

## HyperPlus 5e Plenum Rated Category 5e UTP

REF# CS-001

HyperPlus 5e Plenum

Part Number: 10032207

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.

### Description

#### Berk-Tek HyperPlus 5e, Performance Guaranteed

Your business demands continuous performance from your IT network, so our specifications aren't simply numbers on the page. They define the way that we do business. This means that you are **guaranteed** industry-leading performance and quality for all Berk-Tek products.

Some other manufacturers talk about "typical" values, at Berk-Tek, we hold ourselves to a higher standard. We won't talk about typicals, we talk about what is true, guaranteed, and independently verified.

Keep your business running by relying on Berk-Tek.

**Berk-Tek ...Because Your Business Runs Through Us.**

#### Construction

24 AWG bare copper wire insulated with thermoplastic. Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit, jacketed with flame-retardant PVC.

#### Flame Rating

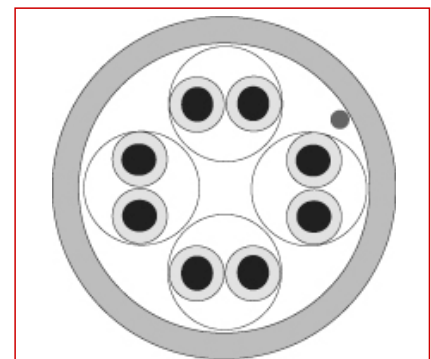
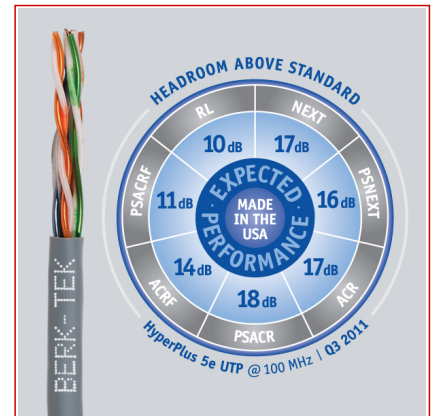
- Plenum - NFPA 262, CMP
- UL Listed

#### Features

- Supports most data and voice applications
- ETL Verified to TIA/EIA-568-C.2
- RoHS Compliant

#### Benefits

- Universally accepted design for global commercial network installations
- Simplified structured cabling solution preserving long-term network investment
- Characterized to 350 Mhz, 250 Mhz greater than the standard



#### Standards

International ISO/IEC 11801

National ANSI/TIA-568-C.2; UL 444

### Characteristics

Construction characteristics	
Type of cable	UTP
Colour	Grey
Dimensional characteristics	
Length per reel	1000.0 ft
Number of pairs	4

**Contact**

Copper LAN Product Inquiry  
Phone: 717-354-6200  
berktek.support@nexans.com

## HyperPlus 5e Plenum Rated Category 5e UTP

HyperPlus 5e Plenum

### Usage characteristics

Packaging	Box
Field of application	Indoor
Category	Cat. 5e
Fire safety	Plenum Rated

**HyperPlus 5e Plenum Rated Category 5e UTP**  
HyperPlus 5e Plenum  
Part Number: 10032207

HyperPlus 5e Parametric Data: Electrical

FREQ MHz	RL (dB)			NEXT (dB)			PSNEXT (dB)		
	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance
1	20.0	20.0	30.0	65.3	66.3	83.0	62.3	62.3	79.0
4	23.0	23.0	33.9	56.3	57.3	74.0	53.3	53.3	69.3
10	25.0	25.0	32.7	50.3	51.3	67.2	47.3	47.3	63.0
16	25.0	25.0	35.1	47.2	48.3	64.1	44.2	44.3	59.9
20	25.0	25.0	34.6	45.8	46.8	62.8	42.8	42.8	58.8
31.25	23.6	23.6	33.3	42.9	43.9	59.8	39.9	39.9	55.6
62.5	21.5	21.5	30.2	38.4	39.4	55.6	35.4	35.4	51.3
100	20.1	20.1	30.3	35.3	36.3	52.6	32.3	32.3	48.1
150	—	—	29.6	—	—	49.9	—	—	45.8
200	—	—	29.6	—	—	47.9	—	—	43.7
250	—	—	28.4	—	—	46.1	—	—	41.9
300	—	—	28.1	—	—	44.2	—	—	40.2
350	—	—	27.2	—	—	42.9	—	—	38.8

FREQ MHz	IL (dB/100m)			ACR (dB/100m)			PSACR (dB/100m)		
	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance
1	2.0	2.0	1.8	63.3	64.3	78.3	60.3	60.3	77.1
4	4.1	4.1	3.7	52.2	53.3	66.8	49.2	49.3	65.6
10	6.5	6.5	5.9	43.8	44.9	58.3	40.8	40.9	57.0
16	8.2	8.2	7.5	39.0	40.0	53.6	36.0	36.0	52.4
20	9.3	9.3	8.4	36.5	37.6	51.8	33.5	33.6	50.4
31.25	11.7	11.7	10.5	31.2	32.3	46.3	28.2	28.3	45.0
62.5	17.0	17.0	15.1	21.4	22.4	37.1	18.4	18.4	36.0
100	22.0	22.0	19.2	13.3	14.4	30.0	10.3	10.4	28.7
150	—	—	23.8	—	—	23.0	—	—	21.4
200	—	—	27.7	—	—	16.7	—	—	15.3
250	—	—	31.1	—	—	11.5	—	—	9.9
300	—	—	34.3	—	—	5.9	—	—	4.5

## HyperPlus 5e Plenum Rated Category 5e UTP

HyperPlus 5e Plenum

350      —      —      37.2      —      —      1.4      —      —      0.1

All swept frequency values above 100 MHz are for engineering purposes only.

### HyperPlus 5e Parametric Data: Electrical (cont)

FREQ MHz	ACRF (dB/100m)		PSACRF (dB/100m)		LCL/TCL	EL TCTL		
	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance	Product Guarantee	
1	63.8	<b>63.8</b>	78.7	60.8	<b>60.8</b>	73.0	40.0	35.0
4	51.8	<b>51.8</b>	66.7	48.8	<b>48.8</b>	61.1	40.0	23.0
10	43.8	<b>43.8</b>	58.7	40.8	<b>40.8</b>	53.1	40.0	15.0
16	39.7	<b>39.7</b>	54.3	36.7	<b>36.7</b>	48.8	38.0	10.9
20	37.8	<b>37.8</b>	52.3	34.8	<b>34.8</b>	46.7	37.0	9.0



## HyperPlus 5e Plenum Rated Category 5e UTP

HyperPlus 5e Plenum

31.25	33.9	33.9	48.6	30.9	30.9	42.3	35.1	5.1
62.5	27.9	27.9	42.0	24.9	24.9	36.3	32.0	—
100	23.8	23.8	37.9	20.8	20.8	32.2	30.0	—
150	—	—	34.8	—	—	29.2	28.2	—
200	—	—	32.1	—	—	26.8	27.0	—
250	—	—	29.9	—	—	25.2	26.0	—
300	—	—	27.9	—	—	23.4	25.2	—
350	—	—	27.1	—	—	22.8	24.6	—

All swept frequency values above 100 MHz are for engineering purposes only.

### HyperPlus 5e Plenum UTP Physical Data

Technical Data - Physical			Color Code		
<b>Conductor</b>	24 AWG Bare Copper		<b>Pair-1</b>	White/Blue	Blue
<b>Conductor diameter - in. (mm)</b>	0.020	(0.58)	<b>Pair-2</b>	White/Orange	Orange
<b>Insulated conductor dia.-in.(mm)</b>	0.038	(0.97)	<b>Pair-3</b>	White/Green	Green
<b>Cable diameter - in. (mm)</b>	0.210	(5.33)	<b>Pair-4</b>	White/Brown	Brown
<b>Nom. cable wt.-lb./kft. (kg/kft)</b>	25	(11.34)	Temperature Rating (degrees C)		
<b>Max. installation tension - lb. (N)</b>	25	(110)	Installation	0 to +50	
<b>Min. bend radius - in. (mm)</b>	1	(25.4)	Operation	-20 to +60	

### HyperPlus 5e Plenum Technical Data - Parametric Measurements

<b>Mutual Capacitance</b>	5.2 nF/100 m max.
<b>DC Resistance</b>	9.38 Ohms/100 m max.
<b>Skew</b>	45 ns/100 m max.
<b>Pair to Ground Unbalance</b>	330 pF/100 m max.
<b>Velocity of Propagation</b>	66% nom.
<b>DC Resistance unbalance</b>	5% max.

### Supported Category 5e Applications

STANDARD	APPLICATION	SPEED
IEEE 802.3	1000BASE-T	1 Gb/s
ATM	155Mb/s	155 Mb/s
IEEE 802.3	100BASE-TX	100 Mb/s
CDDI		100 Mb/s
IEEE 802.3	10BASE-T	10 Mb/s

**Contact**

Copper LAN Product Inquiry  
Phone: 717-354-6200  
berktek.support@nexans.com

## HyperPlus 5e Plenum Rated Category 5e UTP

HyperPlus 5e Plenum

### Selling delivery information

PLEASE NOTE: In the interest of product improvement, Berk-Tek, a Nexans company may make improvements or changes in the products, the programs or services described at any time without notice. Additionally, the information contained herein may include typographical errors or technical inaccuracies. Changes will be periodically made to address any such issues.

## LANmark-1000 Enhanced Category 6 Plenum Rated

REF# CS-002

LANmark-1000 Plenum

Part Number: 10032026

LANmark-1000 has been improved to offer best-in-class electrical performance. Berk-Tek's engineers completely redesigned LANmark-1000 so that all crosstalk parameters could be improved by four dB. As a result, the Power Sum Attenuation to Crosstalk ratio (PSACR) is nearly 3 times better (at 250 MHz) allowing for much greater signal strength and less vulnerability to noise interference. At Berk-Tek, we understand that your business runs through us.

### Description

### Berk-Tek LANmark-1000, Performance Guaranteed

Before any cable can display the **Berk-Tek LANmark-1000** legend, it must pass factory tests with **a minimum of 5dB of crosstalk margin beyond the CAT 6 standard for NEXT, PSNEXT, ACR and PSACR**. If the margin is missing, so is the legend. That is our guarantee to you.

Your business demands continuous performance from your IT network, so our specifications aren't simply numbers on the page. They define the way that we do business. This means that you are **guaranteed** industry-leading performance and quality for all Berk-Tek products.

Some other manufacturers talk about "typical" values, at Berk-Tek, we hold ourselves to a higher standard. We won't talk about typicals, we talk about what is true, guaranteed, and independently verified.

Keep your business running by relying on Berk-Tek.

**Berk-Tek ...Because Your Business Runs Through Us.**

### Construction

23 AWG bare copper wire insulated with FEP. Two insulated conductors twisted together to form a pair and four such pairs laid up with crossfiller to form the basic unit, jacketed with flame-retardant PVC.

### Flame Rating

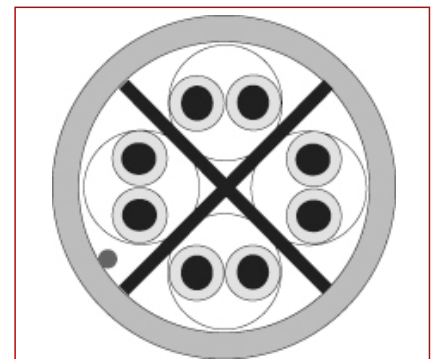
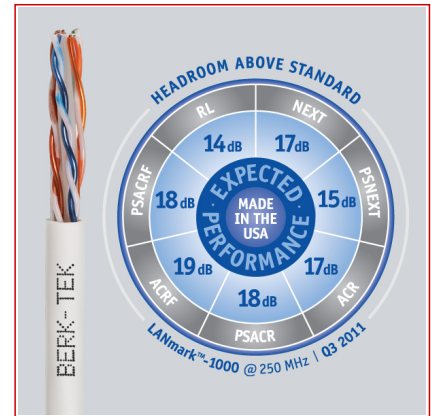
Plenum - NFPA 262, CMP, UL Listed

### Features

- Full Power Sum Performance
- Documented balance characteristics (LCL, LCTL)
- ETL verified to ANSI/TIA/EIA-568-C.2
- RoHS Compliant

### Benefits

- Optimal support for Gigabit Ethernet with headroom
- 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
- Characterized to 550 MHz, 300 MHz greater than the standard



### Standards

International ISO/IEC 11801

National ANSI/TIA-568-c.2 Category 6; UL 444

## LANmark-1000 Enhanced Category 6 Plenum Rated

LANmark-1000 Plenum

Part Number: 10032026

### Characteristics

Construction characteristics	
Type of cable	UTP
Colour	Grey
Dimensional characteristics	
Length per reel	1000.0 ft
Number of pairs	4
Usage characteristics	
Packaging	Box
Field of application	Indoor
Category	Cat. 6
Fire safety	Plenum Rated

## LANmark-1000 Enhanced Category 6 Plenum Rated

LANmark-1000 Plenum

Part Number: 10032026

### LANmark-1000 Parametric Data: Electrical

FREQ MHz	RL (dB)			NEXT (dB)			PSNEXT (dB)		
	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance
1	20.0	20.0	32.0	74.3	79.3	93.0	72.3	77.3	89.3
4	23.0	23.6	32.9	65.3	70.3	83.5	63.3	68.3	79.8
10	25.0	26.0	35.4	59.3	64.3	77.1	57.3	62.3	73.4
16	25.0	26.0	37.4	56.2	61.3	73.7	54.2	59.3	70.2
20	25.0	26.0	36.8	54.8	59.8	72.8	52.8	57.8	69.0
31.25	23.6	23.5	36.9	51.9	56.9	69.2	49.9	54.9	66.0
62.5	21.5	22.5	34.3	47.4	52.4	65.2	45.4	50.4	61.3
100	20.1	21.6	32.8	44.3	49.3	62.2	42.3	47.3	58.3
150	18.9	21.0	31.5	41.7	46.7	59.2	39.7	44.7	55.3
200	18.0	20.5	31.7	39.8	44.8	57.1	37.8	42.8	53.2
250	17.3	20.1	31.2	38.3	43.4	55.5	36.3	41.4	51.6
300	—	19.8	29.8	—	42.2	54.2	—	40.2	50.4
350	—	—	29.2	—	41.2	52.7	—	39.2	49.0
400	—	—	28.4	—	—	51.7	—	—	47.8
450	—	—	27.4	—	—	49.9	—	—	45.6
500	—	—	26.8	—	—	47.9	—	—	43.6

FREQ MHz	IL (dB/100m)			ACR (dB/100m)			PSACR (dB/100m)		
	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance
1	2.0	2.0	1.7	72.3	77.3	89.4	70.3	75.3	87.5
4	3.8	3.8	3.5	61.5	66.6	77.6	59.5	64.6	76.1
10	6.0	5.9	5.6	53.3	58.4	69.2	51.3	56.4	67.7
16	7.6	7.5	7.1	48.7	53.8	64.6	46.7	51.8	62.9
20	8.5	8.4	8.0	46.3	51.4	62.4	44.3	49.4	61.0
31.25	10.7	10.6	10.0	41.2	46.4	57.5	39.2	44.4	55.7
62.5	15.4	15.3	14.4	32.0	37.1	48.2	30.0	35.1	46.7
100	19.8	19.6	18.4	24.5	29.7	41.2	22.5	27.7	39.6
150	24.7	24.5	22.8	16.9	22.2	33.6	14.9	20.2	32.2
200	29.0	28.8	26.7	10.8	16.0	27.8	8.8	14.0	26.1
250	32.8	32.6	30.1	5.5	10.8	22.7	3.5	8.8	21.0
300	—	36.1	33.1	—	6.1	18.3	—	4.1	16.6
350	—	39.4	36.0	—	1.8	14.4	—	-0.2	12.5
400	—	—	38.7	—	—	10.1	—	—	8.4

**LANmark-1000 Enhanced Category 6 Plenum Rated**  
LANmark-1000 Plenum

450	—	—	41.4	—	—	4.9	—	—	3.5
500	—	—	43.9	—	—	0.0	—	—	-1.2

All swept frequency values above 350 MHz are for engineering purposes only.

LANmark-1000 Parametric Data: Electrical (cont)

		ACRF (dB/100m)		PSACRF (dB/100m)		LCL/TCL	EL TCTL
FREQ MHz	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance	Product Guarantee

## LANmark-1000 Enhanced Category 6 Plenum Rated

LANmark-1000 Plenum

1	67.8	72.8	86.8	64.8	69.8	83.1	40.0	35.0
4	55.8	60.7	74.9	52.8	57.7	71.5	40.0	23.0
10	47.8	52.8	67.1	44.8	49.8	63.5	40.0	15.0
16	43.7	48.7	63.0	40.7	45.7	59.2	38.0	10.9
20	41.8	46.8	61.0	38.8	43.8	57.2	37.0	9.0
31.25	37.9	42.9	57.3	34.9	39.9	53.6	35.1	5.1
62.5	31.9	36.8	51.2	28.9	33.8	47.6	32.0	—
100	27.8	32.8	46.9	24.8	29.8	43.5	30.0	—
150	24.3	29.3	43.3	21.3	26.3	39.6	28.2	—
200	21.8	26.7	40.9	18.8	23.7	37.1	27.0	—
250	19.8	24.8	38.9	16.8	21.8	35.2	26.0	—
300	—	23.2	37.7	—	20.2	33.6	25.2	—
350	—	21.9	36.2	—	18.9	32.6	24.6	—
400	—	—	34.7	—	—	30.9	24.0	—
450	—	—	33.1	—	—	29.4	23.5	—
500	—	—	32.2	—	—	27.8	23.0	—

All swept frequency values above 350 MHz are for engineering purposes only.

### LANmark-1000 Plenum UTP Physical Data

Technical Data - Physical			Color Code		
Conductor	23 AWG Bare Copper		Pair-1	White/Blue	Blue
Conductor diameter - in. (mm)	0.022	(0.58)	Pair-2	White/Orange	Orange
Insulated conductor dia.-in.(mm)	0.037	(1.04)	Pair-3	White/Green	Green
Cable diameter - in. (mm)	0.226	(5.69)	Pair-4	White/Brown	Brown
Nom. cable wt.-lb./kft. (kg/km)	29	(13.2)	<b>Temperature Rating (degrees C)</b> Installation 0 to +50 Operation -20 to +60		
Max. installation tension - lb. (N)	25	(110)			
Min. bend radius - in. (mm)	1	(25.4)			

### LANmark-1000 Plenum Technical Data - Parametric Measurements

Mutual Capacitance	5.6 nF/100 m max.
DC Resistance	9.38 Ohms/100 m max.
Skew	35 ns/100 m max.
Pair to Ground Unbalance	330 pF/100 m max.
Velocity of Propagation	72% nom.
DC Resistance unbalance	5% max.

### Supported Category 6 Applications

STANDARD	APPLICATION	SPEED
IEEE 802.3	1000BASE-T	1 Gb/s
TIA/EIA-854	1000BASE-TX	1 Gb/s
ATM	155Mb/s	155 Mb/s

## LANmark-1000 Enhanced Category 6 Plenum Rated

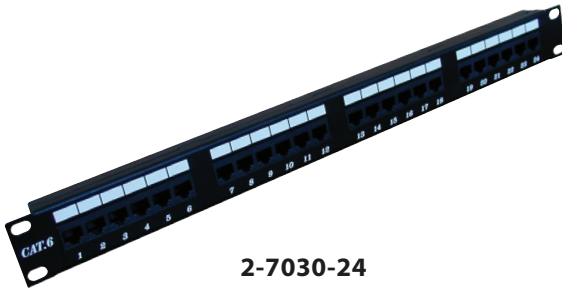
LANmark-1000 Plenum

IEEE 802.3	100BASE-TX	100 Mb/s
CDDI		100 Mb/s
IEEE 802.3	10BASE-T	10 Mb/s

### Selling delivery information

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**2-7030-24**

### Description

Rugged steel frame construction, with rolled edges eliminates flex during termination. Rear cable management bar provides cable strain relief. Write-on label and number designations provide easy identification. Labels provide port numbering and T568A/B color-coding for quick installation. Multiple cable tie locations facilitate cable dressing, moves, adds, and changes.

### Features

- Available in 12, 24, and 48 port configurations
- Exceeds Category 5e TIA/EIA-568-B.2 specifications for component performance

### Specifications

- Wiring:** T568A or T568B
- Insertion:** >750 cycles
- Housing:** High impact, UL 94V-0 rated thermoplastic
- IDC Blocks:** Tin lead plated connector accepts 22-26 AWG solid UTP cable
- Contact Pressure:** >100 grams
- Insulation Resistance:** 500 megaohms
- Contact Resistance:** <10 milliohms
- Voltage/Current:** <140 VDC @ 1.5 amps
- Dielectric Withstand:** >1000 VAC RMS @ 60Hz
- Safety:** Complies with Part 68 of the FCC Rules and requirements adopted by the ACTA  
Complies with TIA/EIA Category 6 Specifications



### Accessories

#### Cat5e Punchdown Tools

Part Number	Description
<b>814B</b>	Single Wire Punchdown Tool

#### Cat 5e Patch Cords

Part Number	Description
<b>2-7403-xx</b>	3-ft Patch Cord
<b>2-7407-xx</b>	7-ft Patch Cord
<b>2-7410-xx</b>	10-ft Patch Cord
<b>2-7415-xx</b>	15-ft Patch Cord

Colors (-xx): (-53) Red, (-56) Yellow, (-62) Blue

### Product Information

#### Suttle

Part Number	Description
2-7034-12	12-port, Cat 5e patch panel, 568A/B wiring, 3.25"H x 10"W x 2"D
2-7030-24	24-port, Cat 5e patch panel, 568A/B wiring, 1.75"H x 19"W x 3.5"D
2-7032-48	48-port, Cat 5e patch panel, 568A/B wiring, 3.5"H x 19"W x 3.5"D

Color: Gray Only

REF# CS-003

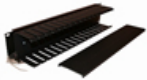
REF# CS-004

REF# CS-005

METRIC MEASUREMENT VERSION

REF# CS-006

9512-1902 Cable Management - Horizontal Cable Manager



For more Information  
please call

1-800-793-2954



## General Description:

19" 2U Horizontal Rack Mount Cable Manager, w/finger stock and cover 3" x 3". Horizontal/Patch Cord Organizers keep wires and cable under control.

## Image

Image:



## Physical Characteristics (Encl-CM)

### Dimensions

Dimensions:

Mounting/Style	Rack Units
19 inch Rack Mount	2U

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	06/01/2006

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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Revision Number: 0 Revision Date: 01-27-2010

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## 24 Port Patch Panel Hinged Wall Mount Bracket


103B1-24

REF# CS-007



### Related Products

 [24-port Category 6, 19" Rack Mount Patch Panel](#)

 [24-port Category 5e, 19" Rack Mount Patch Panel](#)

 [48 Port Patch Panel Hinged Wall Mount Bracket](#)

## Overview

Hinged wall mount bracket for 24 port patch panels.

### Additional Information

Part #	103B1-24
for Use with	24 port patch panels

## 48 Port Patch Panel Hinged Wall Mount Bracket

103B1

REF# CS-008



### Related Products



[48-port Category 6, 19" Rack Mount Patch Panel](#)



[48-port Category 5e, 19" Rack Mount Patch Panel](#)



[24 Port Patch Panel Hinged Wall Mount Bracket](#)

## Overview

Hinged wall mount bracket for 48 port patch panels.

### Additional Information

Part #	103B1
for Use with	48 port patch panels



### Description

Suttle Category 5e rated patch cords provide performance that exceeds EIA/TIA-568-C specifications for Category 5e channel, basic link, and component performance.

### Specifications

- **Dielectric Withstand:** >1000 VAC RMS @ 60 Hz
- **Insulation Resistance:** >500 megohms
- **Contact Resistance:** <20 milliohms
- **Current Rating:** 1.5A at 68 Deg F (20 Deg C) per IEC Publication 512-3, Test 5b
- **Conductors:** 24 AWG 7/32 stranded copper
- **Insulation:** Flame retardant polyethylene
- **Jacket:** PVC
- **Wiring:** Compatible with T568-C
- **Contacts:** Phosphor bronze with 100 microinch nickel with minimum 50 microinch gold plating
- **Plastic Plug:** High impact, UL 94V-0 rated thermoplastic



### Features

- Plastic plug housing is flame retardant UL rated 94V0 Thermoplastic
- Mechanical, electrical, and clearance specifications meet FCC Rules and Regulations, Part 68 Subpart F
- Meets Category 5e transmission requirements in EIA/TIA 568-C
- Third party certified
- Supports broadband video and high speed ATM applications
- Complies with TIA/EIA Category 5e Specifications

### Product Information

#### Suttle

#### Part Number

#### Description

2-7403-xx	3-ft Cat 5e Patch Cord	REF# CS-009
2-7407-xx	7-ft. Cat 5e Patch Cord	REF# CS-010
2-7410-xx	10-ft Cat 5e Patch Cord	REF# CS-011
2-7415-xx	15-ft Cat 5e Patch Cord	REF# CS-012

Colors (-xx): (-53) Red, (-56) Yellow, (-62) Blue



Copper

Patch Cord Product Identifier

Miscellaneous

Patch Cord Identifier

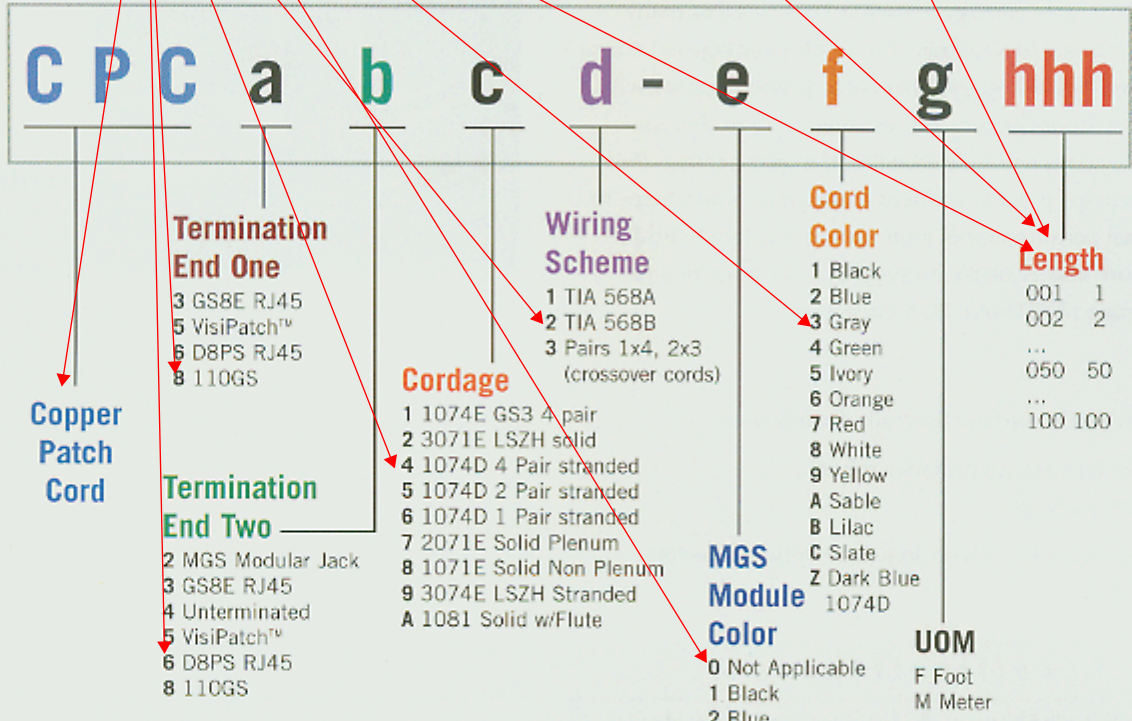
Length is the only difference between CS-013 and Cs-014, CS-015

REF# CS-013

REF# CS-014

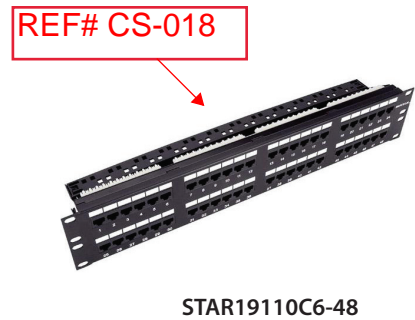
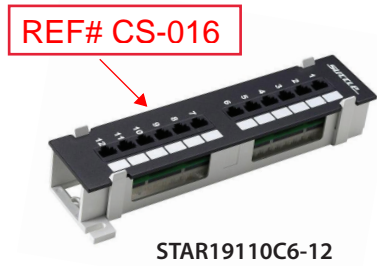
REF# CS-015

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.



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 - 03XXXXX gray only
110P2UP	CPC5562 - 03XXXXX gray only
119P8CM*A	CPC8141 - 0XXXXX
119P8CM*B	CPC8142 - 0XXXXX
110P8GS	CPC8842 - 0XXXXX
1 pr VP to RJ45	CPC5162 - 03XXXXX gray only
4 pr VP to Unterm	CPC5482 - 0XXXXX blue, gray only
GS8L	CPC3322 - 0XXXXX
GS8H	CPC3392 - 08XXXXX white only
D8PS	CPC6642 - 0XXXXX
117PS	CPC6442 - 03XXXXX gray only
GS81-SN	CPC33A2 - XXXXX
GS81	CPC33A2 - 0XXXXX
GS81-SE	CPC34A2 - 0XXXXX white, blue only
GS8E Keyed	CPC9912 - 0XXXXX



**Description**

These Category 6 Patch Panels are built with rugged steel construction and rolled edges to eliminate flexing. The 12-port Panel includes a bracket for wall mounting; the 24- and 48-port Panels mount in a 19" rack. Rear input connectors are 110 IDC, front output jacks are RJ-45. Connectors can be wired in either 568A or 568B configurations.

**Features**

- Exceeds TIA/EIA 568-B.2-1 performance specifications
- Supports bandwidth beyond 250 MHz
- Write-on label and number designations provide easy identification
- Rear cable management bar provides cable strain relief
- Multiple cable tie locations facilitate cable dressing

**Specifications**

- Wiring:** T568A or T568B
- Insertion:** >750 cycles
- Jack Housing:** High impact, UL 94V-0 rated thermoplastic
- IDC Blocks:** Tin lead plated connector accepts 22-26 AWG solid UTP cable
- Contact Pressure:** >100 grams
- Insulation Resistance:** 500 megohms
- Contact Resistance:** <10 milliohms
- Voltage/Current:** <140 VDC @ 1.5 amps
- Dielectric Withstand:** >1000 VAC RMS @ 60Hz
- Safety:** Complies with Part 68, FCC Rules  
Complies with TIA/EIA Category 6 Specifications



REF# CS-019 →

**Accessories**

**Cat 6 Punchdown Tools**

**Part Number**  
STAR110C6-T  
814B

**Description**  
4-Wire Punchdown Tool  
Single Wire Punchdown Tool

**Cat 6 Patch Cords**

**Part Number**  
STAR661-04-xx  
STAR661-08-xx  
STAR661-12-xx  
*Colors (-xx): (-53) Red, (-56) Yellow, (-62) Blue*

**Description**  
4-ft Patch Cord  
8-ft Patch Cord  
12-ft Patch Cord

**Wire Management**

**Part Number**  
19110RK  
19WM350

**Description**  
19" x 84" Relay Rack  
Horizontal Trough(19"Wx 3.5"H)

**Product Information**

**Suttle Part Number Description**

STAR19110C6-12	12-port, Cat 6 patch panel, 568A/B wiring, wall-mount (bracket included) - 3.25" H x 10"W x 2"D
STAR19110C6-24	24-port, Cat 6 patch panel, 568A/B wiring, 19" rack-mountable - 1.75"H x 19"W x 3.5"D
STAR19110C6-48	48-port, Cat 6 patch panel, 568A/B wiring, 19" rack-mountable - 3.5"H x 19"W x 3.5"D <i>Color: Gray Only</i>

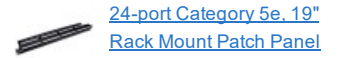
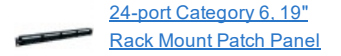
## 24 Port Patch Panel Hinged Wall Mount Bracket

103B1-24

REF# CS-020



### Related Products



## Overview

Hinged wall mount bracket for 24 port patch panels.

### Additional Information

Part #	103B1-24
for Use with	24 port patch panels




## 48 Port Patch Panel Hinged Wall Mount Bracket


103B1

REF# CS-021



### Related Products

 [48-port Category 6, 19\" data-bbox="805 185 935 205">Rack Mount Patch Panel](#)

 [48-port Category 5e, 19\" data-bbox="805 235 935 255">Rack Mount Patch Panel](#)

 [24 Port Patch Panel Hinged Wall Mount Bracket](#)

## Overview

Hinged wall mount bracket for 48 port patch panels.

### Additional Information

Part #	103B1
for Use with	48 port patch panels

**49255-H24**

REF# CS-022



This product is already 1 RU - and can accept HD Jacks

UPC Code: 07847738797

Country of Origin: Taiwan - \*Eligible for ARRA funded projects > \$7,443,000



**Brand Features**

QuickPort Patch Panels are compatible with all QuickPort modular connectors to maximize versatility with a variety of media applications and enable easy upgrades. The panel fits all industry-standard 19-inch racks and cabinets.

**Item Description**

QuickPort Patch Panel, 24-Port, 1RU. Cable Management bar included.

**Features and Benefits**

- Mounts on 19-inch equipment racks
- Accepts all QuickPort-style Connectors
- Includes port numbers
- 49255-H24 and 49255-H48 include write-on blocks
- Rear cable management bar included
- 24-port panels are compatible with Intact Intelligent Port Management System
- Magnifying lens ensures visibility of port labels (49255-L24, 49255-L48)

**SPECIFICATION SUBMITTAL**

JOB NAME:	CATALOG NUMBERS:	
<input type="text"/>	<input type="text"/>	<input type="text"/>
JOB NUMBER:	<input type="text"/>	<input type="text"/>

**Leviton Manufacturing Co., Inc.**  
 201 North Service Road, Melville, NY 11747  
 Telephone: 1-800-323-8920 · FAX: 1-800-832-9538 · Tech Line (8:30AM-7:30PM E.S.T. Monday-Friday): 1-800-824-3005

**Leviton Manufacturing of Canada, Ltd.**  
 165 Hymus Boulevard, Pointe Claire, Quebec H9R 1E9 · Telephone: 1-800-469-7890 ·  
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REF# CS-023

## QuickPort® High-Density Die Cast Flat Patch Panel with Cable Management Bar

### APPLICATION

The QuickPort High-Density Patch Panel supports 48 ports while filling only 1RU of rack space. It is available unloaded to support a variety of network requirements, and fit all industry-standard 19" racks and cabinets. An excellent choice for both retrofits and new installations, each kit includes one patch panel, labels, a label holder, and a cable management bar.



### SPECIFICATION

Patch panels shall feature a 1RU/48-port design that fits industry-standard 19" equipment rack. Panels shall accommodate most QuickPort connectors. Panels shall be UL Listed. Panel shall be constructed of die-cast aluminum, and feature a durable, powder-coat finish. Label holder shall include magnification feature for port identification.

### FEATURES

- 48-port density in only 1RU of rack space
- Patented design
- Robust die-cast aluminum construction
- Includes Cable Management Bar (additional bars available separately)
- Multi-color card stock for identification options
- Label holders magnify labels for easy reading

### DESIGN CONSIDERATIONS

- Must follow instruction sheets included with each panel
- Panel supports 48-ports in 1RU of rack space
- Mounts on industry-standard 19" equipment rack
- Available in a variety of category ratings and will accommodate most QuickPort connectors
- Recommend jacks be terminated prior to installation in panel
- Recommend use of cable management bar to support bulk and weight of cables
- Design allows for front cable management using no additional rack space
- Empty panels available for retrofits
- Orientation of top-row connectors is rotated 180°

### STANDARDS COMPLIANCE

cULus Listed

### PHYSICAL SPECIFICATIONS

Dimensions: See page 2  
Materials: Aluminum, powder-coated black  
Capacity: 48-port

### COUNTRY OF ORIGIN

USA

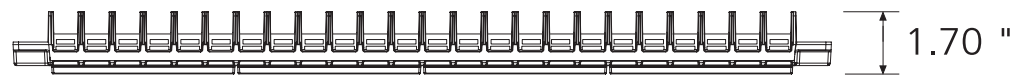
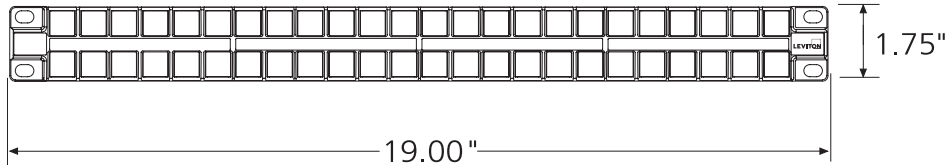
### WARRANTY INFORMATION

For a copy of Leviton product warranties, visit [www.leviton.com/warranty](http://www.leviton.com/warranty).

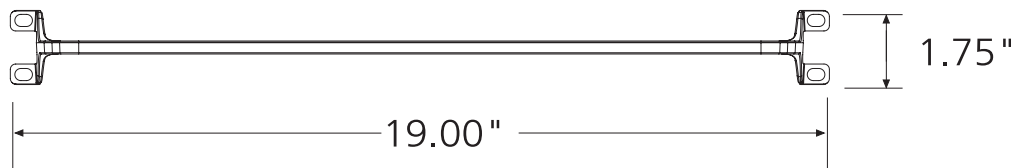
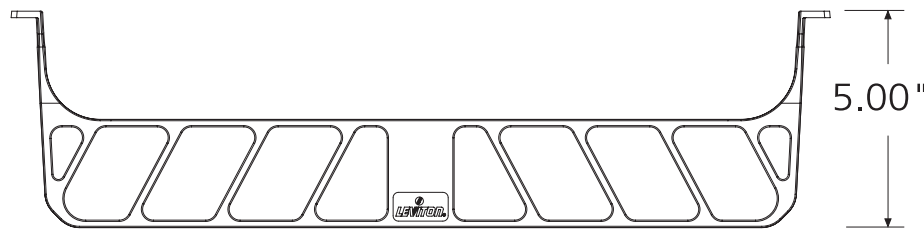
49255-D48, 49005-DMB

**ELECTRONIC FILES**

For CAD files, typical specs, or technical drawings (.DXF, .DWG), visit [www.leviton.com](http://www.leviton.com).



Patch Panel



Cable Management Bar

**49255-D48, 49005-DMB**

**PART NUMBERS**

Description	Part No.
QuickPort High-Density Die Cast Flat 1RU Patch Panel (Unloaded, includes Cable Management Bar)	49255-D48
High-Density Cable Management Bar	49005-DMB





### Description

Suttle Category 6 rated patch cords offer the higher performance specifications needed for Gigabit Ethernet (1000-Base-T) applications. They feature connectors with improved strain relief and anti-snag latches, and are available in a variety of lengths and colors.

### Specifications

- **Dielectric Withstand:** >1000 VAC RMS @ 60 Hz
- **Insulation Resistance:** >500 megaohms
- **Contact Resistance:** <20 milliohms
- **Contact Materials:** 50 microinch (min) gold over 100 micro inch (min) nickel
- **Current Rating:** 1.5A at 68 Deg F (20 Deg C) per IEC Publication 512-3, Test 5b
- **Conductors:** 4 twisted pair, 24 AWG stranded copper
- **Insulation:** Flame retardant polyethylene
- **Jacket:** PVC
- **Plastic Plug:** High impact, UL 94V-0 rated thermoplastic



### Features

- Enhanced strain relief at connectors
- Anti-snag latches
- Supports broadband video and high-speed ATM applications
- Backwards compatible with Cat 5 legacy products
- Meets Cat 6 transmission requirements in EIA/TIA 568-C standard
- Mechanical, electrical and clearance specifications meet FCC Rules and Regulations, Part 68 Subpart F

### Product Information

#### Suttle

#### Part Number

#### Description

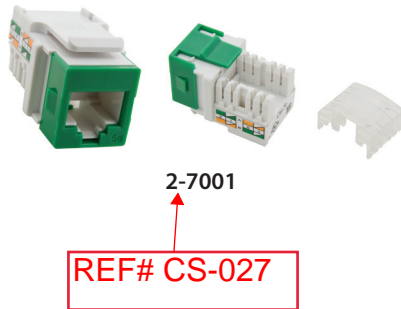
STAR661-04-xx	Category 6 Channel 200 Mhz Patch Cord; 4 ft. (1.2 M) length
STAR661-08-xx	Category 6 Channel 200 Mhz Patch Cord; 8 ft. (2.4 M) length
STAR661-12-xx	Category 6 Channel 200 Mhz Patch Cord; 12 ft. (3.6 M) length

Colors (-xx): (-53) Red, (-56) Yellow, (-62) Blue

REF# CS-024

REF# CS-025

REF# CS-026



### Description

Suttle SpeedStar™ Category 5e modular jacks exceed TIA/EIA-568-C.2 specifications for Category 5e component performance.

SpeedStar™ modules are for use with Suttle's SpeedStar™ faceplates, bezels and surface mount housings. Gel-filled CorroShield® products protect the wiring from contaminants that can affect transmission speeds. Termination requires use of a punch down installation tool.

Available in a white housing, each jack comes with multi-color bezels for your installation.

### Product Specifications

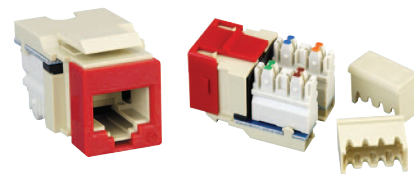
<b>Wiring:</b>	568A or 568B
<b>Insertion Life:</b>	750 insertions
<b>Housing:</b>	High impact, UL 94V-0 rated thermoplastic
<b>Contacts:</b>	50 microinch hard gold plating minimum with 100 microinch nickel

### Features

- Easy installation from rear of faceplate
- Compatible with SpeedStar™ products (bezels, faceplates, and surface mount housings)
- Terminates with standard 110 termination tools
- Dust covers for IDC terminations
- Jacks equipped with CorroShield® gel protects from dust, moisture, and other components

### Electrical Specifications

<b>Contact Pressure:</b>	>100 grams
<b>Contact Resistance:</b>	<10 milliohms
<b>Insulation Resistance:</b>	>500 megohms
<b>Current/Voltage:</b>	140 VDC @ 1.5 amps (2-7001) 140 VDC @ 2 amps (STAR600A&B)
<b>Dielectric Withstand:</b>	1000 VAC RMS @ 60Hz



STAR600A-RC

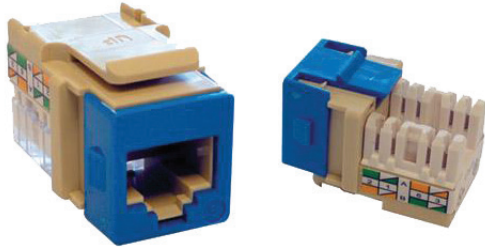
### Product Information

#### Suttle

Part Number	Description
2-7001	8-Position, 8-Conductor Jack, 568A/B, 110 IDC Block
STAR600A-RC	8-Position, 8-Conductor, 568A, with CorroShield®, 110 IDC Block
STAR600B-RC	8-Position, 8-Conductor, 568B, with CorroShield®, 110 IDC Block

Bezel Colors (-xx): (-51) Green, (-52) Electrical Ivory, (-53) Red, (-56) Yellow, (-62) Blue, (-64) Lt. Almond, (-85) White, (-97) Orange

Gelguard™ gel in the CorroShield® products, is a nonhazardous mixture per OSHA's Hazard Communications Standard (29 CFR 1910.1200). An MSDS is not required. A product safety bulletin is available upon request.



### Description

SpeedStar™ Category 6 rated data jacks provide performance that exceeds TIA/EIA-568-C.2 channel and link standards. The new jack design provides quicker and easier wire termination. Angled IDC connector pins aid in maintaining maximum Category 6 performance, providing a gas tight connection and improved cable retention.

### Product Specifications

- Wiring:** 568A or 568B
- Insertion Life:** 750 insertions
- Housing:** High impact, UL 94V-0 rated thermoplastic
- Contacts:** 100 micro-inch nickel with minimum 50 micro-inch of gold
- IDC Blocks:** Tin lead plated connector accepts 22-26 AWG solid UTP cable

### Electrical Specifications

- Contact Pressure:** >100 grams.
- Contact Resistance:** <10 milliohms
- Insulation Resistance:** >500 megohms
- Voltage/Current:** 140VDC @ 2.0 amps
- Dielectric Withstand:** 1000 VAC RMS @ 60Hz



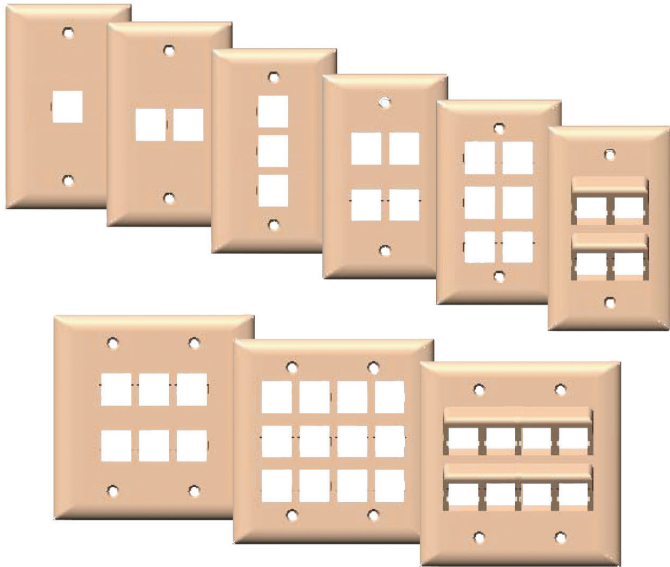
### Features

- Exceeds Category 6 TIA/EIA-568-C.2 specifications for channel and link performance.
- Angled IDC pins aid in maintaining maximum Cat 6 performance, providing a gas tight connection and improved cable retention
- Terminates with standard 110 termination tools
- StarSix modules are compatible with Suttle's SpeedStar or Series 2000 line of bezels, faceplates and surface mount housings
- IDC Cap provides protective strain relief
- 568A/568B color-coded labels facilitate termination
- Easy installation from rear of faceplate
- Complies with Part 68 of the FCC Rules and the requirements adopted by the ACTA

### Product Information

REF# CS-028

Suttle Part Number	Description
STAR6000C6	Category 6 jack, 8-position, 8-conductor module Colors (-xx): (-51) Green, (-52) Electrical Ivory, (-53) Red, (-56) Yellow, (-62) Blue, (-64) Lt. Almond, (-85) White, (-97) Orange



#### Description

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

Housings can be screw mounted or mounted with a double-sided adhesive pad.

#### Features

- Simple, snap-in assembly
- Compatible with all SpeedStar™ connectors
- Available in multiple sizes and port configurations

#### Product Specifications

**Materials:** UL 94 V-O Thermoplastic

**Dimensions:**  
 Single Gang: 4.57"H x 2.81"W x 0.2"D  
 Oversized: 4.875"H x 3.125"W x 0.2"D  
 Double Gang: 4.57"H x 4.5"W x 0.2"D



#### Product Information

##### Suttle

##### Part Number

##### Description

2-2501-xx	1-port faceplate, single gang, smooth finish
2-2502-xx	2-port faceplate, single gang, smooth finish
2-2503-xx	3-port faceplate, single gang, smooth finish
2-2504-xx	4-port faceplate, single gang, smooth finish
2-2504A-xx	Angled 4-port faceplate, single gang, smooth finish
2-2506-xx	6-port faceplate, single gang, smooth finish
2-2501M-xx	1-port faceplate, oversized, single gang, smooth finish
2-2502M-xx	2-port faceplate, oversized, single gang, smooth finish
2-2503M-xx	3-port faceplate, oversized, single gang, smooth finish
2-2504M-xx	4-port faceplate, oversized, single gang, smooth finish
2-2506M-xx	6-port faceplate, oversized, single gang, smooth finish
2-2506D-xx	6-port faceplate, double gang, smooth finish
2-2508AD-xx	Angled 8-port faceplate, double gang, smooth finish
2-2512D-xx	12-port faceplate, double-gang, smooth finish

REF# CS-029

REF# CS-030

REF# CS-031

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



## SpeedStar™ Blank, Smooth Faceplate - White (85)

107-85

REF# CS-032

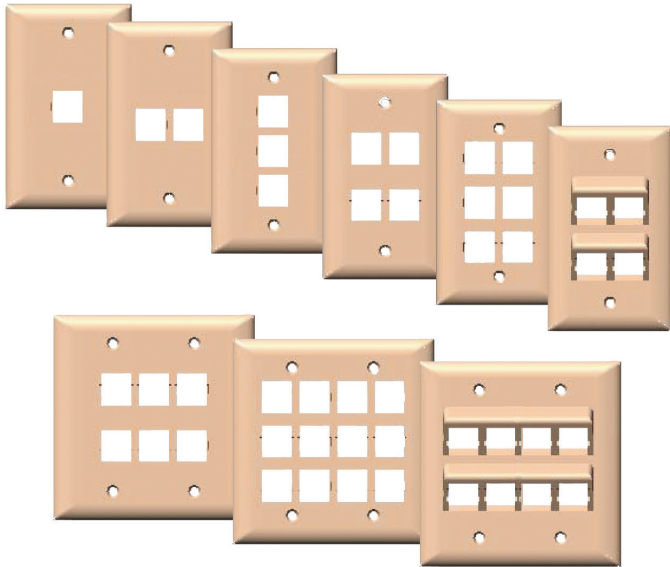


### Overview

Blank, single gang, smooth finish

#### Additional Information

Part #	107-85
Color	White (85)
Suttle Datasheet	<a href="#">technical_literature/Datasheets/Premise_Distribution/Passives/Jacks_Wall_Plates/Plates_Brackets_Boxes/107_108_Flush_Faceplate.pdf</a>
Plate Size	Standard
Box Width	Single Gang
Configuration	Blank
Finish	Smooth
Includes	mounting hardware



### Description

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

Housings can be screw mounted or mounted with a double-sided adhesive pad.

### Features

- Simple, snap-in assembly
- Compatible with all SpeedStar™ connectors
- Available in multiple sizes and port configurations

### Product Specifications

**Materials:** UL 94 V-O Thermoplastic

**Dimensions:**  
 Single Gang: 4.57"H x 2.81"W x 0.2"D  
 Oversized: 4.875"H x 3.125"W x 0.2"D  
 Double Gang: 4.57"H x 4.5"W x 0.2"D



### Product Information

**Suttle  
Part Number**

**Description**

2-2501-xx	1-port faceplate, single gang, smooth finish
2-2502-xx	2-port faceplate, single gang, smooth finish
2-2503-xx	3-port faceplate, single gang, smooth finish
2-2504-xx	4-port faceplate, single gang, smooth finish
2-2504A-xx	Angled 4-port faceplate, single gang, smooth finish
2-2506-xx	6-port faceplate, single gang, smooth finish
2-2501M-xx	1-port faceplate, oversized, single gang, smooth finish
2-2502M-xx	2-port faceplate, oversized, single gang, smooth finish
2-2503M-xx	3-port faceplate, oversized, single gang, smooth finish
2-2504M-xx	4-port faceplate, oversized, single gang, smooth finish
2-2506M-xx	6-port faceplate, oversized, single gang, smooth finish
2-2506D-xx	6-port faceplate, double gang, smooth finish
2-2508AD-xx	Angled 8-port faceplate, double gang, smooth finish
2-2512D-xx	12-port faceplate, double-gang, smooth finish

**REF# CS-033**

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

## SpeedStar™ Blank, Smooth Faceplate - White (85)

108-85

REF# CS-034



1 / 1



### Overview

Blank, duplex, smooth finish

[Additional Information](#)

Part # 108-85

Color White (85)

Suttle Datasheet [technical\\_literature/Datasheets/Premise\\_Distribution/Passives/Jacks\\_Wall\\_Plates/Plates\\_Brackets\\_Boxes/107\\_108\\_Flush\\_Faceplate.pdf](#)

Plate Size Standard

Box Width Double Gang

Configuration Blank - Duplex

Finish Smooth

Includes Mounting hardware

## SpeedStar™ Blank Connector Insert - White (85)

SpeedStar™ Blank Connector Insert - (85) White

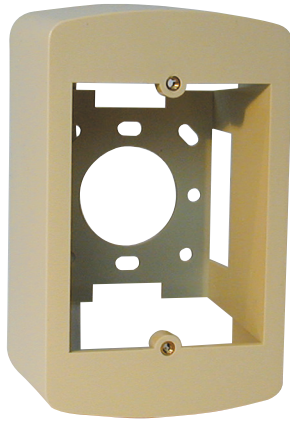


### Overview

Blank Connector insert

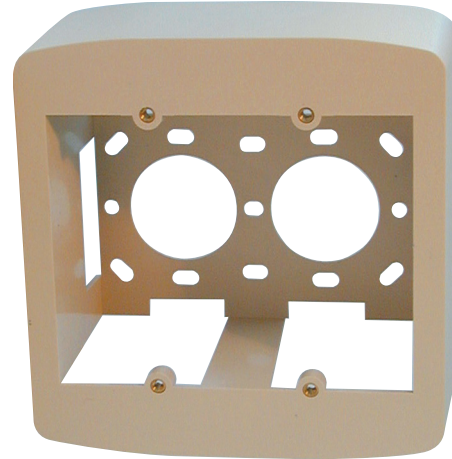
[Additional Information](#)

Part #	STAR500B-85	REF# CS-035
Color	White (85)	
for Use with	All SpeedStar™ Faceplates and Housings	



STARMBD

REF# CS-036



STARMBDD

REF# CS-037

**Features**

- Installer friendly
- Copper, coax and fiber applications
- Race way knockouts (4 sides)
- Faceplate mounting (threaded insert, 2 places)
- Can be mounted on a flat surface
- Cable may be dressed on all sides, or though the back
- Supports STAR500S, STAR5501, STAR500AF, STAR5501MM and 107 Faceplates (NOTE: the outside contour matches SpeedStar™ face plates. However, the box is oversized to fit most conventional rectangular single gang faceplates.)
- Complies with TIA/EIA 568-A Cable Bend Radius
- When mounting to a standard NEMA box, use Suttle part number 43A

**Description**

The STARMBD and STARMBDD surface mount box is countoured to match SpeedStar™ faceplates, but is oversized to accommodate most faceplates.

They have rear cable entry and mounting holes to fit most brackets and tear outs on top, bottom and sides for raceway entry.

Mounting over a standard outlet box requires a 43A bracket.

**Specifications**

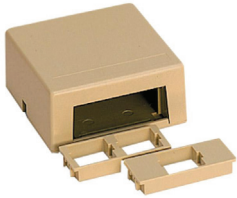
- Height:** 5.25 in. (133 mm)
- Width:** 3.34 in. (85 mm) - STARMBD  
5.34 in. (135 mm) - STARMBDD
- Depth:** 2.25 in. (57 mm)



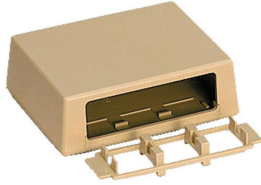
**Product Information**

Suttle Part Number	Description
STARMBD-xx	SpeedStar™ single gang oversized mounting box; includes (2) mounting screws and (1) adhesive pad
STARMBDD-xx	SpeedStar™ double gang oversized mounting box; includes (2) mounting screws and (1) adhesive pad

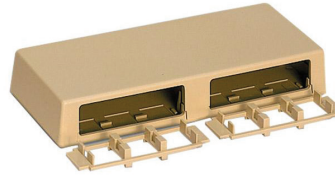
Colors (-xx): (-52) Electrical Ivory, (-64) Light Almond, (-85) White



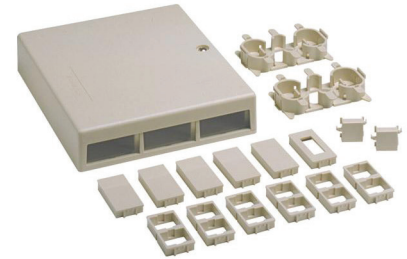
STAR558-xx



STAR107SM-xx



STAR108SM-xx



STARMMB-xx

### Features

- Simple, snap-in assembly
- Compatible with all SpeedStar™ connectors
- Available in multiple sizes and port configurations
- Flame retardant engineered thermoplastic

### Description

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

Housings can be screw mounted or mounted with a double-sided adhesive pad.

### Product Specifications

Dimensions:	STAR558-xx	STAR107SM-xx	STAR108SM-xx	STARMMB-xx
Height:	1.17 in	1.03 in	1.03 in	1.20 in
Length:	2.70 in	3.25 in	6.17 in	5.60 in
Width:	2.50 in	2.625 in	2.625 in	6.75 in



### Product Information

#### Suttle

#### Part Number

#### Description

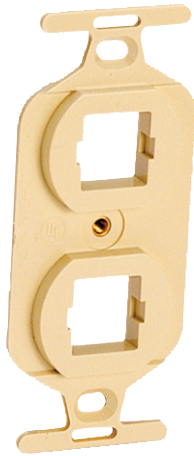
STAR558-xx 1- or 2-port surface mount housing REF# CS-038

STAR107SM-xx Up to 3-port surface mount housing

STAR108SM-xx Up to 6-port surface mount housing; *Not Available in (64) Light Almond* REF# CS-039

STARMMB-xx Up to 12-port surface mount housing; *Not Available in (64) Light Almond*

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



### Description

Suttle's Modular Mounting Frames fit standard floor and wall J-Box designs and utilize standard electrical faceplates.

Designed for use with Suttle's line of rear-loading snap-in multimedia modules and colored bezels.

### Features

- Available in light almond, electrical ivory, and white
- Designed for Suttle's line of snap-in multimedia modules and colored bezels
- Fits standard NEMA boxes and electrical faceplates
- High impact, UL 94V-0 rated thermoplastic
- Write on label designations for easy identification
- Available in 2 or 4-ports
- Modules snap-fit from the rear
- Inserts provide versatile module configuration options

### Product Specifications

**Mounting:** Zinc-plated mounting screws included  
**Housing:** UL 94V-0 rated



### Product Information

Suttle Part Number	Description
STAR1062-xx	2-port mounting frame <span style="float: right;">REF# CS-040</span>
STAR1064M-xx	4-port duplex insert style mounting frame (includes mounting plate inserts) <span style="float: right;">REF# CS-041</span>
860A-xx	Duplex electrical style faceplate <i>Colors (-xx): (-52) Electrical Ivory, (-85) White</i>

# Customer Premise Cross-Connect Wire Spec. 5006

## Product Construction

### Conductors:

- 22 and 24 AWG solid bare annealed copper

### Insulation:

- Flame-retardant semi-rigid PVC

### Pairing:

- Two twists per foot minimum
- For ease of identification, a variety of different color options are available

### Packaging

REF# CS-042

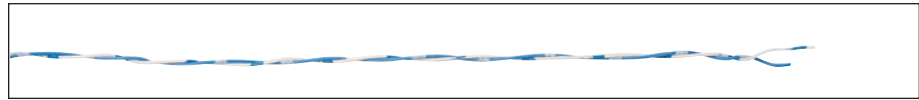
- 1000' spool (SP)
- Other lengths and put-ups are also available

### Applications

- Suitable for voice and data transmission up to 4 Mbps
- For cross-connecting between terminals of a distribution frame or other premise equipment

### Compliances

- NEC/CEC Type CM (UL 1685-2000)
- Category 2 compatible
- RoHS Compliant Directive 2002/95/EC



PRODUCT NUMBER	PAIRS	AWG	COLOR CODE				PKG./ CARTON	O.D. (INCHES)	WEIGHT (LBS/ KFT)
			PAIR 1	PAIR 2	PAIR 3	PAIR 4			
2114200	1	24	R/G-G/R				8	0.06	3
2114328	1	24	R/BK-BK/R				8	0.06	3
2114369	1	24	R/BL-BL/R				8	0.06	3
2114385	1	24	R/Y-Y/R				8	0.06	3
7023708	1	24	BL/W-W/BL				8	0.06	3
7041916	1	24	BL/Y-Y/BL				8	0.06	3
7023773	1	24	O/W-W/O				8	0.06	3
7023781	1	24	G/W-W/G				8	0.06	3
7036759	1	24	BK/W-W/BK				8	0.06	3
7023864	1	24	R/W-W/R				8	0.06	3
7023716	2	24	BL/W-W/BL	O/W-W/O			3	0.09	6
2114325	2	24	R/BL-BL/R	R/O-O/R			3	0.09	6
7023724	3	24	BL/W-W/BL	O/W-W/O	G/W-W/G		4	0.10	9
2114211	4	24	BL/W-W/BL	O/W-W/O	G/W-W/G	BR/W-W/BR	4	0.12	13
2114363	1	22	W/O-O/W				4	0.08	5
2114364	1	22	W/G-G/W				4	0.08	5
7041973	1	22	BL/W-W/BL				4	0.08	5
7042047	1	22	R/W-W/R				4	0.08	5
2114212	2	22	BL/W-W/BL	O/W-W/O			4	0.12	10

Data subject to change without notice.

### Electrical Characteristics

	22 AWG 1 PR.	24 AWG 1-4 PR.
DC Resistance (max) Ohms/1000 ft @ 20°C	18.0	28.6
Characteristic Impedance Ohms @ 1 MHz (nom)	100	100

# Customer Premise Cross-Connect Wire Type "F" • Spec. 5008

## Product Construction

### Conductors:

- 24 AWG solid bare annealed copper

### Insulation:

- Flame-retardant semi-rigid PVC

### Pairing:

- Four twists per foot minimum

### Packaging

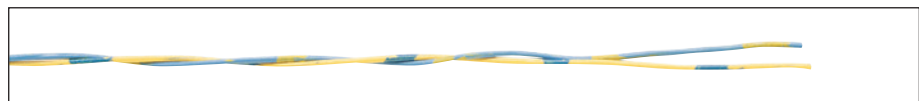
- Supplied on non-returnable spools as shown in table (SP)

### Applications

- Suitable for voice and data transmission up to 16 Mbps
- For cross-connecting between terminals of a distribution frame or other premise equipment

### Compliances

- NEC/CEC Type CM (UL 1685-2000)
- Category 3 compatible
- RoHS Compliant Directive 2002/95/EC
- Telcordia (Bellcore) GR-1253 (Bellcore Specification TA-TSY-000130)



PRODUCT NUMBER	PAIRS	COLOR CODE			PKG.	PKG./ CARTON	O.D. (INCHES)	WEIGHT (LBS/ KFT)
		PAIR 1	PAIR 2	PAIR 3				
2113055	1	O/W-W/O			1000' SP	8	0.07	3
2134023	1	G/W-W/G			1000' SP	8	0.07	3
2114327	1	BL/R-R/BL			1000' SP	8	0.07	3
2114375	1	R/W-W/R			1000' SP	8	0.07	3
2114374	1	BK/W-W/BK			1000' SP	8	0.07	3
7042500	1	BL/Y-Y/BL			1000' SP	8	0.07	3
7051543	1	BL/Y-BL			600' SP	8	0.07	3
2113054	1	BL/W-W/BL			1000' SP	8	0.07	3
2114355	1	R/W-W/R			600' SP	8	0.07	3
2114408	2	BL/W-W/BL	O/W-W/O		500' SP	8	0.09	7
7042518	2	BL/R-R/BL	O/R-R/O		1150' SP	4	0.09	7
2114307	2	BL/W-W/BL	O/W-W/O		1000' SP	4	0.09	7
7042526	3	BL/W-W/BL	O/W-W/O	G/W-W/G	600' SP	4	0.12	11

Data subject to change without notice.

### Electrical Characteristics

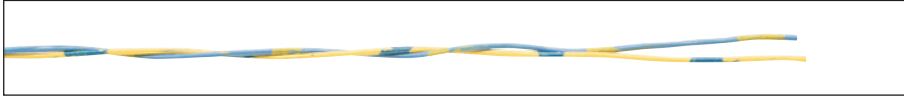
	24 AWG
DC Resistance (max) Ohms/1000 ft @ 20°C	28.6
Coaxial Capacitance (max) microfarads/kft @ 23°C	0.15
Insulation Resistance (min) Megohm - kft @ 23°C	300





# Customer Premise Cross-Connect Wire Tight Twist

Type "F" • Spec. 5008



PRODUCT NUMBER	PAIRS	COLOR CODE	PKG.	PKG./ CARTON	O.D. (INCHES)	WEIGHT (LBS/KFT)
		PAIR 1				
2113189	1	BL/V-V/BL	500' SP	8	0.67	3.25
2114410	1	BL/V-V/BL	300' SP	8	0.67	3.25

Data subject to change without notice.

## Electrical Characteristics

	24 AWG
<b>DC Resistance</b> (max) Ohms/1000 ft @ 20°C	28.6
<b>Coaxial Capacitance</b> (max) microfarads/kft @ 23°C	0.15
<b>Insulation Resistance</b> (min) Megohm - kft @ 23°C	300

## Product Construction

### Conductors:

- 24 AWG solid bare annealed copper

### Insulation:

- Flame-retardant semi-rigid PVC

### Pairing:

- Twelve twists per foot

## Packaging

- Supplied on non-returnable spools as shown in table (SP)

## Applications

- Suitable for voice and data transmission up to 16 Mbps
- For cross-connecting between terminals of a distribution frame or other premise equipment

## Compliances

- UL and c(UL) Type CM
- Telcordia (Bellcore) GR-1253 (Bellcore Specification TA-TSY-000130)
- Category 5 compatible

# Network Outdoor Cross-Connect Wire

Type "G" • Spec. 5010



PRODUCT NUMBER	COLOR CODE	PKG./ CARTON	WEIGHT (LBS/KFT)
	PAIR 1		
7042427	W/V	8	5
2114357	R/W	8	5

Data subject to change without notice.

## Electrical Characteristics

	22 AWG
<b>DC Resistance</b> (max) Ohms/1000 ft @ 20°C	17.8
<b>Coaxial Capacitance</b> (max) microfarads/kft @ 23°C	0.09
<b>Insulation Resistance</b> (min) Megohm - kft @ 23°C	2000

## Product Construction

### Conductors:

- 1 pair of 22 AWG solid bare annealed copper

### Insulation:

- Dual-insulated polypropylene with a flame-retardant semi-rigid PVC skin

### Pairing:

- Five twists per foot minimum

## Packaging

- 400' spool (SP)
- 8 per carton

## Applications

- Suitable for voice and data transmission up to 16 Mbps
- For cross-connecting between feeder and distribution circuits within the confines of outdoor distribution cabinets

## Compliances

- Category 3 compatible
- RoHS Compliant Directive 2002/95/EC
- Telcordia (Bellcore) GR-126-CORE (Bellcore Specification TA-NWT-000126)



## **BACKBOARDS**

**CS-050 Plywood Backboard, 4' X 4', ea.** REF# CS-043

Includes materials and labor to mount a ¾" deep, wolmanized, construction standard type plywood backboard. Backboard will be painted on both sides prior to placement with white fire retardant paint.

# STANDARD RACK



## KEY FEATURES

- Supports 19" EIA rack-mount equipment designed for two-post panel mounting, like patch panels and network switches.
- Easy positioning of equipment with marked and numbered rack-mount spaces.
- Quick attachment of equipment with threaded equipment mounting holes and included equipment-mounting screws.
- Delivers unassembled in a single carton — quick and easy bolt-together assembly takes less than 10 minutes.
- Lightweight aluminum construction for easy transport and positioning during installation.
- Integrated grounding with a built-in attachment point for a ground (earthing) connection.
- Quickly attach any CPI vertical cable manager to the side of the rack through pre-punched web channel holes.
- Floor-mount holes on the base angles make it easy to secure the rack to the floor with a concrete, wood or raised floor installation kit.

## APPLICATIONS

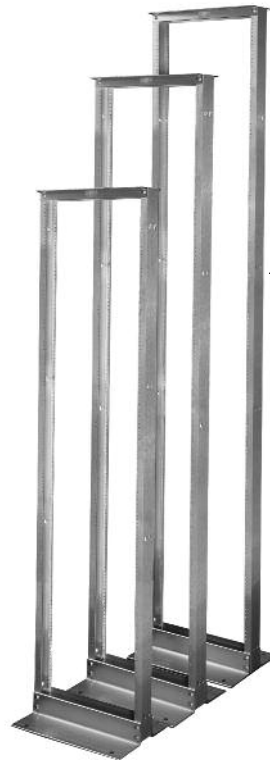
- Use Standard Rack with vertical and horizontal cable managers to support interconnect and network equipment in telecommunications rooms, equipment rooms and data centers.
- Use with shelves to support other equipment.

## USE WITH

- Velocity® Cable Management
- Rack and Frame Installation Kit
- Raised Floor Rack Support For 3" (80 mm) Channel

## RELATED ACCESSORIES

- 3" (80 mm) Channel Rack-To-Runway Mounting Plate
- Vertical PDUs for Racks
- Rack Shelves



### Easy Equipment Installation

Marked and numbered rack-mount spaces (U)



### Prepared Grounding Location

Built-in attachment point for a ground (earthing) connection

The Standard Rack is a high quality, cost-effective storage solution for patch panels and network switches that use less floor space than a cabinet or a four-post rack. The small 20.3"W x 15"D (516.1 mm x 381 mm) footprint makes Standard Rack the best choice in many telecommunications and equipment rooms, especially where floor space is limited.

The Standard Rack meets project specifications, will hold 1,000 lb (453.1 kg) of equipment, has integrated grounding and is UL Listed as a communications circuit accessory. Support 19" EIA wide rack-mount equipment or shelves with the Standard Rack, which is available in three heights. Equipment attaches to the front or rear of the 3" deep (80 mm) vertical mounting channels with screws. Mounting positions are marked and numbered, making it easy to position and install equipment or shelves.

Racks deliver unassembled in a compact carton and are easy to assemble. Components bolt together with included hardware; assembly takes approximately 10 minutes. Two-post racks must be secured to building structure. The Standard Rack has pre-punched base angles, making it easy to attach the rack to the floor using a CPI installation kit for wood, slab or raised floors.

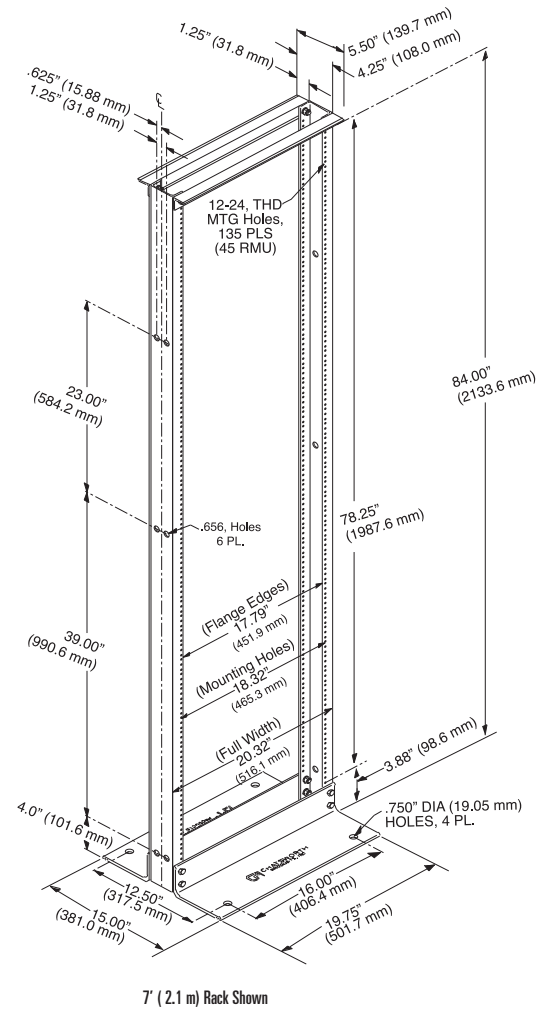
Because most Standard Rack applications require cable management, CPI's vertical cable managers attach directly to the side of the Standard Rack. Vertical cable managers organize cables by rack-mount space simplifying future moves, adds and changes to the network. The best solution includes horizontal managers in-between patch panels and network switches to fan patch cords into individual port connections.

See reverse for product selection. Contact CPI Technical Support for configuration assistance.

SPECIFICATIONS

- Open floor-mount two-post rack supports 19" EIA wide rack-mount equipment.
- For indoor use only, in environmentally controlled areas; may not be used outdoors, in industrial or harsh environments or in plenum spaces.
- Available sizes:  
 Heights: 84" (2.1 m), 96" (2.4 m), 108", (2.7 m)  
 Width: 20.3" (516.1 mm)  
 Depth: 15" (381 mm)
- Equipment space:  
 Heights: 45U, 51U, 58U  
 Width: 19" EIA (17-3/4" clearance)  
 Depth: 20"D (508 mm)  
*Note: Double-sided shelves for 26"D (660.4 mm) equipment are available. Use QuadraRack™ 4-Post Frame when rack-mount equipment exceeds 20"D (508 mm).*
- Equipment Support:
  - 1 pair C-shaped equipment mounting channels fixed in place
  - 19"W, EIA-310-D compliant
  - Universal hole pattern, 5/8"-5/8"-1/2" (15.9 mm x 15.9 mm x 12.7 mm) vertical hole spacing
  - Threaded #12-24 equipment mounting holes; includes 50 each #12-24 equipment mounting screws
- Cable Management:  
 Use vertical and horizontal cable managers, sold as accessories
- Load capacity:  
 1,000 lb (453.6 kg) of equipment
- Grounding/Bonding:
  - Top angles, base angles and side channels are electrically bonded by assembly hardware
  - A masked mounting location for a ground lug with two 1/4-20 threaded studs spaced 5/8" apart is provided inside the side channel, near the top and bottom of the rack
  - Use Grounding Jumper (PN 40159-008) as a rack bonding conductor
- Certifications:
  - EIA-310-D compliant
  - UL and cUL Listed as a communications circuit accessory
- Material:  
 Aluminum extrusion
- Construction:
  - Bolted assembly
  - Ships unassembled
- Finish:
  - Clear grained aluminum or Epoxy-polyester hybrid powder coat paint
  - Available in black, gray, computer beige or glacier white

DIMENSIONS



**REF# CS-044**

ORDERING INFORMATION

Part Number	Description	Shipping Weight
55053-X03	7'H (2.1 m) x 19"W, 45U	31 lb (14.1 kg)
55053-X15	8'H (2.4 m) x 19"W, 52U	37 lb (16.8 kg)
55053-X08	9'H (2.7 m) x 19"W, 58U	40 lb (18.1 kg)

X=Color: 1=Gray, 2=Computer Beige, 5=Clear, 7=Black, E=Glacier White



CHATSWORTH PRODUCTS

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## 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.*

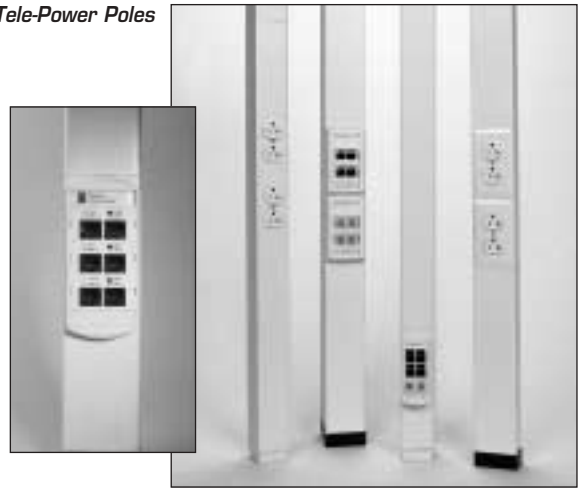
### Features & Benefits

- **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.

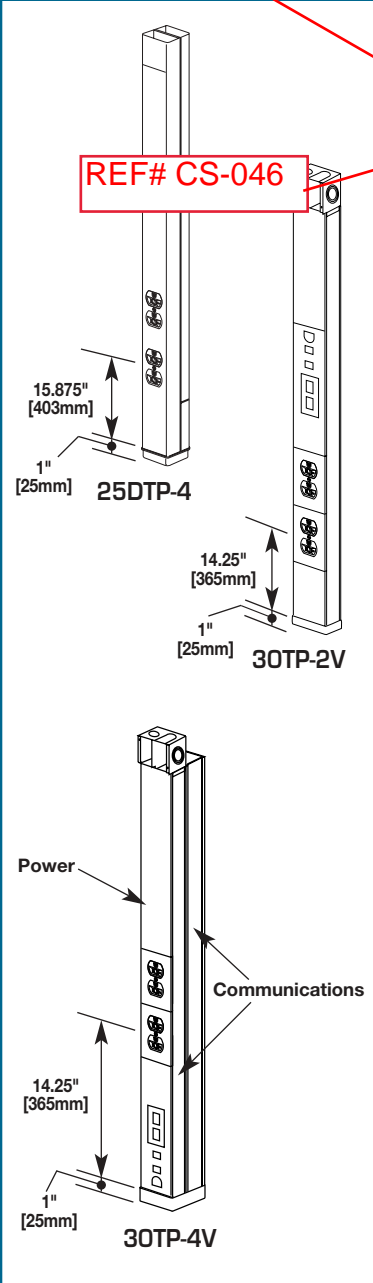
Steel Tele-Power Poles



25DTP-4ACT pole with additional inserts.

REF# CS-045

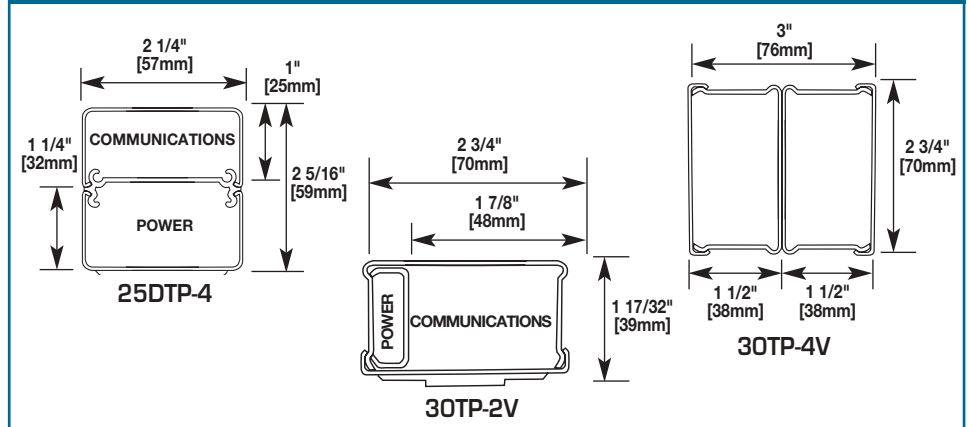
## Receptacle Heights



## Ordering Guide

CATALOG NO.	OUTLETS	HEIGHT	FINISH	CAPACITY			
				THHN/THWN #10	#12	4-PR	UTP 25-PR
25DTP-4	Two Duplex Receptacles (20A, 125V)	10' 5" [3.175m]	Ivory	10	15	15	6
25DTP-412		12' 5" [3.780m]					
25DTP-415		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]	Ivory	10	15	15	6
25DTP-4D	Two Duplex Receptacles (20A, 125V) One Dedicated/ Isolated and One Standard Branch Circuit	10' 5" [3.175m]	Ivory	10	15	15	6
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



### 3.3.3 X-CC Ceiling Clip and Hanger Assemblies

3.3.3.1 Product Description

3.3.3.2 Material Specifications

3.3.3.3 Technical Data

3.3.3.4 Ordering Information



#### 3.3.3.1 Product Description

Ceiling clip assemblies are an economical and recognized method of suspending acoustical ceiling grids and panels from concrete and steel. These pre-assembled ceiling clips consist of a sheet steel clip with a pre-mounted powder-actuated fastener and are typically pre-tied with a single

12 gauge wire of varying lengths depending on ceiling height requirements. When the fastening is made, the clip, fastener and wire are installed in one step. Further productivity can be achieved through the use of a Hilti powder-actuated pole tool.

#### 3.3.3.2 Material Specifications

Item	Material	Steel Diameter/Thickness	Plating
X-C Fastener	Carbon Steel	0.138"	5 µm Zinc <sup>1</sup>
X-U Fastener	Carbon Steel	0.157"	5 µm Zinc <sup>1</sup>
CC27 Clip	Carbon Steel	13 GA	5 µm Zinc <sup>1</sup>
Wire <sup>2</sup>	Carbon Steel	12, 9 or 8 GA	5 µm Zinc <sup>1</sup>

1 ASTM B633, SC 1, Type III. Reference Section 2.3.3.1 for more information.

2 Pre-mounted ASTM A641/A641M Class 1 wires come attached with a minimum of three tight turns in 1-1/2" length.

#### Listings/Approvals

ICC-ES (International Code Council)  
ESR-2184

COLA (City of Los Angeles)  
RR 25651



#### 3.3.3.3 Technical Data

##### Allowable Loads for Hilti Ceiling Clip Assemblies Installed in Normal Weight Concrete<sup>1,2,3,4</sup>

Ceiling Clip	Concrete Compressive Strength					
	4000 psi (27.6 MPa)			6000 psi (41.4 MPa)		
	Tension lb (kN)	Shear lb (kN)	45 Degree lb (kN)	Tension lb (kN)	Shear lb (kN)	45 Degree lb (kN)
X-CC27 C27	160 (0.71)	205 (0.91)	210 (0.93)	-	-	-
X-CC27 C32	220 (0.98)	270 (1.20)	260 (1.16)	-	-	-
X-CC27 U22	-	-	-	80 (0.36)	175 (0.78)	90 (0.40)
X-CC27 U27	160 (0.71)	205 (0.91)	210 (0.93)	125 (0.56)	205 (0.91)	150 (0.67)

1 The tabulated allowable load values apply to the powder-actuated ceiling clip assemblies only, using a safety factor that is greater than or equal to 5.0, calculated in accordance with ICC-ES AC70. Connected components, including wires\*, must be investigated separately.

2 Allowable values are for fasteners installed in concrete having the designated compressive strength at the time of installation.

3 Concrete thickness at the point of penetration must be a minimum of the fastener embedment depth plus 1-1/2".

4 Multiple fasteners are recommended for any attachment.

\* Note: For Hilti supplied wire, the recommended allowable load capacities of 12, 9 and 8 gauge wire are 210, 400 and 500 lb, respectively.



## X-CC Ceiling Clip and Hanger Assemblies 3.3.3

### Allowable Loads for Hilti Ceiling Clip Assemblies Installed in Lightweight Concrete Over Metal Deck<sup>1,2,3,4</sup>

Ceiling Clip Assembly	$f'_c = 3000$ psi Concrete Compressive Strength											
	Lower Flute					Upper Flute						
	Tension		Shear		45 Degree	Tension		Shear		45 Degree		
	lb	(kN)	lb	(kN)	lb	(kN)	lb	(kN)	lb	(kN)		
X-CC27 C27	50	(0.22)	275	(1.22)	120	(0.53)	105	(0.47)	285	(1.27)	240	(1.07)
X-CC27 C32	65	(0.29)	325	(1.45)	130	(0.58)	130	(0.58)	325	(1.45)	265	(1.18)
X-CC27 U27	150	(0.69)	275	(1.22)	160	(0.71)	170	(0.76)	285	(1.27)	240	(1.07)

- The tabulated allowable load values apply to the powder-actuated ceiling clip assemblies only, using a safety factor that is greater than or equal to 5.0, calculated in accordance with ICC-ES AC70. Connected components, including wires\*, must be investigated separately.
  - Allowable values are for fasteners installed in concrete having the designated compressive strength at the time of installation.
  - Testing completed in 3" deep composite floor deck having a minimum steel deck thickness of 20 gauge (0.0358") and a minimum yield strength  $F_y = 38$  ksi. Lower and upper flute width must be a minimum of 3-7/8". Figure 3 in Section 3.3.1.3 shows nominal flute dimensions, fastener locations and load orientations for the steel deck profile. Concrete thickness at the point of penetration must be a minimum of the fastener embedment plus 1-1/2".
  - Multiple fasteners are recommended for any attachment.
- \* Note: For Hilti supplied wire, the recommended allowable load capacities of 12, 9 and 8 gauge wire are 210, 400 and 500 lb, respectively.

### Allowable Loads for Hilti Ceiling Clip Assemblies in Minimum ASTM A36 ( $F_y \geq 36$ ksi, $F_u \geq 58$ ksi)<sup>1,2</sup>

Ceiling Clip Assembly	Steel Thickness (in.)					
	1/4		3/8		1/2	
	Tension lb	Shear lb	Tension lb	Shear lb	Tension lb	Shear lb
X-CC27 U19 X-CC27 U22	375 (1.62)	410 (1.82)	375 (1.62)	410 (1.82)	375 (1.62)	410 (1.82)

- The tabulated allowable load values apply to the powder-actuated ceiling clip assemblies only, using a safety factor that is greater than or equal to 5.0, calculated in accordance with ICC-ES AC70. Connected components, including wires\*, must be investigated separately.
  - Multiple fasteners are recommended for any attachment.
- \* Note: For Hilti supplied wire, the recommended allowable load capacities of 12, 9 and 8 gauge wire are 210, 400 and 500 lb, respectively.

### 3.3.3.4 Ordering Information

Fastener Description <sup>1</sup>	Fastener Length in. (mm)	Shank Ø in. (mm)	Washer Ø	Packaging Qty <sup>1</sup>
X-CC27 C27P8T	1 (27)	0.138 (3.5)	8 mm metal tophat	100 or 1000 pcs
X-CC27 C32P8T	1-1/4 (32)	0.138 (3.5)	8 mm metal tophat	100 or 1000 pcs
X-CC27 U22P8T	7/8 (22)	0.157 (4.0)	8 mm metal tophat	100 or 1000 pcs
X-CC27 U27P8T	1 (27)	0.157 (4.0)	8 mm metal tophat	100 or 1000 pcs

1 Ceiling clip and fastener combinations can be assembled with pre-tied wire lengths of 4', 6', 8', 10' and 12'.

REF# CS-047

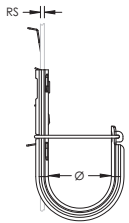




# CADDY CAT HP J-Hook with Multi-Function Clip



- Quick attachment to threaded rod or wire
- Fully adjustable and easy to relocate to accommodate changes once installed
- Provides optimal support for high-performance data cable, up to and including Cat 5e, Cat 6, Cat 6A, Cat 7 and fibre optic
- Provides superior fill capacity and load rating over most other non-continuous cable support alternatives
- Rounded edges on J-Hooks provide proper bend radius support for high performance data cables
- Cost effective alternative to expensive cable tray
- Complies with EN 50174-2
- Meets ISO®/IEC 14763-2, ANSI®/TIA 568 and ANSI®/TIA 569



**REF# CS-048**

Material: Steel, Spring Steel  
Finish: Pregalvanized, CADDY ARMOUR



Part Number	Diameter Ø	Area	Cable Capacity, Cat 5e	Cable Capacity, Cat 6	Cable Capacity, Cat 6A	Rod Size RS	Wire Size	Static Load F
CAT16HP4Z34	1"	1.07 in <sup>2</sup>	20	15	10	1/4"	#12 - #8	30 lb
CAT16HP6Z34	1"	1.07 in <sup>2</sup>	20	15	10	3/8"	-	30 lb
CAT21HP4Z34	1 5/16"	2.29 in <sup>2</sup>	50	40	25	1/4"	#12 - #8	30 lb
CAT21HP6Z34	1 5/16"	2.29 in <sup>2</sup>	50	40	25	3/8"	-	30 lb
CAT32HP4Z34	2"	3.97 in <sup>2</sup>	90	60	35	1/4"	#12 - #8	30 lb
CAT32HP6Z34	2"	3.97 in <sup>2</sup>	90	60	35	3/8"	-	30 lb
CAT48HP4Z34	3"	9.26 in <sup>2</sup>	200	150	80	1/4"	#12 - #8	30 lb
CAT48HP6Z34	3"	9.26 in <sup>2</sup>	200	150	80	3/8"	-	30 lb
CAT64HP4Z34	4"	15.48 in <sup>2</sup>	330	220	140	1/4"	#12 - #8	30 lb
CAT64HP6Z34	4"	15.48 in <sup>2</sup>	330	220	140	3/8"	-	30 lb

Non-continuous supports may not exceed spacing of 5' (1.5 m) per TIA 569-C.9.7 and EN 50174-2.  
Cable capacity is calculated based on a 70% fill rate.



Area (sq. in.)	Capacity (4-pair)		Part Number	Area (sq. mm)	Capacity (4-pair)	
	Cat. 5e	Cat. 6			ScTP/FTP	STP

0.60

16

10



CAT12

390

7

5

2.16

50

32



CAT21

1.395

25

17

3.17

80

50



REF# CS-049

CAT32

2.040

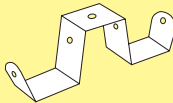
40

25

2 x 1.58

80

50



CAT100CM

2 x 1.020

40

25

15.28

300

185



REF# CS-050

CAT64

9.860

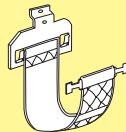
180

120

20.43

425

265



CAT425

13.180

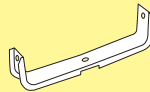
240

165

21.00

500

315



CAT200CMLN

13.550

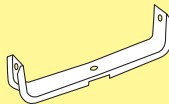
250

170

32.00

750

470



CAT300CMLN

20.645

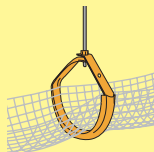
375

250

32.00

750

470



CATTRAX

20.645

375

250

3.14

75

47



CAT600

2.025

38

25



# CAT-BC200 J-Hook with Beam Clamp – CAT21BC200 (181410)



- Beam clamp with attached CADDY® CABLECAT J-hook
- Supports low voltage cables

REF# CS-051



<b>Part Number</b>	<b>CAT21BC200</b>
Article Number	181410
Material	Steel
Finish	Pre-galvanized
Diameter	1 5/16" 33 mm
Flange Thickness	1/8" – 1/2" 3 – 12 mm
Standard Packaging Quantity	40 pc
UPC	78285630234
UNSPSC	39131709
EAN-13	8711893118902
ETIM	EC000754
Approvals	cULus

cULus is a registered certification mark of UL LLC.

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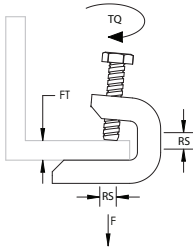
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# BC200/BC400 Beam Clamp



- Threaded hole on back and bottom



Material: Steel  
 Finish: Electrogalvanized



Part Number	Rod Size RS	Flange Thickness FT	Torque TQ	Static Load F
BC200	1/4"	1/2" Max	20 in lb	123 lb
BC400	3/8"	3/4" Max	20 in lb	200 lb

Setscrew must be tightened and torqued onto the sloped side of the L-beam.

**REF# CS-052**

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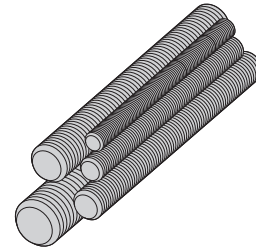
# Hardware

## ATR

### All Threaded Rod

- Available in 36" (91.4 cm), 72" (182.9 cm), 120" (304.8 cm), 144" (365.7 cm) lengths
- Safety Factor of 5 on recommended load
- Standard finish: Zinc-Plated, Stainless Steel Type 304

Part No. & Size	Threads Per Inch	Recommended Load		Wt./C Ft. (3048.0 cm)	
		Lbs.	kN	Lbs.	kg
ATR 1/4"	20	240	(1.07)	12	(5.44)
ATR 5/16"	18	400	(1.78)	19	(8.62)
ATR 3/8"	16	730	(3.24)	29	(13.15)
ATR 1/2"	13	1350	(6.00)	53	(24.04)
ATR 5/8"	11	2160	(9.60)	89	(40.37)
ATR 3/4"	10	3230	(14.37)	123	(55.79)
ATR 7/8"	9	4480	(19.93)	170	(77.11)
ATR 1"	8	5900	(26.24)	225	(102.06)

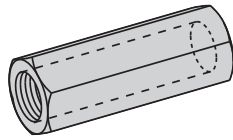


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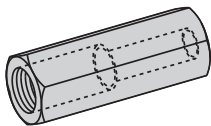
### B655 Rod Coupling

### B656 Reducer Rod Coupling

- Load rating for each coupler meets All Threaded Rod value
- Standard finish: Zinc-Plated, Stainless Steel Type 304



Part No.	Size	Recommended Load		Length		Wt./C	
		Lbs.	kN	In.	mm	Lbs.	kg
B655-1/4	1/4"-20	240	(1.07)	7/8"	(22.2)	1.9	(.86)
B655-5/16	5/16"-18	380	(1.69)	7/8"	(22.2)	1.8	(.81)
B655-3/8	3/8"-16	730	(3.24)	1 1/8"	(28.6)	3.6	(1.63)
B655-1/2	1/2"-13	1350	(6.00)	1 3/4"	(44.4)	11.3	(5.12)
B655-5/8	5/8"-11	1810	(8.05)	2 1/8"	(54.0)	17.6	(7.98)
B655-3/4	3/4"-10	2710	(12.05)	2 1/4"	(57.1)	28.1	(12.74)
B655-7/8	7/8"-9	3770	(16.77)	2 1/2"	(63.5)	57.2	(25.94)
B655-1	1"-8	4960	(22.06)	2 3/4"	(69.8)	73.7	(33.43)



Part No.	Size	Recommended Load		Length		Wt./C	
		Lbs.	kN	In.	mm	Lbs.	kg
B656-3/8 x 1/4	3/8"-16 & 1/4"-20	240	(1.07)	1"	(25.4)	3.7	(1.68)
B656-1/2 x 3/8	1/2"-13 & 3/8"-16	730	(3.24)	1 1/4"	(31.7)	6.6	(2.99)
B656-5/8 x 1/2	5/8"-11 & 1/2"-13	1350	(6.00)	1 1/4"	(31.7)	11.6	(5.26)
B656-3/4 x 5/8	3/4"-10 & 5/8"-11	1810	(8.05)	1 1/2"	(38.1)	20.6	(9.34)
B656-7/8 x 3/4	7/8"-9 & 3/4"-10	2710	(12.05)	1 3/4"	(44.4)	39.4	(17.87)

## BHR Series

### Hot Rods for Trapeze Hangers

- 12" length of threaded rod completely assembled with rod coupling, locking hex nuts, square washer, and channel nut.
- Standard finish: Zinc-Plated

Part No.	Rod Size	Recommended Load		Wt./C	
		Lbs.	kN	Lbs.	kg
BHR1225ZN	1/4"-20	240	(1.07)	41	(18.6)
BHR1238ZN	3/8"-16	730	(3.24)	63	(28.6)
BHR1250ZN	1/2"-13	1350	(6.00)	98	(44.4)
BHR1262ZN	5/8"-11	1500	(6.67)	148	(67.1)

Note: Based on use with 12 ga. channel.

(BHR1225, BHR1238, and BHR1250 use combo nut washers instead of square washers and channel nuts)



## Panels & Panel Accessories Type 1 Medium Enclosure & NEMA Flat Panels Illustration Sheet and Catalog Number

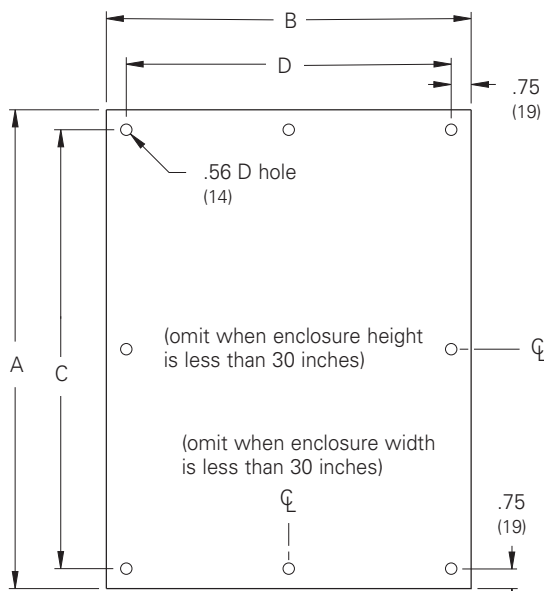
Discount Schedule: C2  
Subclass: DSO

Type 1 Medium Enclosure Flat Panel Catalog Number	A		B		C		D		Gauge	Fits Enclosure Height x Width	
	in.	mm	in.	mm	in.	mm	in.	mm		in.	mm
	AW1612-1P	13.00	330	10.50	267	11.50	292	9.00		228	14
AW1616-1P	13.00	330	14.50	368	11.50	292	13.00	330	14	16.00x16.00	406X406
AW1620-1P	13.00	330	18.50	470	11.50	292	17.00	432	14	16.00x20.00	406X508
AW2016-1P	17.00	432	14.50	368	15.50	394	13.00	330	14	20.00x16.00	508X406
AW2020-1P	17.00	432	18.50	470	15.50	394	17.00	432	14	20.00x20.00	508X508
AW2024-1P	17.00	432	22.50	572	15.50	394	21.00	533	14	20.00x24.00	508X610
AW2416-1P	21.00	533	14.50	368	19.50	495	13.00	330	14	24.00x16.00	610X406
AW2420-1P	21.00	533	18.50	470	19.50	495	17.00	432	14	24.00x20.00	610X508
AW2424-1P	21.00	533	22.50	572	19.50	495	21.00	533	14	24.00x24.00	610X610
AW3020-1P	26.00	660	18.50	470	24.50	622	17.00	432	14	30.00x20.00	762X508
AW3024-1P	26.00	660	22.50	572	24.50	622	21.00	533	14	30.00x24.00	762X610
AW3030-1P	26.00	660	28.50	724	24.50	622	27.00	686	14	30.00x30.00	762X762
AW3624-1P	32.00	813	22.50	572	30.50	775	21.00	533	14	36.00x24.00	914X610
AW3630-1P	32.00	813	28.50	724	30.50	775	27.00	686	14	36.00x30.00	914X762
AW4224-1P	38.00	965	22.50	572	36.50	927	21.00	533	14	42.00x24.00	1067X610

REF# CS-054

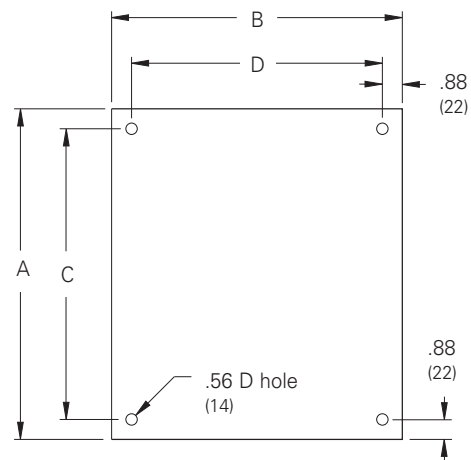
NEMA Flat Panel Catalog Number				A		B		C		D		Gauge	Fits Enclosure Height x Width	
Painted Steel	Galvanized		Aluminum	in.	mm	in.	mm	in.	mm	in.	mm		in.	mm
	Steel	Stainless												
AW1612P	AW1612GP	AW1612SP	AW1612AP	13.00	330	9.00	229	11.25	286	7.25	184	12	16.00x12.00	406x305
AW1616P	AW1616GP	AW1616SP	AW1616AP	13.00	330	13.00	330	11.25	286	11.25	286	12	16.00x16.00	406x406
AW2012P	-	-	-	17.00	432	9.00	229	15.25	387	7.25	184	12	20.00x12.00	508x305
AW2016P	AW2016GP	AW2016SP	AW2016AP	17.00	432	13.00	330	15.25	387	11.25	286	12	20.00*x16.00*	508x406
AW2020P	AW2020GP	AW2020SP	AW2020AP	17.00	432	17.00	432	15.25	387	15.25	387	12	20.00x20.00	508x508
AW2412P	-	AW2412SP	-	21.00	533	9.00	229	19.25	489	7.25	184	12	24.00*x12.00*	610x305
AW2416P	AW2416GP	AW2416SP	AW2416AP	21.00	533	13.00	330	19.25	489	11.25	286	12	24.00x16.00	610x406

\* Panel also fits these enclosures when height and width dimensions are reversed.



Type 1 medium enclosure panels can be installed in Type 1 medium panel enclosures. Panels are only available in steel and have a white powder paint finish.

### Type 1 Medium Enclosure Panels



NEMA flat panels can be installed in Type 4X, Type 4 and Type 12 NEMA Enclosures. Panels are available in steel, galvanized steel, stainless steel, and aluminum. Painted steel panels have a white powder paint finish. Stainless steel and aluminum panels have a smooth brushed finish on one side and protected with PVC film.

### NEMA Flat Panels

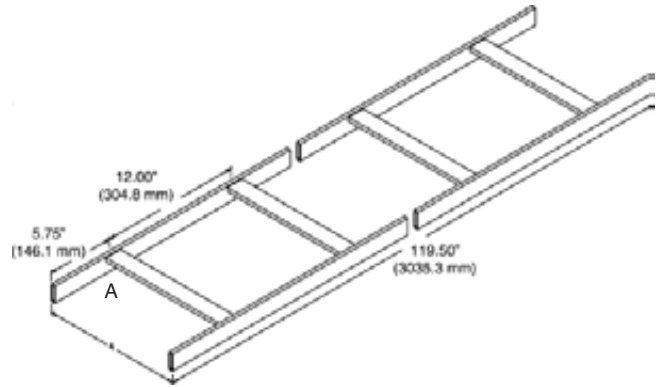
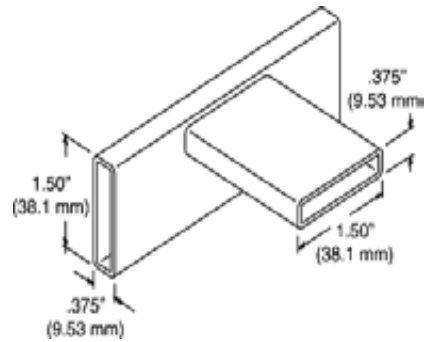
**Notes:** Dimensions are in inches. Millimeters shown are for reference only. Data subject to change without notice.

# Product Cut Sheet

## UNIVERSAL CABLE RUNWAY

Our most popular cable runway is designed for value conscious customers. The Universal Cable Runway offers the industry standard features you've come to expect. With the runway supported every 5' (1.5 m), maximum load with minimal deflection is 132 lb/ft (59.9 kg).

- Made of 3/8" x 1-1/2" x .065" (9.53 mm x 38 mm x 1.65 mm) wall rectangular steel tubing
- Cross members welded at 12" (300 mm) intervals
- Individually boxed to prevent scratches and damage
- Standard length is 9'-11 1/2"/119.5" (3035 mm)
- Underwriters Laboratory Classified for suitability as an equipment grounding conductor only (must remove paint or use ground straps)
- Installation Best Practices includes Runway Elevation Kit



REF# CS-055

Part Number	Width (Dim. A) in (mm)	Shipping Weight lb (kg)
10250-X04	4 (100)	18 (8.2)
10250-X06	6 (150)	19 (8.6)
10250-X09	9 (230)	20 (9.1)
10250-X12	12 (300)	25 (11.3)
10250-X15	15 (380)	27 (12.2)
10250-X18	18 (460)	29 (13.2)
10250-X24	24 (610)	32 (14.5)
10250-X31	30 (760)	35 (15.7)
10250-X37	36 (910)	38 (17.2)

X=Color; 1=Gray, 2=Computer Beige, 7=Black, E=Glacier White.

800-834-4969 in U.S. & Canada • [www.chatsworth.com](http://www.chatsworth.com)



CHATSWORTH PRODUCTS

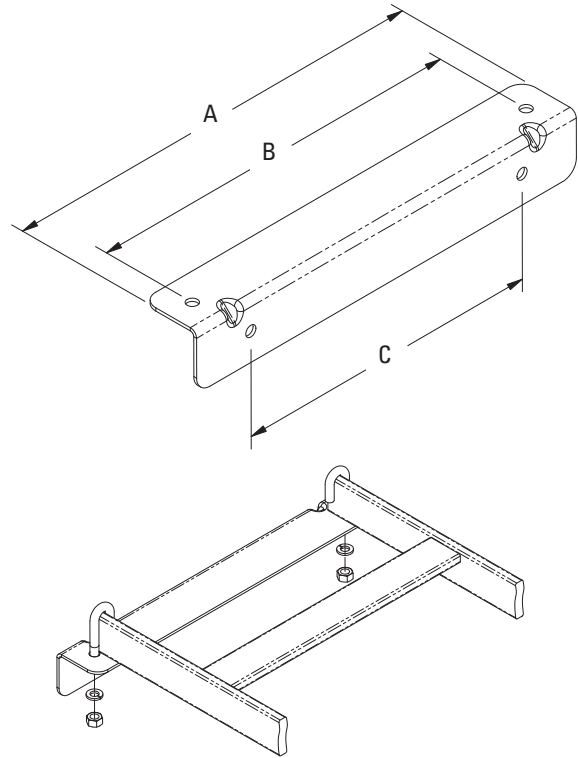
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# Product Information Sheet

## WALL ANGLE SUPPORT KIT

2" x 2" x .105" (50 mm x 50 mm x 2.67 mm) steel support angle is designed for wall mounting specific widths of Cable Runway.

- Kit consists of:
  - 1 each wall angle
  - 2 each 5/16-18 x 2 1/4" J-bolts
  - 2 each 5/16-18 hex nuts
  - 2 each 5/16 lock washers



<b>11421</b>	<b>Wall Angle Support Kit</b>
--------------	-------------------------------

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 mm)
09	9" (230 mm)	11" (280 mm)	9.31" (236.5 mm)	7" (180 mm)
10	10" (250 mm)	12" (300 mm)	10.31" (261.9 mm)	8" (200 mm)
12	12" (300 mm)	14" (360 mm)	12.31" (312.7 mm)	10" (250 mm)
15	15" (380 mm)	17" (430 mm)	15.31" (388.9 mm)	13" (330 mm)
18	18" (460 mm)	20" (510 mm)	18.31" (465.1 mm)	16" (410 mm)
20	20" (510 mm)	22" (560 mm)	20.31" (515.9 mm)	18" (457 mm)
24	24" (610 mm)	26" (660 mm)	24.31" (617.5 mm)	22" (558 mm)
30	30" (760 mm)	32" (810 mm)	30.31" (769.9 mm)	28" (710 mm)

REF# CS-056

11421 - X XX

*Note: Gray and black kits include black J-Bolts and hardware. White and gold kits include gold J-Bolts and hardware.*

800-834-4969 in U.S. & Canada • [www.chatsworth.com](http://www.chatsworth.com)



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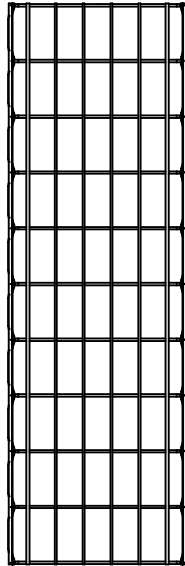


# CF 54 CABLOFIL CABLE TRAY

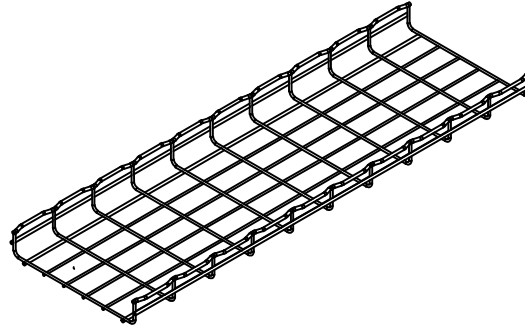
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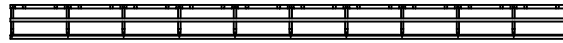
TOP



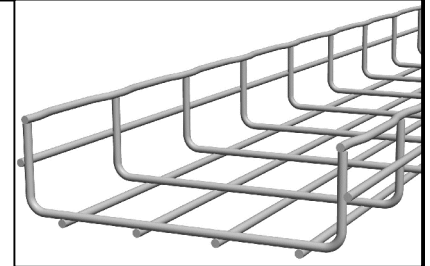
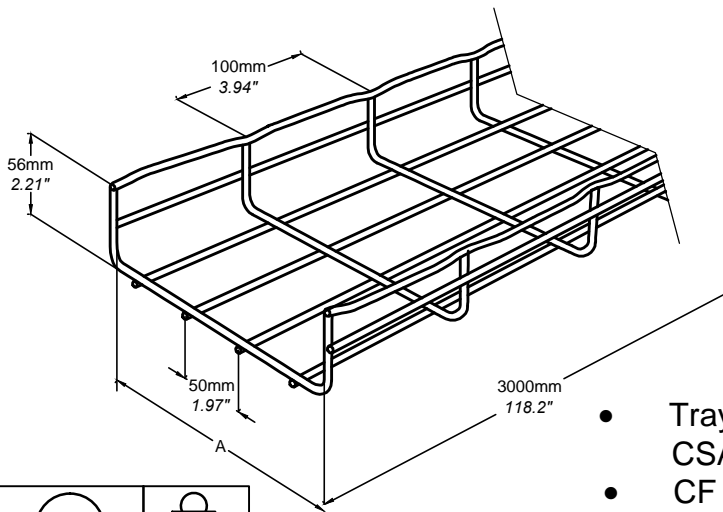
ISOMETRIC



FRONT



SIDE



- Tray designed per NEMA VE-1, CSA C22.2 No. 126
- CF has top wave wire (shown)
- ZF has straight top wire

in	mm
lb	

**REF# CS-057**

\* Top Wire Is Straight Type

ZF* & CF54 50	1.967	50	5.3
ZF* & CF54 100	3.937	100	6.5
ZF* & CF54 150	5.904	150	7.8
ZF* & CF54 200	7.872	200	9.0
ZF* & CF54 300	11.81	300	13.4
ZF* & CF54 400	15.75	400	22.8
ZF* & CF54 450	17.71	450	25
ZF* & CF54 500	19.68	500	24.4
ZF* & CF54 550	21.65	550	25.9
ZF* & CF54 600	23.62	600	27.5
ZF54 750*	29.53	750	32.6
ZF54 900*	35.43	900	37.7



BL	PE	316L
EZ	GC	304L

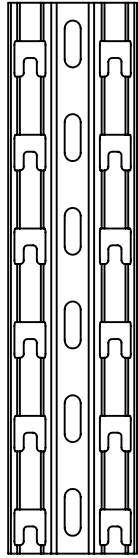
	Material	Finish
EZ	Carbon Steel ASTM A510 Grade 1008	Electroplated Zinc, ASTM B633
GC	Carbon Steel ASTM A510 Grade 1008	Hot-Dip Galvanized ASTM A123
BL	Carbon Steel ASTM A510 Grade 1008	Black Painted ASTM D 3451
PE	Carbon Steel ASTM A510 Grade 1008	Custom Painted ASTM D 3451
304L	AISI TYPE 304L	Passivated ASTM A 380
316L	AISI TYPE 316L	Passivated ASTM A 380

# FAS P FAS PROFILE

# CABLOFIL®

INNOVATORS IN CABLE MANAGEMENT

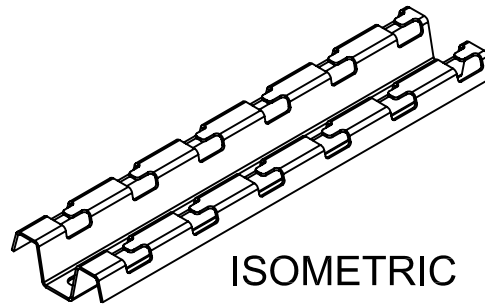
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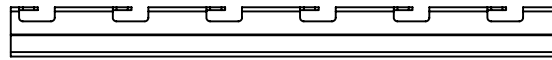
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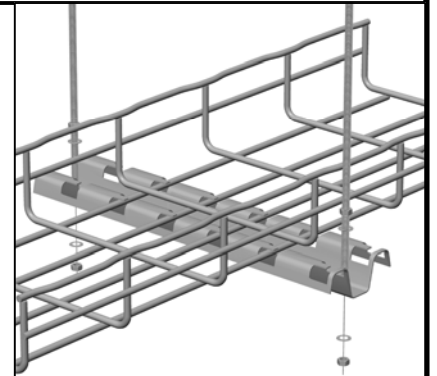
FRONT



ISOMETRIC



SIDE



9.5 x 25mm  
 (0.37" x 0.98")

50mm  
 (1.97")

22mm  
 (0.85")

50mm  
 (1.97")

25mm  
 (0.98")

A

REF# CS-058

	A		lb
	in	mm	
FASP 150	5.67	144	0.380
FASP 200	7.64	194	0.510
FASP 300	11.57	294	0.770
FASP 400	15.51	394	1.030
FASP 450	17.48	444	1.170
FASP 500	19.45	494	1.300
FASP 550	21.42	544	1.430
FASP 600	23.39	594	1.560
FASP 700	27.32	694	1.820
FASP 1000	39.13	994	2.610
FASP 2000	78.50	1994	5.230
FASP 3000	117.87	2994	7.857

PG

GC

316L

BL

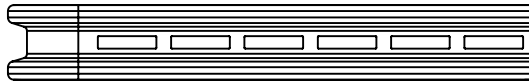
PE

# CS STANDARD L BRACKET

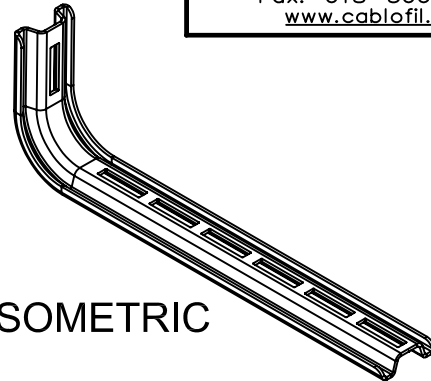
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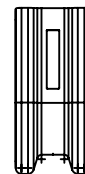
TOP



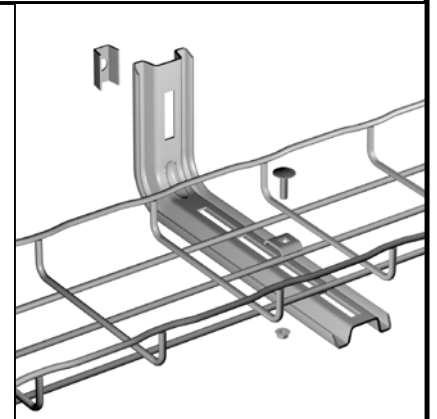
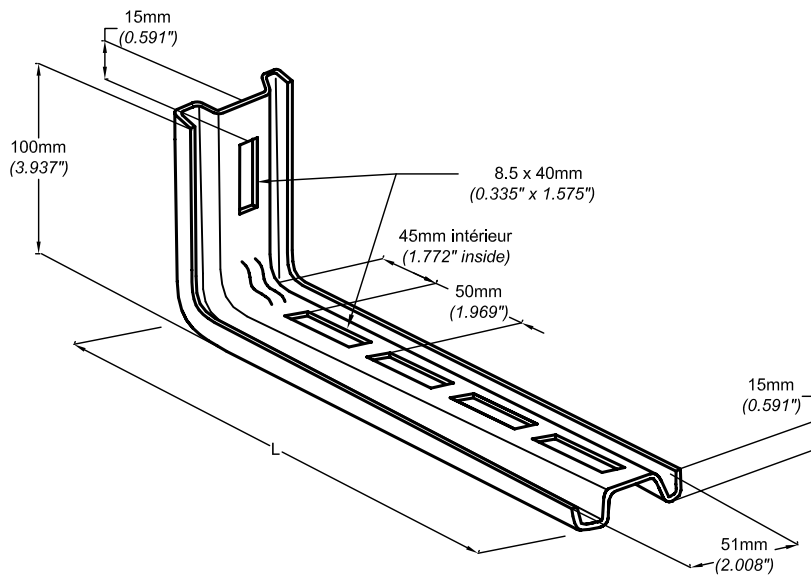
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


SIDE



FRONT



			
	in	mm	lb
CS 100	6.61	168	0.410
CS 200	10.24	260	0.760
CS 300	14.17	360	1.240

REF# CS-059

PG GC 316L BL PE

111-01332

REF# CS-060

Article Number: 111-01332

HellermannTyton



Download drawing



Download spec sheet

## Base Data

**Local Order Number** 111-01332

**Type** T120R

**Color** Red (RD)

**Features and Benefits** HellermannTyton manufactures a full line of high quality cable ties in a variety of styles, sizes, materials, and colors. HellermannTyton cable ties are engineered and manufactured for maximum performance and quality.

**Product Description** HellermannTyton heavy duty cable ties offer a higher tensile strength for heavy load applications. The head design guarantees high tensile strength, as well as a low insertion force. The bent tail design allows quick and simple installations by hand. For high volume applications, tensioning tools are available to ensure consistent and safe installation.

## Product Dimensions

**Minimum Tensile Strength (Imperial)** 120.0 lbs

**Minimum Tensile Strength (Metric)** 535.0 N

**Length L (Imperial)** 15.2 "

**Length L (Metric)** 387.0 mm

**Fixation Method** None

**Identification Plate Position** none

**Releasable Closure** No

**Tie Closure** plastic pawl

**Variant** Inside Serrated

**Width W (Imperial)** 0.3 "

**Width W (Metric)** 7.4 mm

**Bundle Diameter Min. (Imperial)** 0.59 "

**Bundle Diameter Min. (Metric)** 15.0 mm

**Bundle Diameter Max. (Imperial)** 4.1 "

**Bundle Diameter Max. (Metric)** 105 mm

## Logistics and Packaging

**Package Quantity (Metric)** 50

## Material and Specifications

**Material** Polyamide 6.6 (E/CTFE)

**Material Shortcut** PA66E/CTFE

**Flammability** UL94 V0

**Operating Temperature** -103°F to +302°F (-75°C to +150°C)

**ROHS Compliant** Yes

**UL Recognized (US and Canada)** Yes

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© HellemannTyton 2015

111-03517

REF# CS-061

Article Number: 111-03517

Description: Standard Cable Tie, 11.4" Long, 30lb Tensile Strength, PA66, Natural, 1000/pkg



Base Data	
Local Order Number	T30LL9M4
Type	T30LL
Color	Natural (NA)
Features and Benefits	<ul style="list-style-type: none"> <li>• Inside serrations allow for strong hold on cables and wire bundles.</li> <li>• Head design provides high tensile strength with very low insertion force.</li> <li>• Bent tail ensures a quick and simple installation.</li> </ul>
Quantity Per	bag
Product Description	HellermannTyton standard cable ties feature inside serrations providing a positive hold onto wire and cable bundles. The head design guarantees high tensile strength, as well as a low insertion force. The bent tail design allows quick and simple installations by hand. For high volume applications, tensioning tools are available to ensure consistent and safe installation.
Short Description	Standard Cable Tie, 11.4" Long, 30lb Tensile Strength, PA66, Natural, 1000/pkg
Product Dimensions	
Minimum Tensile Strength (Imperial)	30.0lbs
Minimum Tensile Strength (Metric)	135N
Length L (Imperial)	11.4"
Length L (Metric)	290.0mm
Fixation Method	None
Identification Plate Position	none
Releasable Closure	No
Tie Closure	plastic pawl
Variant	Inside Serrated
Width W (Imperial)	0.14"
Width W (Metric)	3.5mm
Bundle Diameter Min. (Imperial)	0.06"
Bundle Diameter Min. (Metric)	1.5mm
Bundle Diameter Max. (Imperial)	3.2"

111-03517

REF# CS-061

HellermannTyton

Product Dimensions	Bundle Diameter Max. (Metric)	80.0mm
Material and Specifications	Material	Polyamide 6.6 (PA66)
	Material Shortcut	PA66
	Flammability	UL94 V2 REF# CS-061
	Halogenfree	Yes
	Operating Temperature	-40°F to +185°F (-40°C to +85°C)
	ROHS Compliant	Yes
	Certification/Specification	UL-ZODZ2.E64139
	UL Listed (US and Canada)	Yes
	UL Recognized (US and Canada)	Yes
	Logistic and Packaging	Package Quantity (Metric)
Customs Number(Schedule B)		3926909987

## GT.75X180MV2

Article Number: 854-44394

Grip Tie Roll, 180.0"x.75", UL94V-2 Flame Rated, Polyamide; Polypropylene, Maroon, 1/pkg



Download spec sheet

### Base Data

Local Order Number GT.75X180MV2

REF# CS-062

Type GT.75X180

Color Maroon (MN)

- Features and Benefits**
- UL94V0-2 flame rate material allow use in air handling spaces.
  - Features quick release for repetitive access to cable and wire.
  - Can be opened and closed numerous times without failure.
  - Adjustable so one size can accommodate multiple bundle sizes.

**Product Description** The Grip Tie is a low profile, one piece fastening device. Constructed of a hook and loop design, laminated back to back, the Grip Tie features quick release for repetitive access to cable and wire. Grip Ties are available in a variety of colors and are versatile enough for applications ranging from network installations to bundling power cords.

**Short Description** Grip Tie Roll, 180.0"x.75", UL94V-2 Flame Rated, Polyamide; Polypropylene, Maroon, 1/pkg

### Product Dimensions

Minimum Tensile Strength (Imperial) 50.0 lbs

Minimum Tensile Strength (Metric) 222.41 N

Length L (Imperial) 15.0 ft

Length L (Metric) 4.5 m

Width W (Imperial) 0.75 "

Width W (Metric) 19.05 mm

### Logistics and Packaging

Quantity Per bag

Package Quantity 1

Package Quantity (Metric) 1

Carton Quantity 200

### Material and Specifications

**Material** Polyamide 6 (PA6)  
Polypropylene (PP)

**Material Shortcut** PA66  
PP



# Pan-Way® LD Surface Raceway System

### specifications

LD non-metallic series low voltage, one-piece hinged design, single channel surface raceway shall include adhesive backing and shall be made of impact resistant material with a smooth finish that shall not scratch, peel or corrode. The raceway shall include an assortment of bend radius and standard fittings that complement the offering to help route, protect and conceal low voltage data, voice and video cabling. LD raceway shall be available in three sizes and four standard colors that shall be optimized with the Panduit® Pan-Net® communication system.

- REF# CS-063
- REF# CS-065
- REF# CS-066
- REF# CS-069
- REF# CS-067
- REF# CS-070
- REF# CS-071
- REF# CS-064
- REF# CS-068



LD Raceway	
<b>Raceway:</b>	LD3IW**-A LD5IW**-A LD10IW**-A

LD Raceway Fittings	
<b>Coupler:</b>	CF*IW-E
<b>Inside corner:</b>	ICFC*IW-X
<b>Outside corner:</b>	OCFC*IW-X
<b>Right angle:</b>	RAFC*IW-X
<b>End cap:</b>	ECF*IW-X
<b>Tee:</b>	TFC*IW-X
<b>Four-way cross:</b>	CRFC5IW-X
<b>Drop ceiling/entrance end:</b>	DCF*IW-X
<b>Right angle/entrance end:</b>	RAEFXIW-X
<b>LD5 to LD3 reducer:</b>	RF5X3IW-E
<b>LD10 to LD5 reducer:</b>	RF10X5IW-X
<b>LD10 to LD3 reducer:</b>	RF10X3IW-X
<b>LD5 fire box adapter:</b>	FBA5IW-X
<b>LD10 fire box adapter:</b>	FBA10IW-X

### technical information

<b>Material:</b>	Rigid PVC
<b>Flammability:</b>	UL94V-0; FT4
<b>Capacity:</b>	Single Channel
<b>Voltage Rating:</b>	50V or less
<b>Operating and Storage Temperature:</b>	0 to 50° C

WH (White) has been substituted in model number per manufacturers directions for IW (International White)

LD Raceway Installation	
<b>Installation tool:</b>	LDW*-V

### key features and benefits

<b>1" bend radius control fittings:</b>	Cables in the raceway will satisfy the minimum 1" bend radius requirement, preventing the potential degradation of cable performance; meets TIA/EIA standards
<b>One-piece hinged design:</b>	Cables can be laid into the raceway, speeding installation and preventing damage to cables
<b>Adhesive backing:</b>	Full length adhesive strip allows easy tool free installation and works well for temporary mounting
<b>Available in different sizes &amp; lengths:</b>	Accommodates varying cable types and capacities. Available sizes - LD3, LD5, LD10 ; Available lengths - 6', 8', 10' (2m length available in Europe only)
<b>Non-metallic construction:</b>	Lightweight, reducing installer fatigue and labor required to install the raceway; solid color throughout will not chip, peel, rust or corrode; easy to cut with standard saws and saw blades, eliminating the need for special cutting devices
<b>Distinct colors:</b>	Available in four standard colors- IW, EI, IG, WH. AW available in Europe only. Raceway is field paintable to match walls and surrounding décor
<b>Full selection of fittings and surface mount boxes:</b>	Wide variety of fittings and surface mount boxes available for various LD raceway applications

### LD Raceway Surface Mount Outlet/Junction Boxes

<b>Low Voltage:</b>	
<b>Single gang, one-piece :</b>	JB1IW-A
<b>Single gang, one-piece, deep:</b>	JB1DIW-A
<b>Single gang, two-piece :</b>	JBX3510IW-A
<b>Single gang, two-piece, fast snap:</b>	JB1FSIW-A
<b>In-wall box adapter:</b>	JBA-X
<b>Power rated:</b>	
<b>Single gang, two-piece:</b>	JBP1IW
<b>Single gang, two-piece, deep:</b>	JBP1DIW
<b>Single gang, two-piece, extension:</b>	JBP1EIW
<b>Single gang, two-piece, intermediate:</b>	JBP1IIW
<b>Single gang, two-piece, snap on:</b>	JBP1FSIW
<b>Single gang, two-piece, round:</b>	RJBX3510IW
<b>Double gang, two-piece:</b>	JBP2IW
<b>Double gang, two-piece, deep:</b>	JBP2DIW
<b>Double gang, two-piece, divided:</b>	JBP2SIW
<b>Double gang, two-piece, snap on:</b>	JBP2FSIW

### applications

Pan-Way® LD Surface Raceways are designed to provide easy and economical solutions for routing any low voltage cable along smooth and clean perimeter walls, baseboards or ceilings. This raceway is a perfect solution for schools, hospitals, offices, homes or anywhere a small, secure, low profile raceway is needed.

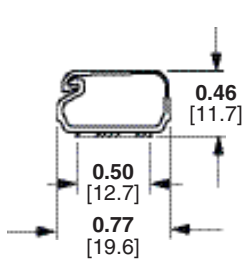
\* Insert raceway size of 3, 5, or 10  
 \*\* Insert raceway length of 6', 8', or 10'  
 All parts listed in International White (IW) color. To order other colors substitute Electrical Ivory (EI), International Gray (IG), and White (WH)

# Pan-Way® LD Surface Raceway System

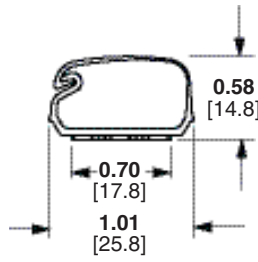
## Wire Fill

Raceway Type and Configuration	Fill Area (in <sup>2</sup> )	Electrical Cables			Data Grade Cables 24 AWG/UTP CM								Audio/Video		Fiber Optic Cable	
		14 AWG	12 AWG	10 AWG	Cat 5e – Plenum		Cat. 6		Cat. 6A		Cat. 6A (SD)		RG6		2 Strand	
		THHN/T90	THHN/T90	THHN/T90	DIA. = 0.193		DIA. = 0.24		DIA. = 0.30		DIA. = 0.24		DIA. = 0.275		DIA. = 0.175	
		FILL			FILL		FILL		FILL		FILL		FILL		FILL	
		MAX	MAX	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX
		(UL Temp Rise Test)			40%	60%	40%	60%	40%	60%	40%	60%	40%	60%	40%	60%
LD3	0.21	**	**	**	2	4	1	2	1	1	1	2	1	2	3	5
LD5	0.38	**	**	**	5	7	3	5	2	3	3	5	2	3	6	9
LD10	1.00	**	**	**	13	20	8	13	5	8	8	13	6	10	16	24

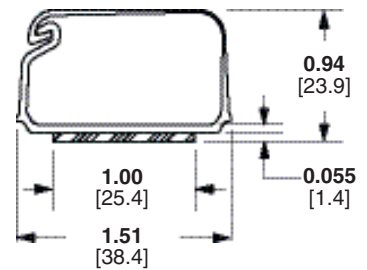
## LD Raceway



LD3

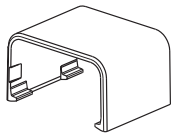


LD5

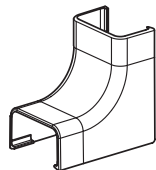


LD10

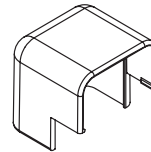
## Fittings



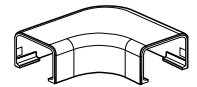
CF



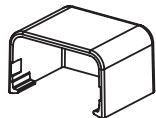
ICFC



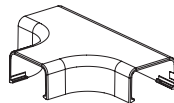
OCFC



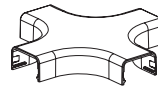
RAFC



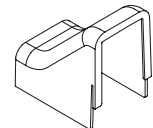
ECF



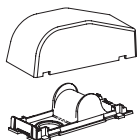
TFC



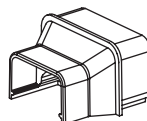
CRFC5



DCF



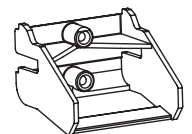
RAEFX



RF



FBA



LDW

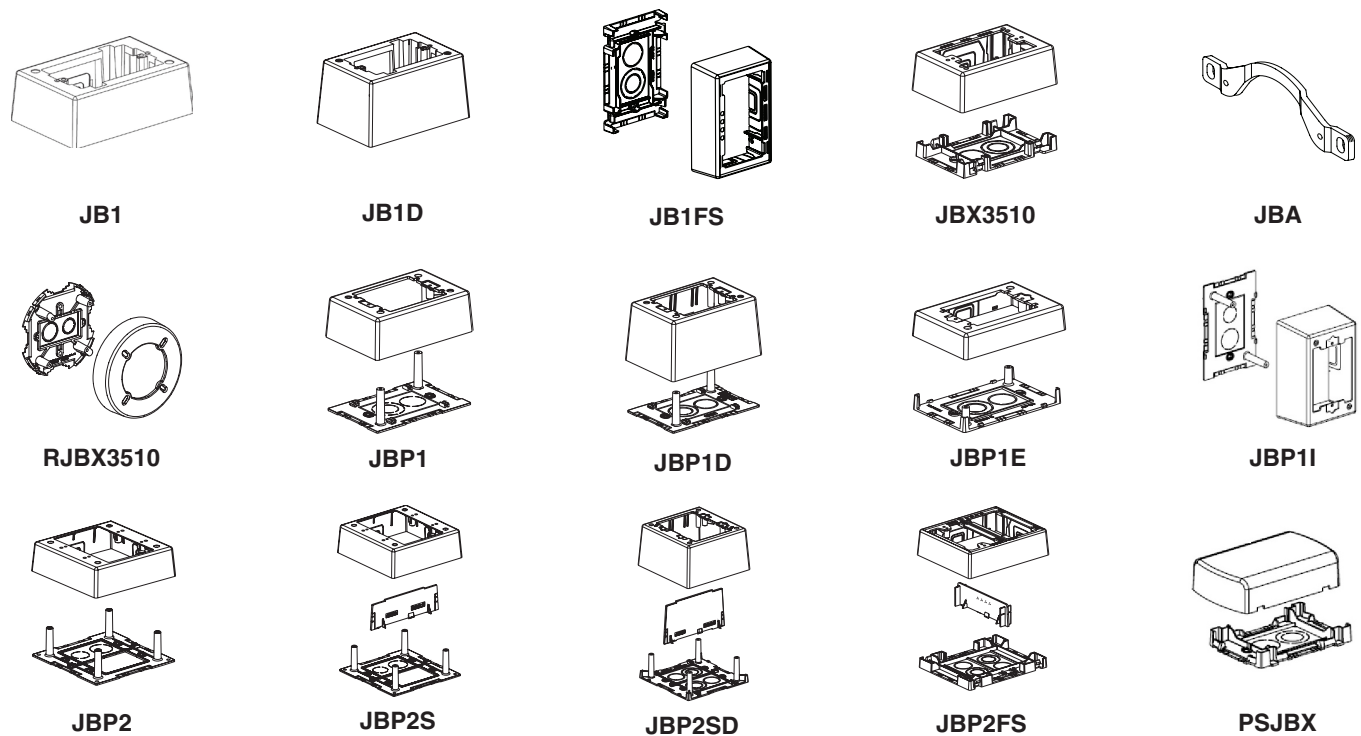
# Pan-Way® LD Surface Raceway System

## Compatible LD Raceway Surface Mount Outlet/Junction Boxes

Low Voltage or Fiber Optic ONLY	
<b>JB1**-A</b>	Single gang one-piece outlet box with adhesive backing.
<b>JB1D**-A</b>	Single gang one-piece deep outlet box with adhesive backing
<b>JB1FS**-A</b>	Fast-Snap™ Single Gang Two-Piece Snap Together Outlet Box with adhesive backing.
<b>JBX3510**-A</b>	Single gang two-piece snap together outlet box with adhesive backing
<b>JBA-X</b>	In-wall box adapters adapt single gang surface mount outlet boxes to in-wall conduit boxes.
Power, Low Voltage or Fiber Optic	
<b>RJBX3510**</b>	Single gang two-piece screw together round outlet box.
<b>JBP1**</b>	Single gang two-piece screw together outlet box.
<b>JBP1D**</b>	Single gang two-piece screw together deep outlet box.
<b>JBP1E**</b>	Single gang two-piece screw together extension outlet box.
<b>JBP1I**</b>	Single gang two-piece screw together intermediate outlet box.
<b>JBP2**</b>	Double gang two-piece screw together deep outlet box
<b>JBP2S**</b>	Double gang two-piece screw together divided outlet box
<b>JBP2D**</b>	Double gang two-piece screw together deep outlet box
<b>JBP2FS**</b>	Fast-Snap™ Double Gang Power Rated Two-Piece Snap Together Outlet Box
<b>PSJBX**</b>	Single gang two-piece snap together power source box.

\*\* = Available colors: International White (IW), Electrical Ivory (EI), International Gray (IG), White (WH) or Arctic White (AW).

## Surface Mount Outlet/Junction Boxes



### WORLDWIDE SUBSIDIARIES AND SALES OFFICES

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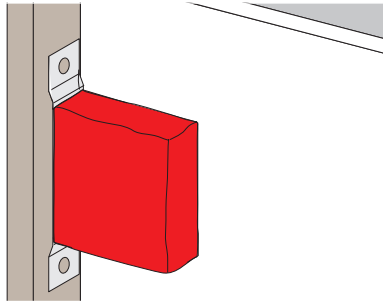
or by phone: 800.777.3300

Page CS-63

# PANDUIT®

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SRSP21--WW-ENG  
Replaces WW-SRSP10  
6/2015

**CP 617 Firestop Putty Pad**



**Features and Applications**

- A moldable firestop putty designed to help protect electrical outlet boxes
- Applied by hand
- Fast installation

CLASSIFIED  
**UL**  
 US  
 WALL OPENING PROTECTIVE MATERIAL  
 FIRE RESISTANCE CLASSIFICATION  
 SEE PRODUCT CATEGORY IN  
 UL FIRE RESISTANCE DIRECTORY  
 66Y7



**Technical Data** **CP 617, CP 617L and CP 617XL**

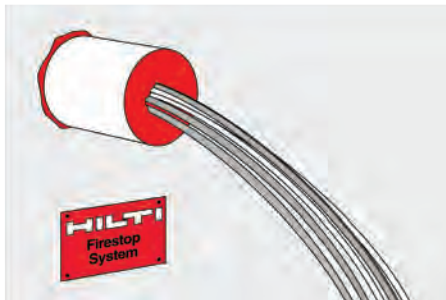
<b>Dimensions</b>	CP 617: 6" x 7" x 1/8" (15 x 18 x 0.3 cm) CP 617L: 7" x 7" x 1/8" (18 x 18 x 0.3 cm) CP 617XL: 9" x 9" x 1/8" (23 x 23 x 0.3 cm)
<b>Consistency</b>	Moldable putty
<b>Color</b>	Red
<b>Application temperature</b>	40 to 95° F (5 to 35° C)
<b>Storage temperature</b>	40 to 104° F (5 to 40° C)
<b>Cure</b>	Non-curing
<b>Density</b>	1.48 g/cm <sup>3</sup>
<b>Volatile solvents</b>	None
<b>Asbestos fibers</b>	None
<b>Surface burning characteristics (ASTM E84-08)</b>	Flame Spread: 15 Smoke Development: 10
<b>Sound transmission classification (ASTM E90-97)</b>	59 (Relates to specific construction)

- Approvals**
- California State Fire Marshal - No. 4485-1200:129
- Tested in accordance with**
- UL 263
  - ASTM E84
  - CAN/ULC-S115

Description	Qty	Item No.
CP 617 Putty Pad 6" x 7"	20	00309760
CP 617L Putty Pad 7" x 7"	20	00333583
CP 617XL Putty Pad 9" x 9"	20	00373387

**REF# CS-072**

**CP 618 Firestop Putty Stick**



**Features and Applications**

- An intumescent, non-hardening, firestop putty for cable and pipe penetrations
- Reusable
- Easy to add or remove cables
- Fast installation

CLASSIFIED  
**UL**  
 US  
 FILL, VOID OR CAVITY MATERIAL FOR USE IN THROUGH-PENETRATION FIRESTOP SYSTEMS  
 SEE PRODUCT CATEGORY IN UL FIRE RESISTANCE DIRECTORY  
 66Y7



**Technical Data** **CP 618**

<b>Dimensions</b>	18 in <sup>3</sup> (Approx. 10-1/4" x 1-1/2" round)
<b>Consistency</b>	Moldable putty
<b>Color</b>	Red
<b>Application temperature</b>	40 to 95° F (5 to 35° C)
<b>Cure</b>	Non-curing
<b>Density</b>	Approx. 1.48 g/cm <sup>3</sup>
<b>Surface burning characteristics (ASTM E84-08)</b>	Flame Spread: 15 Smoke Development: 10
<b>Sound transmission classification (ASTM E90-97)</b>	49 (Relates to specific construction)

- Approvals**
- California State Fire Marshal - No. 4485-1200:111
- Tested in accordance with**
- UL 1479
  - ASTM E814
  - ASTM E84
  - CAN/ULC-S115

Description	Color	Volume	Qty	Item No.
CP 618 Putty Stick	Red	18 in <sup>3</sup> ea	12	00314721

**10**

**Contact**

Copper LAN Product Inquiry  
Phone: 717-354-6200  
berktek.support@nexans.com

## Multi-Pair Category 3

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.

### Description

#### Construction

24 AWG) bare copper wire insulated with thermoplastic. Three layer core construction jacketed in flame retardant PVC.

#### Standards

- North American: ANSI/TIA/EIA-568-C.2, UL 444 and C22.2 No.214-02
- International: ISO/IEC 11801, EU Directive 2002/95/EC (RoHS)

#### Flame Rating

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

#### Applications

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

- Ethernet 10BASE-T
- Voice

#### Features

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

#### Benefits

- Assurance that every link will meet the most demanding transmission requirements
- Simplified structured cabling solution preserving long-term network investment



#### Standards

**National ANSI/TIA-568-C.2**

## Multi-Pair Category 3

### Characteristics

<b>Construction characteristics</b>	
Type of cable	UTP
<b>Dimensional characteristics</b>	
Length per reel	1000.0 ft
<b>Usage characteristics</b>	
Field of application	Indoor
Category	Cat. 3

**REF# CS-073**

### Product List

☎=Make to order, 📦=Make to stock

Part Number	Description	Colour	Number of pairs	Packaging	Fire safety
📦 10032113	100 Pair Category 3 Plenum	Grey	100	Reel	Plenum Rated
📦 10032472	100 Pair Category 3 Riser	Grey	100	Reel	Riser Rated
📦 10032123	200 Pair Category 3 Plenum	Grey	200	Reel	Plenum Rated
📦 10032493	200 Pair Category 3 Riser	Grey	200	Reel	Riser Rated
📦 10032036	25 Pair Category 3 Plenum	Blue	25	Reel	Plenum Rated
📦 10032111	25 Pair Category 3 Plenum	Grey	25	Reel	Plenum Rated
📦 10032396	25 Pair Category 3 Riser	Grey	25	Reel	Riser Rated
📦 10032124	300 Pair Category 3 Plenum	Grey	300	Reel	Plenum Rated
📦 10032494	300 Pair Category 3 Riser	Grey	300	Reel	Riser Rated
📦 10032112	50 Pair Category 3 Plenum	Grey	50	Reel	Plenum Rated
📦 10032471	50 Pair Category 3 Riser	Grey	50	Reel	Riser Rated

**REF# CS-074**

☎ = Make to order, 📦 = Make to stock

### Technical Data - Electrical

Frequency (MHz)	Insertion Loss (dB/100m max)	SRL (dB min)	PS-NEXT (dB min)
1	2.6	12	41.3
4	5.6	12	32.3
10	9.8	12	26.3
16	13.1	10	23.3

### Technical Data - Physical

	25 PR (CMR)	25 PR (CMP)	50 PR (CMR)	50 PR (CMP)	100 PR (CMR)
Mutual Capacitance, nF/100 m nom.	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
Conductor diameter—in. (mm)	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)



# UniCam® Connector, SC

50 µm multimode (OM3/OM4 compatible)

CORNING

REF# CS-075

Corning UniCam® SC connectors offer optical performance in a fast, easy field-termination solution ideal for fiber-to-the-workstation applications where setup and teardown time is critical. The high-precision mechanical splice technology enables fiber optic networks to be installed quickly and cost effectively. Installation of an LC, SC or ST® compatible connector can be accomplished in about 50 seconds to one minute with the UniCam High-Performance Tool Kit.

The lightweight, handheld installation tool and high-performance precision cleaver virtually eliminate human variability during installation, ensuring terminations are right the first time, every time. This kit was designed with consideration for network installers, from the cleaver, with its intuitive, hand-held precision design and dual-clamp precision hold, to the installation tool, with its immediate go/no-go feedback signal indicating proper mating of the field fiber to the fiber stub. Installation is as easy as strip, clean, cleave, cam and crimp, with exceptional optical performance assured. Every UniCam® connector is assured to meet the published specification at the time of installation or Corning will replace it.

Corning UniCam® high-performance connectors offer best-in-class optical performance in a fast, easy field-termination solution. These high-precision zirconia ceramic ferrule connectors assured exceptional insertion loss – 0.1 dB typical/0.5 dB maximum per connector pair for multimode, 0.2 dB typical/0.5 dB maximum per connector pair for single-mode. Installation of an LC, SC or ST® compatible connector can be accomplished in about 50 seconds to one minute with the UniCam high-performance tool kit.

The lightweight, hand-held installation tool and high-performance precision cleaver virtually eliminate human variability during installation, ensuring terminations are right the first time, every time. This kit was designed with consideration for network installers, from the cleaver, with its intuitive, hand-held precision design and dual-clamp precision hold, to the installation tool, with its immediate go/no-go feedback signal indicating proper mating of the field fiber to the fiber stub. Installation is as easy as strip, clean, cleave, cam and crimp, with exceptional optical performance assured. Every UniCam® connector is assured to meet the published specification at the time of installation or Corning will replace it.



## Features and Benefits

**Performance guaranteed**  
100 percent yield guarantee

CORNING

# UniCam<sup>®</sup> Connector, SC

50 µm multimode (OM3/OM4 compatible)



## Features and Benefits

**Broad operating temperature (-40° to +75°C)**  
Utility and flexibility

**Factory-polished end face**  
Consistent optical performance

**Fast termination and no consumables**  
Low installation cost

**Minimum insertion loss**  
Optimum optical performance

## Standards

**Approvals and Listings**      Passed EIA/TIA 568-B.3

**Intermateability**              Connectors are FOCIS compliant with TIA/EIA 604-10A and IEC61754-20

## Specifications

General Specifications	
Product Type	Field-Installable Connectors
Technology	No-Epoxy/No-Polish
Keyed	No
Corning Logo	Yes
Packaging	Single Pack
Fiber Category	50 µm MM (OM3/OM4 compatible)

Temperature Range	
Operation	-40 °C to 75 °C exceeding EIA/TIA 568-B.3 (-40 °F to 167 °F exceeding EIA/TIA 568-B.3)

Design - Connector	
Connector Type	SC
Ferrule Material	Ceramic
Housing Material	Composite



# UniCam<sup>®</sup> Connector, SC

50 µm multimode (OM3/OM4 compatible)



Design - Connector	
Housing Color	Black
Boot Color	Aqua

Mechanical Specifications - Connector	
Durability	≤ 0.2 dB change by 500 rematings, FOTP-21
Temperature Cycling	≤ 0.3 dB IL, -40° to +75°C, 21 cycles
Nominal Fiber Outer Diameter	125 µm
Tensile Strength Jacketed Cable	50 N, change ≤ 0.2 dB, FOTP-6 (11 lb, change ≤ 0.2 dB, FOTP-6)
Tensile Strength 900 µm Cable	4.9 N, change ≤ 0.2 dB, FOTP-6 (1.1 lb, change ≤ 0.2 dB, FOTP-6)

Optical Specifications - Connector	
Insertion Loss, Typical	0.1 dB
Insertion Loss, Maximum	0.5 dB
Reflectance	≤ -26 dB

Chemical Characteristics	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU

## Ordering Information

**REF# CS-075**

Part Number	95-050-41-X
Product Description	UniCam <sup>®</sup> High-Performance Connector, SC, 50 µm multimode (OM3/OM4 compatible), ceramic ferrule, logo, single pack, black housing, aqua boot
EAN Code	4042673619451

## Shipping Information

Units per Delivery	1/1
Package Contents	Connector, shroud, crimp band, boot (900 µm), boot (3.0 mm)

# Anaerobic Connector, SC

50 µm multimode (OM3/OM4/OM4 extended 10G distance)

CORNING

REF# CS-076

Corning anaerobic-cured connectors offer optical performance in a fast, easy field-termination solution designed for fiber-to-the-workstation applications for single-mode and multimode connections. This connector combines the quick-cured convenience of anaerobic adhesive with the performance of epoxy-and-polish connectors. Ideal for enterprise networks and any installations requiring field-installed connectors, the anaerobic-cured technology enables fiber optic networks to be installed cost effectively with minimal tools. Installation of the connector can be accomplished in minutes with the anaerobic adhesive two-part epoxy process. The adhesive is first injected into the connector ferrule, and then the fiber is dipped into the primer and inserted into the connector. Curing takes only one minute without the use of lamps or ovens. With the hand-polish process, an average insertion loss of 0.2 dB is achieved.

## Features and Benefits

### Quick-cure epoxy

No lamps or ovens needed

### Minimal tools and no index-matching gel

Low installation cost

### Hand polished for minimum insertion loss

Reliability and optical performance

## Standards

### Intermateability

Compliant with TIA/EIA  
604-3

## Specifications

General Specifications	
Technology	Field Polish (anaerobic)
Keyed	No
Packaging	Single Pack
Product Type	Field-Installable Connectors
Corning Logo	Yes
Fiber Category	50 µm MM (OM3/OM4/OM4 extended 10G distance)

# Anaerobic Connector, SC

50 µm multimode (OM3/OM4/OM4 extended 10G distance)

CORNING

## Design - Connector

Connector Type	SC
Ferrule Material	Ceramic
Housing Material	Composite
Housing Color	Black
Boot Color	Aqua

## Mechanical Specifications - Connector

Temperature Cycling	≤ 0.3 dB IL, -40° to +75°C, 21 cycles
---------------------	---------------------------------------

## Optical Specifications - Connector

Insertion Loss, Typical	≤ 0.2 dB
Insertion Loss, Maximum	≤ 0.75 dB
Reflectance	≤ -26 dB

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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## Ordering Information

REF# CS-076

Part Number	95-051-41-SP-X
Product Description	SC Connector, 50 µm multimode (OM3/OM4/OM4 extended 10G distance), ceramic ferrule, composite hardware, single pack, black housing, aqua boot
EAN Code	4056418183152

## Shipping Information

Units per Delivery	1/1
Package Contents	Connector, Shroud, Crimp Band (1.6/2.0 mm), Crimp Band (3.0 mm), Boot (900 µm), Boot (2.0 mm), Boot (3.0 mm)

# UniCam® Connector, LC

50 μm multimode (OM3/OM4 compatible)

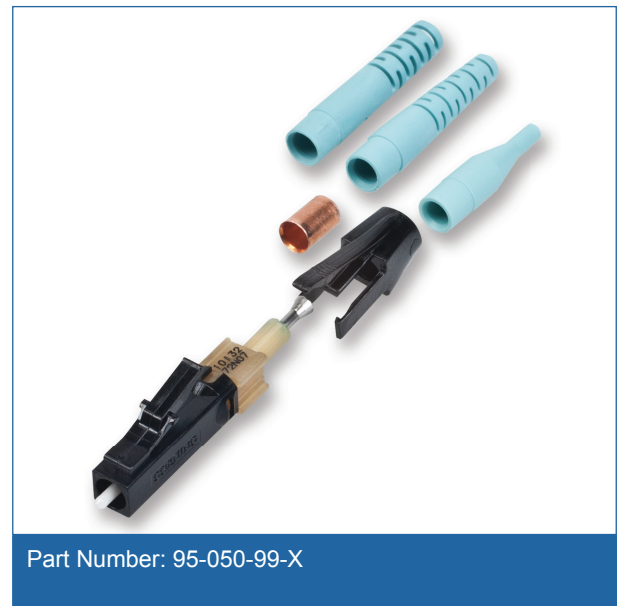
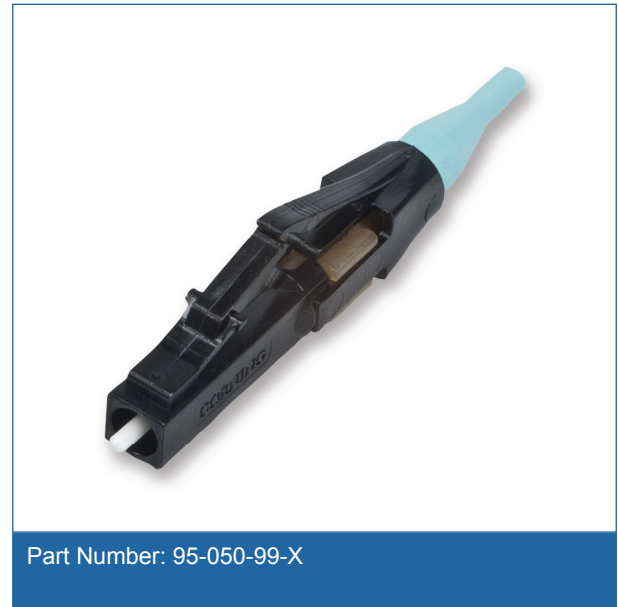
CORNING

REF# CS-077

Corning UniCam® LC connectors offer optical performance in a fast, easy field-termination solution ideal for fiber-to-the-workstation applications where setup and teardown time is critical. The high-precision mechanical splice technology enables fiber optic networks to be installed quickly and cost effectively. Installation of an LC, SC or ST® compatible connector can be accomplished in about 50 seconds to one minute with the UniCam High-Performance Tool Kit. The lightweight, handheld installation tool and high-performance precision cleaver virtually eliminate human variability during installation, ensuring terminations are right the first time, every time. This kit was designed with consideration for network installers, from the cleaver, with its intuitive, hand-held precision design and dual-clamp precision hold, to the installation tool, with its immediate go/no-go feedback signal indicating proper mating of the field fiber to the fiber stub. Installation is as easy as strip, clean, cleave, cam and crimp, with exceptional optical performance assured. Every UniCam connector is assured to meet the published specification at the time of installation or Corning will replace it.

Corning UniCam® high-performance connectors offer best-in-class optical performance in a fast, easy field-termination solution. These high-precision zirconia ceramic ferrule connectors assured exceptional insertion loss – 0.1 dB typical/0.5 dB maximum per connector pair for multimode, 0.2 dB typical/0.5 dB maximum per connector pair for single-mode. Installation of an LC, SC or ST® compatible connector can be accomplished in about 50 seconds to one minute with the UniCam high-performance tool kit.

The lightweight, hand-held installation tool and high-performance precision cleaver virtually eliminate human variability during installation, ensuring terminations are right the first time, every time. This kit was designed with consideration for network installers, from the cleaver, with its intuitive, hand-held precision design and dual-clamp precision hold, to the installation tool, with its immediate go/no-go feedback signal indicating proper mating of the field fiber to the fiber stub. Installation is as easy as strip, clean, cleave, cam and crimp, with exceptional optical performance assured. Every UniCam® connector is assured to meet the published specification at the time of installation or Corning will replace it.



## Features and Benefits

**Performance guaranteed**  
100 percent yield guarantee

CORNING

# UniCam<sup>®</sup> Connector, LC

50 µm multimode (OM3/OM4 compatible)

CORNING

## Features and Benefits

**Broad operating temperature (-40° to +75°C)**  
Utility and flexibility

**Factory-polished end face**  
Consistent optical performance

**Fast termination and no consumables**  
Low installation cost

**Minimum insertion loss**  
Optimum optical performance

## Standards

**Approvals and Listings** Passed EIA/TIA 568-B.3

**Intermateability** Connectors are FOCIS compliant with TIA/EIA 604-10A and IEC61754-20

## Specifications

General Specifications	
Technology	No-Epoxy/No-Polish
Keyed	No
Product Type	Field-Installable Connectors
Corning Logo	Yes
Packaging	Single Pack
Fiber Category	50 µm MM (OM3/OM4 compatible)

Temperature Range	
Operation	-40 °C to 75 °C exceeding EIA/TIA 568-B.3 (-40 °F to 167 °F exceeding EIA/TIA 568-B.3)

Design - Connector	
Connector Type	LC
Ferrule Material	Ceramic
Housing Material	Composite

# UniCam® Connector, LC

50 µm multimode (OM3/OM4 compatible)



Design - Connector	
Housing Color	Black
Boot Color	Aqua

Mechanical Specifications - Connector	
Durability	≤ 0.2 dB change by 500 rematings, FOTP-21
Temperature Cycling	≤ 0.3 dB IL, -40° to +75°C, 21 cycles
Nominal Fiber Outer Diameter	125 µm
Tensile Strength Jacketed Cable	50 N, change ≤ 0.2 dB, FOTP-6 (11 lb, change ≤ 0.2 dB, FOTP-6)
Tensile Strength 900 µm Cable	4.9 N, change ≤ 0.2 dB, FOTP-6 (1.1 lb, change ≤ 0.2 dB, FOTP-6)

Optical Specifications - Connector	
Insertion Loss, Typical	0.1 dB
Insertion Loss, Maximum	0.50 dB
Reflectance	≤ -26 dB

Chemical Characteristics	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU

## Ordering Information

REF# CS-077

Part Number	95-050-99-X
Product Description	UniCam® High-Performance Connector, LC, 50 µm multimode (OM3/OM4 compatible), ceramic ferrule, logo, single pack, black housing, aqua boot
EAN Code	4042673619420

## Shipping Information

Units per Delivery	1/1
Package Contents	Connector, Trigger, Crimp Band, Boot (900 µm), Boot (3.0 mm.), Boot (2.0 mm)

# Anaerobic Connector, LC

50  $\mu$ m multimode (OM3/OM4/OM4 extended 10G distance)

CORNING

REF# CS-078

Corning anaerobic-cured connectors offer optical performance in a fast, easy field-termination solution designed for fiber-to-the-workstation applications for single-mode and multimode connections. This connector combines the quick-cured convenience of anaerobic adhesive with the performance of epoxy-and-polish connectors. Ideal for enterprise networks and any installations requiring field-installed connectors, the anaerobic-cured technology enables fiber optic networks to be installed cost effectively with minimal tools. Installation of the connector can be accomplished in minutes with the anaerobic adhesive two-part epoxy process. The adhesive is first injected into the connector ferrule, and then the fiber is dipped into the primer and inserted into the connector. Curing takes only one minute without the use of lamps or ovens. With the hand-polish process, an average insertion loss of 0.2 dB is achieved.

## Features and Benefits

### Quick-cure epoxy

No lamps or ovens needed

### Minimal tools and no index-matching gel

Low installation cost

### Hand polished for minimum insertion loss

Reliability and optical performance

## Standards

### Intermateability

Compliant with TIA/EIA  
604-10



Part Number: 95-051-98-SP-X



Part Number: 95-051-98-SP-X

# Anaerobic Connector, LC

50 µm multimode (OM3/OM4/OM4 extended 10G distance)

CORNING

## Specifications

### General Specifications

Technology	Field Polish (anaerobic)
Keyed	No
Packaging	Single Pack
Product Type	Field-Installable Connectors
Corning Logo	Yes
Fiber Category	50 µm MM (OM3/OM4/OM4 extended 10G distance)

### Design - Connector

Connector Type	LC
Ferrule Material	Ceramic
Housing Material	Composite
Housing Color	Black
Boot Color	Aqua

### Mechanical Specifications - Connector

Temperature Cycling	≤ 0.3 dB IL, -40° to +75°C, 21 cycles
---------------------	---------------------------------------

### Optical Specifications - Connector

Insertion Loss, Typical	≤ 0.2 dB
Insertion Loss, Maximum	≤ 0.75 dB
Reflectance	≤ -26 dB

### Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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# Anaerobic Connector, LC

50 µm multimode (OM3/OM4/OM4 extended 10G distance)



## Ordering Information

REF# CS-078

Part Number	95-051-98-SP-X
Product Description	LC Connector, 50 µm multimode (OM3/OM4/OM4 extended 10G distance), ceramic ferrule, ceramic hardware, single pack, black housing, aqua boot
EAN Code	4056418183169

## Shipping Information

Units per Delivery	1/1
Package Contents	Connector, Trigger, Crimp Band (1.6/2.0 mm), Crimp Band (3.0 mm), Boot (900 µm), Boot (2.0 mm), Boot (3.0 mm)



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# UniCam® Connector, SC

Single-mode (OS2)

REF# CS-079

CORNING

Corning UniCam® SC connectors offer optical performance in a fast, easy field-termination solution ideal for fiber-to-the-workstation applications where setup and teardown time is critical. The high-precision mechanical splice technology enables fiber optic networks to be installed quickly and cost effectively. Installation of an LC, SC or ST® compatible connector can be accomplished in about 50 seconds to one minute with the UniCam High-Performance Tool Kit.

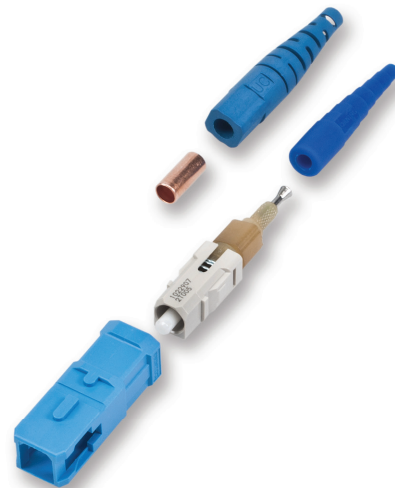
The lightweight, handheld installation tool and high-performance precision cleaver virtually eliminate human variability during installation, ensuring terminations are right the first time, every time. This kit was designed with consideration for network installers, from the cleaver, with its intuitive, hand-held precision design and dual-clamp precision hold, to the installation tool, with its immediate go/no-go feedback signal indicating proper mating of the field fiber to the fiber stub. Installation is as easy as strip, clean, cleave, cam and crimp, with exceptional optical performance assured. Every UniCam® connector is assured to meet the published specification at the time of installation or Corning will replace it.

Corning UniCam® high-performance connectors offer best-in-class optical performance in a fast, easy field-termination solution. These high-precision zirconia ceramic ferrule connectors assured exceptional insertion loss – 0.1 dB typical/0.5 dB maximum per connector pair for multimode, 0.2 dB typical/0.5 dB maximum per connector pair for single-mode. Installation of an LC, SC or ST® compatible connector can be accomplished in about 50 seconds to one minute with the UniCam high-performance tool kit.

The lightweight, hand-held installation tool and high-performance precision cleaver virtually eliminate human variability during installation, ensuring terminations are right the first time, every time. This kit was designed with consideration for network installers, from the cleaver, with its intuitive, hand-held precision design and dual-clamp precision hold, to the installation tool, with its immediate go/no-go feedback signal indicating proper mating of the field fiber to the fiber stub. Installation is as easy as strip, clean, cleave, cam and crimp, with exceptional optical performance assured. Every UniCam® connector is assured to meet the published specification at the time of installation or Corning will replace it.



Part Number: 95-200-41



Part Number: 95-200-41

## Features and Benefits

### Performance guaranteed

100 percent yield guarantee

# UniCam<sup>®</sup> Connector, SC

Single-mode (OS2)

CORNING

## Features and Benefits

### Broad operating temperature (-40° to +75°C)

Utility and flexibility

### Factory-polished end face

Consistent optical performance

### Fast termination and no consumables

Low installation cost

### Minimum insertion loss

Optimum optical performance

## Standards

**Approvals and Listings** Passed EIA/TIA 568-B.3

**Intermateability** Connectors are FOCIS compliant with TIA/EIA 604-10A and IEC61754-20

## Specifications

General Specifications	
Product Type	Field-Installable Connectors
Technology	No-Epoxy/No-Polish
Keyed	No
Corning Logo	Yes
Packaging	Single Pack
Fiber Category	Single-mode (OS2)

Temperature Range	
Operation	-40 °C to 75 °C exceeding EIA/TIA 568-B.3 (-40 °F to 167 °F exceeding EIA/TIA 568-B.3)

Design - Connector	
Connector Type	SC
Ferrule Material	Ceramic
Housing Material	Composite

# UniCam® Connector, SC

Single-mode (OS2)

CORNING

## Design - Connector

Housing Color	Blue
Boot Color	Blue

## Mechanical Specifications - Connector

Durability	≤ 0.2 dB change by 500 rematings, FOTP-21
Temperature Cycling	≤ 0.3 dB IL, -40° to +75°C, 21 cycles
Nominal Fiber Outer Diameter	125 µm
Tensile Strength Jacketed Cable	44 N, change ≤ 0.2 dB, FOTP-6 (11 lb, change ≤ 0.2 dB, FOTP-6)
Tensile Strength 900 µm Cable	4.9 N, change ≤ 0.2 dB, FOTP-6 (1.1 lb, change ≤ 0.2 dB, FOTP-6)

## Optical Specifications - Connector

Insertion Loss, Typical	0.2 dB
Insertion Loss, Maximum	0.5 dB
Reflectance	≤ -55 dB
Polish	UPC

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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## Ordering Information

REF# CS-079

Part Number	95-200-41
Product Description	UniCam® High-Performance Connector, SC, Single-mode (OS2), ceramic ferrule, logo, single pack, blue housing, blue boot
EAN Code	4042673619468

## Shipping Information

Units per Delivery	1/1
Package Contents	Connector, shroud, crimp band, boot (900 µm), boot (3.0 mm)

# UniCam® Connector, LC

Single-mode (OS2)

REF# CS-080

CORNING

Corning UniCam® LC connectors offer optical performance in a fast, easy field-termination solution ideal for fiber-to-the-workstation applications where setup and teardown time is critical. The high-precision mechanical splice technology enables fiber optic networks to be installed quickly and cost effectively. Installation of an LC, SC or ST® compatible connector can be accomplished in about 50 seconds to one minute with the UniCam High-Performance Tool Kit. The lightweight, handheld installation tool and high-performance precision cleaver virtually eliminate human variability during installation, ensuring terminations are right the first time, every time. This kit was designed with consideration for network installers, from the cleaver, with its intuitive, hand-held precision design and dual-clamp precision hold, to the installation tool, with its immediate go/no-go feedback signal indicating proper mating of the field fiber to the fiber stub. Installation is as easy as strip, clean, cleave, cam and crimp, with exceptional optical performance assured. Every UniCam connector is assured to meet the published specification at the time of installation or Corning will replace it.

Corning UniCam® high-performance connectors offer best-in-class optical performance in a fast, easy field-termination solution. These high-precision zirconia ceramic ferrule connectors assured exceptional insertion loss – 0.1 dB typical/0.5 dB maximum per connector pair for multimode, 0.2 dB typical/0.5 dB maximum per connector pair for single-mode. Installation of an LC, SC or ST® compatible connector can be accomplished in about 50 seconds to one minute with the UniCam high-performance tool kit.

The lightweight, hand-held installation tool and high-performance precision cleaver virtually eliminate human variability during installation, ensuring terminations are right the first time, every time. This kit was designed with consideration for network installers, from the cleaver, with its intuitive, hand-held precision design and dual-clamp precision hold, to the installation tool, with its immediate go/no-go feedback signal indicating proper mating of the field fiber to the fiber stub. Installation is as easy as strip, clean, cleave, cam and crimp, with exceptional optical performance assured. Every UniCam® connector is assured to meet the published specification at the time of installation or Corning will replace it.

## Features and Benefits

### Performance guaranteed

100 percent yield guarantee



Part Number: 95-200-99

# UniCam<sup>®</sup> Connector, LC

Single-mode (OS2)

CORNING

## Features and Benefits

### Broad operating temperature (-40° to +75°C)

Utility and flexibility

### Factory-polished end face

Consistent optical performance

### Fast termination and no consumables

Low installation cost

### Minimum insertion loss

Optimum optical performance

## Standards

**Approvals and Listings** Passed EIA/TIA 568-B.3

**Intermateability** Connectors are FOCIS compliant with TIA/EIA 604-10A and IEC61754-20

## Specifications

General Specifications	
Technology	No-Epoxy/No-Polish
Keyed	No
Product Type	Field-Installable Connectors
Corning Logo	Yes
Packaging	Single Pack
Fiber Category	Single-mode (OS2)

Temperature Range	
Operation	-40 °C to 75 °C exceeding EIA/TIA 568-B.3 (-40 °F to 167 °F exceeding EIA/TIA 568-B.3)

Design - Connector	
Connector Type	LC
Ferrule Material	Ceramic
Housing Material	Composite

# UniCam® Connector, LC

Single-mode (OS2)

CORNING

## Design - Connector

Housing Color	Blue
Boot Color	Blue

## Mechanical Specifications - Connector

Durability	≤ 0.2 dB change by 500 rematings, FOTP-21
Temperature Cycling	≤ 0.3 dB IL, -40° to +75°C, 21 cycles
Nominal Fiber Outer Diameter	125 μm
Tensile Strength Jacketed Cable	44 N, change ≤ 0.2 dB, FOTP-6 (11 lb, change ≤ 0.2 dB, FOTP-6)
Tensile Strength 900 μm Cable	4.9 N, change ≤ 0.2 dB, FOTP-6 (1.1 lb, change ≤ 0.2 dB, FOTP-6)

## Optical Specifications - Connector

Insertion Loss, Typical	0.2 dB
Insertion Loss, Maximum	0.5 dB
Reflectance	≤ -55 dB
Polish	UPC

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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## Ordering Information

REF# CS-080

Part Number	95-200-99
Product Description	UniCam® High-Performance Connector, LC, Single-mode (OS2), ceramic ferrule, logo, single pack, blue housing, blue boot
EAN Code	4042673619437

## Shipping Information

Units per Delivery	1/1
Package Contents	Connector, Trigger, Crimp Band, Boot (900 μm), Boot (3.0 mm.), Boot (2.0 mm)

# MIC® Tight-Buffered Cable, Riser

12 F, 50 µm multimode (OM3)

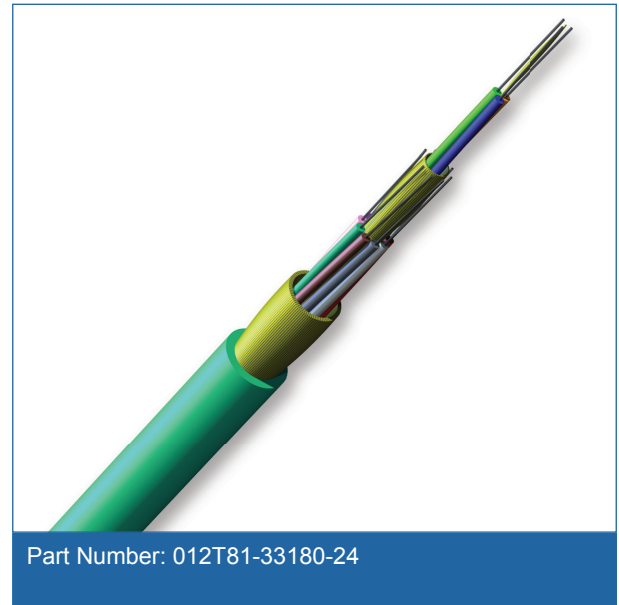
REF# CS-081

CORNING

Corning MIC® riser cables are designed for use in riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900 µm buffered fibers to enable easy, consistent stripping and facilitate termination. The fibers are surrounded by dielectric strength members and protected by a flame-retardant outer jacket.

The all-dielectric cable construction requires no grounding or bonding, making these cables ideal for routing inside buildings including riser shafts, to the telecommunications rooms and workstations. The MIC Riser Cables meet the application requirements of the National Electrical Code® (NEC®) Article 770 and the ICEA S-83-596 test criteria. They are OFNR and FT-4 listed for riser and general-purpose use.

*This cable is available in 12 different jacket colors – blue, orange, green, brown, slate, white, red, black, yellow, violet, rose and aqua. The colored jacket allows for easy visual identification of the cables. The standard jacket color will be determined by the dominant fiber type in the cable and will use the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.*



## Features and Benefits

### 900 µm Buffered Fibers

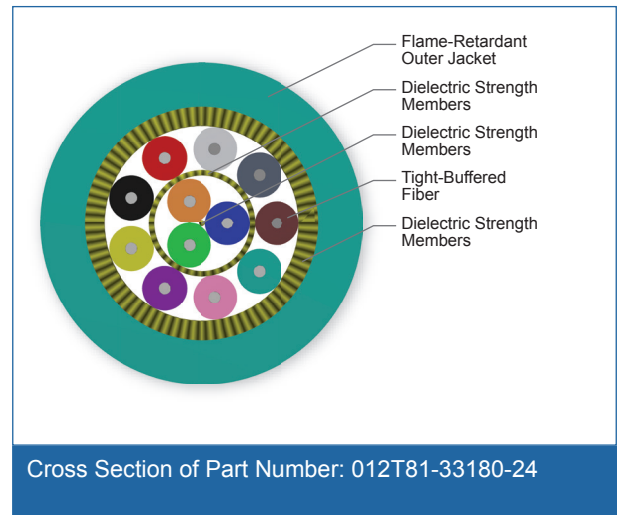
Easy, consistent stripping

### All-dielectric construction

Requires no grounding or bonding

### Flame-retardant jacket

Rugged and durable



## Standards

### Listings

National Electrical Code® (NEC®) OFNR, FT-4

### Design and Test Criteria

UL-1666 and CSA FT-4 (for riser and general building applications); ICEA S-83-596



# MIC<sup>®</sup> Tight-Buffered Cable, Riser

12 F, 50 µm multimode (OM3)

CORNING

## Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser
Cable Type	Tight-Buffered
Product Type	Distribution
Flame Rating	Riser (OFNR)
Fiber Category	50 µm MM (OM3)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	-10 °C to 60 °C (14 °F to 140 °F)
Operation	-20 °C to 70 °C (-4 °F to 158 °F)

Cable Design	
Central Element	Yarn
Fiber Count	12
Tight Buffer Color	Blue, Orange, Green
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Tight Buffer Color, Layer 2	Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tensile Strength Elements and/or Armoring - Layer 2	Dielectric strength members
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

Mechanical Characteristics Cable	
Max. Tensile Strength, Short-Term, ≤12F	660 N (150 lbf)
Max. Tensile Strength, Short-Term, >12F	1320 N (300 lbf)
Max. Tensile Strength, Long-Term, ≤12F	200 N (45 lbf)
Max. Tensile Strength, Long-Term, >12F	400 N (90 lbf)
Nominal Outer Diameter	6.10 mm (0.24 in)
Weight	30.1 kg/km (20.23 lb/1000 ft)
Min. Bend Radius Installation	91.5 mm (3.60 in)
Min. Bend Radius Operation	61 mm (2.40 in)

# MIC<sup>®</sup> Tight-Buffered Cable, Riser

12 F, 50 µm multimode (OM3)



## Fiber Specifications

Optical Characteristics (cabled)	
Fiber Core Diameter	50 µm
Fiber Category	OM3
Fiber Code	T
Performance Option Code	80
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	300 m / -
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -

## Ordering Information

REF# CS-081

Part Number	012T81-33180-24
Product Description	MIC <sup>®</sup> Tight-Buffered Cable, Riser, 12 F, 50 µm multimode (OM3)
EAN Code	4056418180441



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# MIC<sup>®</sup> Tight-Buffered Cable, Riser

24 F, 50  $\mu$ m multimode (OM3)

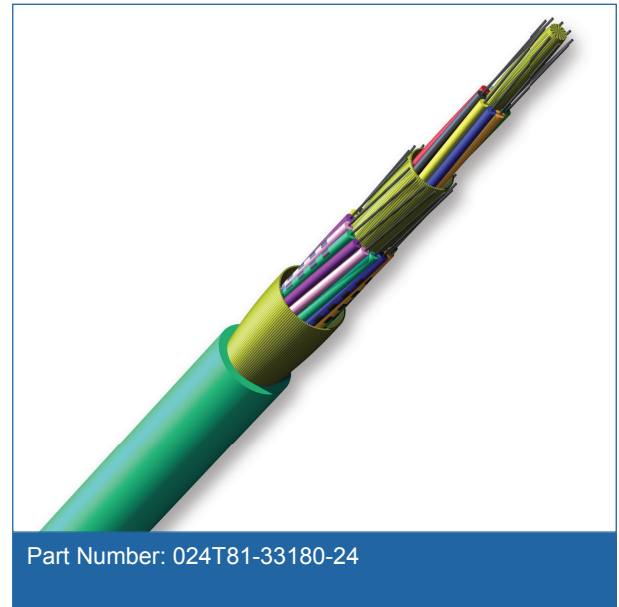
CORNING

REF# CS-082

Corning MIC<sup>®</sup> riser cables are designed for use in riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900  $\mu$ m buffered fibers to enable easy, consistent stripping and facilitate termination. The fibers are surrounded by dielectric strength members and protected by a flame-retardant outer jacket.

The all-dielectric cable construction requires no grounding or bonding, making these cables ideal for routing inside buildings including riser shafts, to the telecommunications rooms and workstations. The MIC Riser Cables meet the application requirements of the National Electrical Code<sup>®</sup> (NEC<sup>®</sup>) Article 770 and the ICEA S-83-596 test criteria. They are OFNR and FT-4 listed for riser and general-purpose use.

*This cable is available in 12 different jacket colors – blue, orange, green, brown, slate, white, red, black, yellow, violet, rose and aqua. The colored jacket allows for easy visual identification of the cables. The standard jacket color will be determined by the dominant fiber type in the cable and will use the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.*



## Features and Benefits

### 900 $\mu$ m Buffered Fibers

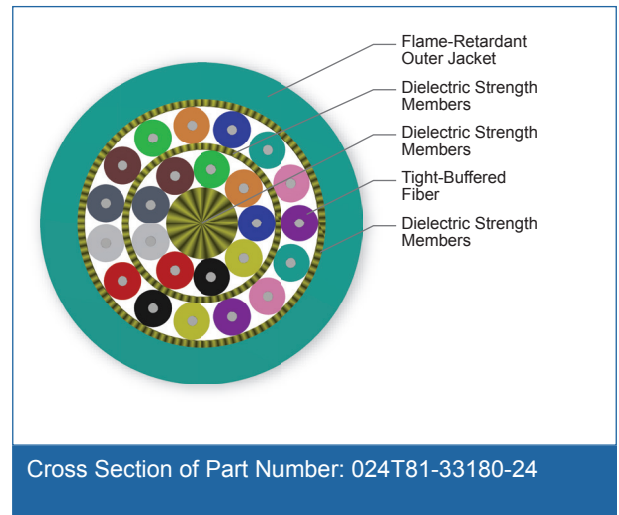
Easy, consistent stripping

### All-dielectric construction

Requires no grounding or bonding

### Flame-retardant jacket

Rugged and durable



## Standards

### Listings

National Electrical Code<sup>®</sup>  
(NEC<sup>®</sup>) OFNR, FT-4

### Design and Test Criteria

UL-1666 and CSA FT-4 (for riser and general building applications); ICEA S-83-596

# MIC<sup>®</sup> Tight-Buffered Cable, Riser

24 F, 50 µm multimode (OM3)

CORNING

## Specifications

### General Specifications

Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser
Cable Type	Tight-Buffered
Product Type	Distribution
Flame Rating	Riser (OFNR)
Fiber Category	50 µm MM (OM3)

### Temperature Range

Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	-10 °C to 60 °C (14 °F to 140 °F)
Operation	-20 °C to 70 °C (-4 °F to 158 °F)

### Cable Design

Central Element	Yarn
Fiber Count	24
Tight Buffer Color	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Tight Buffer Color, Layer 2	Violet, Rose, Aqua, Blue*, Orange*, Green*, Brown*, Slate*, White*, Red*, Black*, Yellow*, Violet*, Rose*, Aqua*
Tensile Strength Elements and/or Armoring - Layer 2	Dielectric strength members
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

### Mechanical Characteristics Cable

Max. Tensile Strength, Short-Term, ≤12F	660 N (150 lbf)
Max. Tensile Strength, Short-Term, >12F	1320 N (300 lbf)
Max. Tensile Strength, Long-Term, ≤12F	200 N (45 lbf)
Max. Tensile Strength, Long-Term, >12F	400 N (90 lbf)
Nominal Outer Diameter	7.35 mm (0.29 in)
Weight	47.0 kg/km (28.88 lb/1000 ft)
Min. Bend Radius Installation	110.25 mm (4.34 in)
Min. Bend Radius Operation	73.5 mm (2.89 in)

# MIC<sup>®</sup> Tight-Buffered Cable, Riser

24 F, 50 µm multimode (OM3)



## Fiber Specifications

Optical Characteristics (cabled)	
Fiber Core Diameter	50 µm
Fiber Category	OM3
Fiber Code	T
Performance Option Code	80
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	300 m / -
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -

## Ordering Information

REF# CS-082

Part Number	024T81-33180-24
Product Description	MIC <sup>®</sup> Tight-Buffered Cable, Riser, 24 F, 50 µm multimode (OM3)
EAN Code	4056418179124



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# MIC® Tight-Buffered Cable, Plenum

12 F, 50 µm multimode (OM3)

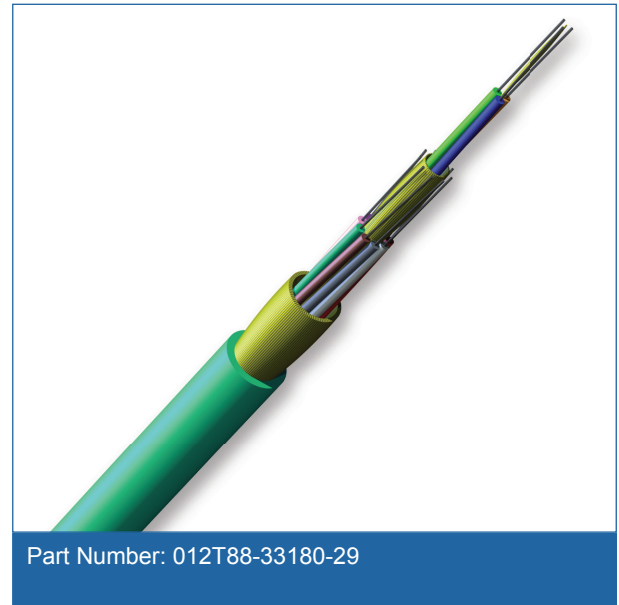
REF# CS-083

CORNING

Corning MIC® plenum cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900 µm buffered fibers to allow easy, consistent stripping and to facilitate termination. The fibers are surrounded by dielectric strength members and protected by a flame-retardant outer jacket.

The all-dielectric cable construction requires no grounding or bonding. MIC plenum cables are ideal for routing inside buildings, within plenum areas and riser shafts, to the telecommunications rooms and workstations. The MIC plenum cables meet the application requirements of the National Electrical Code® (NEC®) Article 770 and are OFNP and FT-6 listed.

*This cable is available in 12 different jacket colors – blue, orange, green, brown, slate, white, red, black, yellow, violet, rose and aqua. The colored jacket allows for easy visual identification of the cables. The standard jacket color will be determined by the dominant fiber type in the cable and will use the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.*



## Features and Benefits

### 900 µm Buffered Fibers

Easy, consistent stripping

### All-dielectric construction

Requires no grounding or bonding

### Flame-retardant jacket

Rugged and durable

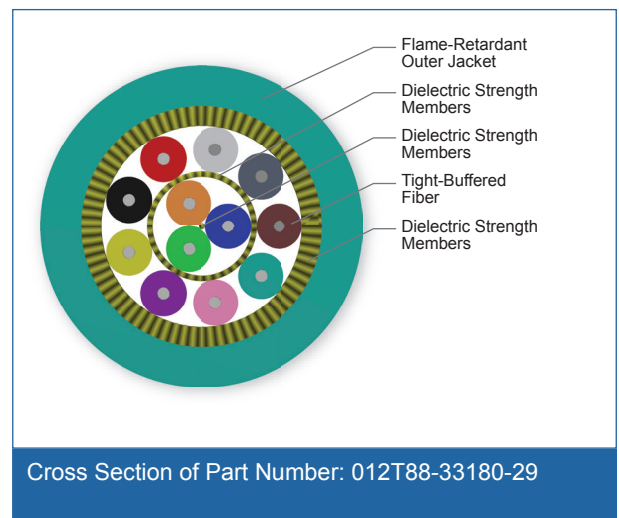
## Standards

### Listings

National Electrical Code® (NEC®) OFNP, FT-6

### Design and Test Criteria

NFPA 262 and CSA FT-6 (for plenum, riser and general building applications); ICEA S-83-596



# MIC<sup>®</sup> Tight-Buffered Cable, Plenum

12 F, 50 µm multimode (OM3)

CORNING

## Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Tight-Buffered
Product Type	Distribution
Flame Rating	Plenum (OFNP)
Fiber Category	50 µm MM (OM3)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	0 °C to 60 °C (32 °F to 140 °F)
Operation	0 °C to 70 °C (32 °F to 158 °F)

Cable Design	
Central Element	Yarn
Fiber Count	12
Tight Buffer Color	Blue, Orange, Green
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Tight Buffer Color, Layer 2	Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tensile Strength Elements and/or Armoring - Layer 2	Dielectric strength members
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

Mechanical Characteristics Cable	
Max. Tensile Strength, Short-Term, ≤12F	440 N (100 lbf)
Max. Tensile Strength, Short-Term, >12F	660 N (150 lbf)
Max. Tensile Strength, Long-Term, ≤12F	132 N (30 lbf)
Max. Tensile Strength, Long-Term, >12F	200 N (45 lbf)
Nominal Outer Diameter	6.0 mm (0.24 in)
Weight	33.8 kg/km (23 lb/1000 ft)
Min. Bend Radius Operation	60 mm (2.4 in)
Min. Bend Radius Installation	92 mm (3.6 in)

# MIC<sup>®</sup> Tight-Buffered Cable, Plenum

12 F, 50 µm multimode (OM3)



## Fiber Specifications

Optical Characteristics (cabled)	
Fiber Core Diameter	50 µm
Fiber Category	OM3
Fiber Code	T
Performance Option Code	80
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	300 m / -
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -

## Ordering Information

**REF# CS-083**

Part Number	012T88-33180-29
Product Description	MIC <sup>®</sup> Tight-Buffered Cable, Plenum, 12 F, 50 µm multimode (OM3)
EAN Code	4056418181424



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# MIC<sup>®</sup> Tight-Buffered Cable, Plenum

24 F, 50 μm multimode (OM3)

CORNING

REF# CS-084

Corning MIC<sup>®</sup> plenum cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900 μm buffered fibers to allow easy, consistent stripping and to facilitate termination. The fibers are surrounded by dielectric strength members and protected by a flame-retardant outer jacket.

The all-dielectric cable construction requires no grounding or bonding. MIC plenum cables are ideal for routing inside buildings, within plenum areas and riser shafts, to the telecommunications rooms and workstations. The MIC plenum cables meet the application requirements of the National Electrical Code<sup>®</sup> (NEC<sup>®</sup>) Article 770 and are OFNP and FT-6 listed.

*This cable is available in 12 different jacket colors – blue, orange, green, brown, slate, white, red, black, yellow, violet, rose and aqua. The colored jacket allows for easy visual identification of the cables. The standard jacket color will be determined by the dominant fiber type in the cable and will use the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.*

## Features and Benefits

### 900 μm Buffered Fibers

Easy, consistent stripping

### All-dielectric construction

Requires no grounding or bonding

### Flame-retardant jacket

Rugged and durable

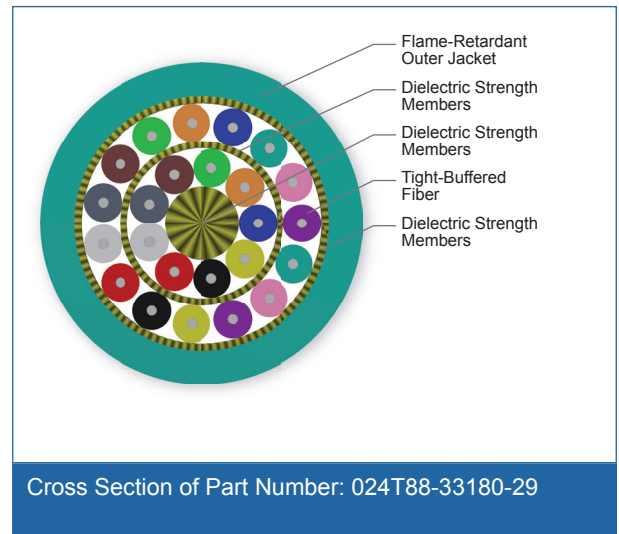
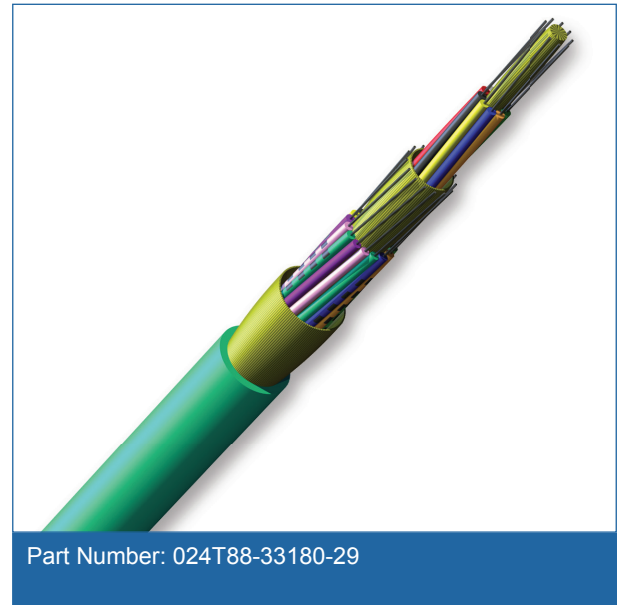
## Standards

### Listings

National Electrical Code<sup>®</sup>  
(NEC<sup>®</sup>) OFNP, FT-6

### Design and Test Criteria

NFPA 262 and CSA FT-6  
(for plenum, riser and general building applications);  
ICEA S-83-596



# MIC<sup>®</sup> Tight-Buffered Cable, Plenum

24 F, 50 µm multimode (OM3)

CORNING

## Specifications

### General Specifications

Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Tight-Buffered
Product Type	Distribution
Flame Rating	Plenum (OFNP)
Fiber Category	50 µm MM (OM3)

### Temperature Range

Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	0 °C to 60 °C (32 °F to 140 °F)
Operation	0 °C to 70 °C (32 °F to 158 °F)

### Cable Design

Central Element	Yarn
Fiber Count	24
Tight Buffer Color	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Tight Buffer Color, Layer 2	Violet, Rose, Aqua, Blue*, Orange*, Green*, Brown*, Slate*, White*, Red*, Black*, Yellow*, Violet*, Rose*, Aqua*
Tensile Strength Elements and/or Armoring - Layer 2	Dielectric strength members
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

### Mechanical Characteristics Cable

Max. Tensile Strength, Short-Term, ≤12F	440 N (100 lbf)
Max. Tensile Strength, Short-Term, >12F	660 N (150 lbf)
Max. Tensile Strength, Long-Term, ≤12F	132 N (30 lbf)
Max. Tensile Strength, Long-Term, >12F	200 N (45 lbf)
Nominal Outer Diameter	7.7 mm (0.31 in)
Weight	58.3 kg/km (39 lb/1000 ft)
Min. Bend Radius Operation	77 mm (3.1 in)
Min. Bend Radius Installation	117 mm (4.6 in)

# MIC<sup>®</sup> Tight-Buffered Cable, Plenum

24 F, 50 µm multimode (OM3)



## Fiber Specifications

Optical Characteristics (cabled)	
Fiber Core Diameter	50 µm
Fiber Category	OM3
Fiber Code	T
Performance Option Code	80
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	300 m / -
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -

## Ordering Information

REF# CS-084

Part Number	024T88-33180-29
Product Description	MIC <sup>®</sup> Tight-Buffered Cable, Plenum, 24 F, 50 µm multimode (OM3)
EAN Code	4056418181479



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# MIC® Tight-Buffered, Interlocking Armored Cable, Plenum

12 F, 50 µm multimode (OM3)

REF# CS-085

CORNING

Corning MIC® interlocking armored plenum cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use individually jacketed TBI® buffered fibers enabling easy, consistent stripping and facilitating termination. The fibers are grouped into jacketed subunits and surrounded by a dielectric central member.

The core is protected by a flexible, spirally wrapped, aluminum interlocking armor that offers easy, one-step installation and up to seven times the crush protection of unarmored cables. With a flame-retardant outer jacket, this cable is particularly useful for heavy traffic or more challenging mechanical exposure conditions and applications requiring extra rugged cables.

*This cable is available in 12 different jacket colors – blue, orange, green, brown, slate, white, red, black, yellow, violet, rose and aqua. The colored jacket allows for easy visual identification of the cables. The standard jacket color will be determined by the dominant fiber type in the cable and will use the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.*

## Features and Benefits

### Flexible, interlocking armor design

Seven times crush protection compared to unarmored cables

### TBI buffered fibers

Easy, consistent stripping

### Flame-retardant jacket

Rugged and durable

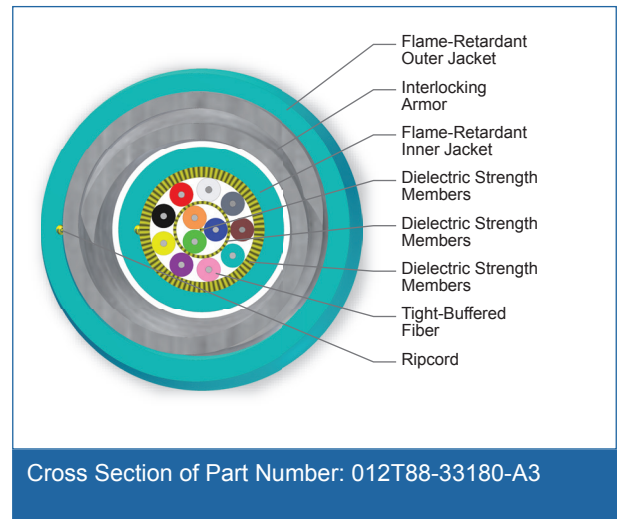
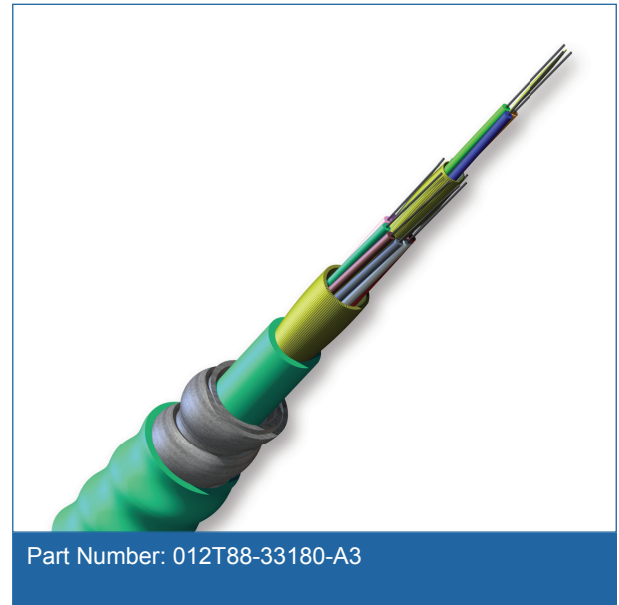
## Standards

### Approvals and Listings

National Electrical Code® (NEC®) OFCP, CSA FT-6, ICEA S-83-596

### Flame Resistance

NFPA 262 (for plenum, riser and general building applications)



# MIC<sup>®</sup> Tight-Buffered, Interlocking Armored Cable, Plenum

12 F, 50 µm multimode (OM3)

CORNING

## Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Tight-Buffered
Product Type	Interlocking armor
Flame Rating	Plenum (OFCP)
Fiber Category	50 µm MM (OM3)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	0 °C to 60 °C (32 °F to 140 °F)
Operation	0 °C to 70 °C (32 °F to 158 °F)

Cable Design	
Central Element	Yarn
Fiber Count	12
Tight Buffer Color	Blue, Orange, Green
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Tight Buffer Color, Layer 2	Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tensile Strength Elements and/or Armoring - Layer 2	Dielectric strength members
Number of Ripcords	2
Inner Jacket Material	Flame-retardant
Tensile Strength Elements and/or Armoring - Layer 3	Interlocking armor
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

Mechanical Characteristics Cable	
Nominal Outer Diameter	0.50 in (12.6 mm)
Nominal Inner Cable Diameter	6.1 mm (0.24 in)
Min. Bend Radius Operation	5.0 in (126 mm)
Weight	151 kg/km (105 lb/1000 ft)
Max. Tensile Strength, Short-Term	440 N (100 lbf)

# MIC<sup>®</sup> Tight-Buffered, Interlocking Armored Cable, Plenum

12 F, 50 µm multimode (OM3)

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## Mechanical Characteristics Cable

Max. Tensile Strength, Long-Term	132 N (30 lbf)
Min. Bend Radius Installation	189 mm (7.4 in)

## Fiber Specifications

### Optical Characteristics (cabled)

Fiber Core Diameter	50 µm
Fiber Category	OM3
Fiber Code	T
Performance Option Code	80
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	300 m / -
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -

## Ordering Information

REF# CS-085

Part Number	012T88-33180-A3
Product Description	MIC <sup>®</sup> Tight-Buffered, Interlocking Armored Cable, Plenum, 12 F, 50 µm multimode (OM3)
EAN Code	4056418181462



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# MIC® Tight-Buffered, Interlocking Armored Cable, Plenum

24 F, 50 µm multimode (OM3)

REF# CS-086

Corning MIC® interlocking armored plenum cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use individually jacketed TBII® buffered fibers enabling easy, consistent stripping and facilitating termination. The fibers are grouped into jacketed subunits and surrounded by a dielectric central member.

The core is protected by a flexible, spirally wrapped, aluminum interlocking armor that offers easy, one-step installation and up to seven times the crush protection of unarmored cables. With a flame-retardant outer jacket, this cable is particularly useful for heavy traffic or more challenging mechanical exposure conditions and applications requiring extra rugged cables.

*This cable is available in 12 different jacket colors – blue, orange, green, brown, slate, white, red, black, yellow, violet, rose and aqua. The colored jacket allows for easy visual identification of the cables. The standard jacket color will be determined by the dominant fiber type in the cable and will use the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.*

## Features and Benefits

### Flexible, interlocking armor design

Seven times crush protection compared to unarmored cables

### TBII buffered fibers

Easy, consistent stripping

### Flame-retardant jacket

Rugged and durable

## Standards

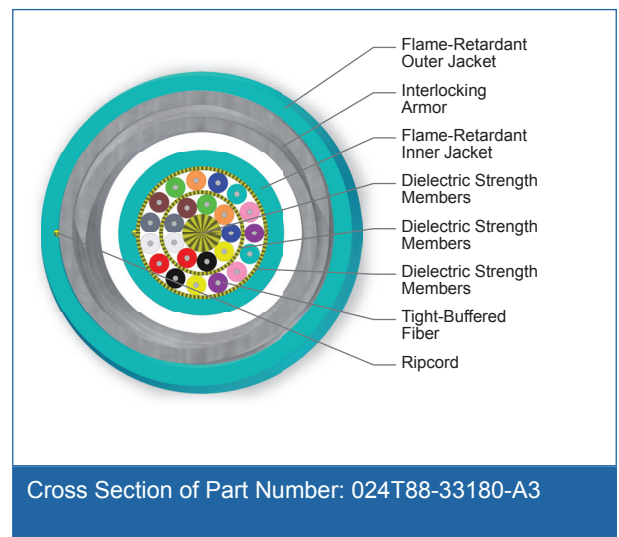
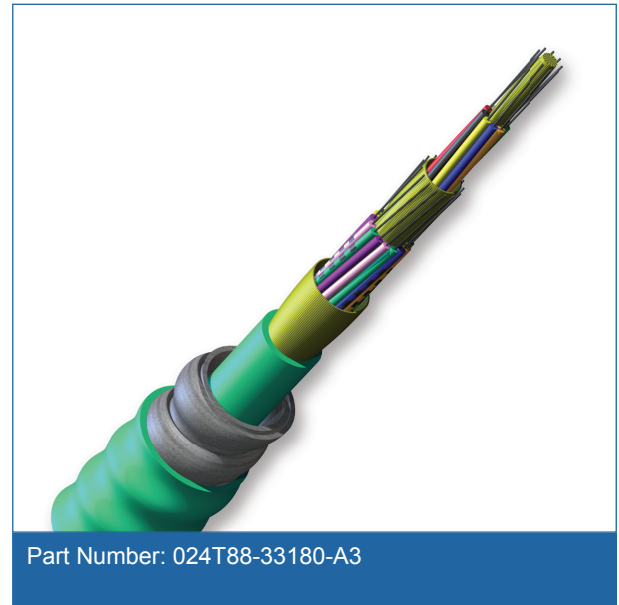
### Approvals and Listings

National Electrical Code® (NEC®) OFCP, CSA FT-6, ICEA S-83-596

### Flame Resistance

NFPA 262 (for plenum, riser and general building applications)

CORNING



# MIC<sup>®</sup> Tight-Buffered, Interlocking Armored Cable, Plenum

24 F, 50 µm multimode (OM3)

CORNING

## Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Tight-Buffered
Product Type	Interlocking armor
Flame Rating	Plenum (OFCP)
Fiber Category	50 µm MM (OM3)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	0 °C to 60 °C (32 °F to 140 °F)
Operation	0 °C to 70 °C (32 °F to 158 °F)

Cable Design	
Central Element	Yarn
Fiber Count	24
Tight Buffer Color	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Tight Buffer Color, Layer 2	Violet, Rose, Aqua, Blue*, Orange*, Green*, Brown*, Slate*, White*, Red*, Black*, Yellow*, Violet*, Rose*, Aqua*
Tensile Strength Elements and/or Armoring - Layer 2	Dielectric strength members
Number of Ripcords	2
Inner Jacket Material	Flame-retardant
Tensile Strength Elements and/or Armoring - Layer 3	Interlocking armor
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

Mechanical Characteristics Cable	
Nominal Inner Cable Diameter	7.8 mm (0.31 in)
Nominal Outer Diameter	14.3 mm (0.56 in)
Weight	197 kg/km (136 lb/1000 ft)
Max. Tensile Strength, Short-Term	660 N (150 lbf)
Max. Tensile Strength, Long-Term	200 N (45 lbf)



# MIC<sup>®</sup> Tight-Buffered, Interlocking Armored Cable, Plenum

24 F, 50 µm multimode (OM3)



## Mechanical Characteristics Cable

Min. Bend Radius Installation	215 mm (8.5 in)
Min. Bend Radius Operation	143 mm (5.6 in)

## Fiber Specifications

### Optical Characteristics (cabled)

Fiber Core Diameter	50 µm
Fiber Category	OM3
Fiber Code	T
Performance Option Code	80
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	300 m / -
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -

## Ordering Information

REF# CS-086

Part Number	024T88-33180-A3
Product Description	MIC <sup>®</sup> Tight-Buffered, Interlocking Armored Cable, Plenum, 24 F, 50 µm multimode (OM3)
EAN Code	4056418181554



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# MIC® Tight-Buffered Cable, Plenum

12 F, 50 µm multimode (OM4)

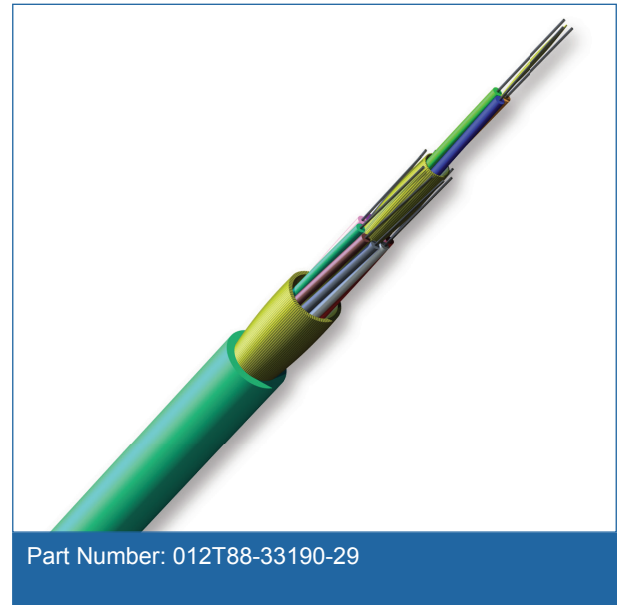
REF# CS-087

CORNING

Corning MIC® plenum cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900 µm buffered fibers to allow easy, consistent stripping and to facilitate termination. The fibers are surrounded by dielectric strength members and protected by a flame-retardant outer jacket.

The all-dielectric cable construction requires no grounding or bonding. MIC plenum cables are ideal for routing inside buildings, within plenum areas and riser shafts, to the telecommunications rooms and workstations. The MIC plenum cables meet the application requirements of the National Electrical Code® (NEC®) Article 770 and are OFNP and FT-6 listed.

*This cable is available in 12 different jacket colors – blue, orange, green, brown, slate, white, red, black, yellow, violet, rose and aqua. The colored jacket allows for easy visual identification of the cables. The standard jacket color will be determined by the dominant fiber type in the cable and will use the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.*



## Features and Benefits

### 900 µm Buffered Fibers

Easy, consistent stripping

### All-dielectric construction

Requires no grounding or bonding

### Flame-retardant jacket

Rugged and durable

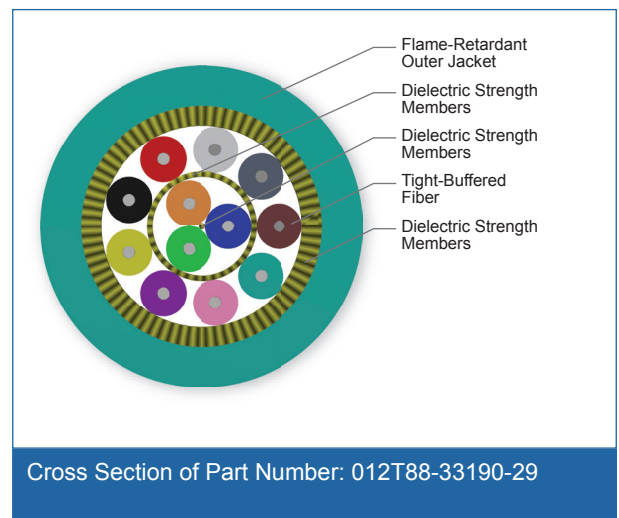
## Standards

### Listings

National Electrical Code® (NEC®) OFNP, FT-6

### Design and Test Criteria

NFPA 262 and CSA FT-6 (for plenum, riser and general building applications); ICEA S-83-596



# MIC<sup>®</sup> Tight-Buffered Cable, Plenum

12 F, 50 µm multimode (OM4)

CORNING

## Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Tight-Buffered
Product Type	Distribution
Flame Rating	Plenum (OFNP)
Fiber Category	50 µm MM (OM4)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	0 °C to 60 °C (32 °F to 140 °F)
Operation	0 °C to 70 °C (32 °F to 158 °F)

Cable Design	
Central Element	Yarn
Fiber Count	12
Tight Buffer Color	Blue, Orange, Green
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Tight Buffer Color, Layer 2	Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tensile Strength Elements and/or Armoring - Layer 2	Dielectric strength members
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

Mechanical Characteristics Cable	
Max. Tensile Strength, Short-Term, ≤12F	440 N (100 lbf)
Max. Tensile Strength, Short-Term, >12F	660 N (150 lbf)
Max. Tensile Strength, Long-Term, ≤12F	132 N (30 lbf)
Max. Tensile Strength, Long-Term, >12F	200 N (45 lbf)
Nominal Outer Diameter	6.0 mm (0.24 in)
Weight	33.8 kg/km (23 lb/1000 ft)
Min. Bend Radius Operation	60 mm (2.4 in)
Min. Bend Radius Installation	92 mm (3.6 in)

# MIC<sup>®</sup> Tight-Buffered Cable, Plenum

12 F, 50 µm multimode (OM4)



## Fiber Specifications

Optical Characteristics (cabled)	
Fiber Core Diameter	50 µm
Fiber Category	OM4
Fiber Code	T
Performance Option Code	90
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	550 m / -
Min. Overfilled Launch (OFL) Bandwidth	3500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	4700 MHz*km / -

## Ordering Information

REF# CS-087

Part Number	012T88-33190-29
Product Description	MIC <sup>®</sup> Tight-Buffered Cable, Plenum, 12 F, 50 µm multimode (OM4)
EAN Code	4056418180786



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# MIC® Tight-Buffered Cable, Plenum

24 F, 50 µm multimode (OM4)

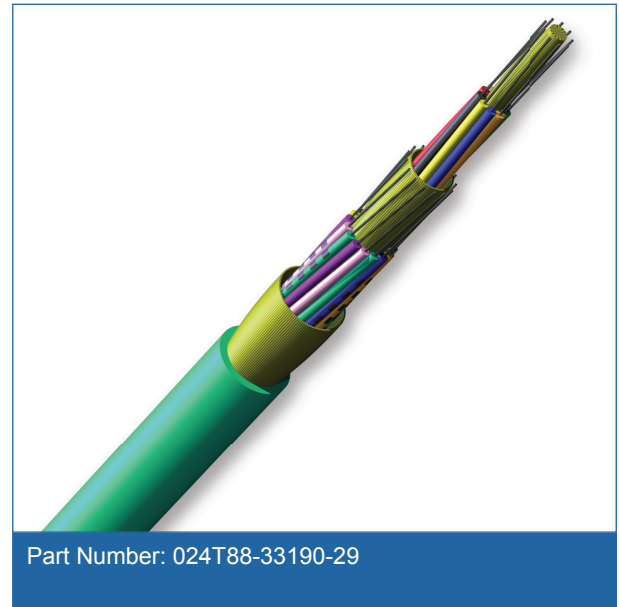
CORNING

REF# CS-088

Corning MIC® plenum cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900 µm buffered fibers to allow easy, consistent stripping and to facilitate termination. The fibers are surrounded by dielectric strength members and protected by a flame-retardant outer jacket.

The all-dielectric cable construction requires no grounding or bonding. MIC plenum cables are ideal for routing inside buildings, within plenum areas and riser shafts, to the telecommunications rooms and workstations. The MIC plenum cables meet the application requirements of the National Electrical Code® (NEC®) Article 770 and are OFNP and FT-6 listed.

*This cable is available in 12 different jacket colors – blue, orange, green, brown, slate, white, red, black, yellow, violet, rose and aqua. The colored jacket allows for easy visual identification of the cables. The standard jacket color will be determined by the dominant fiber type in the cable and will use the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.*



Part Number: 024T88-33190-29

## Features and Benefits

### 900 µm Buffered Fibers

Easy, consistent stripping

### All-dielectric construction

Requires no grounding or bonding

### Flame-retardant jacket

Rugged and durable

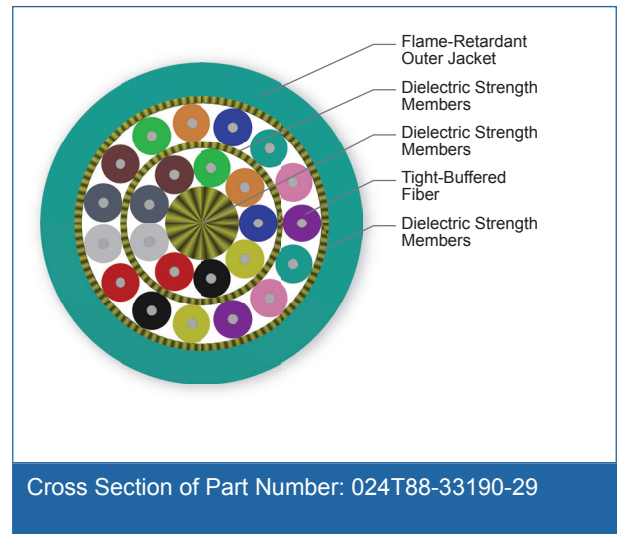
## Standards

### Listings

National Electrical Code® (NEC®) OFNP, FT-6

### Design and Test Criteria

NFPA 262 and CSA FT-6 (for plenum, riser and general building applications); ICEA S-83-596



Cross Section of Part Number: 024T88-33190-29

# MIC<sup>®</sup> Tight-Buffered Cable, Plenum

24 F, 50 µm multimode (OM4)

CORNING

## Specifications

### General Specifications

Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Tight-Buffered
Product Type	Distribution
Flame Rating	Plenum (OFNP)
Fiber Category	50 µm MM (OM4)

### Temperature Range

Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	0 °C to 60 °C (32 °F to 140 °F)
Operation	0 °C to 70 °C (32 °F to 158 °F)

### Cable Design

Central Element	Yarn
Fiber Count	24
Tight Buffer Color	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Tight Buffer Color, Layer 2	Violet, Rose, Aqua, Blue*, Orange*, Green*, Brown*, Slate*, White*, Red*, Black*, Yellow*, Violet*, Rose*, Aqua*
Tensile Strength Elements and/or Armoring - Layer 2	Dielectric strength members
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

### Mechanical Characteristics Cable

Max. Tensile Strength, Short-Term, ≤12F	440 N (100 lbf)
Max. Tensile Strength, Short-Term, >12F	660 N (150 lbf)
Max. Tensile Strength, Long-Term, ≤12F	132 N (30 lbf)
Max. Tensile Strength, Long-Term, >12F	200 N (45 lbf)
Nominal Outer Diameter	7.7 mm (0.31 in)
Weight	58.3 kg/km (39 lb/1000 ft)
Min. Bend Radius Operation	77 mm (3.1 in)
Min. Bend Radius Installation	117 mm (4.6 in)

# MIC<sup>®</sup> Tight-Buffered Cable, Plenum

24 F, 50 µm multimode (OM4)



## Fiber Specifications

Optical Characteristics (cabled)	
Fiber Core Diameter	50 µm
Fiber Category	OM4
Fiber Code	T
Performance Option Code	90
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	550 m / -
Min. Overfilled Launch (OFL) Bandwidth	3500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	4700 MHz*km / -

## Ordering Information REF# CS-088

Part Number	024T88-33190-29
Product Description	MIC <sup>®</sup> Tight-Buffered Cable, Plenum, 24 F, 50 µm multimode (OM4)
EAN Code	4056418180366



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# ALTOS® Loose Tube, Gel-Free Cable

12 F, 50 µm multimode (OM3)

CORNING

REF# CS-089

Corning ALTOS® all-dielectric gel-free cables are designed for outdoor and limited indoor use for campus backbones in lashed aerial and duct installations. The loose tube gel-free design is fully waterblocked using craft-friendly, water-swellable materials, which means cable access is simple and no clean up is required. The flexible craft-friendly buffer tubes are easy to route in closures, and the SZ-stranded, loose tube design isolates fibers from installation and environmental rigors while allowing easy mid-span access. The all-dielectric cable construction requires no bonding or grounding, and these cables have a medium-density polyethylene jacket that is rugged, durable and easy to strip.

## Features and Benefits

### Gel-free waterblocking technology

Craft-friendly cable preparation

### Medium-density polyethylene jacket

Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)

### All-dielectric construction

Requires no grounding or bonding

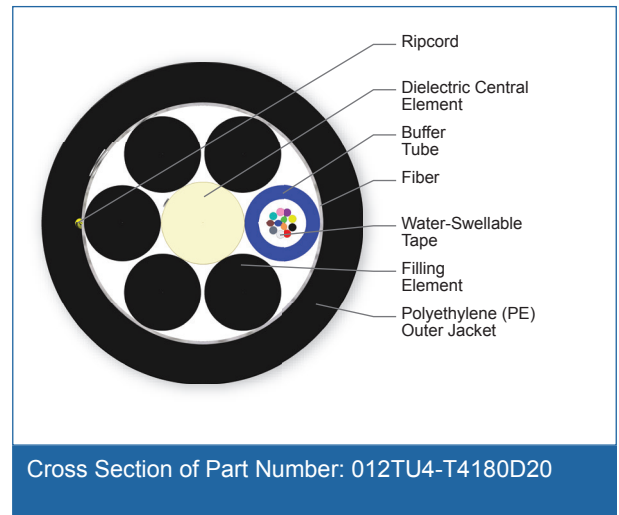
## Standards

### Common Installations

Outdoor lashed aerial and duct; indoor when installed according to National Electrical Code® (NEC®) Article 770

### Design and Test Criteria

ANSI/ICEA S-87-640



## Specifications

General Specifications	
Environment	Outdoor
Application	Aerial, Duct
Cable Type	Loose Tube



# ALTOS<sup>®</sup> Loose Tube, Gel-Free Cable

12 F, 50 μm multimode (OM3)

CORNING

## General Specifications

Product Type	Dielectric
Fiber Category	50 μm MM (OM3)

## Temperature Range

Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	-30 °C to 70 °C (-22 °F to 158 °F)
Operation	-40 °C to 70 °C (-40 °F to 158 °F)

## Cable Design

Central Element	Dielectric
Fiber Count	12
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Number of Tube Positions	6
Number of Active Tubes	1
Buffer Tube Color Coding	Blue
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Filling Elements	5
Tape	Water-swellable
Number of Ripcords	1
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black
Maximum Fibers per Tube	12

## Mechanical Characteristics Cable

Max. Tensile Strength, Short-Term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	890 N (200 lbf)
Weight	73 kg/km (49 lb/1000 ft)
Nominal Outer Diameter	10.5 mm (0.41 in)
Min. Bend Radius Installation	158 mm (6.2 in)
Min. Bend Radius Operation	105 mm (4.1 in)

# ALTOS® Loose Tube, Gel-Free Cable

12 F, 50 µm multimode (OM3)

CORNING

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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## Fiber Specifications

### Optical Characteristics (cabled)

Fiber Core Diameter	50 µm
Fiber Category	OM3
Fiber Code	T
Performance Option Code	80
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	3.0 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	300 m / -
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -

\* Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.

- Notes:
- 1) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.
  - 2) Improved attenuation and bandwidth options available.
  - 3) Bend-insensitive single-mode fibers available on request.
  - 4) Contact a Corning Customer Care Representative for additional information.

## Ordering Information

REF# CS-089

Part Number	012TU4-T4180D20
Product Description	ALTOS® Loose Tube, Gel-Free Cable, 12 F, 50 µm multimode (OM3)
EAN Code	4056418177199



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# ALTOS® Loose Tube, Gel-Free Cable

24 F, 50 µm multimode (OM3)

CORNING

REF# CS-090

Corning ALTOS® all-dielectric gel-free cables are designed for outdoor and limited indoor use for campus backbones in lashed aerial and duct installations. The loose tube gel-free design is fully waterblocked using craft-friendly, water-swellable materials, which means cable access is simple and no clean up is required. The flexible craft-friendly buffer tubes are easy to route in closures, and the SZ-stranded, loose tube design isolates fibers from installation and environmental rigors while allowing easy mid-span access. The all-dielectric cable construction requires no bonding or grounding, and these cables have a medium-density polyethylene jacket that is rugged, durable and easy to strip.

## Features and Benefits

### Gel-free waterblocking technology

Craft-friendly cable preparation

### Medium-density polyethylene jacket

Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)

### All-dielectric construction

Requires no grounding or bonding

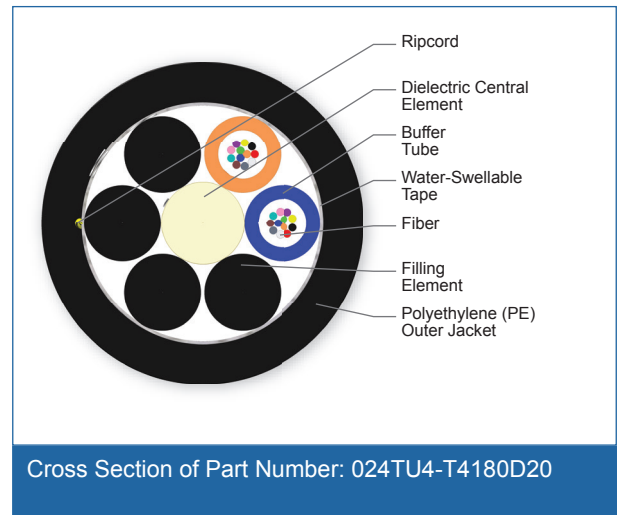
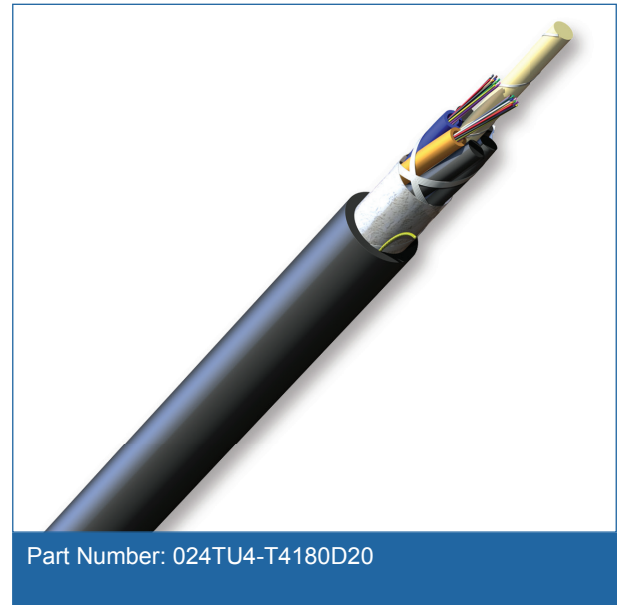
## Standards

### Common Installations

Outdoor lashed aerial and duct; indoor when installed according to National Electrical Code® (NEC®) Article 770

### Design and Test Criteria

ANSI/ICEA S-87-640



# ALTOS® Loose Tube, Gel-Free Cable

24 F, 50 µm multimode (OM3)

CORNING

## Specifications

General Specifications	
Environment	Outdoor
Application	Aerial, Duct
Cable Type	Loose Tube
Product Type	Dielectric
Fiber Category	50 µm MM (OM3)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	-30 °C to 70 °C (-22 °F to 158 °F)
Operation	-40 °C to 70 °C (-40 °F to 158 °F)

Cable Design	
Central Element	Dielectric
Fiber Count	24
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Number of Tube Positions	6
Number of Active Tubes	2
Buffer Tube Color Coding	Blue, Orange
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Filling Elements	4
Tape	Water-swellable
Number of Ripcords	1
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black
Maximum Fibers per Tube	12

Mechanical Characteristics Cable	
Max. Tensile Strength, Short-Term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	890 N (200 lbf)
Weight	73 kg/km (49 lb/1000 ft)
Nominal Outer Diameter	10.5 mm (0.41 in)

# ALTOS® Loose Tube, Gel-Free Cable

24 F, 50 µm multimode (OM3)

CORNING

## Mechanical Characteristics Cable

Min. Bend Radius Installation	158 mm (6.2 in)
Min. Bend Radius Operation	105 mm (4.1 in)

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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## Fiber Specifications

### Optical Characteristics (cabled)

Fiber Core Diameter	50 µm
Fiber Category	OM3
Fiber Code	T
Performance Option Code	80
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	3.0 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	300 m / -
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -

\* Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.

Notes: 1) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.

2) Improved attenuation and bandwidth options available.

3) Bend-insensitive single-mode fibers available on request.

4) Contact a Corning Customer Care Representative for additional information.

## Ordering Information

REF# CS-090

Part Number	024TU4-T4180D20
Product Description	ALTOS® Loose Tube, Gel-Free Cable, 24 F, 50 µm multimode (OM3)
EAN Code	4056418176192

# MIC<sup>®</sup> Tight-Buffered Cable, Riser

12 F, Single-mode (OS2)

REF# CS-091

CORNING

Corning MIC<sup>®</sup> riser cables are designed for use in riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900  $\mu\text{m}$  buffered fibers to enable easy, consistent stripping and facilitate termination. The fibers are surrounded by dielectric strength members and protected by a flame-retardant outer jacket.

The all-dielectric cable construction requires no grounding or bonding, making these cables ideal for routing inside buildings including riser shafts, to the telecommunications rooms and workstations. The MIC Riser Cables meet the application requirements of the National Electrical Code<sup>®</sup> (NEC<sup>®</sup>) Article 770 and the ICEA S-83-596 test criteria. They are OFNR and FT-4 listed for riser and general-purpose use.

*This cable is available in 12 different jacket colors – blue, orange, green, brown, slate, white, red, black, yellow, violet, rose and aqua. The colored jacket allows for easy visual identification of the cables. The standard jacket color will be determined by the dominant fiber type in the cable and will use the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.*

## Features and Benefits

### 900 $\mu\text{m}$ Buffered Fibers

Easy, consistent stripping

### All-dielectric construction

Requires no grounding or bonding

### Flame-retardant jacket

Rugged and durable

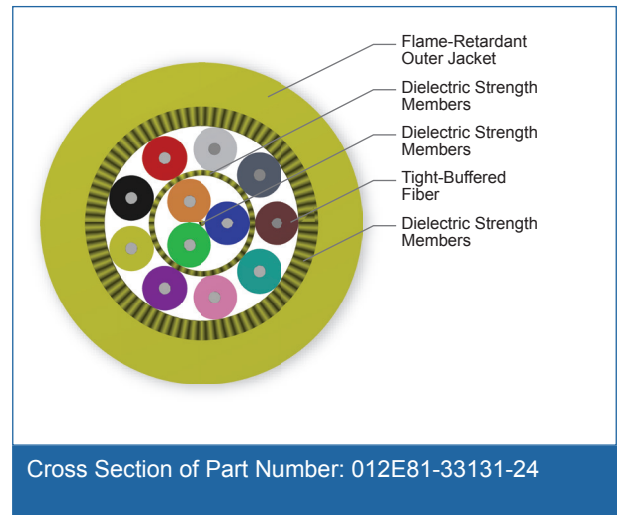
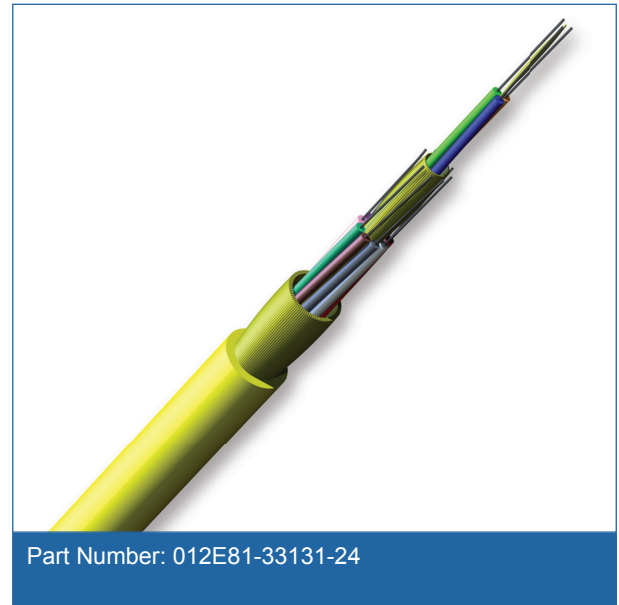
## Standards

### Listings

National Electrical Code<sup>®</sup>  
(NEC<sup>®</sup>) OFNR, FT-4

### Design and Test Criteria

UL-1666 and CSA FT-4 (for riser and general building applications); ICEA S-83-596



# MIC<sup>®</sup> Tight-Buffered Cable, Riser

12 F, Single-mode (OS2)

CORNING

## Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser
Cable Type	Tight-Buffered
Product Type	Distribution
Flame Rating	Riser (OFNR)
Fiber Category	Single-mode (OS2)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	-10 °C to 60 °C (14 °F to 140 °F)
Operation	-20 °C to 70 °C (-4 °F to 158 °F)

Cable Design	
Central Element	Yarn
Fiber Count	12
Tight Buffer Color	Blue, Orange, Green
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Tight Buffer Color, Layer 2	Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tensile Strength Elements and/or Armoring - Layer 2	Dielectric strength members
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Yellow

Mechanical Characteristics Cable	
Max. Tensile Strength, Short-Term, ≤12F	660 N (150 lbf)
Max. Tensile Strength, Short-Term, >12F	1320 N (300 lbf)
Max. Tensile Strength, Long-Term, ≤12F	200 N (45 lbf)
Max. Tensile Strength, Long-Term, >12F	400 N (90 lbf)
Nominal Outer Diameter	6.10 mm (0.24 in)
Weight	30.1 kg/km (20.23 lb/1000 ft)
Min. Bend Radius Installation	91.5 mm (3.60 in)
Min. Bend Radius Operation	61 mm (2.40 in)

# MIC<sup>®</sup> Tight-Buffered Cable, Riser

12 F, Single-mode (OS2)



## Fiber Specifications

Optical Characteristics (cabled)	
Fiber Name	SMF-28e <sup>®</sup> fiber
Fiber Category	G.652.D
Fiber Code	E
Performance Option Code	31
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.65 dB/km / 0.65 dB/km / 0.50 dB/km

## Ordering Information

REF# CS-091

Part Number	012E81-33131-24
Product Description	MIC <sup>®</sup> Tight-Buffered Cable, Riser, 12 F, Single-mode (OS2)
EAN Code	4056418191010



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# MIC<sup>®</sup> Tight-Buffered Cable, Riser

24 F, Single-mode (OS2)

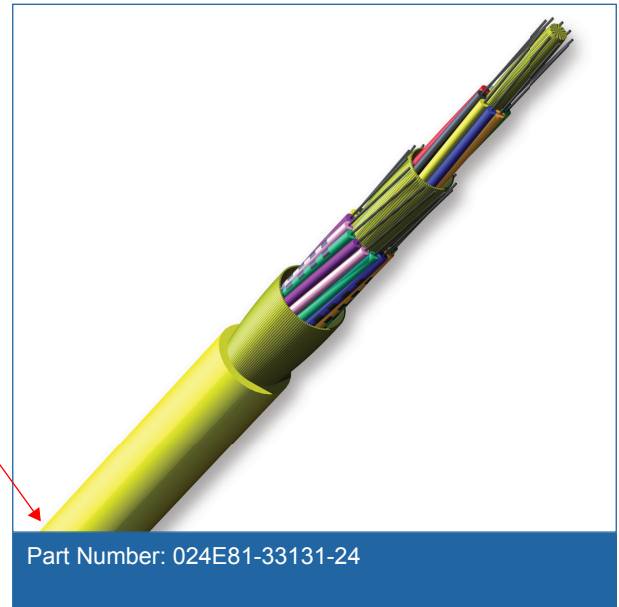
CORNING

REF# CS-092

Corning MIC<sup>®</sup> riser cables are designed for use in riser and general purpose environments for intrabuilding back-bone and horizontal installations. These multifiber cables use 900  $\mu$ m buffered fibers to enable easy, consistent stripping and facilitate termination. The fibers are surrounded by dielectric strength members and protected by a flame-retardant outer jacket.

The all-dielectric cable construction requires no grounding or bonding, making these cables ideal for routing inside buildings including riser shafts, to the telecommunications rooms and workstations. The MIC Riser Cables meet the application requirements of the National Electrical Code<sup>®</sup> (NEC<sup>®</sup>) Article 770 and the ICEA S-83-596 test criteria. They are OFNR and FT-4 listed for riser and general-purpose use.

*This cable is available in 12 different jacket colors – blue, orange, green, brown, slate, white, red, black, yellow, violet, rose and aqua. The colored jacket allows for easy visual identification of the cables. The standard jacket color will be determined by the dominant fiber type in the cable and will use the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.*



## Features and Benefits

### 900 $\mu$ m Buffered Fibers

Easy, consistent stripping

### All-dielectric construction

Requires no grounding or bonding

### Flame-retardant jacket

Rugged and durable

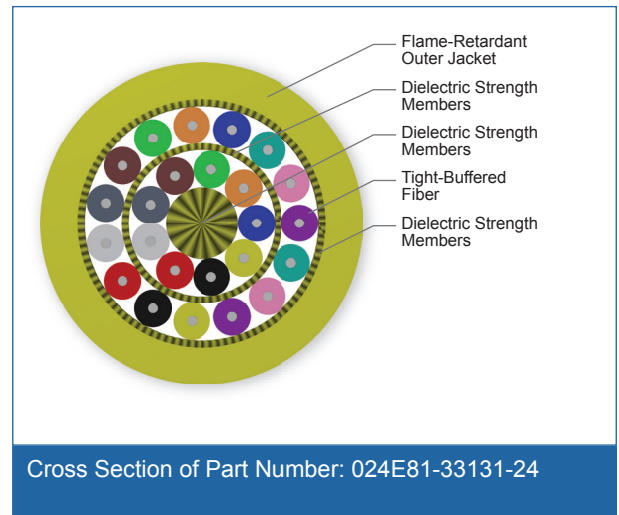
## Standards

### Listings

National Electrical Code<sup>®</sup>  
(NEC<sup>®</sup>) OFNR, FT-4

### Design and Test Criteria

UL-1666 and CSA FT-4 (for riser and general building applications); ICEA S-83-596



# ALTOS® Loose Tube, Gel-Free Cable

12 F, Single-mode (OS2)

CORNING

REF# CS-093

Corning ALTOS® all-dielectric gel-free cables are designed for outdoor and limited indoor use for backbones in lashed aerial and duct installations. The loose tube gel-free design is fully waterblocked using craft-friendly, water-swappable materials, which means cable access is simple and no clean up is required. The flexible craft-friendly buffer tubes are easy to route in closures, and the SZ-stranded, loose tube design isolates fibers from installation and environmental rigors while allowing easy mid-span access. The all-dielectric cable construction requires no bonding or grounding, and these cables have a medium-density polyethylene jacket that is rugged, durable and easy to strip.

## Features and Benefits

### Gel-free waterblocking technology

Craft-friendly cable preparation

### Medium-density polyethylene jacket

Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)

### All-dielectric construction

Requires no grounding or bonding

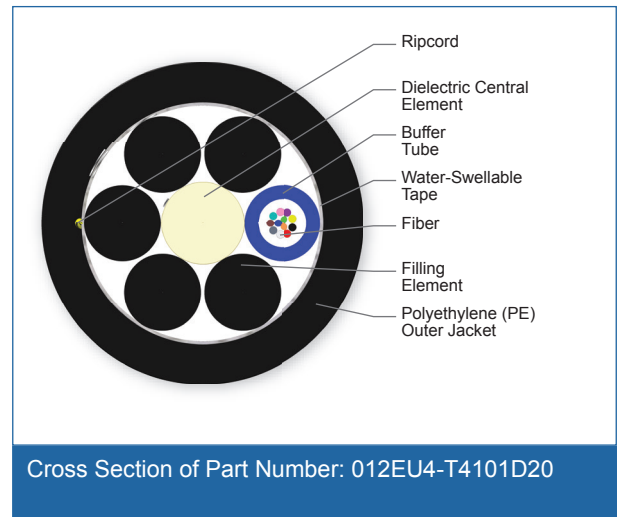
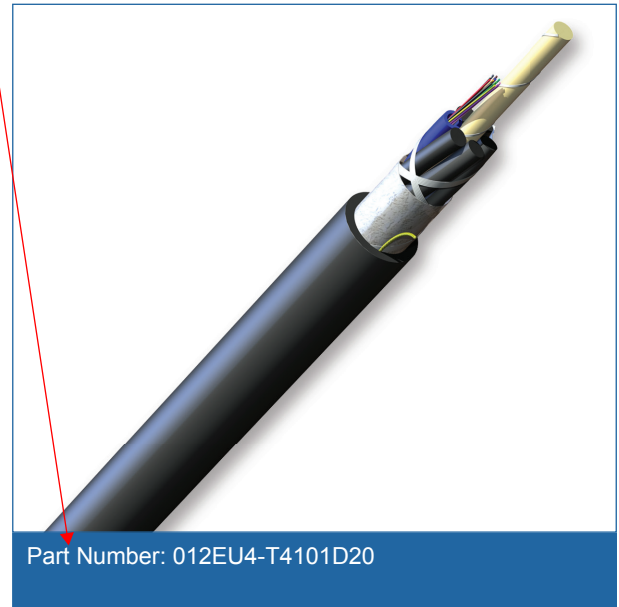
## Standards

### Common Installations

Outdoor lashed aerial and duct; indoor when installed according to National Electrical Code® (NEC®) Article 770

### Design and Test Criteria

ANSI/ICEA S-87-640



## Specifications

General Specifications	
Environment	Outdoor
Application	Aerial, Duct
Cable Type	Loose Tube

# ALTOS® Loose Tube, Gel-Free Cable

24 F, Single-mode (OS2)

CORNING

REF# CS-094

Corning Cable Systems ALTOS® All-Dielectric Gel-Free Cables are designed for outdoor and limited indoor use for campus backbones in lashed aerial and duct installations. The loose tube gel-free design is fully waterblocked using craft-friendly, water-swellable materials, which means cable access is simple and no clean up is required. The flexible craft-friendly buffer tubes are easy to route in closures and the SZ-stranded, loose tube design isolates fibers from installation and environmental rigors while allowing easy midspan access. The all-dielectric cable construction requires no bonding or grounding and these cables have a medium-density polyethylene jacket that is rugged, durable and easy to strip.

## Features and Benefits

### Gel-free waterblocking technology

Craft-friendly cable preparation

### Medium-density polyethylene jacket

Rugged, durable and easy to strip while providing superior protection against UV radiation, fungus, abrasion and other environmental factors

### All-dielectric construction

Requires no grounding or bonding

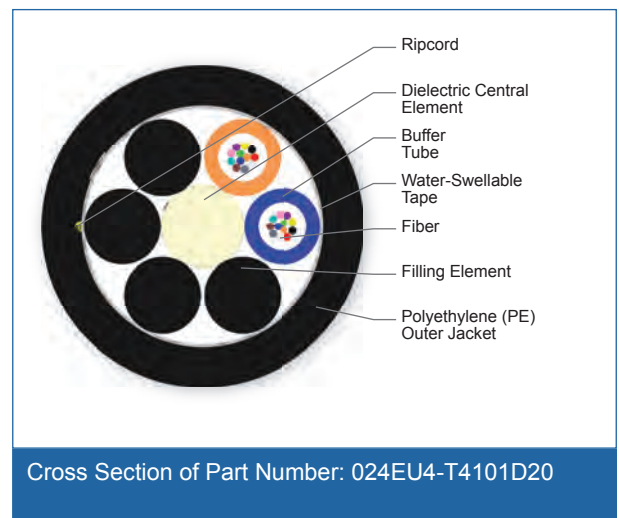
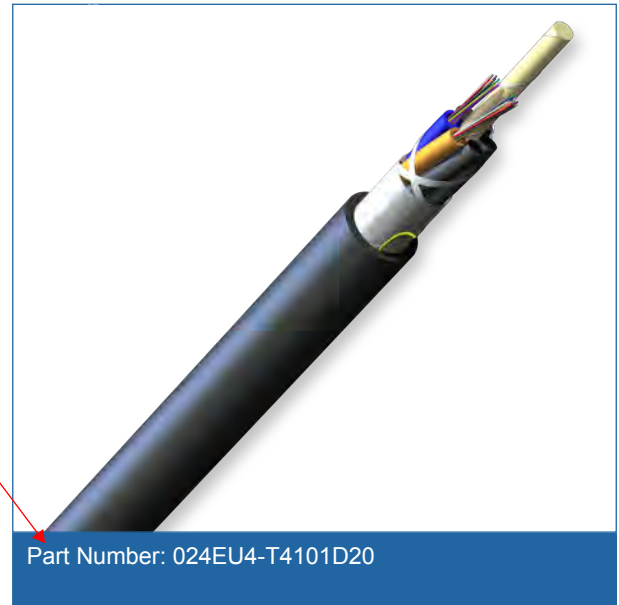
## Standards

### Common Installations

Outdoor lashed aerial and duct; indoor when installed according to National Electrical Code® (NEC®) Article 770

### Design and Test Criteria

ANSI/ICEA S-87-640



# ALTOS<sup>®</sup> Loose Tube, Gel-Free Cable

24 F, Single-mode (OS2)

CORNING

## Specifications

### General Specifications

Environment	Outdoor
Application	Aerial, Duct
Cable Type	Loose Tube
Product Type	Dielectric
Fiber Category	Single-mode (OS2)

### Temperature Range

Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	-30 °C to 70 °C (-22 °F to 158 °F)
Operation	-40 °C to 70 °C (-40 °F to 158 °F)

### Cable Design

Central Element	Dielectric
Fiber Count	24
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Number of Tube Positions	6
Number of Active Tubes	2
Buffer Tube Color Coding	Blue, Orange
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Filling Elements	4
Tape	Water-swellable
Number of Ripcords	1
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black

### Mechanical Characteristics Cable

Max. Tensile Strengths, Short-Term	2700 N (600 lbf)
Max. Tensile Strengths, Long-Term	890 N (200 lbf)
Weight	73 kg/km (49 lb/1000 ft)
Nominal Outer Diameter	10.5 mm (0.41 in)

# ALTOS® Loose Tube, Gel-Free Cable

24 F, Single-mode (OS2)

CORNING

## Mechanical Characteristics Cable

Min. Bend Radius Installation	158 mm (6.2 in)
Min. Bend Radius Operation	105 mm (4.1 in)

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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## Fiber Specifications

### Optical Characteristics (cabled)

Fiber Type	Single-mode
Fiber Core Diameter	8.2 µm
Fiber Category	OS2
Fiber Code	E
Performance Option Code	01
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km
Serial 1 Gigabit Ethernet	5000 m / - / -
Serial 10 Gigabit Ethernet	10000 m / - / 40000 m

\* ITU-T G.652 D compliant.

\* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions.

Notes: 1) Improved attenuation and bandwidth options available.  
2) Bend-insensitive single-mode fibers available on request.  
3) Contact a Corning Cable Systems Customer Care Representative for additional information.

## Ordering Information

REF# CS-094

Part Number	024EU4-T4101D20
Product Description	ALTOS® Loose Tube, Gel-Free Cable, 24 F, Single-mode (OS2)

# ALTOS<sup>®</sup> Loose Tube, Gel-Free Cable

24 F, Single-mode (OS2)

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## Notes



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# ALTOS® Loose Tube, Gel-Free Cable

48 F, Single-mode (OS2)

CORNING

REF# CS-095

Corning Cable Systems ALTOS® All-Dielectric Gel-Free Cables are designed for outdoor and limited indoor use for campus backbones in lashed aerial and duct installations. The loose tube gel-free design is fully waterblocked using craft-friendly, water-swellable materials, which means cable access is simple and no clean up is required. The flexible craft-friendly buffer tubes are easy to route in closures and the SZ-stranded, loose tube design isolates fibers from installation and environmental rigors while allowing easy midspan access. The all-dielectric cable construction requires no bonding or grounding and these cables have a medium-density polyethylene jacket that is rugged, durable and easy to strip.

## Features and Benefits

### Gel-free waterblocking technology

Craft-friendly cable preparation

### Medium-density polyethylene jacket

Rugged, durable and easy to strip while providing superior protection against UV radiation, fungus, abrasion and other environmental factors

### All-dielectric construction

Requires no grounding or bonding

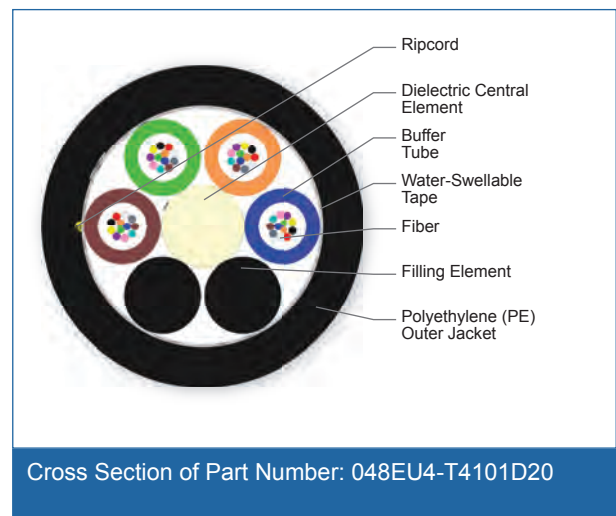
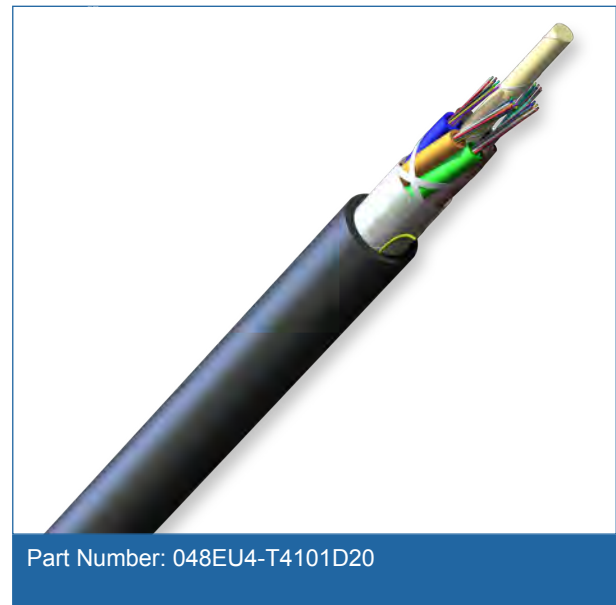
## Standards

### Common Installations

Outdoor lashed aerial and duct; indoor when installed according to National Electrical Code® (NEC®) Article 770

### Design and Test Criteria

ANSI/ICEA S-87-640



# ALTOS<sup>®</sup> Loose Tube, Gel-Free Cable

48 F, Single-mode (OS2)

CORNING

## Specifications

### General Specifications

Environment	Outdoor
Application	Aerial, Duct
Cable Type	Loose Tube
Product Type	Dielectric
Fiber Category	Single-mode (OS2)

### Temperature Range

Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	-30 °C to 70 °C (-22 °F to 158 °F)
Operation	-40 °C to 70 °C (-40 °F to 158 °F)

### Cable Design

Central Element	Dielectric
Fiber Count	48
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Number of Tube Positions	6
Number of Active Tubes	4
Buffer Tube Color Coding	Blue, Orange, Green, Brown
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Filling Elements	2
Tape	Water-swellable
Number of Ripcords	1
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black

### Mechanical Characteristics Cable

Max. Tensile Strengths, Short-Term	2700 N (600 lbf)
Max. Tensile Strengths, Long-Term	890 N (200 lbf)
Weight	73 kg/km (49 lb/1000 ft)
Nominal Outer Diameter	10.5 mm (0.41 in)



# ALTOS® Loose Tube, Gel-Free Cable

48 F, Single-mode (OS2)

CORNING

## Mechanical Characteristics Cable

Min. Bend Radius Installation	158 mm (6.2 in)
Min. Bend Radius Operation	105 mm (4.1 in)

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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## Fiber Specifications

### Optical Characteristics (cabled)

Fiber Type	Single-mode
Fiber Core Diameter	8.2 µm
Fiber Category	OS2
Fiber Code	E
Performance Option Code	01
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km
Serial 1 Gigabit Ethernet	5000 m / - / -
Serial 10 Gigabit Ethernet	10000 m / - / 40000 m

\* ITU-T G.652 D compliant.

\* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions.

Notes: 1) Improved attenuation and bandwidth options available.  
2) Bend-insensitive single-mode fibers available on request.  
3) Contact a Corning Cable Systems Customer Care Representative for additional information.

## Ordering Information

REF# CS-095

Part Number	048EU4-T4101D20
Product Description	ALTOS® Loose Tube, Gel-Free Cable, 48 F, Single-mode (OS2)

# ALTOS<sup>®</sup> Loose Tube, Gel-Free Cable

48 F, Single-mode (OS2)

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## Notes



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# Carlton Riser-Gard®

**Applications:** Riser and General Purpose Applications per Articles 770 and 800. Suitable for vertical runs in a shaft or between floors  
**UL Listed to 2024** • Maximum Flame Propagation 6.0 ft. Max. Value

REF# CS-096

## Standard Stock – Reels

## Standard Stock – Coils

(Overnight Shippable)

	Color	Part No.	Nom. I.D.	Nom. O.D.	Pull Tape	Reel Size (F x W)	Reel Length (ft.)	Wt. per 100 ft. (lbs.)
3/4"	Orange	DE4X1-1000	.83"	1.05"	Empty	36" x 24"	1000	9
	Orange	DE4X1-1000S	.83"	1.05"	Empty	36" x 24"	1000/Split	9
1"	Orange	DF4X1C-500R	1.03"	1.31"	900 lb.	48" x 24"	500	14
	Orange	DF4X1C-1000	1.03"	1.31"	900 lb.	48" x 32"	1000	14
	Orange	DF4X1C-1500	1.03"	1.31"	Empty	48" x 32"	1500	14
	Orange	DF4X1C-1500	1.03"	1.31"	900 lb.	48" x 32"	1500	14
	Orange	DF4X1C-1500S	1.03"	1.31"	Empty	48" x 32"	1500/Split	14
	Orange	DF4X1C-2700	1.03"	1.31"	900 lb.	48" x 48"	2700	14
	Orange	DF4X1C-5200	1.03"	1.31"	900 lb.	65" x 46"	5200	14
	Orange	DF4X1C-7000	1.03"	1.31"	900 lb.	72" x 44"	7000	14
	Orange	DF4X1C-8000	1.03"	1.31"	900 lb.	82" x 41"	8000	14
	Orange	DF4X1C-9400	1.03"	1.31"	900 lb.	84" x 44"	9400	14
1 1/4"	Orange	DG4X1C-500R	1.38"	1.66"	900 lb.	48" x 32"	500	17
	Orange	DG4X1-900	1.38"	1.66"	900 lb.	48" x 32"	900	17
	Orange	DG4X1C-900	1.38"	1.66"	900 lb.	48" x 32"	900	17
	Orange	DG4X1-900S	1.38"	1.66"	Empty	48" x 32"	900/Split	17
	Orange	DG4X1C-1600	1.38"	1.66"	900 lb.	48" x 48"	1600	17
	Orange	DG4X1C-3200	1.38"	1.66"	900 lb.	65" x 48"	3200	17
	Orange	DG4X1C-4500	1.38"	1.66"	900 lb.	72" x 44"	4500	17
	Orange	DG4X1C-5600	1.38"	1.66"	900 lb.	84" x 44"	5600	17
1 1/2"	Orange	DG4X1C-6500	1.38"	1.66"	900 lb.	82" x 41"	6500	17
	Orange	DH4X1-750S	1.57"	1.90"	Empty	48" x 32"	750/Split	22
	Orange	DH4X1C-1200	1.57"	1.90"	900 lb.	48" x 48"	1200	22
	Orange	DH4X1C-4000	1.57"	1.90"	900 lb.	82" x 41"	4000	22
2"	Orange	DH4X1C-4500	1.57"	1.90"	900 lb.	84" x 44"	4500	22
	Orange	DJ4X1-500S	2.02"	2.37"	Empty	48" x 32"	500/Split	26
	Orange	DJ4X1C-700	2.02"	2.37"	900 lb.	48" x 48"	700	26
	Orange	DJ4X1C-2000	2.02"	2.37"	900 lb.	82" x 41"	2000	26
Orange	DJ4X1C-2800	2.02"	2.37"	900 lb.	96" x 44"	2800	26	

	Color	Part No.	Nom. I.D.	Nom. O.D.	Pull Tape	Coil Length (ft.)	Wt. per 100 ft. (lbs.)
3/4"	Orange	DE4X1-350	.83"	1.04"	Empty	350	9
	Orange	DE4X1-350S	.83"	1.04"	Empty	350/Split	9
1"	Orange	DF4X1-250	1.05"	1.31"	Empty	250	14
	Orange	DF4X1C-250	1.05"	1.31"	900 lb.	250	14
	Orange	DF4X1-250S	1.05"	1.31"	Empty	250/Split	14
1 1/4"	Orange	DF4X1C-500	1.05"	1.31"	900 lb.	500	14
	Orange	DG4X1-200	1.38"	1.65"	Empty	200	17
	Orange	DG4X1C-200	1.38"	1.65"	900 lb.	200	17
	Orange	DG4X1-200S	1.38"	1.65"	Empty	200/Split	17
1 1/2"	Orange	DG4X1C-500	1.38"	1.65"	900 lb.	500	17
	Orange	DH4X1C-150	1.55"	1.88"	900 lb.	150	22
2"	Orange	DH4X1-150S	1.55"	1.88"	Empty	150/Split	22
	Orange	DJ4X1C-100	2.04"	2.35"	900 lb.	100	26
Orange	DJ4X1-100S	2.04"	2.35"	Empty	100/Split	26	

### Custom Orders

- \* Custom Orders are not returnable
- \* Custom lengths are available in minimum order quantities of 1000 ft.
- \* Custom color runs are available in minimum order quantities of 10,000 ft.

### Options:

- Two, three, or four way parallel
- Custom print line

### How to Build a Part Number:

Position 1 - Product	Position 2 - Size	Position 3 - Configuration	Position 4 - Wall	Position 5 - Color	Position 6 - Pull Line	Position 7 - Length
D = Riser-Gard	E = 3/4" F = 1" G = 1-1/4" H = 1-1/2" J = 2"	4 = Corrugated	X = Standard	1 = Orange 2 = Blue 3 = Gray 4 = White 5 = Green 6 = Black 7 = Yellow 8 = Red 9 = Brown	C = 900 lb. Tape	Example -1000 = Feet -1000S = 1000 Feet Split

# Carlon Plenum-Gard®

**Applications:** Plenum, Riser and General Purpose Applications per Articles 770 and 800

- UL Listed to 2024 Standard**
- Maximum flame propagation distance is less than 5.0 ft.
  - The peak optical density of smoke is less than 0.50
  - The average optical density of smoke is less than 0.15

## Standard Stock – Reels

REF# CS-097

## Standard Stock – Coils

(Overnight Shippable)

	Color	Part No.	Nom. I.D.	Nom. O.D.	Pull Tape	Reel Size (F x W)	Reel Length (ft.)	Wt. per 100 ft. (lbs.)
3/4"	Orange	CE4X1-1000	.83"	1.04"	Empty	36" x 24"	1000	8
	Orange	CE4X1-1000S	.83"	1.04"	Empty	36" x 24"	1000/Split	8
	White	CE4X4-1000	.83"	1.04"	Empty	34" x 28"	1000	8
1"	Orange	CF4X1C-500	1.05"	1.31"	900 lb.	36" x 24"	500	10
	Orange	CF4X1C-1000	1.05"	1.31"	900 lb.	48" x 32"	1000	10
	Orange	CF4X1C-1500	1.05"	1.31"	900 lb.	48" x 32"	1500	10
	Orange	CF4X1-1500S	1.05"	1.31"	Empty	48" x 32"	1500/Split	10
	Orange	CF4X1C-5200	1.05"	1.31"	900 lb.	65" x 48"	5200	10
	Orange	CF4X1C-8000	1.05"	1.31"	900 lb.	82" x 41"	8000	10
1 1/4"	White	CF4X4C-500	1.05"	1.31"	900 lb.	36" x 24"	500	10
	White	CF4X4C-1500	1.05"	1.31"	900 lb.	48" x 32"	1500	10
	White	CF4X4C-5200	1.05"	1.31"	900 lb.	65" x 46"	5200	10
	Orange	CG4X1C-500	1.38"	1.65"	900 lb.	36" x 24"	500	16
	Orange	CG4X1C-900	1.38"	1.65"	900 lb.	48" x 32"	900	16
	Orange	CG4X1-900S	1.38"	1.65"	Empty	48" x 32"	900/Split	16
1 1/2"	Orange	CG4X1C-1600	1.38"	1.65"	900 lb.	48" x 46"	1600	16
	Orange	CG4X1C-3200	1.38"	1.65"	900 lb.	65" x 48"	3200	16
	Orange	CG4X1C-6500	1.38"	1.65"	900 lb.	96" x 41"	6500	16
	White	CG4X4C-900	1.38"	1.65"	900 lb.	48" x 32"	900	16
	White	CG4X4C-3200	1.38"	1.65"	900 lb.	65" x 46"	3200	16
	Orange	CH4X1C-350	1.55"	1.88"	900 lb.	48" x 32"	350	20
2"	Orange	CH4X1C-1200	1.55"	1.88"	900 lb.	48" x 46"	1200	20
	Orange	CH4X1C-4000	1.55"	1.88"	900 lb.	82" x 41"	4000	20
	White	CH4X4C-1200	1.55"	1.88"	900 lb.	48" x 46"	1200	20
2"	Orange	CJ4X1C-225	2.04"	2.35"	900 lb.	48" x 32"	225	23
	Orange	CJ4X1C-700	2.04"	2.35"	900 lb.	48" x 46"	700	23
	Orange	CJ4X1C-1400	2.04"	2.35"	900 lb.	72" x 41"	1400	23
	Orange	CJ4X1C-2000	2.04"	2.35"	900 lb.	82" x 41"	2000	23
	White	CJ4X4C-700	2.04"	2.35"	900 lb.	48" x 46"	700	23

	Color	Part No.	Nom. I.D.	Nom. O.D.	Pull Tape	Coil Length (ft.)	Wt. per 100 ft. (lbs.)
3/4"	Orange	CE4X1-350	.83"	1.04"	Empty	350	8
	Orange	CE4X1-350S	.83"	1.04"	Empty	350/Split	8
	White	CE4X4-350	.83"	1.04"	Empty	350	8
1"	Orange	CF4X1C-100	1.05"	1.31"	900 lb.	100	10
	Orange	CF4X1C-250	1.05"	1.31"	900 lb.	250	10
	Orange	CF4X1-250S	1.05"	1.31"	Empty	250/Split	10
	White	CF4X4C-250	1.05"	1.31"	900 lb.	250	10
	Orange	CG4X1C-200	1.38"	1.65"	900 lb.	200	16
	Orange	CG4X1-200S	1.38"	1.65"	Empty	200/Split	16
1 1/4"	White	CG4X4C-200	1.38"	1.65"	900 lb.	200	16
	White	CG4X4C-500	1.38"	1.65"	900 lb.	500	16
	Orange	CH4X1C-150	1.55"	1.88"	900 lb.	150	20
1 1/2"	Orange	CH4X1-150S	1.55"	1.88"	Empty	150/Split	20
	White	CH4X4C-150	1.55"	1.88"	900 lb.	150	20
	Orange	CJ4X1C-100	2.04"	2.35"	900 lb.	100	23
2"	Orange	CJ4X1-100S	2.04"	2.35"	Empty	100/Split	23
	White	CJ4X4C-100	2.04"	2.35"	900 LBS.	100	23

### Custom Orders

- \* Custom Orders are not returnable
- \* Custom lengths are available in minimum order quantities of 1000 ft.
- \* Custom color runs are available in minimum order quantities of 10,000 ft.

### Options:

- Two, three, or four way parallel
- Custom print line

### How to Build a Part Number:

Position 1 - Product	Position 2 - Size	Position 3 - Configuration	Position 4 - Wall	Position 5 - Color	Position 6 - Pull Line	Position 7 - Length
C = Plenum-Gard	E = 3/4" F = 1" G = 1-1/4" H = 1-1/2" J = 2"	4 = Corrugated	X = Standard	1 = Orange 2 = Blue 3 = Gray 4 = White 5 = Green 6 = Black 7 = Yellow 8 = Red 9 = Brown	C = 900 lb. Tape	Example -1000 = Feet -1000S = 1000 Feet Split

# Product Type - 3" 3-Cell

## 3" 3-Cell

For use in 3" or larger conduits, the 3" 3-Cell product is designed to hold cables up to 1.05" in diameter in each cell. Up to 3 packs can be placed in a 4" conduit.

- Standard colors are black, blue and red
- Color-coded pull tapes are pre-installed
- Factory lubricated



3" 3-Cell pack overriding existing cable plant in 4" conduit



3" 3-Cell packs holding 9 cables in 4" conduit

## 3" 3-Cell Application Guide

General Guidelines When Using MaxCell in Various Applications

**MaxCell 3" 3-Cell (Equivalent to three 1.25" I.D. innerducts)** This product was designed for use in 3" or larger ducts. Multiple combinations of large, medium and smaller cable sizes are applicable and anticipated.

Min Conduit ID	Suggested Product	Max # of Packs	Max # of Cables	Maximum Cable Diameter per Cell	Rec. Pull Length*	Max Pull Length*
3"	MaxCell 3" 3 Cell	2	6	1.05"	1250'	2000'
4"	MaxCell 3" 3 Cell	3	9	1.05"	1250'	2000'
5"	MaxCell 3" 3 Cell	4	12	1.05"	1250'	2000'
6"	MaxCell 3" 3 Cell	5	15	1.05"	1250'	2000'

\*Use of OFNR cable may result in reduced pulling lengths. Exceeding more than two 90 degree bends or a total of 180 degrees of bends between any two pulling points or installation into trenched duct may also result in reduced recommended pulling lengths.

## 3" 3-Cell Part Numbers

Product (Std. Color)	Footage (Feet)	Standard Product (MXC)	Detectable Product (MXD)	Plenum Product (MXP)	Riser Product (MXR)
3" 3-Cell Product Standard colors are either Black (BK) or Blue (BL) or Red (RD)	250	MXC3456XX250	MXD3456XX250	MXP3456XX250	MXR3456XX250
	500-999	MXC3456XX500	MXD3456XX500	MXP3456XX500	MXR3456XX500
	1,000-2,649	MXC3456XX1000	MXD3456XX1000	MXP3456XX1000	MXR3456XX1000
	2,650-5,299	MXC3456XX2650	MXD3456XX2650	MXP3456XX2650	MXR3456XX2650
	5,300-9,999	MXC3456XX5300	MXD3456XX5300	MXP3456XX5300	MXR3456XX5300
	10,000-13,000	MXC3456XX10000	MXD3456XX10000	MXP3456XX10000	MXR3456XX10000

REF# CS-098

## 3" 3-Cell Reel Sizes and Weights

Description	Reel Size	Type of Reel	Tare Weight of Reel	Std. Product Length	Reel Wt. w/ Std. Product Length	Max Product on Reel
Reel information for 3" 3-Cell Standard	33" H x 15" W	Wood	24 lbs	500 ft	65 lbs	1,500 ft
	33" H x 15" W	Wood	24 lbs	1,000 ft	105 lbs	1,500 ft
	48" H x 15" W	Wood	55 lbs	2,650 ft	260 lbs	2,800 ft
	72" H x 15" W	Steel	86 lbs	5,300 ft	500 lbs	7,900 ft
	72" H x 30" W	Steel	106 lbs	10,000 ft	880 lbs	10,000 ft

# Closet Connector Housing (CCH)

1 rack unit, holds 2 CCH connector panels

REF# CS-099

CORNING

Designed based on thousands of hours of customer feedback, Corning Cable Systems Closet Connector Housings (CCHs) offer more than two dozen innovative features that make installation and troubleshooting of fiber optic connectivity faster, easier and more cost effective.

From fiber and cable routing and strain relief, to port labeling and termination, these housings reduce the risk of error that can disrupt networks.

Closet Connector Housings (CCHs) provide interconnect or cross-connect capabilities between outside plant, riser or distribution cables and opto-electronics. Like all LANscape Solutions hardware, the housings accept CCH connector panels. In addition, the housings accept CCH cassettes and CCH modules.

The units are designed for rack mounting in 19-in (48 cm) racks or optional 23-in (58 cm) equipment racks (1.75-in EIA hole spacing). They are available in rack space options of 1U (two panels, cassettes or modules), 2U (four panels, cassettes or modules), 3U (six panels, cassettes or modules) and 4U (twelve panels, cassettes or modules). The 1U, 2U and 3U options feature a slide-out tray and see-through, removable top covers. The CCH-04U features a clear door, removable front and rear enclosures and a platinum-painted interior for maximum visibility and access.

Every CCH housing is shipped complete with strain relief brackets, routing clips and guides, and mounting brackets for proper installation. Documentation labels are provided and components can be added as needed to construct a fiber distribution frame for any application. All housings include a removable tinted polycarbonate front door. All size housings have field-installable lock kits available for both front and rear doors.

All CCH housings can also be upgraded for pigtail splicing to full fiber capacity and easy, modular fiber management through the use of CCH Splice Cassettes (CCH-CS), or for easy, modular fiber management when using field-installable connectors through the use of CCH Slack Cassettes (CCH-CF).



## Features and Benefits

### Interconnect and cross-connect capability

Ideal for field connectorization

### Removable, translucent top covers (1U, 2U, 3U), removable rear cover (4U)

Visibility and ease of access for installation, testing and troubleshooting

# Closet Connector Housing (CCH)

1 rack unit, holds 2 CCH connector panels

CORNING

## Features and Benefits

### Internal and external strain-relief options

Flexibility for installation and moves, adds and changes (MACs)

### Accepts panels, modules and cassettes

Variety of field termination options

### Adaptable to use as a modular splice housing

Splices are stored and protected in same footprint

## Standards

**Approval and Listings** Meets ANSI/TIA/EIA-568A and 606

## Specifications

General Specifications	
Application	Enterprise Networks, Data Center
Mounting Type	Rack 19-in, Rack 23-in, Cabinet-mount
Product Type	Fiber Optic Hardware
Design - Hardware	
Housing Color	Black
Housing Type	CCH
Height Unit	1U
Locking Availability	Front or rear
Maximum Number of Panels per Housing	2
Panel or Module Type	CCH
Splice Tray Options	Use CCH Splice Cassette (CCH-CS)
Mechanical Characteristics	
Dimensions (HxWxD)	4.4 cm x 48.3 cm x 43 cm (1.75 in x 19 in x 17 in)

# Closet Connector Housing (CCH)

1 rack unit, holds 2 CCH connector panels



## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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## Ordering Information

REF# CS-099

Part Number	CCH-01U
Product Description	Closet Connector Housing (CCH), 1 rack unit, holds 2 CCH connector panels

## Shipping Information

Units per Delivery	1/1
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# Closet Connector Housing (CCH)

two rack units, holds four CCH connector panels

CORNING

REF# CS-100

Closet connector housings (CCHs) provide interconnect or cross-connect capabilities between outside plant, riser or distribution cables and opto-electronics. Like other LANscape solutions hardware, the housings accept CCH connector panels. In addition, the housings accept CCH cassettes and CCH modules.

From fiber and cable routing and strain relief, to port labeling and termination, these housings reduce the risk of error that can disrupt networks.

The units are designed for rack mounting in 19-in (48 cm) racks or optional 23-in (58 cm) equipment racks (1.75-in EIA hole spacing). They are available in rack space options of 1U (two panels, cassettes or modules), 2U (four panels, cassettes or modules), 3U (six panels, cassettes or modules) and 4U (12 panels, cassettes or modules). The 1U, 2U and 3U options feature a slide-out tray and see-through, removable top covers. The CCH-04U features a clear door, removable front and rear enclosures and a platinum-colored interior for maximum visibility and access.

Every CCH housing is shipped complete with strain relief brackets, routing clips and guides, and mounting brackets for proper installation. Documentation labels are provided and components can be added as needed to construct a fiber distribution frame for any application. All housings include a removable tinted polycarbonate front door. All size housings have field-installable lock kits available for both front and rear doors.

All CCH housings can also be upgraded for pigtail splicing to full fiber capacity and easy, modular fiber management through the use of CCH Splice Cassettes (CCH-CS), or for easy, modular fiber management when using field-installable connectors through the use of CCH Slack Cassettes (CCH-CF).



Part Number: CCH-02U

## Features and Benefits

### Interconnect and cross-connect capability

Ideal for field connectorization

### Removable, translucent top covers (1U, 2U, 3U), removable rear cover (4U)

Visibility and ease of access for installation, testing, and troubleshooting

### Internal and external strain-relief options

Flexibility for installation and moves, adds, and changes (MACs)

### Accepts panels, modules, and cassettes

Variety of field-termination options

# Closet Connector Housing (CCH)

two rack units, holds four CCH connector panels



## Features and Benefits

### Adaptable to use as a modular splice housing

Splices are stored and protected in same footprint

## Standards

<b>Approvals and Listings</b>	Meets ANSI/TIA/EIA-568A and 606
<b>RoHS</b>	Free of hazardous substances according to RoHS 2011/65/EU
<b>UL-Listed</b>	United States and Canadian safety standards

## Specifications

General Specifications	
Application	Enterprise Networks, Data Center, Carrier Networks
Mounting Type	Rack 19-in, Rack 23-in, Cabinet-mount
Product Type	Fiber Optic Hardware
Environment	Indoor
Mounting Technology	Flush mount, Protruding, Recessed
Access Type	Front and rear access slidable
Lockable	Yes

Design - Hardware	
Housing Type	CCH
Housing Color	Black
Height Unit	2U
Locking Availability	Front or rear
Number of Panels per Housing	4
Panel or Module Type	CCH
Splice Tray Options	CCH Splice Cassette (CCH-CS)

Mechanical Characteristics	
Dimensions (HxWxD)	8.9 cm x 48.3 cm x 43 cm (3.5 in x 19 in x 17 in)

# Closet Connector Housing (CCH)

two rack units, holds four CCH connector panels



## Ordering Information

REF# CS-100

Part Number	CCH-02U
Product Description	Closet Connector Housing (CCH), two rack unit, holds four CCH connector panels
EAN Code	4056418169453

## Shipping Information

Units per Delivery	1/1
Shipping Weight	5.4 kg (12 lb)
Dimensions (HxWxD)	54.61 cm x 57.15 cm x 19.05 cm (21.5 in x 22.5 in x 7.5 in)



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# Closet Connector Housing (CCH)

four rack units, holds 12 CCH connector panels

REF# CS-101

Closet connector housings (CCHs) provide interconnect or cross-connect capabilities between outside plant, riser or distribution cables and opto-electronics. Like other LANscape solutions hardware, the housings accept CCH connector panels. In addition, the housings accept CCH cassettes and CCH modules.

From fiber and cable routing and strain relief, to port labeling and termination, these housings reduce the risk of error that can disrupt networks.

The units are designed for rack mounting in 19-in (48 cm) racks or optional 23-in (58 cm) equipment racks (1.75-in EIA hole spacing). They are available in rack space options of 1U (two panels, cassettes or modules), 2U (four panels, cassettes or modules), 3U (six panels, cassettes or modules) and 4U (12 panels, cassettes or modules). The 1U, 2U and 3U options feature a slide-out tray and see-through, removable top covers. The CCH-04U features a clear door, removable front and rear enclosures and a platinum-colored interior for maximum visibility and access.

Every CCH housing is shipped complete with strain relief brackets, routing clips and guides, and mounting brackets for proper installation. Documentation labels are provided and components can be added as needed to construct a fiber distribution frame for any application. All housings include a removable tinted polycarbonate front door. All size housings have field-installable lock kits available for both front and rear doors.

All CCH housings can also be upgraded for pigtail splicing to full fiber capacity and easy, modular fiber management through the use of CCH Splice Cassettes (CCH-CS), or for easy, modular fiber management when using field-installable connectors through the use of CCH Slack Cassettes (CCH-CF).

## Features and Benefits

### Interconnect and cross-connect capability

Ideal for field connectorization

### Removable, translucent top covers (1U, 2U, 3U), removable rear cover (4U)

Visibility and ease of access for installation, testing, and troubleshooting

### Internal and external strain-relief options

Flexibility for installation and moves, adds, and changes (MACs)

### Accepts panels, modules, and cassettes

Variety of field-termination options

CORNING



CCH-04U (open) | Photo LAN1860

# Closet Connector Housing (CCH)

four rack units, holds 12 CCH connector panels

CORNING

## Features and Benefits

### Adaptable to use as a modular splice housing

Splices are stored and protected in same footprint

## Standards

<b>Approvals and Listings</b>	Meets ANSI/TIA/EIA-568A and 606
<b>RoHS</b>	Free of hazardous substances according to RoHS 2011/65/EU
<b>UL-Listed</b>	United States and Canadian safety standards

## Specifications

General Specifications	
Application	Enterprise Networks, Data Center, Carrier Networks
Mounting Type	Rack 19-in, Rack 23-in, Cabinet-mount
Product Type	Fiber Optic Hardware
Environment	Indoor
Mounting Technology	Flush mount, Protruding, Recessed
Access Type	Front and rear access slidable
Lockable	Yes

Design - Hardware	
Housing Type	CCH
Housing Color	Black
Height Unit	4U
Locking Availability	Front or rear
Number of Panels per Housing	12
Panel or Module Type	CCH
Splice Tray Options	CCH Splice Cassette (CCH-CS)

Mechanical Characteristics	
Dimensions (HxWxD)	17.8 cm x 48.3 cm x 43 cm (7 in x 19 in x 17 in)

# Closet Connector Housing (CCH)

four rack units, holds 12 CCH connector panels



## Ordering Information

REF# CS-101

Part Number	CCH-04U
Product Description	Closet Connector Housing (CCH), four rack units, holds 12 CCH connector panels
EAN Code	4056418169439

## Shipping Information

Units per Delivery	1/1
Shipping Weight	7.5 kg (17 lb)
Dimensions (HxWxD)	58.42 cm x 58.42 cm x 30.48 cm (23 in x 23 in x 12 in)



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# Wall-Mountable Connector Housing (WCH)

Holds 2 CCH connector panels/cassettes

CORNING

REF# CS-102

Corning wall-mountable connector housing (WCH) product family offers enhanced innovative features that make installation and troubleshooting of fiber optic connectivity faster, easier and more cost-effective. From fiber and cable routing and strain-relief to port labeling and termination, these housings reduce the risk of error that can disrupt networks.

The WCH housing provides interconnect or cross-connect capabilities between the outside plant, riser or distribution cables and the opto-electronics. With the WCH-02P (two panels, cassettes or modules), WCH-04P (four panels, cassettes or modules), and WCH-06P (six panels, cassettes or modules) capacity, the rugged metal housings can be wall mounted in main cross-connects, telecommunication rooms or other areas where space is a premium. Units accept standard closet connector housing (CCH) cassettes, connector panels and modules for a variety of connectivity options.

The WCH product family features a clear, transparent jumper side door for easy visibility during installation and testing, easy-to-use recessed mounting holes with mounting screws, documentation labels, removable strain-relief brackets, routing clips and guides, improved latches, as well as a preinstalled bubble level for simple and accurate installation. All housings also have field-installable lock kits available for both cable entry and jumper side doors.



## Features and Benefits

### Interconnect and cross-connect capabilities

Ideal for field splicing and connectorization

### Accepts CCH cassettes, panels and modules

Variety of preterminated and field-installable capabilities

### Lockable, transparent jumper side door

Visibility and ease of access for installation, testing and troubleshooting

### Removable strain-relief bracket

Flexibility for installation and moves, adds and changes (MACs)

### Segregated cable and fiber slack routing

Fiber protection

# Wall-Mountable Connector Housing (WCH)

Holds 2 CCH connector panels/cassettes

CORNING

## Standards

### RoHS

Free of hazardous substances according to RoHS 2002/95/EG

## Specifications

General Specifications	
Application	Enterprise Networks
Mounting type	Wall-Mountable
Product Type	Wall-Mountable Hardware

Design - Hardware	
Housing Color	Black
Housing Type	WCH
Locking Availability	Provider door and jumper door
Number of Panels/Cassettes per Housing	2
Panel or Cassette Type	CCH
Splice Tray/Splice Cassette Options	Up to 2 CCH cassettes
Maximum Fiber Capacity	48

Mechanical Characteristics	
Dimensions (HxWxD)	18.8 cm x 42.2 cm x 10.7 cm (7.4 in x 16.1 in x 4.2 in)

## Ordering Information

REF# CS-102

Part Number	WCH-02P
Product Description	Wall-Mountable Closet Housing (WCH), holds 2 CCH connector panels/cassettes
EAN Code	4042673249221



# Wall-Mountable Connector Housing (WCH)

Holds 2 CCH connector panels/cassettes



## Shipping Information

Units per Delivery	1/1
Shipping Weight	3.6 kg (8.0 lb)
Package Contents	Housing; installation guide; 2 blank panels; 2 panel ID labels; hardware kit; internal strain-relief bracket; intermediate strain-relief bracket; 4 x 4-in tie wraps; 4 x 8-in tie wraps; dust brushes; 4 mounting screws; bubble level



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# Wall-Mountable Connector Housing (WCH)

Holds 4 CCH connector panels/cassettes

CORNING

REF# CS-103

Corning wall-mountable connector housing (WCH) product family offers enhanced innovative features that make installation and troubleshooting of fiber optic connectivity faster, easier and more cost-effective. From fiber and cable routing and strain-relief to port labeling and termination, these housings reduce the risk of error that can disrupt networks.

The WCH housing provides interconnect or cross-connect capabilities between the outside plant, riser or distribution cables and the opto-electronics. With the WCH-02P (two panels, cassettes or modules), WCH-04P (four panels, cassettes or modules), and WCH-06P (six panels, cassettes or modules) capacity, the rugged metal housings can be wall mounted in main cross-connects, telecommunication rooms or other areas where space is a premium. Units accept standard closet connector housing (CCH) cassettes, connector panels and modules for a variety of connectivity options.

The WCH product family features a clear, transparent jumper side door for easy visibility during installation and testing, easy-to-use recessed mounting holes with mounting screws, documentation labels, removable strain-relief brackets, routing clips and guides, improved latches, as well as a preinstalled bubble level for simple and accurate installation. All housings also have field-installable lock kits available for both cable entry and jumper side doors.



## Features and Benefits

### Interconnect and cross-connect capabilities

Ideal for field splicing and connectorization

### Accepts CCH cassettes, panels and modules

Variety of preterminated and field-installable capabilities

### Lockable, transparent jumper side door

Visibility and ease of access for installation, testing and troubleshooting

### Removable strain-relief bracket

Flexibility for installation and moves, adds and changes (MACs)

### Segregated cable and fiber slack routing

Fiber protection

# Wall-Mountable Connector Housing (WCH)

Holds 4 CCH connector panels/cassettes

CORNING

## Standards

**RoHS** Free of hazardous substances according to RoHS 2002/95/EG

## Specifications

General Specifications	
Application	Enterprise Networks
Mounting type	Wall-Mountable
Product Type	Wall-Mountable Hardware

Design - Hardware	
Housing Color	Black
Housing Type	WCH
Locking Availability	Provider door and jumper door
Number of Panels/Cassettes per Housing	4
Panel or Cassette Type	CCH
Splice Tray/Splice Cassette Options	Up to 4 CCH Cassettes
Maximum Fiber Capacity	96

Mechanical Characteristics	
Dimensions (HxWxD)	35.8 cm x 42.2 cm x 10.7 cm (14.1 in x 16.1 in x 4.2 in)

## Ordering Information

REF# CS-103

Part Number	WCH-04P
Product Description	Wall-Mountable Closet Housing (WCH), holds 4 CCH connector panels/cassettes
EAN Code	4042673249207

# Wall-Mountable Connector Housing (WCH)

Holds 4 CCH connector panels/cassettes



## Shipping Information

Units per Delivery	1/1
Shipping Weight	4.6 kg (10.0 lb)
Package Contents	Housing; installation guide; 4 blank panels; 4 panel ID labels; hardware kit; internal strain-relief bracket; intermediate strain-relief bracket; 4 x 4-in tie wraps; 4 x 8-in tie wraps; dust brushes; 4 mounting screws; bubble level



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# Closet Connector Housing (CCH) Panel, SC Adapters

Duplex, 12 F, 50 μm multimode (OM3/4)



REF# CS-104

Corning closet connector housing panels (CCH-CP) are offered in a variety of fiber counts for use with LANscape® solutions hardware products for a “one-size-fits-all” approach. Used with factory-installed or field-installable connectors, these panels provide interconnect or cross-connect capability in a housing at main cross-connects, intermediate cross-connects, telecommunication rooms or work areas. Available with a variety of industry-standard adapter types, the CCH-CP provides an efficient way to securely mate two connectors and offers multimode and single-mode applications.

## Features and Benefits

### Universal design approach

One-size-fits-all LANscape® Solutions housings

### Broadest range of fiber count and adapter types

Solutions for all needs

### Colored icon labeling

Easy connector identification



## Specifications

General Specifications	
Application	Enterprise Networks, Data Center LAN/SAN
Product Type	Panels & Modules
Fiber Category	50 μm MM (OM3)

Design - Hardware	
Fiber Count	12
Number of Adapters per Panel	6

Design Adapter	
Adapter Housing Color	Aqua
Adapter Housing Material	Composite
Adapter Type	SC duplex
Insert Material	Ceramic

# Closet Connector Housing (CCH) Panel, SC Adapters

Duplex, 12 F, 50 µm multimode (OM3/4)



## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
------	---

## Ordering Information

REF# CS-104

Part Number	CCH-CP12-E7
Product Description	Closet Connector Housing (CCH) Panel, SC adapters, Duplex, UPC, 12 F, 50 µm multimode (OM3)
EAN Code	4042673805885

## Shipping Information

Units per Delivery	1/1
Package Contents	CCH Adapter Panel with installation guide



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# Closet Connector Housing (CCH) Panel, LC Adapters

Duplex, 12 F, 50 μm multimode (OM3/4)

REF# CS-105

Corning Cable Systems Closet Connector Housing Panels (CCH-CP) are offered in a variety of fiber counts for use with LANscape® Solutions hardware products for a “one-size-fits-all” approach. Used with factory-installed or field-installable connectors, these panels provide inter-connect or cross-connect capability in a housing at main cross-connects, intermediate cross-connects, telecommunication rooms or work areas. Available with a variety of industry-standard adapter types, the CCH-CP provides an efficient way to securely mate two connectors and offers multimode and single-mode applications.

## Features and Benefits

### Universal design approach

One-size-fits-all LANscape® Solutions housings

### Broadest range of fiber count and adapter types

Solutions for all needs

### Colored icon labeling

Easy connector identification

CORNING



Part Number: CCH-CP12-E4

## Specifications

General Specifications	
Application	Enterprise Networks, Data Center LAN/SAN
Product Type	Panels & Modules
Fiber Category	50 μm MM (OM3)
Design - Hardware	
Fiber Count	12
Number of Adapters per Panel	6
Design Adapter	
Adapter Housing Color	Aqua
Adapter Housing Material	Composite
Adapter Type	LC duplex
Insert Material	Ceramic

# Closet Connector Housing (CCH) Panel, LC Adapters

Duplex, 12 F, 50 µm multimode (OM3/4)

CORNING

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
------	---

## Ordering Information

REF# CS-105

Part Number	CCH-CP12-E4
Product Description	Closet Connector Housing (CCH) Panel, LC adapters, Duplex, 12 F, 50 µm multimode (OM3/4)

## Shipping Information

Units per Delivery	1/1
Package Contents	CCH Adapter Panel with installation guide



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# Closet Connector Housing (CCH) Panel, LC Adapters

Duplex, 24 F, 50  $\mu\text{m}$  multimode (OM3/4)

CORNING

REF# CS-106

Corning closet connector housing panels (CCH-CP) are offered in a variety of fiber counts for use with LANscape® solutions hardware products for a “one-size-fits-all” approach. Used with factory-installed or field-installable connectors, these panels provide interconnect or cross-connect capability in a housing at main cross-connects, intermediate cross-connects, telecommunication rooms or work areas. Available with a variety of industry-standard adapter types, the CCH-CP provides an efficient way to securely mate two connectors and offers multimode and single-mode applications.

## Features and Benefits

### Universal design approach

One-size-fits-all LANscape® Solutions housings

### Broadest range of fiber count and adapter types

Solutions for all needs

### Colored icon labeling

Easy connector identification



## Specifications

General Specifications	
Application	Enterprise Networks, Data Center LAN/SAN
Product Type	Panels & Modules
Fiber Category	50 $\mu\text{m}$ MM (OM3)

Design - Hardware	
Fiber Count	24
Number of Adapters per Panel	12

Design Adapter	
Adapter Housing Color	Aqua
Adapter Housing Material	Composite
Adapter Type	LC duplex
Insert Material	Ceramic

# Closet Connector Housing (CCH) Panel, LC Adapters

Duplex, 24 F, 50 µm multimode (OM3/4)



## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
------	---

## Ordering Information

REF# CS-106

Part Number	CCH-CP24-E4
Product Description	Closet Connector Housing (CCH) Panel, LC adapters, Duplex, 24 F, 50 µm multimode (OM3/4)
EAN Code	4056418202310

## Shipping Information

Units per Delivery	1/1
Package Contents	CCH Adapter Panel with installation guide



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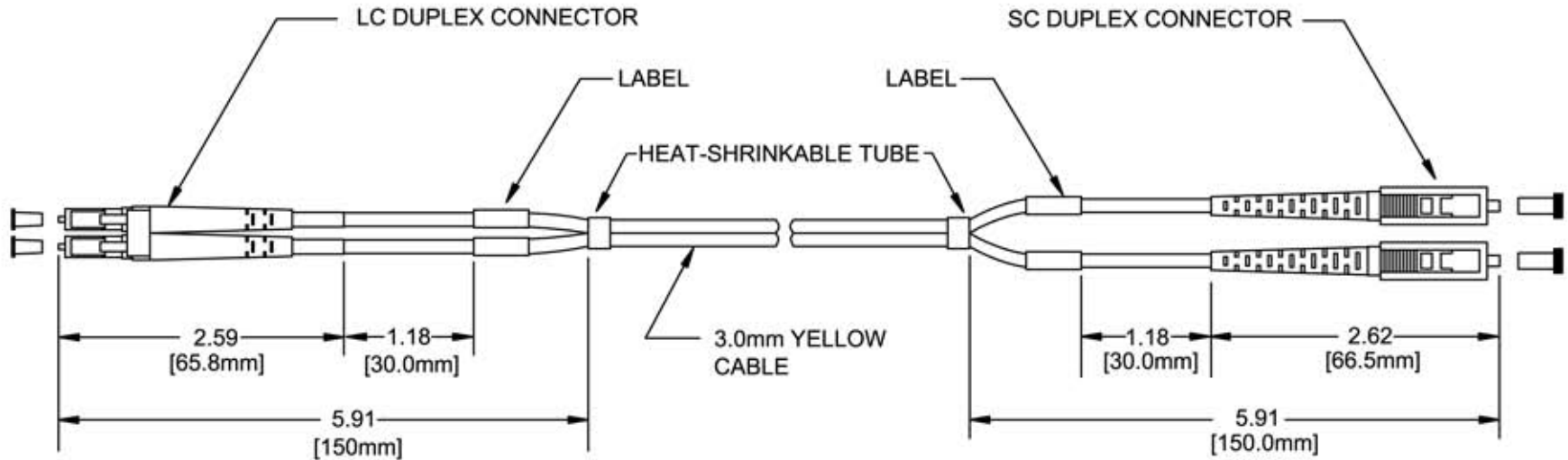
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**NOTE:**  
DIMENSIONS IN INCHES [mm]

REF# CS-107



## SPECIFICATIONS

PARAMETER	UNITS	
FERRULE ID	um	125
INSERTION LOSS	dB	<0.2
RETURN LOSS	dB	>50
DURABILITY (500 TIMES)	dB	<0.3
OPERATING TEMPERATURE	°C	-40~+85
STORAGE TEMPERATURE	°C	-40~+85
TYPICAL CABLE OD	mm	Ø3.0

## FEATURES

- \* SC CONNECTORS ARE COMPLIANT IEC 60874-14; F04 (JIS C5973); TIA/EIA-604-3A
- \* LC CONNECTORS ARE COMPLIANT TIA/EIA-640-10; LUCENT: 640-252-256
- \* PRODUCT QUALITY COMPLY WITH GR-326-CORE

PART#: GBLCC-D1-XX

### LENGTH (METERS)

01, 02, 03, 04, 05, 06, 07,  
08, 09, 10, 15, 20, 25, 30

REF# CS-107



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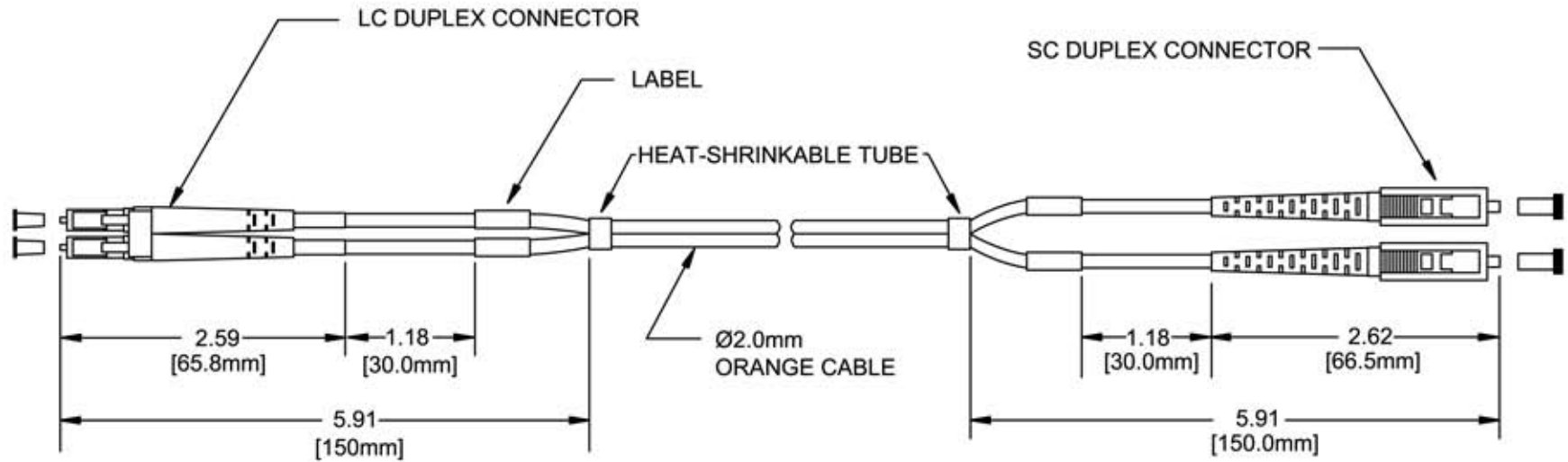
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**GBLCC-D1-XX LC TO SC DUPLEX  
SINGLEMODE 9/125 (YELLOW JACKET)**



**NOTE:**  
DIMENSIONS IN INCHES [mm]

REF# CS-108



## SPECIFICATIONS

PARAMETER	UNITS	
FERRULE ID	um	127
INSERTION LOSS	dB	<0.3
DURABILITY (500 TIMES)	dB	<0.3
OPERATING TEMPERATURE	°C	-40~+85
STORAGE TEMPERATURE	°C	-40~+85
TYPICAL CABLE OD	mm	Ø2.0

## FEATURES

- \* SC CONNECTORS ARE COMPLIANT IEC 60874-14; F04 (JIS C5973); TIA/EIA-604-3A
- \* LC CONNECTORS ARE COMPLIANT TIA/EIA-640-10; LUCENT: 640-252-256
- \* PRODUCT QUALITY COMPLY WITH GR-326-CORE

PART#: GBLCC-D2-XX

LENGTH (METERS)

01, 02, 03, 04, 05, 06, 07,  
08, 09, 10, 15, 20, 25, 30

REF# CS-108



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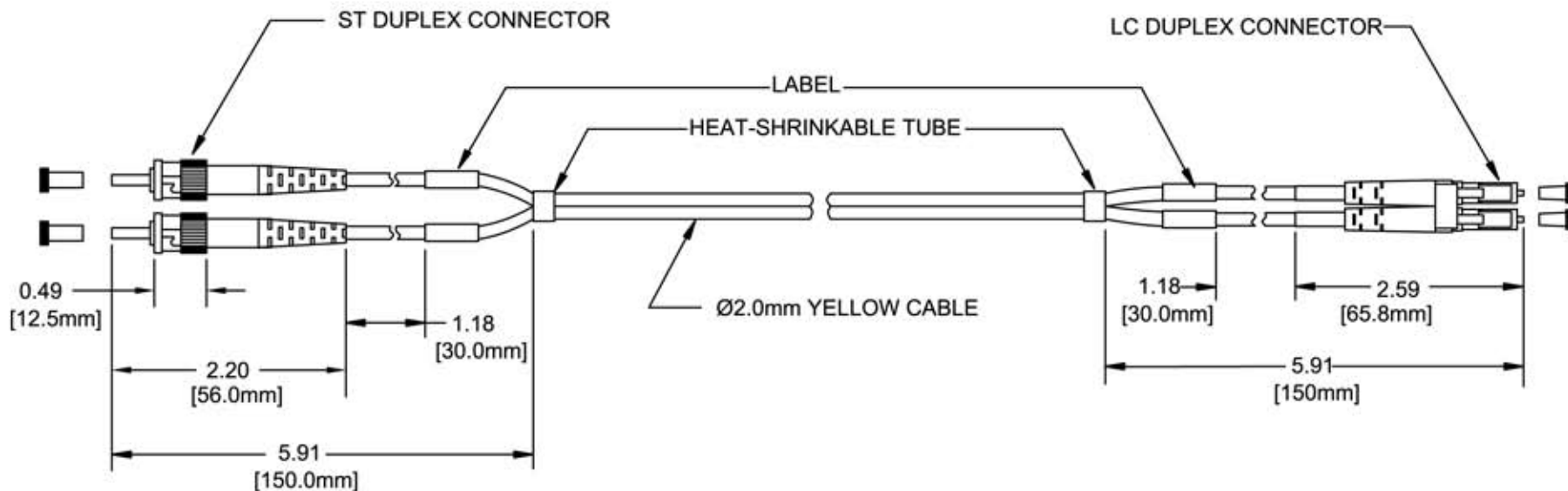
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**GBLCC-D2-XX LC TO SC DUPLEX  
MULTIMODE 62.5/125 (ORANGE JACKET)**



**NOTE:**  
DIMENSIONS IN INCHES [mm]

REF# CS-109



## SPECIFICATIONS

PARAMETER	UNITS	
FERRULE ID	um	125
INSERTION LOSS	dB	<0.2
RETURN LOSS	dB	>50
DURABILITY (500 TIMES)	dB	<0.3
OPERATING TEMPERATURE	°C	-40~+85
STORAGE TEMPERATURE	°C	-40~+85
TYPICAL CABLE OD	mm	Ø2.0

## FEATURES

- \* ST CONNECTORS ARE COMPLIANT IEC 60874-10; TIA/EIA-604-2A
- \* LC CONNECTORS ARE COMPLIANT TIA/EIA-640-10; LUCENT: 640-252-256
- \* PRODUCT QUALITY COMPLY WITH GR-326-CORE

PART#: GBLCT-D1-

LENGTH (METERS)

01, 02, 03, 04, 05, 06, 07,  
08, 09, 10, 15, 20, 25, 30

REF# CS-109



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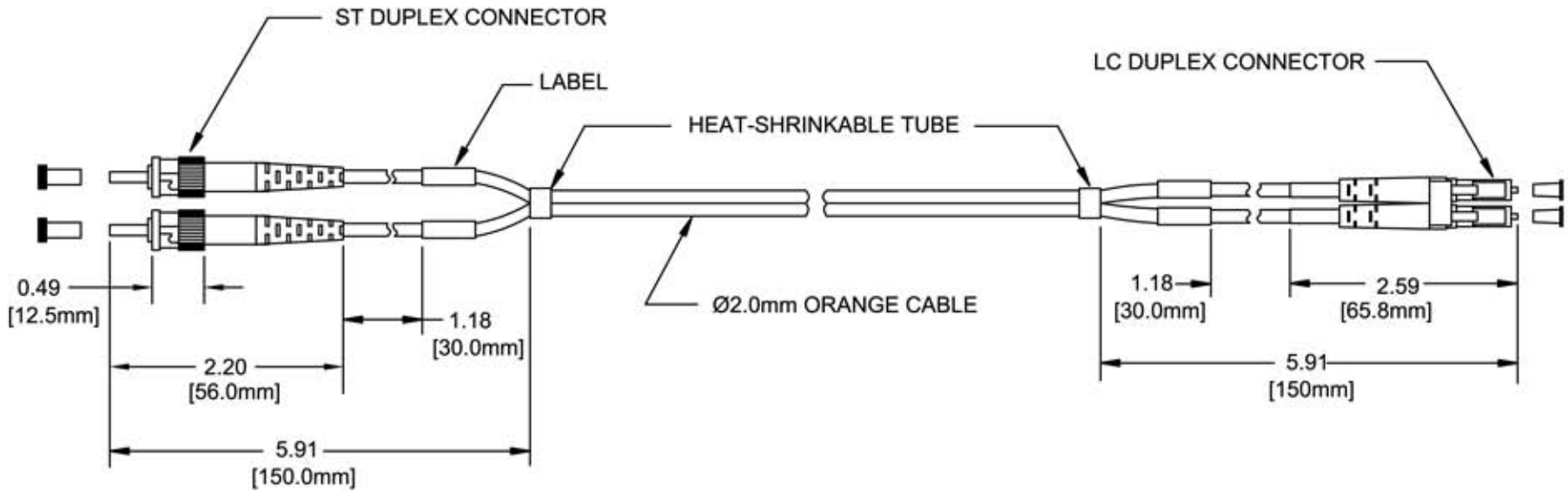
**GBLCT-D1-XX LC TO ST DUPLEX  
SINGLEMODE 9/125 (YELLOW JACKET)**





**NOTE:**  
DIMENSIONS IN INCHES [mm]

REF# CS-110



## SPECIFICATIONS

PARAMETER	UNITS	
FERRULE ID	um	127
INSERTION LOSS	dB	<0.3
DURABILITY (500 TIMES)	dB	<0.3
OPERATING TEMPERATURE	°C	-40~+85
STORAGE TEMPERATURE	°C	-40~+85
TYPICAL CABLE OD	mm	Ø2.0

## FEATURES

- \* ST CONNECTORS ARE COMPLIANT IEC 60874-10; F04 (JIS C5973); TIA/EIA-604-2A
- \* LC CONNECTORS ARE COMPLIANT TIA/EIA-640-10; LUCENT: 640-252-256
- \* PRODUCT QUALITY COMPLY WITH GR-326-CORE

PART#: GBLCT-D2-

**LENGTH (METERS)**

01, 02, 03, 04, 05, 06, 07,  
08, 09, 10, 15, 20, 25, 30

REF# CS-110

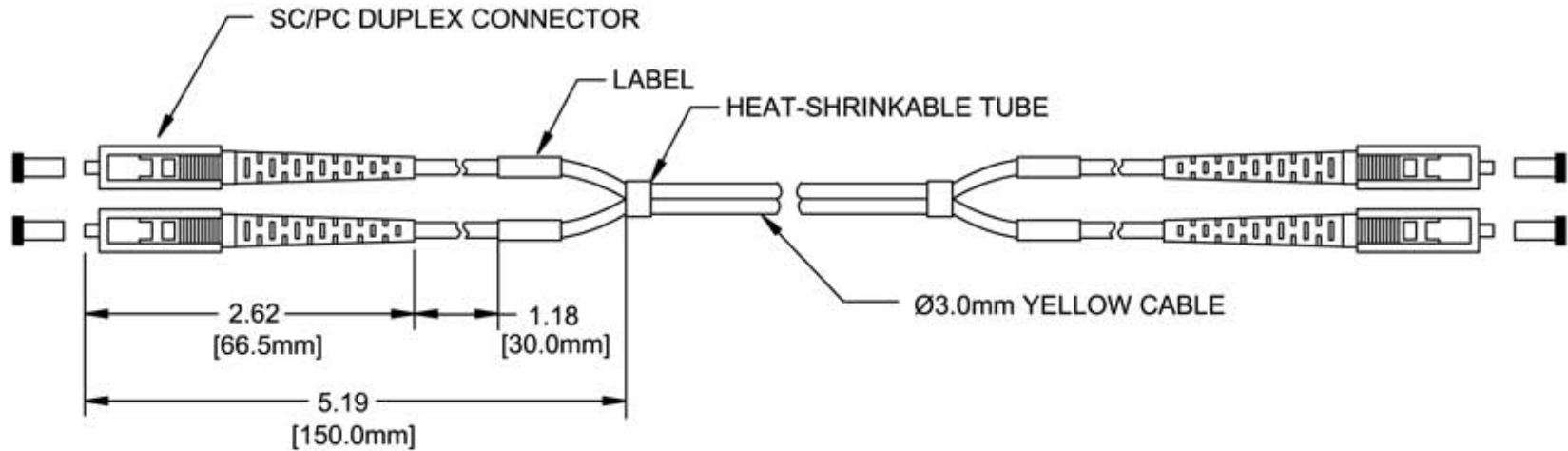


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**GBLCT-D2-XX LC TO ST DUPLEX  
MULTIMODE 62.5/125 (ORANGE JACKET)**





## SPECIFICATIONS

PARAMETER	UNITS	
FERRULE ID	um	125
INSERTION LOSS	dB	≤0.2
RETURN LOSS	dB	≥50
DURABILITY (500 TIMES)	dB	≤0.3
OPERATING TEMPERATURE	°C	-40~+85
STORAGE TEMPERATURE	°C	-40~+85
TYPICAL CABLE OD	mm	Ø3.0

## FEATURES

- \* SC CONNECTORS ARE COMPLIANT IEC 60874-14; F04 (JIS C5973); TIA/EIA-604-3A
- \* PRODUCT QUALITY COMPLY WITH GR-326-CORE

PART#: GBSC2-D1-

### LENGTH (METERS)

01, 02, 03, 04, 05, 06, 07,  
08, 09, 10, 15, 20, 25, 30

REF# CS-111

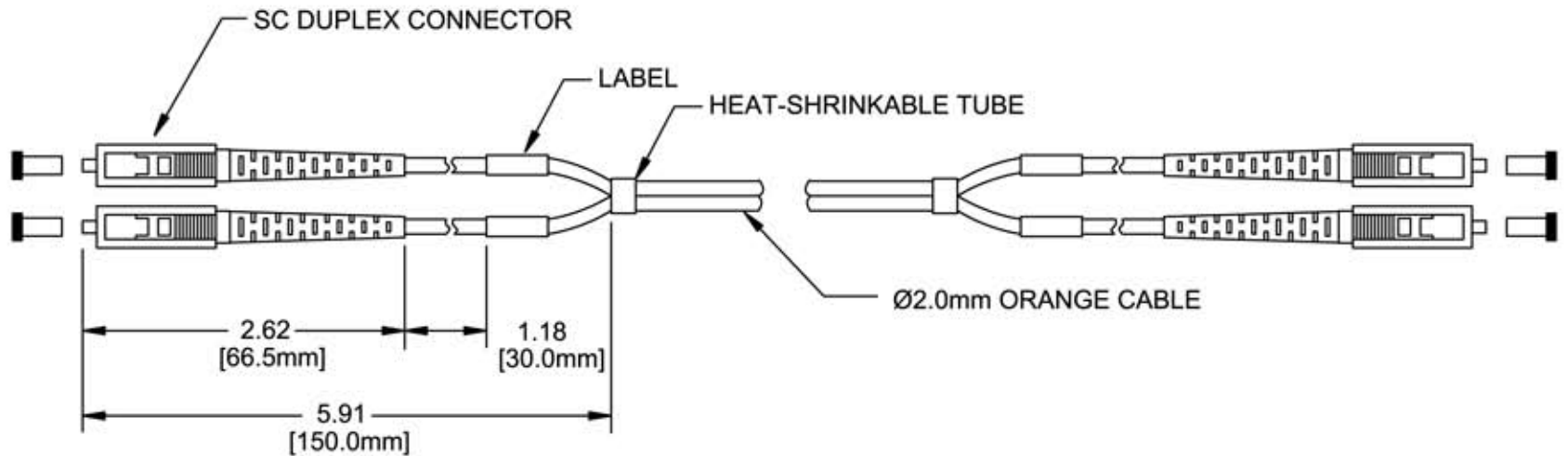


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**GBSC2-D1-XX SC TO SC DUPLEX  
SINGLEMODE 9/125 (YELLOW JACKET)**





### SPECIFICATIONS

PARAMETER	UNITS	
FERRULE ID	um	127
INSERTION LOSS	dB	<0.3
DURABILITY (500 TIMES)	dB	<0.3
OPERATING TEMPERATURE	°C	-40~+85
STORAGE TEMPERATURE	°C	-40~+85
TYPICAL CABLE OD	mm	Ø2.0

### FEATURES

- \* SC CONNECTORS ARE COMPLIANT IEC 60874-14; F04 (JIS C5973); TIA/EIA-604-3A
- \* PRODUCT QUALITY COMPLY WITH GR-326-CORE

PART#: GBSC2-D2-XX

LENGTH (METERS)
01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 15, 20, 25, 30

REF# CS-112

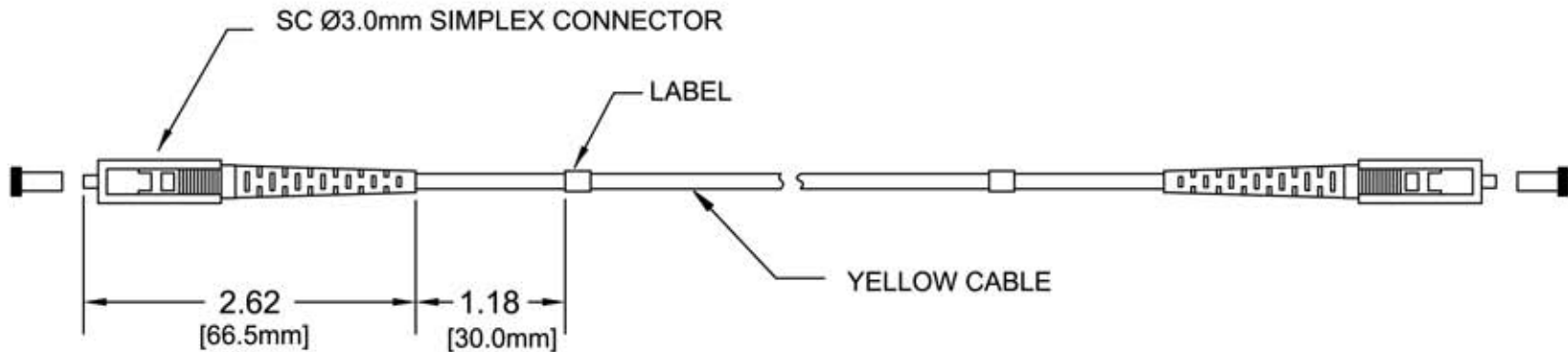
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**GBSC2-D2-XX SC TO SC DUPLEX MULTIMODE 62.5/125 (ORANGE JACKET)**





REF# CS-113



**SPECIFICATIONS**

PARAMETER	UNITS	
FERRULE ID	um	125
INSERTION LOSS	dB	<0.2
RETURN LOSS	dB	>50
DURABILITY (500 TIMES)	dB	<0.3
OPERATING TEMPERATURE	°C	-40~+85
STORAGE TEMPERATURE	°C	-40~+85
TYPICAL CABLE OD	mm	Ø3.0

**FEATURES**

- \* SC CONNECTORS ARE COMPLIANT IEC 60874-14; F04 (JIS C5973); TIA/EIA-604-3A
- \* PRODUCT QUALITY COMPLY WITH GR-326-CORE



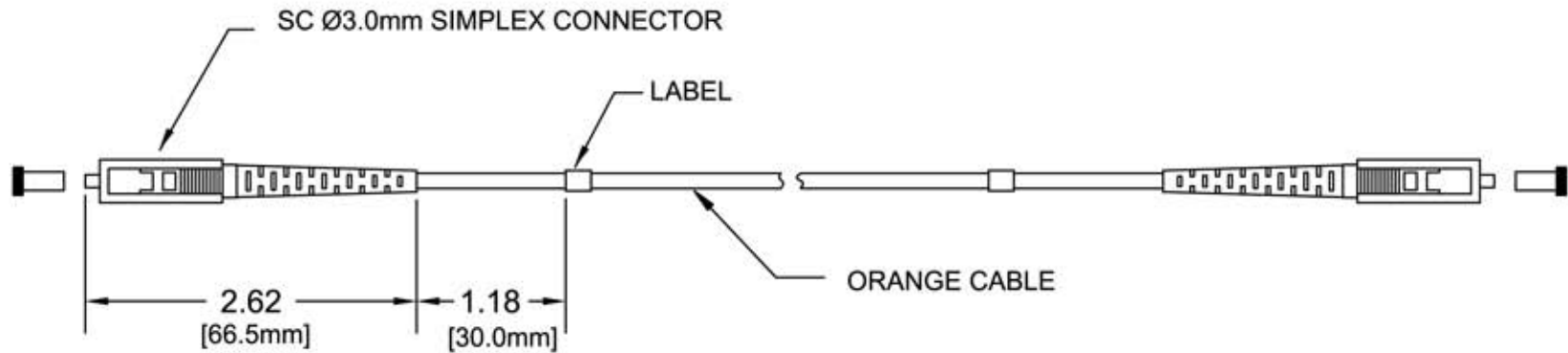
PART#: GBSC2-S1-XX

LENGTH (METERS)
01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 15, 20, 25, 30

REF# CS-113


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→ GBSC2-S1-XX SC TO SC SIMPLEX SINGLEMODE 9/125 (YELLOW JACKET)



### SPECIFICATIONS

PARAMETER	UNITS	
FERRULE ID	um	127
INSERTION LOSS	dB	≤0.3
DURABILITY (500 TIMES)	dB	≤0.3
OPERATING TEMPERATURE	°C	-40~+85
STORAGE TEMPERATURE	°C	-40~+85
TYPICAL CABLE OD	mm	Ø3.0

### FEATURES

- \* SC CONNECTORS ARE COMPLIANT IEC 60874-14; F04 (JIS C5973); TIA/EIA-604-3A
- \* PRODUCT QUALITY COMPLY WITH GR-326-CORE



PART#: GBSC2-S2-XX

**LENGTH (METERS)**

01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 15, 20, 25, 30

REF# CS-114



**Allen Tel Products, Inc.**

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GBSC2-S2-XX SC TO SC SIMPLEX MULTIMODE 62.5/125 (ORANGE JACKET)

# Patch Cords

## Fiber Optic Cable Assemblies



- Full line of high quality single mode and multimode fiber optic cable assemblies
- All cables are 100% tested for insertion loss and back reflection
- Test results come with each cable
- Insertion loss <0.2dB (single mode) <0.3dB (multimode)
- Typical back reflection <-55dB
- Available in industry standard lengths in meters



**GB SC2 - D2 - 03**

### Connector to Connector Configurations

FC2	FC to FC
FCC	FC to SC
FCT	FC to ST
LC2	LC to LC
LCC	LC to SC
LCT	LC to ST
MF2	MTRJ Female to MTRJ Female
MFC	MTRJ Female to SC
MFL	MTRJ Female to LC
MFT	MTRJ Female to ST
MM2	MTRJ Male to MTRJ Male
MMC	MTRJ Male to SC
MMF	MTRJ Male to MTRJ Female
MMT	MTRJ Male to ST
SC2	SC to SC
ST2	ST to ST
STC	ST to SC

### Length

01 - 1 Meter	08 - 8 Meter
02 - 2 Meter	09 - 9 Meter
03 - 3 Meter	10 - 10 Meter
04 - 4 Meter	15 - 15 Meter
05 - 5 Meter	20 - 20 Meter
06 - 6 Meter	25 - 25 Meter
07 - 7 Meter	30 - 30 Meter

### Fiber

- 1 - Single Mode 9/125 (Yellow Jacket)
- 2 - Multi Mode 62.5/125 (Orange Jacket)
- 3 - Multi Mode (Only) 50/125 (Blue Jacket)

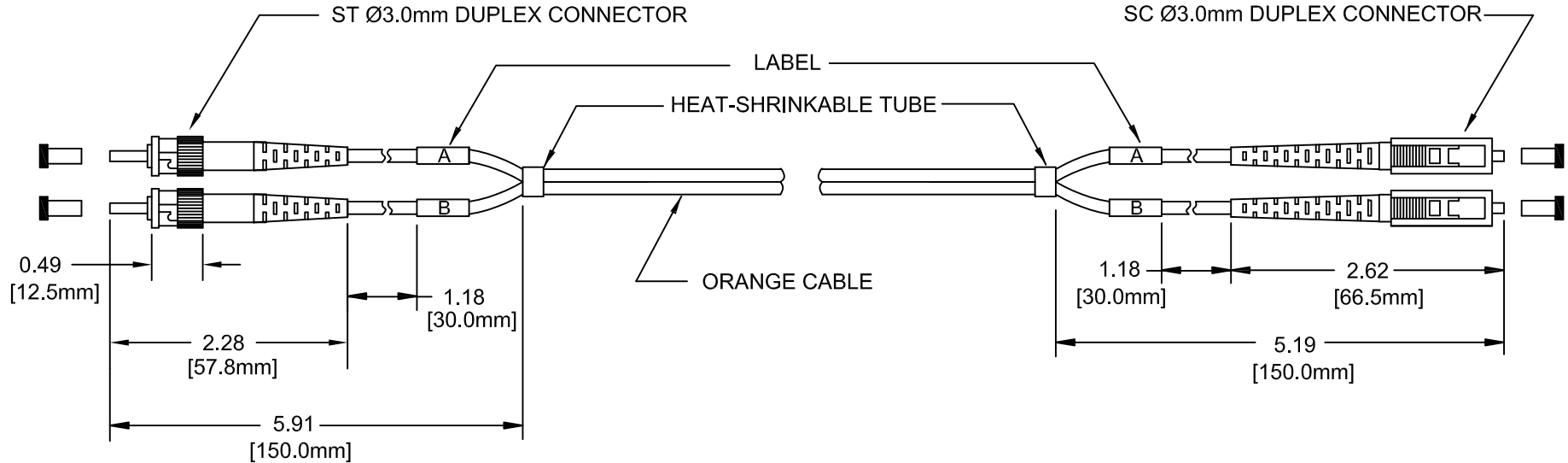
### Cable Type

- S - Simplex
- D - Duplex

**REF# CS-115**

## Ordering Example

**GBSC2-D2-03**  
 SC to SC duplex 62.5/125 microns multimode - 3 Meters



### SPECIFICATIONS

PARAMETER	UNITS	
FERRULE ID	um	127
INSERTION LOSS	dB	<0.3
DURABILITY (500 TIMES)	dB	<0.3
OPERATING TEMPERATURE	°C	-40~+85
STORAGE TEMPERATURE	°C	-40~+85
TYPICAL CABLE OD	mm	Ø2.0

### FEATURES

- \* ST CONNECTORS ARE COMPLIANT IEC 60874-10; TIA/EIA-604-2
- \* SC CONNECTORS ARE COMPLIANT IEC 60874-14; F04 (JIS C5973); TIA/EIA-604-3A
- \* PRODUCT QUALITY COMPLY WITH GR-326-CORE
- \* RoHS COMPLIANCE

PART#: GBSTC-D2-XX

LENGTH (METERS)
01, 02, <del>03</del> , 04, 05, 06, 07, 08, 09, 10, 15, 20, 25, 30

REF# CS-116



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**GBSTC-D2-XX ST TO SC DUPLEX MULTIMODE 62.5/125 (ORANGE JACKET)**







# Patch Cords

## Fiber Optic Cable Assemblies



- Full line of high quality single mode and multimode fiber optic cable assemblies
- All cables are 100% tested for insertion loss and back reflection
- Test results come with each cable
- Insertion loss <0.2dB (single mode) <0.3dB (multimode)
- Typical back reflection <-55dB
- Available in industry standard lengths in meters



**GB SC2 - D2 - 03**

### Connector to Connector Configurations

FC2	FC to FC
FCC	FC to SC
FCT	FC to ST
LC2	LC to LC
LCC	LC to SC
LCT	LC to ST
MF2	MTRJ Female to MTRJ Female
MFC	MTRJ Female to SC
MFL	MTRJ Female to LC
MFT	MTRJ Female to ST
MM2	MTRJ Male to MTRJ Male
MMC	MTRJ Male to SC
MMF	MTRJ Male to MTRJ Female
MMT	MTRJ Male to ST
SC2	SC to SC
ST2	ST to ST
STC	ST to SC

**REF# CS-117**

### Length

01 - 1 Meter	08 - 8 Meter
02 - 2 Meter	09 - 9 Meter
03 - 3 Meter	10 - 10 Meter
04 - 4 Meter	15 - 15 Meter
05 - 5 Meter	20 - 20 Meter
06 - 6 Meter	25 - 25 Meter
07 - 7 Meter	30 - 30 Meter

### Fiber

- 1 - Single Mode 9/125 (Yellow Jacket)
- 2 - Multi Mode 62.5/125 (Orange Jacket)
- 3 - Multi Mode (Only) 50/125 (Blue Jacket)

### Cable Type

- S - Simplex
- D - Duplex

## Ordering Example

**GBSC2-D2-03**

SC to SC duplex 62.5/125 microns multimode - 3 Meters

# Patch Cords

## Fiber Optic Cable Assemblies



- Full line of high quality single mode and multimode fiber optic cable assemblies
- All cables are 100% tested for insertion loss and back reflection
- Test results come with each cable
- Insertion loss <0.2dB (single mode) <0.3dB (multimode)
- Typical back reflection <-55dB
- Available in industry standard lengths in meters



**GB SC2 - D2 - 03**

### Connector to Connector Configurations

FC2	FC to FC
FCC	FC to SC
FCT	FC to ST
LC2	LC to LC
LCC	LC to SC
LCT	LC to ST
MF2	MTRJ Female to MTRJ Female
MFC	MTRJ Female to SC
MFL	MTRJ Female to LC
MFT	MTRJ Female to ST
MM2	MTRJ Male to MTRJ Male
MMC	MTRJ Male to SC
MMF	MTRJ Male to MTRJ Female
MMT	MTRJ Male to ST
SC2	SC to SC
ST2	ST to ST
STC	ST to SC

**REF# CS-118**

### Length

01 - 1 Meter	08 - 8 Meter
02 - 2 Meter	09 - 9 Meter
03 - 3 Meter	10 - 10 Meter
04 - 4 Meter	15 - 15 Meter
05 - 5 Meter	20 - 20 Meter
06 - 6 Meter	25 - 25 Meter
07 - 7 Meter	30 - 30 Meter

### Fiber

- 1 - Single Mode 9/125 (Yellow Jacket)
- 2 - Multi Mode 62.5/125 (Orange Jacket)
- 3 - Multi Mode (Only) 50/125 (Blue Jacket)

### Cable Type

- S - Simplex
- D - Duplex

## Ordering Example

**GBSC2-D2-03**

SC to SC duplex 62.5/125 microns multimode - 3 Meters