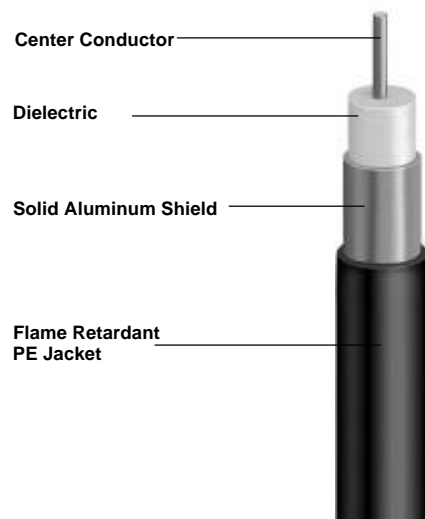
**CENTER CONDUCTOR:**  
 COPPER CLAD ALUMINUM  
 NOMINAL DIAMETER: 0.109" (2.77 mm)

**DIELECTRIC:**  
 MICRO-CELLULAR FOAM PE  
 NOMINAL DIAMETER 0.450" (11.43 mm)

**SHIELD:**  
 SOLID ALUMINUM TUBE  
 NOMINAL OUTER CONDUCTOR THICKNESS: 0.024" (0.64 mm)

**JACKET:**  
 FLAME RETARDANT PE JACKET  
 NOMINAL JACKET DIAMETER: 0.560" (14.22 mm)  
 NOMINAL JACKET THICKNESS: 0.030" (0.76 mm)

**MECHANICAL CHARACTERISTICS:**  
 MINIMUM BEND RADIUS: STANDARD= 6.0" (15.2 cm)  
 MINIMUM BEND RADIUS: BONDED = 3.5" (8.9 cm)  
 MAXIMUM PULLING TENSION = 300 lbs. (136 kg)



**ELECTRICAL CHARACTERISTICS:**

**CAPACITANCE:** 15.3 ± 1.0 pf/ft. (50 ± 3.0 nf/km)  
**IMPEDANCE:** 75 ± 2 Ohms  
**VELOCITY OF PROPAGATION:** 87% NOMINAL  
**MAXIMUM DC LOOP RESISTANCE @ 68°F:** 1.72 Ohms/1000 ft. (5.64 Ohms/km)  
**ATTENUATION: @ 68°F (20°C)**

Shipping Weight (lbs./kft): 138 - (kg/km): 205

| @ Frequency MHz | dB/100 ft. (MAX.) | dB/100 meters (MAX.) |
|-----------------|-------------------|----------------------|
| 5 MHz           | 0.16              | 0.52                 |
| 55 MHz          | 0.54              | 1.77                 |
| 83 MHz          | 0.66              | 2.17                 |
| 211 MHz         | 1.09              | 3.58                 |
| 250 MHz         | 1.20              | 3.94                 |
| 300 MHz         | 1.31              | 4.30                 |
| 350 MHz         | 1.43              | 4.69                 |
| 400 MHz         | 1.53              | 5.02                 |
| 450 MHz         | 1.63              | 5.35                 |
| 500 MHz         | 1.73              | 5.67                 |
| 550 MHz         | 1.82              | 5.97                 |
| 600 MHz         | 1.91              | 6.27                 |
| 750 MHz         | 2.16              | 7.09                 |
| 865 MHz         | 2.34              | 7.68                 |
| 1000 MHz        | 2.52              | 8.27                 |

*Drawing not to scale.  
 Specifications subject to change.  
 Revision: 06/02/99*

**QR<sup>®</sup> 540 JCA** CS-249  
**75 Ohm Coaxial Cable**  
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**PRODUCT DESCRIPTION: (AERIAL CONSTRUCTION)**

QUANTUM REACH<sup>®</sup> PATENTED, COPPER CLAD ALUMINUM  
 CENTER CONDUCTOR, RF WELDED, FULLY BONDED SHIELD,  
 PE JACKET

**CENTER CONDUCTOR:**  
 COPPER CLAD ALUMINUM  
 NOMINAL DIAMETER: 0.124" (3.15 mm)

**DIELECTRIC:**  
 MICRO-CELLULAR FOAM PE  
 NOMINAL DIAMETER: 0.514" (13.05 mm)

**SHIELD:**  
 RF WELDED, SOLID ALUMINUM TUBE  
 NOMINAL DIAMETER OVER OUTER CONDUCTOR: 0.540" (13.72 mm)  
 NOMINAL OUTER CONDUCTOR THICKNESS: 0.0135" (0.343 mm)

**JACKET:**  
 NOMINAL JACKET DIAMETER: 0.610" (15.49 mm)  
 NOMINAL JACKET THICKNESS: 0.035 (0.89 mm)

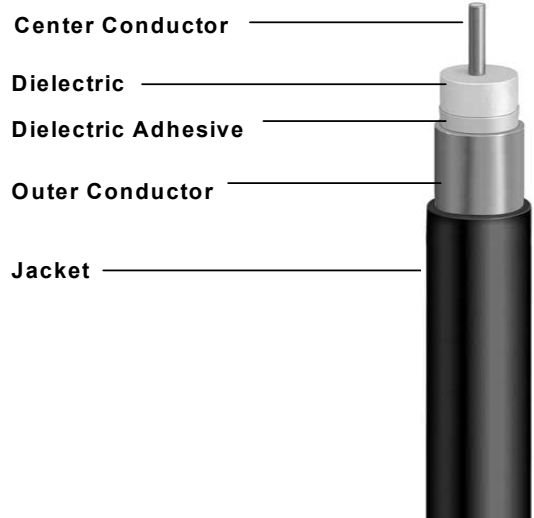
**MECHANICAL CHARACTERISTICS:**

MINIMUM BEND RADIUS: 4.0" (10.2 cm)  
 MAXIMUM PULLING TENSION = 220 lbs. (100 kg)

**ELECTRICAL CHARACTERISTICS:**

**CAPACITANCE:** 15.3 +/- 1.0 pf/ft. (50 +/-3.0 nf/km)  
**IMPEDANCE:** 75 +/- 2 Ohms  
**VELOCITY OF PROPAGATION:** 88% NOMINAL  
**MAXIMUM DC LOOP RESISTANCE @ 68°F:** 1.61 Ohms/1000 ft. (5.28 Ohms/km)  
**ATTENUATION: @ 68°F (20°C):**

Shipping Weight (lbs./kft): 120 - (kg/km): 179



| @ Frequency MHz | dB/100 ft. (MAX.) | dB/100 meters (MAX.) |
|-----------------|-------------------|----------------------|
| 5 MHz           | 0.14              | 0.46                 |
| 55 MHz          | 0.47              | 1.54                 |
| 83 MHz          | 0.58              | 1.90                 |
| 211 MHz         | 0.95              | 3.12                 |
| 250 MHz         | 1.03              | 3.38                 |
| 300 MHz         | 1.13              | 3.71                 |
| 350 MHz         | 1.23              | 4.03                 |
| 400 MHz         | 1.32              | 4.33                 |
| 450 MHz         | 1.40              | 4.59                 |
| 500 MHz         | 1.49              | 4.89                 |
| 550 MHz         | 1.56              | 5.12                 |
| 600 MHz         | 1.64              | 5.38                 |
| 750 MHz         | 1.85              | 6.07                 |
| 865 MHz         | 2.00              | 6.56                 |
| 1000 MHz        | 2.17              | 7.12                 |

*Drawing not to scale.  
 Specifications subject to change.  
 Revision: 08/09/05*

# PIII® 500 JACASS CS-250

## 75 Ohm Coaxial Cable

### Trunk & Distribution



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 PO Box 1729  
 Hickory, NC 28603-1729  
 (800) 982-1708  
 (828) 324-2200  
 (828) 324-3400  
 (828) 323-4989  
 www.commscope.com

Fax:  
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**PRODUCT DESCRIPTION: (UNDERGROUND CONSTRUCTION)**  
 SOLID ALUMINUM TUBE SWAGED ONTO DIELECTRIC  
 CORE, FULLY BONDED COPPER CLAD CENTER CONDUCTOR,  
 MIGRA-HEAL™ FLOODING COMPOUND, CORRUGATED CHROME  
 PLATED STEEL ARMOR, MEDIUM DENSITY PE JACKETS

**CENTER CONDUCTOR: COPPER CLAD ALUMINUM**  
 NOMINAL DIAMETER: 0.109" (2.77 mm)

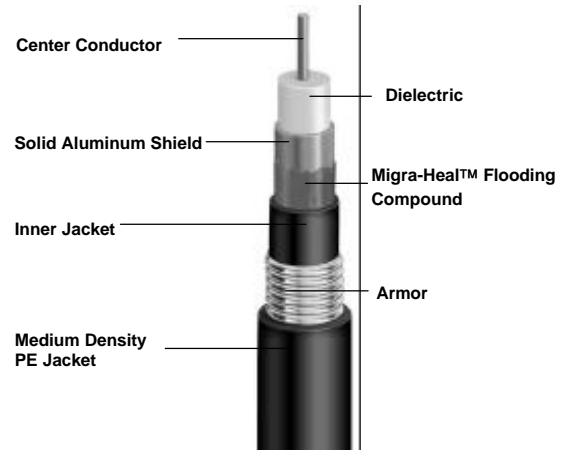
**DIELECTRIC: MICRO-CELLULAR FOAM PE**  
 NOMINAL DIAMETER: 0.450" (11.43 mm)

**SHIELD: SOLID ALUMINUM TUBE**  
 NOMINAL OUTER CONDUCTOR THICKNESS: 0.024" (0.64 mm)

**INNER JACKET: NOMINAL JACKET DIAMETER: 0.570" (14.48 mm)**  
 NOMINAL JACKET THICKNESS: 0.030" (0.76 mm)

**ARMOR: CORRUGATED CHROME PLATED STEEL**  
 NOMINAL DIAMETER OVER ARMOR: 0.640" (16.13 mm)  
 NOMINAL ARMOR THICKNESS: 0.008" (0.20 mm)

**OUTER JACKET: MEDIUM DENSITY PE (FLOODED WITH MIGRA-HEAL™**  
**FOR UNDERGROUND CONSTRUCTION)**  
 NOMINAL JACKET DIAMETER: 0.720" (18.16 mm)  
 NOMINAL JACKET THICKNESS: 0.040" (1.02 mm)



**MECHANICAL CHARACTERISTICS:**  
 MINIMUM BEND RADIUS: STANDARD = 8.5" (21.6 cm)  
 MINIMUM BEND RADIUS: BONDED = 6.0" (15.2 cm)  
 MAXIMUM PULLING TENSION = 300 lbs. (136 kg)

Shipping Weight (lbs./kft): 258 - (kg/km): 384

**ELECTRICAL CHARACTERISTICS:**  
 CAPACITANCE: 15.3 +/- 1.0 pf/ft. (50 +/- 3.0 nf/km)  
 IMPEDANCE: 75 +/- 2 Ohms  
 VELOCITY OF PROPAGATION: 87% NOMINAL  
 MAXIMUM DC LOOP RESISTANCE @ 68°F: 2.57 Ohms/1000 ft. (8.43 Ohms/km)  
 ATTENUATION: @ 68°F (20°C)

| @ Frequency MHz | dB/100 ft. (MAX.) | dB/100 meters (MAX.) |
|-----------------|-------------------|----------------------|
| 5 MHz           | 0.20              | 0.65                 |
| 55 MHz          | 0.69              | 2.26                 |
| 83 MHz          | 0.86              | 2.82                 |
| 211 MHz         | 1.41              | 4.62                 |
| 250 MHz         | 1.54              | 5.05                 |
| 300 MHz         | 1.70              | 5.57                 |
| 350 MHz         | 1.87              | 6.13                 |
| 400 MHz         | 1.97              | 6.46                 |
| 450 MHz         | 2.11              | 6.92                 |
| 500 MHz         | 2.24              | 7.34                 |
| 550 MHz         | 2.35              | 7.71                 |
| 600 MHz         | 2.47              | 8.10                 |
| 750 MHz         | 2.78              | 9.12                 |
| 865 MHz         | 3.01              | 9.87                 |
| 1000 MHz        | 3.27              | 10.73                |



## LRC® SNAP-N-SEAL®

### “F” Series Male One Piece Compression Connectors

Thomas & Betts introduces Snap-N-Seal® One Piece Compression Connectors, the newest addition to the Snap-N-Seal® system. With its user-friendly, pre-positioned and detachably coupled plastic sleeve, the Snap-N-Seal® One Piece Connector incorporates time-proven advantages for a reliable connection. Snap-N-Seal® One Piece Connectors use the same proven 360° compression design and installation tools as other LRC® Snap-N-Seal® products.

#### DESIGN FEATURES

- To reduce assembly time and simplify installation, the plastic sleeve is pre-positioned and detachably coupled to the connector body.
- The plastic sleeve's separability from the connector body further simplifies difficult installations.
- True 360° compression onto cable ensures superior RF shielding performance, -95 dB effective shielding (typical on 60% bonded foil cable).
- Permanently stamped part numbers and color-coded sleeves for easy identification before and after installation.
- Installation requires one-step 1/4" - 1/4" cable preparation and standard compression tools used for all 59 & 6 series Snap-N-Seal® product families.
- Quad-sealed system prevents moisture migration.
- Incorporates an iridescent chromate finish plus UV resistant plastic and O-rings to provide a reliable, environmentally sealed product.
- Superb return loss performance of -30 dB to 1GHz.
- Cable retention exceeds 40 lb. minimum as specified by the SCTE.

#### TECHNICAL SPECIFICATION

##### PHYSICAL PROPERTIES

NUT, POST AND COLLAR: BRASS  
 NUT AND COLLAR FINISH: CADMIUM PLATED WITH IRIDESCENT CHROMATE COATING  
 POST FINISH: TIN PLATED  
 O-RING: ETHYLENE PROPYLENE

##### ELECTRICAL PROPERTIES

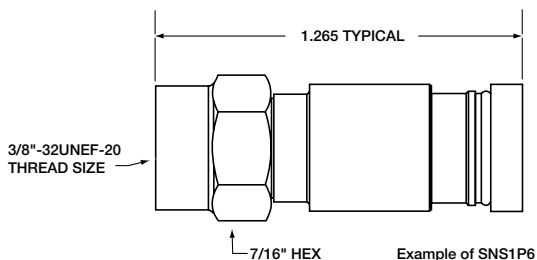
RETURN LOSS: -30 dB UP TO 1 GHz TYPICAL  
 INSERTION LOSS: ≤ -0.18 dB UP TO 1 GHz TYPICAL  
 RFI SHIELDING: -95 dB TYPICAL (60% BONDED FOIL CABLE)

##### MECHANICAL PROPERTIES

CABLE RETENTION : 40 LBS. MIN. COMPLIES TO SCTE IPS-SP-404  
 CABLE INSERTION FORCE: <20 LBS

##### ENVIRONMENTAL PROPERTIES

TEMPERATURE RATING: -40°F (-40°C) TO 140°F (60°C)



CS-251

#### ORDERING INFORMATION

| Catalog Number | Post I.D. | Sleeve I.D. | Sleeve Color | Tool <sup>†</sup> | Inner Pack | Outer Pack |
|----------------|-----------|-------------|--------------|-------------------|------------|------------|
| SNS1P59        | .154      | .253        | Orange       | 1+2               | 50         | 1000       |
| SNS1P59QS      | .154      | .275        | Green        | 1+2               | 50         | 1000       |
| SNS1P59HEC     | .154      | .290        | White        | 1+2               | 50         | 1000       |
| SNS1P6         | .191      | .290        | Blue         | 1+2               | 50         | 1000       |
| SNS1P6QS       | .191      | .315        | Violet       | 1+2               | 50         | 1000       |

†TOOL: 1 = CST596 OR CST596711 2 = SNSUTL

# Modules

## Versatap BNC Coax Coupler Modules



- Accepts BNC plugs
- Compatible with Versatap modular patch panels, faceplates and outlets

| Part Number | Part Description  | Std. Pkg. Qty. | Std. Ctn. Qty. |
|-------------|---|----------------|----------------|
| AT32BB-XX   | Module supplied with industry standard 50 ohm BNC coupler | 1              | 100            |

XX Colors: 09-Ivory; 15-White; 52-EI Ivory

## Versatap F-Connector Module



- Perfect for use in CATV applications
- Compatible with Versatap modular patch panels, faceplates and outlets

**CS-252**

| Part Number | Part Description                                      | Std. Pkg. Qty. | Std. Ctn. Qty. |
|-------------|---|----------------|----------------|
| AT32F-XX    | Module supplied with industry standard F-Type coupler | 1              | 100            |

XX Colors: 09-Ivory; 15-White; 52-EI Ivory

## Versatap RCA 110 Punchdown Modules



- Terminates 24 and 22 AWG solid or stranded conductors
- Utilize Category 5 or higher network cable facilitating a common, easy and cost effective cabling installation. Only 2 of the 8 network cable conductors need to be terminated per cable
- Includes wire retention cap
- Compatible with Versatap modular patch panels, faceplates and surface mount boxes

| Part Number     | Part Description                   | Std. Pkg. Qty. | Std. Ctn. Qty. |
|-----------------|------------------------------------|----------------|----------------|
| AT32RCA- 110-XX | RCA connector with 110 termination | 1              | 50             |

XX Colors: 09-Ivory; 15-White; 52-EI Ivory

## S-Video Punchdown Modules



- Terminates 24 and 22 AWG solid or stranded conductors
- Utilizes Category 5 or higher network cable facilitating a common, easy and cost effective cabling installation
- Compatible with Versatap modular patch panels, faceplates and surface mount boxes

| Part Number | Part Description                           | Std. Pkg. Qty. | Std. Ctn. Qty. |
|-------------|--|----------------|----------------|
| AT32VD-XX   | Module supplied with one S-video connector | 1              | 50             |

XX Colors: 09-Ivory; 15-White; 52-EI Ivory

## SC Fiber Adapter



- Compatible with Versatap products for complete modularity
- Protective cap fully surrounds split sleeve opening
- Can be used with multimode or single mode connectors and patch cords
- Versatap SC Simplex Adapter Modules are commonly used with Versatap Modular Patch Panels

| Part Number | Part Description   | Std. Pkg. Qty. | Std. Ctn. Qty. |
|-------------|--|----------------|----------------|
| AT32SC-XX   | Module supplied with one SC simplex fiber optic adapter with zirconia ceramic split sleeve | 1              | 50             |

XX Colors: 09-Ivory; 15-White; 52-EI Ivory

## **OTHER LABOR AND MISCELLANEOUS**

### **CS-253 Additional Basic Labor**

Includes additional labor hours for work not covered by the other line items. Examples include demolition or removal of existing cabling and equipment, installation of cabling in warehouses or other large buildings, removal of ceiling tiles, installation of cabling through modular furniture, etc.

Unit of measure is per hour.

### **CS-254 Maintenance Hole Set-Up**

Includes labor for each maintenance hole associated with OSP cable placement. Includes air testing, ventilating the hole, testing standing water in the hole, pumping out excess water, connecting the pulling equipment to the pulling eye in the hole and other associated tasks.

Unit of measure is per maintenance hole.

### **CS-255 As-Built Drawings**

As-built drawings will be prepared upon request from a State customer and for new buildings. The as-builts should show, as a minimum, the location of equipment, cables, pathways, terminations, grounding/bonding, and the work area outlets. The as-builts should be provided both in paper and in electronic high resolution full size format. The materials purchased for the Equipment Unit Price is paper and toner for the printer.

As-builts will be charged per drafter hours. The number of hours will vary per project. For example, a small project such as a one floor building will take approximately 3 drafter hours. A medium project such as a multi-story building will take approximately 6 drafter hours. A large project with multiple buildings will take approximately 10 drafter hours.

Unit of measure is per drafter hour plus materials which totals to \$88.00. The hourly labor rate is \$83.78.

### **CS-256 Travel Expenses for Neighbor Island Projects**

Includes travel expenses by sub-contractors based on Oahu for design budgetary projects on the Neighbor Islands. Travel expenses include airfare, lodging, per diem for meals, and van rental.

Unit of measure is per project and actual charges will apply.

### **CS-257 Prefield Travel Expenses for Neighbor Island Projects**

Includes airfare and car rental for the sub-contractor for Neighbor Island prefields.

Unit of measure is per project and actual charges will apply.

**CS-258 Shipping - Expedited Air Freight**

This line item will be used to offset any additional air freight incurred to expedite delivery of materials required for emergency or short customer due date requirements.

Unit of measure is per project and will vary based on the weight of the material(s).  
Actual charges will apply.

**CS-259 Overtime Work**

Includes work done after hours or on weekends and holidays. Also, includes work when the technician works more than an eight hour shift.

Unit of measure is per hour. The overtime rate is \$123.00 per hour without tax.

**CS-260 Contingency**

An arbitrary contingency percentage of 10% is added to all design budgetary quotations to account for any unforeseen field conditions that may arise and may increase the cost of the original design budgetary quote. This is also to accommodate for the end-users making minor modifications/changes after the order has been submitted. Having the contingency allows Hawaiian Telcom to adjust for the modifications upon customer's approval without having to temporarily put the job on hold, while waiting for the change request to go through another approval process and paperwork submissions before the job can resume. The contingency will be assessed only if there are changes made. Otherwise, the customer is invoiced only for the initial design budgetary amount.

10% of the total project will be used to calculate the Contingency.