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

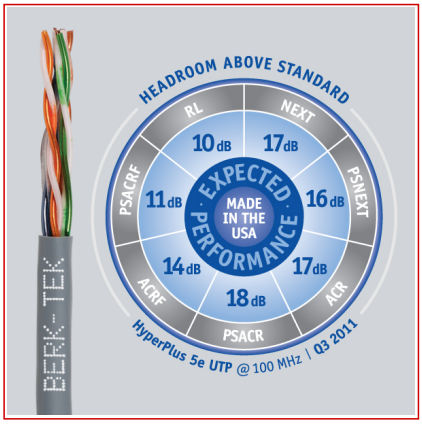
HyperPlus 5e Plenum Rated Category 5e UTP

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.

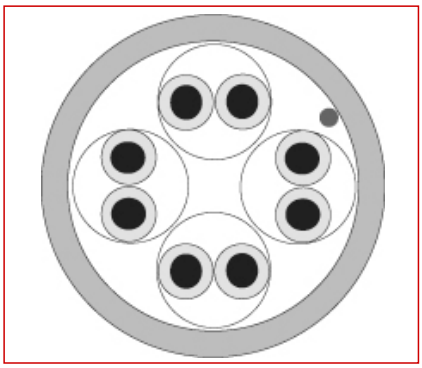
Some other manufacturers talk about "typical" values, at Berk-Tek, we hold ourselves to a higher standard. We won't talk about typicals, we talk about what is true, guaranteed, and independently verified.

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

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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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

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HyperPlus 5e Plenum Rated Category 5e UTP

HyperPlus 5e Plenum

Part Number: 10032207

HyperPlus 5e Parametric Data: Electrical

	RL (dB)			NEXT (dB)			PSNEXT (dB)		
FREQ MHz	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

	IL (dB/100m)			ACR (dB/100m)			PSACR (dB/100m)		
FREQ MHz	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

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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)

	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	Product Guarantee
1	63.8	**63.8**	78.7	60.8	**60.8**	73.0	40.0	35.0
4	51.8	**51.8**	66.7	48.8	**48.8**	61.1	40.0	23.0
10	43.8	**43.8**	58.7	40.8	**40.8**	53.1	40.0	15.0
16	39.7	**39.7**	54.3	36.7	**36.7**	48.8	38.0	10.9
20	37.8	**37.8**	52.3	34.8	**34.8**	46.7	37.0	9.0

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HyperPlus 5e Plenum Rated Category 5e UTP

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		
Conductor	24 AWG Bare Copper	
Conductor diameter - in. (mm)	0.020	(0.58)
Insulated conductor dia.-in.(mm)	0.038	(0.97)
Cable diameter - in. (mm)	0.210	(5.33)
Nom. cable wt.-lb./kft. (kg/kft)	25	(11.34)
Max. installation tension - lb. (N)	25	(110)
Min. bend radius - in. (mm)	1	(25.4)

Color Code		
Pair-1	**White/Blue**	**Blue**
Pair-2	**White/Orange**	**Orange**
Pair-3	**White/Green**	**Green**
Pair-4	**White/Brown**	Brown

Temperature Rating (degrees C)	
Installation	0 to +50
Operation	-20 to +60

HyperPlus 5e Plenum Technical Data - Parametric Measurements

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

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HyperPlus 5e Plenum Rated Category 5e UTP

Selling delivery information

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LANmark-1000 Enhanced Category 6 Plenum Rated

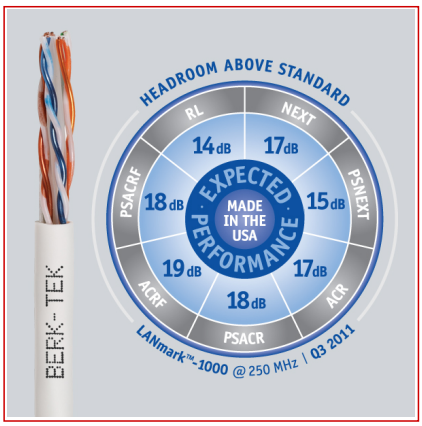
LANmark-1000 Plenum

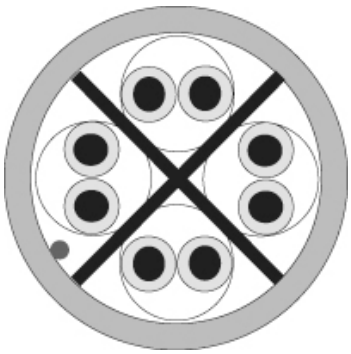
REF# CS-002

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

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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berktek.support@nexans.com

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

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LANmark-1000 Enhanced Category 6 Plenum Rated

LANmark-1000 Plenum

Part Number: 10032026

LANmark-1000 Parametric Data: Electrical

	RL (dB)			NEXT (dB)			PSNEXT (dB)		
FREQ MHz	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

	IL (dB/100m)			ACR (dB/100m)			PSACR (dB/100m)		
FREQ MHz	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

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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	Product Guarantee

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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		
Conductor	23 AWG Bare Copper	
Conductor diameter - in. (mm)	0.022	(0.58)
Insulated conductor dia.-in.(mm)	0.037	(1.04)
Cable diameter - in. (mm)	0.226	(5.69)
Nom. cable wt.-lb./kft. (kg/km)	29	(13.2)
Max. installation tension - lb. (N)	25	(110)
Min. bend radius - in. (mm)	1	(25.4)

Color Code		
Pair-1	**White/Blue**	**Blue**
Pair-2	**White/Orange**	**Orange**
Pair-3	**White/Green**	**Green**
Pair-4	**White/Brown**	Brown

Temperature Rating (degrees C)	
Installation	0 to +50
Operation	-20 to +60

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

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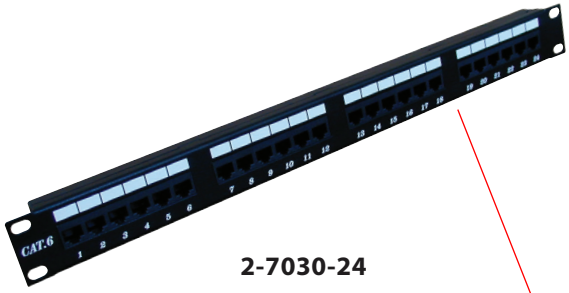
LANmark-1000 Plenum

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 c UL us

Accessories

Cat5e Punchdown Tools

Part Number	Description
814B	Single Wire Punchdown Tool

Cat 5e Patch Cords

Part Number	Description
2-7403-xx	3-ft Patch Cord
2-7407-xx	7-ft Patch Cord
2-7410-xx	10-ft Patch Cord
2-7415-xx	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	REF# CS-003
2-7030-24	24-port, Cat 5e patch panel, 568A/B wiring, 1.75"H x 19"W x 3.5"D	REF# CS-004
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-005

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Detailed Specifications & Technical Data

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

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



Overview

Hinged wall mount bracket for 24 port patch panels.

Additional Information

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

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

48 Port Patch Panel Hinged Wall Mount Bracket

103B1 ← REF# CS-008





Overview

Hinged wall mount bracket for 48 port patch panels.

Additional Information

Part #	103B1
for Use with	48 port patch panels

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



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 millohms
- **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 polythylene
- **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

c UL us

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
2-7407-xx	7-ft. Cat 5e Patch Cord
2-7410-xx	10-ft Cat 5e Patch Cord
2-7415-xx	15-ft Cat 5e Patch Cord

REF# CS-009
REF# CS-010
REF# CS-011
REF# CS-012

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

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

REF# CS-015

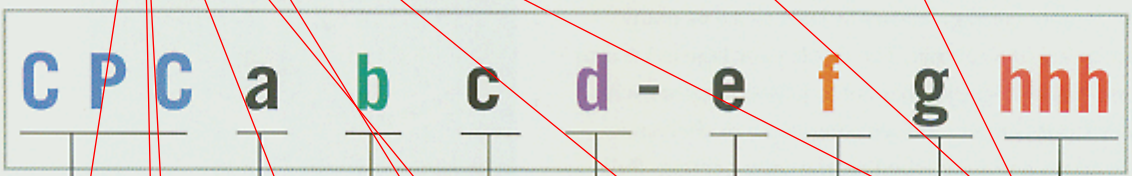
REF# CS-013

REF# CS-014

Patch Cord Product Identifier

Patch Cord Identifier

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



Copper Patch Cord

Termination End One
3 GS8E RJ45
5 VisiPatch™
6 D8PS RJ45
8 110GS

Termination End Two
2 MGS Modular Jack
3 GS8E RJ45
4 Unterminated
5 VisiPatch™
6 D8PS RJ45
8 110GS

Cordage
1 1074E GS3 4 pair
2 3071E LSZH solid
4 1074D 4 Pair stranded
5 1074D 2 Pair stranded
6 1074D 1 Pair stranded
7 2071E Solid Plenum
8 1071E Solid Non Plenum
9 3074E LSZH Stranded
A 1081 Solid w/Flute

Wiring Scheme
1 TIA 568A
2 TIA 568B
3 Pairs 1x4, 2x3 (crossover cords)

MGS Module Color
0 Not Applicable
1 Black
2 Blue
3 Gray
4 Green
5 Ivory
6 Orange
7 Red
8 White
9 Yellow

Cord Color
1 Black
2 Blue
3 Gray
4 Green
5 Ivory
6 Orange
7 Red
8 White
9 Yellow
A Sable
B Lilac
C Slate
Z Dark Blue 1074D

UOM
F Foot
M Meter

Length
001 1
002 2
...
050 50
...
100 100

Patch Cord Portfolio Options

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

REF# CS-016



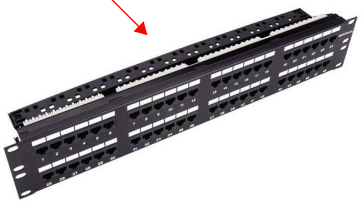
STAR19110C6-12

REF# CS-017



STAR19110C6-24

REF# CS-018



STAR19110C6-48

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

REF# CS-019

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 millohms
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 c UL us

Accessories

Cat 6 Punchdown Tools

Part Number	Description
STAR110C6-T	4-Wire Punchdown Tool
814B	Single Wire Punchdown Tool

Cat 6 Patch Cords

Part Number	Description
STAR661-04-xx	4-ft Patch Cord
STAR661-08-xx	8-ft Patch Cord
STAR661-12-xx	12-ft Patch Cord

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

Wire Management

Part Number	Description
19110RK	19" x 84" Relay Rack
19WM350	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 *Color: Gray Only*

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24 Port Patch Panel Hinged Wall Mount Bracket

103B1-24

REF# CS-020



Overview

Hinged wall mount bracket for 24 port patch panels.

Additional Information

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

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

48 Port Patch Panel Hinged Wall Mount Bracket

103B1

REF# CS-021





Overview

Hinged wall mount bracket for 48 port patch panels.

Additional Information

Part #	103B1
for Use with	48 port patch panels

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

49255-H24

REF# CS-022



This product is already 1 RU - but 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:	
JOB NUMBER:			

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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.

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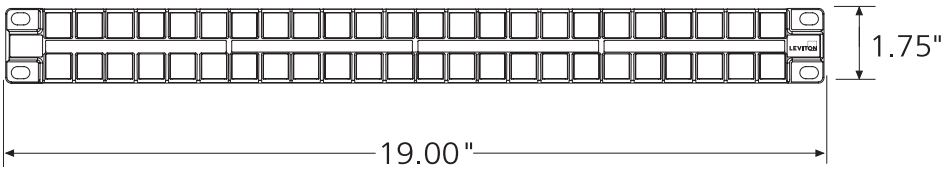
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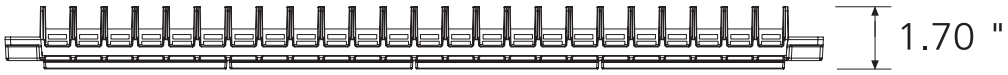
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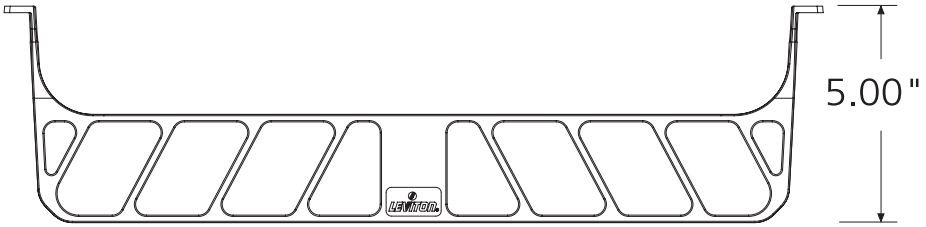
ELECTRONIC FILES

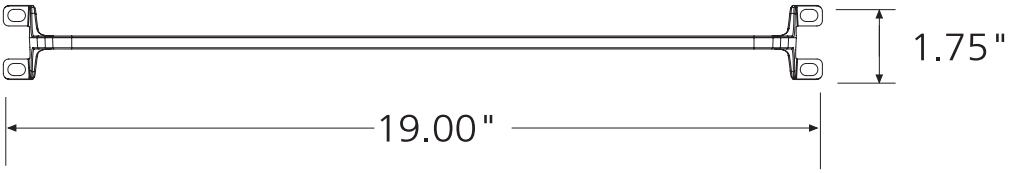
For CAD files, typical specs, or technical drawings (.DXF, .DWG), visit www.leviton.com.





Patch Panel





Cable Management Bar

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

E13 4325

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Released May 2013



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 millohms
- **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 polythylene
- **Jacket:** PVC
- **Plastic Plug:** High impact, UL 94V-0 rated thermoplastic

c UL us

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

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2-7001

REF# CS-027

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

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

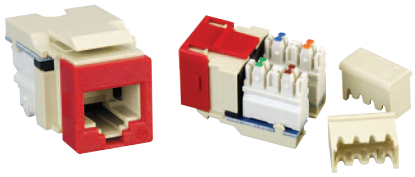
Features

- 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

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

c UL us



STAR600A-RC

Product Information

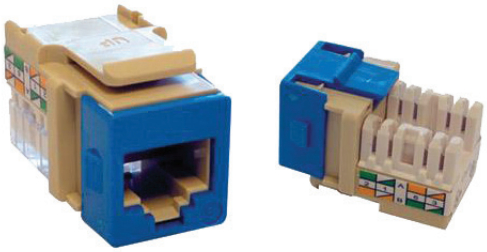
Suttle Part Number	Description
2-7001	8-Position, 8-Conductor Jack, 568A/B, 110 IDC Block
STAR600A-RC	8-Position, 8-Conductor, 568A, with CorroShield®, 110 IDC Block
STAR600B-RC	8-Position, 8-Conductor, 568B, with CorroShield®, 110 IDC Block

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.

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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

c UL us

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

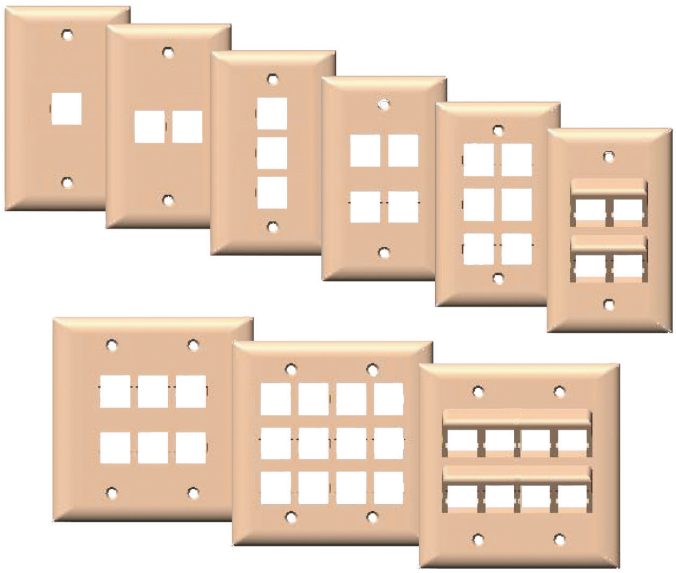
Product Information

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*

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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

c UL us

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

REF# CS-029

REF# CS-030

REF# CS-031

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SpeedStar™ Blank, Smooth Faceplate - White (85)

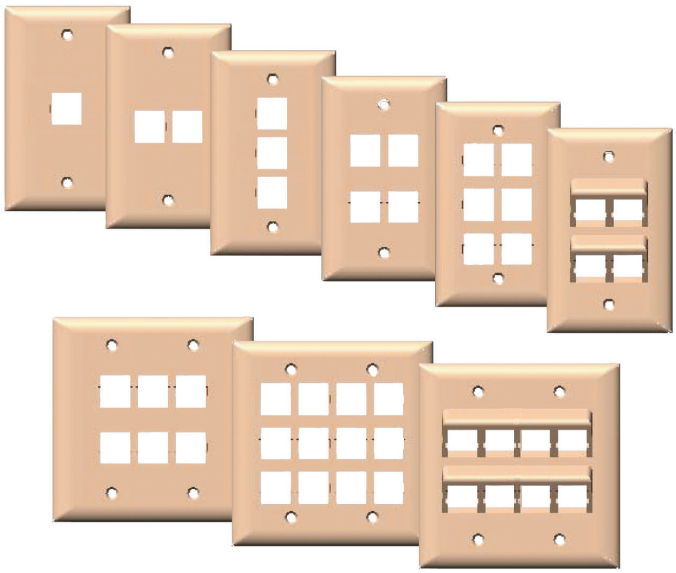


Overview

Blank, single gang, smooth finish

Additional Information

Part #	107-85
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	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

c UL us

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 ← REF# CS-033
2-2508AD-xx	Angled 8-port faceplate, double gang, smooth finish
2-2512D-xx	12-port faceplate, double-gang, smooth finish
	Colors (-xx): (-52) Electrical Ivory, (-64) Light Almond, (-85) White

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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





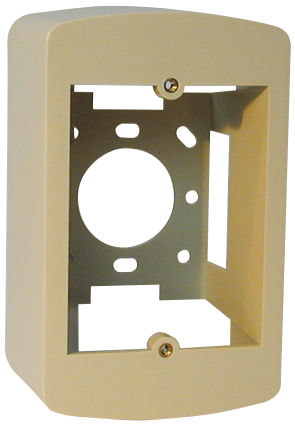
Overview

Blank Connector insert

Additional Information

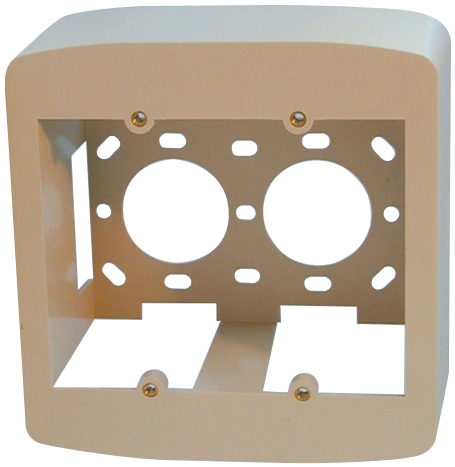
Part #	STAR500B-85
Color	White (85)
for Use with	All SpeedStar™ Faceplates and Housings

REF# CS-035



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)

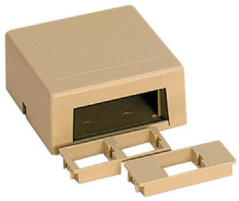
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Product Information

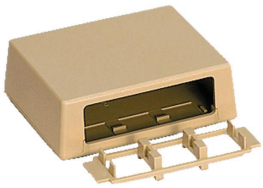
Suttle Part Number	Description
STARMBD-xx	SpeedStar™ single gang oversized mounting box; includes (2) mounting screws and (1) adhesive pad
STARMBDD-xx	SpeedStar™ double gang oversized mounting box; includes (2) mounting screws and (1) adhesive pad
	Colors (-xx): (-52) Electrical Ivory, (-64) Light Almond, (-85) White

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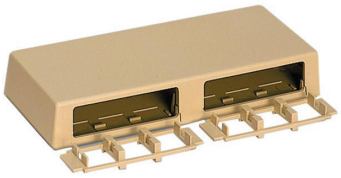
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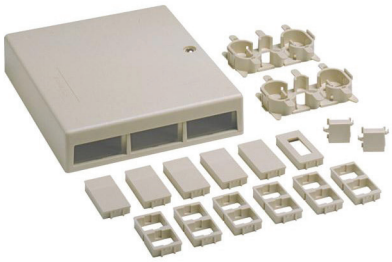
STAR558-xx



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

c UL us

Product Information

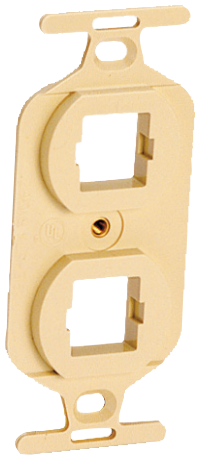
Suttle Part Number	Description
STAR558-xx	1- or 2-port surface mount housing
STAR107SM-xx	Up to 3-port surface mount housing
STAR108SM-xx	Up to 6-port surface mount housing; *Not Available in (64) Light Almond*
STARMMB-xx	Up to 12-port surface mount housing; *Not Available in (64) Light Almond*
	Colors (-xx): (-52) Electrical Ivory, (-64) Light Almond, (-85) White

REF# CS-038

REF# CS-039

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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

c UL us

Product Information

Suttle Part Number	Description
STAR1062-xx	2-port mounting frame ← REF# CS-040
STAR1064M-xx	4-port duplex insert style mounting frame (includes mounting plate inserts) ← REF# CS-041
860A-xx	Duplex electrical style faceplate
	Colors (-xx): (-52) Electrical Ivory, (-85) White

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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

REF# CS-042

Packaging

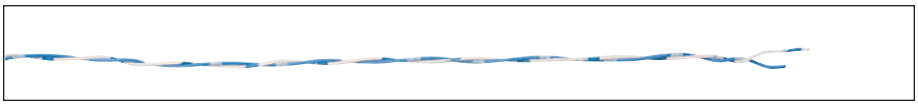
- 1000' spool (SP)
- Other lengths and put-ups are also available

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

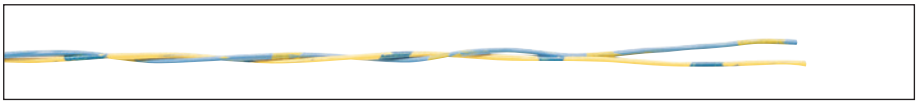
- Supplied on non-returnable spools as shown in table (SP)

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

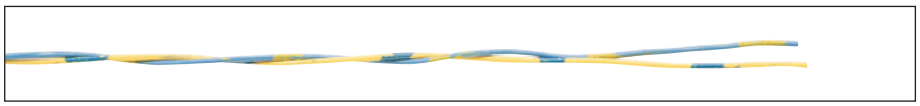
General Cable

RoHS Compliant Directive 2002/95/EC

c UL us LISTED

Customer Premise Cross-Connect Wire Tight Twist

Type “F” • Spec. 5008



PRODUCT NUMBER	PAIRS	COLOR CODE PAIR 1	PKG.	PKG./ CARTON	O.D. (INCHES)	WEIGHT (LBS/KFT)
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
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

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

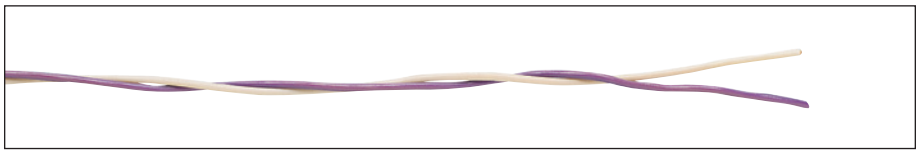
- Suitable for voice and data transmission up to 16 Mbps
- For cross-connecting between terminals of a distribution frame or other premise equipment

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

Data subject to change without notice.

Electrical Characteristics

	22 AWG
DC Resistance (max) Ohms/1000 ft @ 20˚C	17.8
Coaxial Capacitance (max) microfarads/kft @ 23˚C	0.09
Insulation Resistance (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)

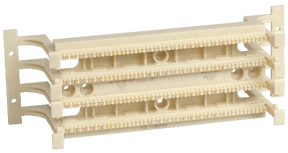
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RoHS Compliant Directive 2002/95/EC

General Cable

Product Specifications

COMMSCOPE®



107058901 | 110AA2-100FT REF# CS-043

110 Field Terminated Cross-Connect System Terminal Blocks, 20 X 110C-5

Dimensions

Depth	82.55 mm | 3.25 in
Height	91.19 mm | 3.59 in
Width	272.29 mm | 10.72 in

Electrical Specifications

ANSI/TIA Category	5 | 6 | When used with 110 Category 5e or 110 Categoy 6 patch cord

Environmental Specifications

Operating Temperature	-10 °C to +60 °C (+14 °F to +140 °F)
Safety Standard	cUL | UL

General Specifications

Product Design	110
Product Type	Block
Color	White
Lug Attachment	Field attached
Package Quantity	1
Pairs, quantity	100

Mechanical Specifications

Block Type	A
Material Type	Copper alloy | High-impact, flame retardant, thermoplastic
Plug Insertion Life, minimum	200 times

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

RoHS COMPLIANT

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Product Specifications

COMMSCOPE®



107058935 | 110AA2-300FT

REF# CS-044

110 Field Terminated Cross-Connect System Terminal Blocks, 60 X 110C-5

Dimensions

Depth	82.55 mm | 3.25 in
Height	274.07 mm | 10.79 in
Width	272.29 mm | 10.72 in

Electrical Specifications

ANSI/TIA Category	5 | 6

Environmental Specifications

Operating Temperature	-10 °C to +60 °C (+14 °F to +140 °F)
Safety Standard	cUL | UL

General Specifications

Product Design	110
Product Type	Block
Lug Attachment	Field attached
Package Quantity	1
Pairs, quantity	5

Mechanical Specifications

Material Type	Copper alloy
Plug Insertion Life, minimum	200 times

Regulatory Compliance/Certifications

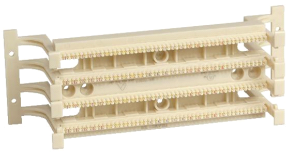
Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

RoHS COMPLIANT

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Product Specifications

COMMSCOPE®



107058919 | 110AB2-100FT REF# CS-045

110 Field Terminated Cross-Connect System Terminal Blocks, 4 X 110C-5, 20 X 110C-4

Dimensions

Depth	82.55 mm | 3.25 in
Height	91.19 mm | 3.59 in
Width	272.29 mm | 10.72 in

Electrical Specifications

ANSI/TIA Category	5 | 6

Environmental Specifications

Operating Temperature	-10 °C to +60 °C (+14 °F to +140 °F)
Safety Standard	cUL | UL

General Specifications

Product Design	110
Product Type	Block
Lug Attachment	Field attached
Package Quantity	1
Pairs, quantity	4

Mechanical Specifications

Material Type	Copper alloy
Plug Insertion Life, minimum	200 times

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

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Product Specifications

COMMSCOPE®



107058943 | 110AB2-300FT

REF# CS-046

110 Field Terminated Cross-Connect System Terminal Blocks, 12 X 110C-5, 60 X 110C-4

Dimensions

Depth	82.55 mm | 3.25 in
Height	274.07 mm | 10.79 in
Width	272.29 mm | 10.72 in

Electrical Specifications

ANSI/TIA Category	5 | 6 | When used with 110 Category 5e or 110 Categoy 6 patch cord

Environmental Specifications

Operating Temperature	-10 °C to +60 °C (+14 °F to +140 °F)
Safety Standard	cUL | UL

General Specifications

Product Design	110
Product Type	Block
Color	White
Lug Attachment	Field attached
Package Quantity	1
Pairs, quantity	300

Mechanical Specifications

Block Type	A
Material Type	Copper alloy | High-impact, flame retardant, thermoplastic
Plug Insertion Life, minimum	200 times

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

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Product Specifications

COMMSCOPE®



103801247 | 110C-4 REF# CS-047

110 Connecting Block, 4 pair count, 10 per package

Dimensions

Depth	23.62 mm | 0.93 in
Height	6.35 mm | 0.25 in
Width	30.48 mm | 1.20 in

Environmental Specifications

Operating Temperature	-10 °C to +60 °C (+14 °F to +140 °F)
Safety Standard	cUL | UL

General Specifications

Product Design	110
Product Type	Block
Color	White
Lug Attachment	Field attached
Package Quantity	10
Pairs, quantity	4

Mechanical Specifications

Conductor Gauge, stranded	22 AWG | 23 AWG | 24 AWG | 26 AWG
Material Type	Copper alloy
Outlet/Module Contact Plating	Nickel
Plug Insertion Life, minimum	200 times

Regulatory Compliance/Certifications

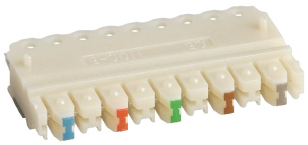
Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

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Product Specifications

COMMSCOPE®



103801254 | 110C-5 REF# CS-048

110 Connecting Block, 5 pair count, 10 per package

Dimensions

Depth	23.62 mm | 0.93 in
Height	6.35 mm | 0.25 in
Width	38.10 mm | 1.50 in

Environmental Specifications

Operating Temperature	-10 °C to +60 °C (+14 °F to +140 °F)
Safety Standard	cUL | UL

General Specifications

Product Design	110
Product Type	Block
Color	White
Lug Attachment	Field attached
Package Quantity	10
Pairs, quantity	5

Mechanical Specifications

Conductor Gauge, stranded	22 AWG | 23 AWG | 24 AWG | 26 AWG
Material Type	Copper alloy
Outlet/Module Contact Plating	Nickel
Plug Insertion Life, minimum	200 times

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

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Product Specifications



107831133 | 110A3 REF# CS-049

110 Jumper Trough With Legs

Dimensions

Depth	133.35 mm | 5.25 in
Height	67.06 mm | 2.64 in
Width	272.29 mm | 10.72 in

Environmental Specifications

Operating Temperature	-10 °C to +60 °C (+14 °F to +140 °F)

General Specifications

Product Design	110
Product Type	Trough
Color	White
Package Quantity	1

Mechanical Specifications

Material Type	Flame retardant molded plastic

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

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BACKBOARDS

CS-050 Plywood Backboard, 4’ X 4’, ea. REF# CS-050

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

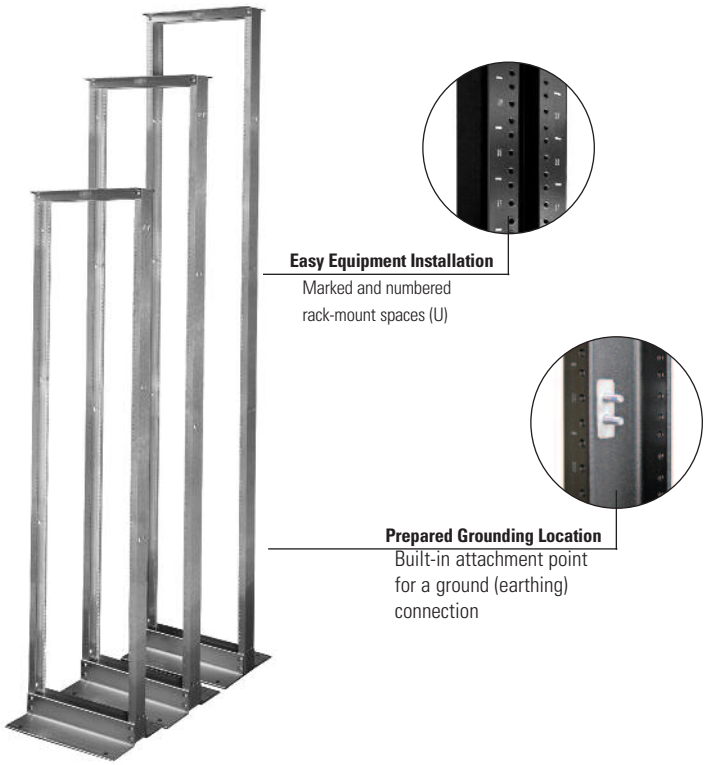
- Use Standard Rack with vertical and horizontal cable managers to support interconnect and network equipment in telecommunications rooms, equipment rooms and data centers.
- Use with shelves to support other equipment.

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



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.

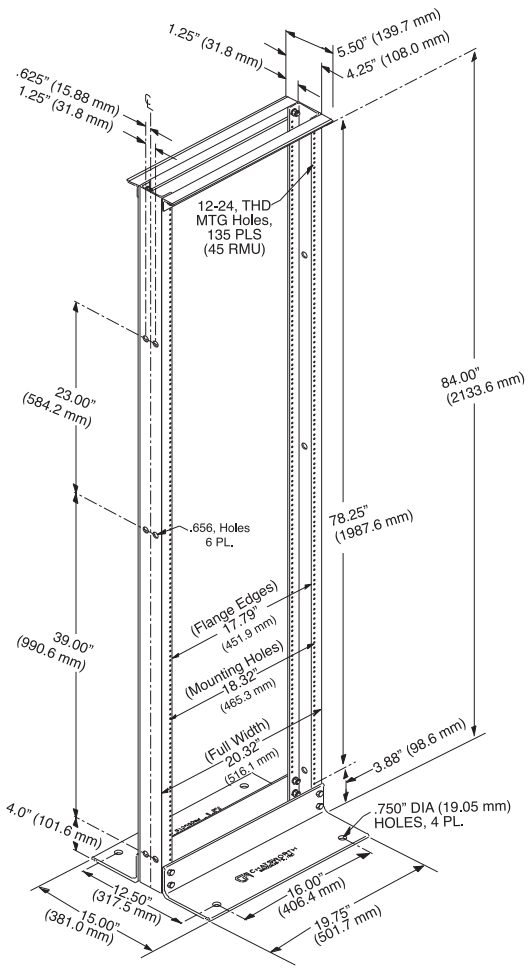
Because most Standard Rack applications require cable management, CPI's vertical cable managers attach directly to the side of the Standard Rack. Vertical cable managers organize cables by rack-mount space simplifying future moves, adds and changes to the network. The best solution includes horizontal 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



7' (2.1 m) Rack Shown

REF# CS-051

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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WIREMOLD

legrand®

TELE-POWER® POLES

Bring Wiring Down to Business

Dropping 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. NEW!
- **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. NEW!

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

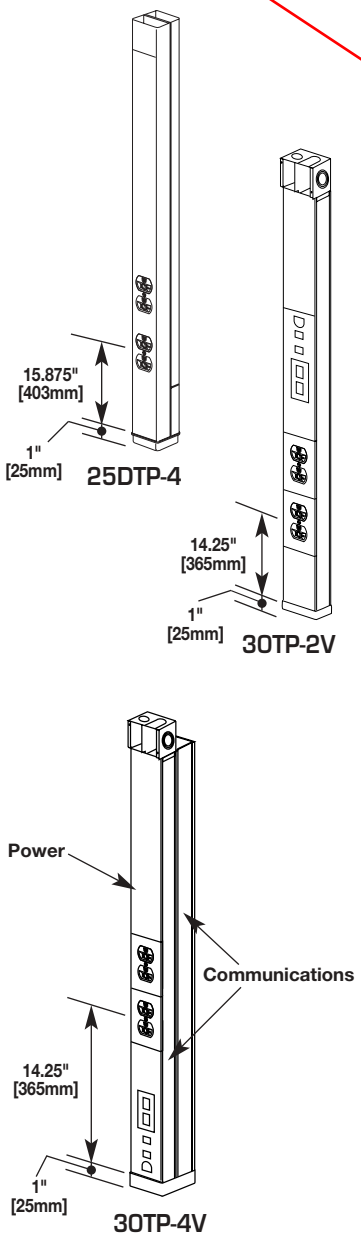


25DTP-4ACT pole with additional inserts.

REF# CS-053

REF# CS-052

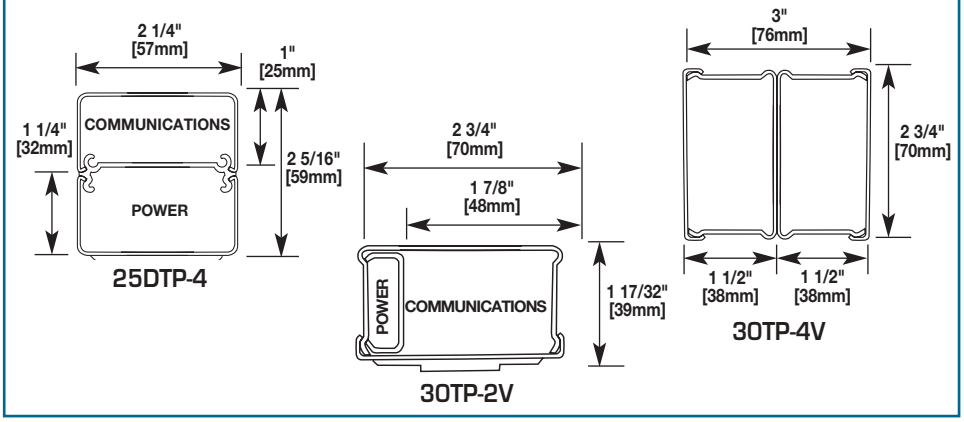
Receptacle Heights



Ordering Guide

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



Listings/Approvals

ICC-ES (International Code Council)
ESR-2184

COLA (City of Los Angeles)
RR 25651

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[1]
X-U Fastener	Carbon Steel	0.157"	5 μm Zinc[1]
CC27 Clip	Carbon Steel	13 GA	5 μm Zinc[1]
Wire[2]	Carbon Steel	12, 9 or 8 GA	5 μm Zinc[1]

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.

3.3.3.3 Technical Data

Allowable Loads for Hilti Ceiling Clip Assemblies Installed in Normal Weight Concrete[1,2,3,4]

Ceiling Clip	Concrete Compressive Strength											
	4000 psi (27.6 MPa)						6000 psi (41.4 MPa)					
	Tension		Shear		45 Degree		Tension		Shear		45 Degree	
	lb	(kN)	lb	(kN)	lb	(kN)	lb	(kN)	lb	(kN)	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[1,2,3,4]

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)	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)

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 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".

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.

Allowable Loads for Hilti Ceiling Clip Assemblies in Minimum ASTM A36 ($F_y \geq 36$ ksi, $F_u \geq 58$ ksi)[1,2]

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

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 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[1]	Fastener Length in. (mm)	Shank Ø in. (mm)	Washer Ø	Packaging Qty[1]
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-054



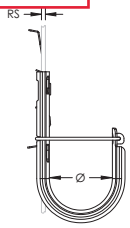
CADDY CAT HP J-Hook with Multi-Function Clip





- 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-056



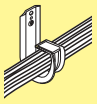
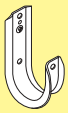
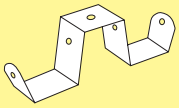
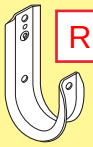
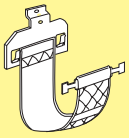
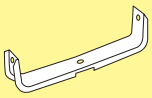
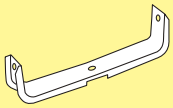
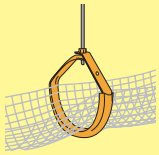
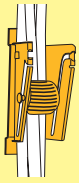
REF# CS-055

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 in²	20	15	10	1/4"	#12 – #8	30 lb
CAT16HP6Z34	1"	1.07 in²	20	15	10	3/8"	–	30 lb
CAT21HP4Z34	1 5/16"	2.29 in²	50	40	25	1/4"	#12 – #8	30 lb
CAT21HP6Z34	1 5/16"	2.29 in²	50	40	25	3/8"	–	30 lb
CAT32HP4Z34	2"	3.97 in²	90	60	35	1/4"	#12 – #8	30 lb
CAT32HP6Z34	2"	3.97 in²	90	60	35	3/8"	–	30 lb
CAT48HP4Z34	3"	9.26 in²	200	150	80	1/4"	#12 – #8	30 lb
CAT48HP6Z34	3"	9.26 in²	200	150	80	3/8"	–	30 lb
CAT64HP4Z34	4"	15.48 in²	330	220	140	1/4"	#12 – #8	30 lb
CAT64HP6Z34	4"	15.48 in²	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.

CABLECAT Capacity Guide

Area (sq. in.)	Capacity (4-pair) Cat. 5e	Cat. 6		Part Number	Area (sq. mm)	Capacity (4-pair) 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-057	CAT32	2.040	40	25
2 x 1.58	80	50		CAT100CM	2 x 1.020	40	25
15.28	300	185	 REF# CS-058	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-059

Part Number	CAT21BC200
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

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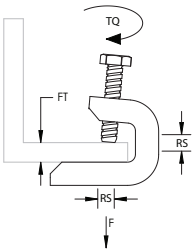
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BC200/BC400 Beam Clamp





- 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 I-beam.

REF# CS-060

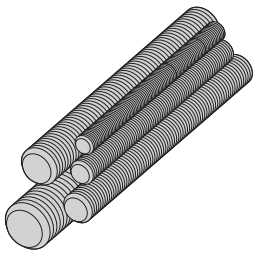
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ATR
All Threaded Rod

- 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

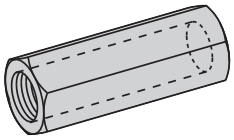


Part No. & Size	Threads Per Inch	Recommended Load Lbs.	kN	Wt./C Ft. (3048.0 cm) Lbs.	kg
ATR 1/4"	20	240	(1.07)	12	(5.44)
ATR 5/16"	18	400	(1.78)	19	(8.62)
ATR 3/8"	16	730	(3.24)	29	(13.15)
ATR 1/2"	13	1350	(6.00)	53	(24.04)
ATR 5/8"	11	2160	(9.60)	89	(40.37)
ATR 3/4"	10	3230	(14.37)	123	(55.79)
ATR 7/8"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

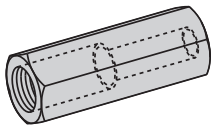
REF# CS-061

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 Lbs.	kN	Length In.	mm	Wt./C 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 Lbs.	kN	Length In.	mm	Wt./C 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 Lbs.	kN	Wt./C 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

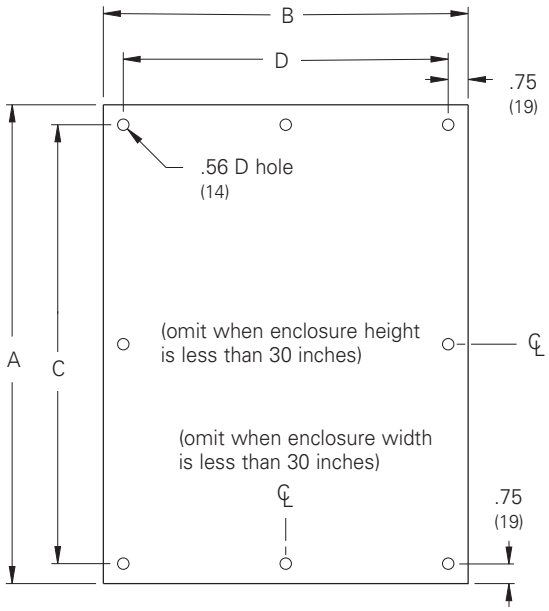
Discount Schedule: C2
Subclass: DS0

Illustration Sheet and Catalog Number

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	16.00x12.00	406X305
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
REF# CS-062 → 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

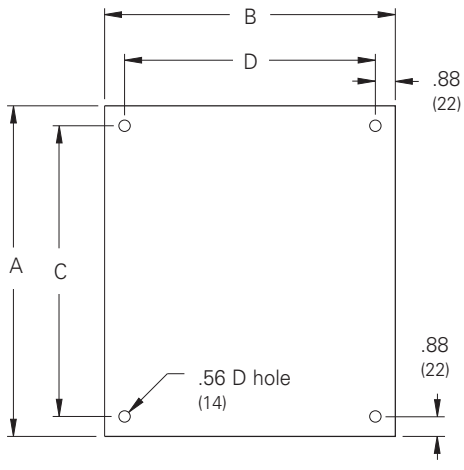
NEMA Flat Panel Catalog Number				A		B		C		D			Fits Enclosure Height x Width	
Painted Steel	Galvanized Steel	Stainless	Aluminum	in.	mm	in.	mm	in.	mm	in.	mm	Gauge	in.	mm
AW1612P	AW1612GP	AW1612SP	AW1612AP	13.00	330	9.00	229	11.25	286	7.25	184	12	16.00x12.00	406x305
AW1616P	AW1616GP	AW1616SP	AW1616AP	13.00	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

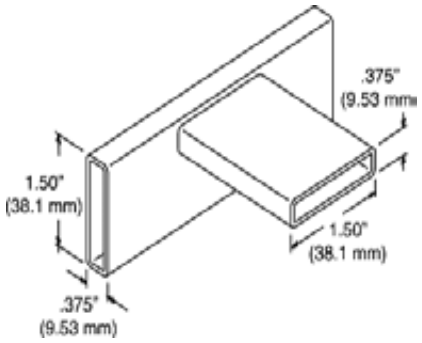
Notes: Dimensions are in inches. Millimeters shown are for reference only. Data subject to change without notice.

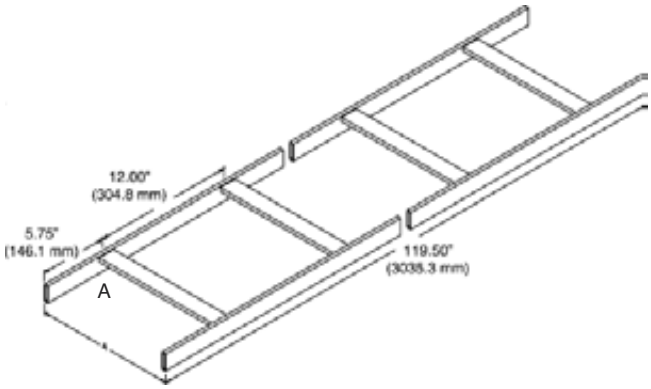
Product Cut Sheet

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





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.

REF# CS-063

CHATSWORTH PRODUCTS

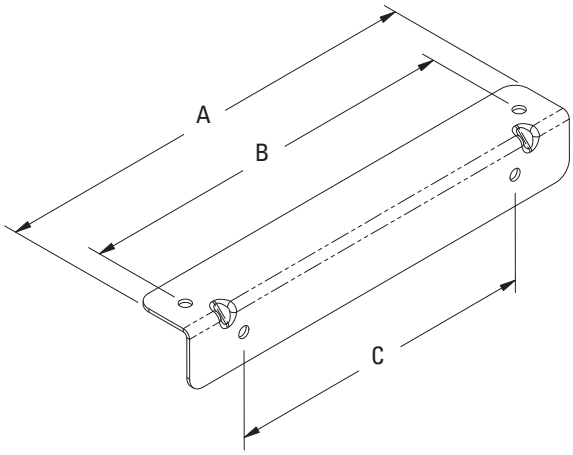
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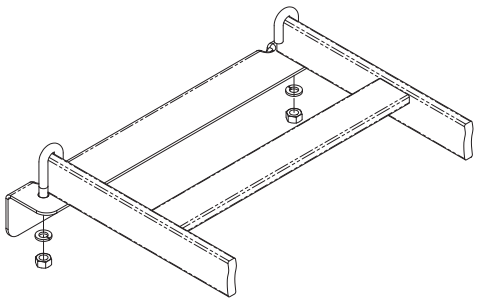
Product Information Sheet

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





11421	Wall Angle Support Kit

Color	
1	Gray
2	Computer White
7	Black
0	Gold

	Runway Width	Dim. A	Dim. B	Dim. C
04	4" (100 mm)	6" (150 mm)	4.31" (109.5 mm)	4.31" (109.5 mm)
06	6" (150 mm)	8" (200 mm)	6.31" (160.3 mm)	4" (100 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-064

11421	-	X	XX

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

CHATSWORTH PRODUCTS, INC.

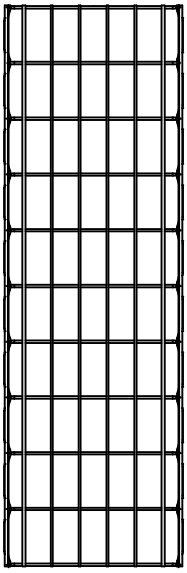
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CF 54 CABLOFIL CABLE TRAY

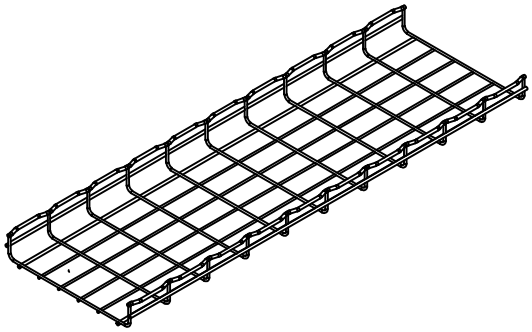
CABLOFIL®
INNOVATORS IN CABLE MANAGEMENT

8319 State Route 4
Mascoutah IL 62258
Phone: 800–658–4641
618–566–3230
Fax: 618–566–3250
www.cablofil.com

REF# CS-065



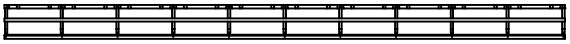
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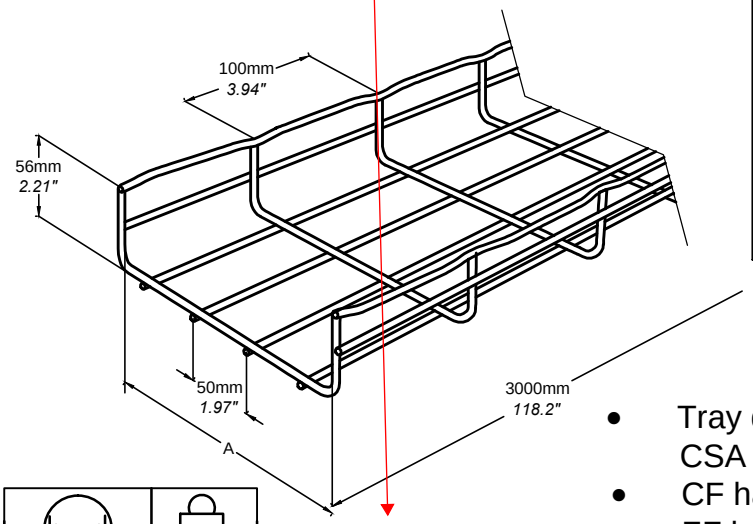
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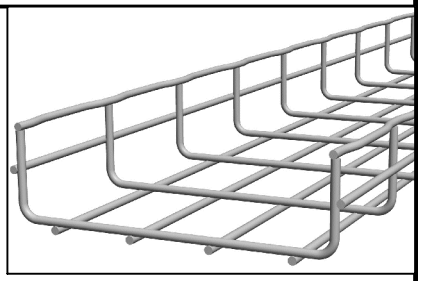


FRONT



SIDE





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

REF# CS-065

	A in	A mm	lb
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

* Top Wire Is Straight Type

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

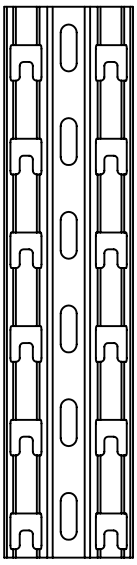
Copyright©2005 Cablofil, Inc.
Max wire diameter is 5.9mm. Sizes and Quantity vary by tray size.
US PAT# 6138961

CABCS0052

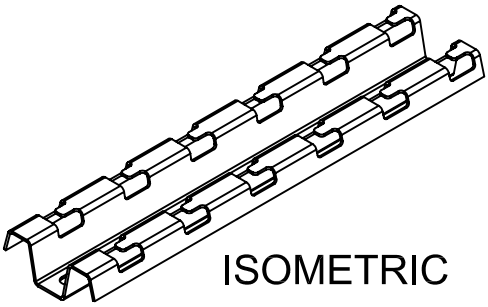
FAS P FAS PROFILE

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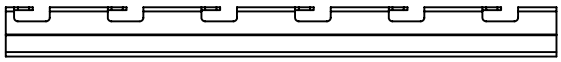
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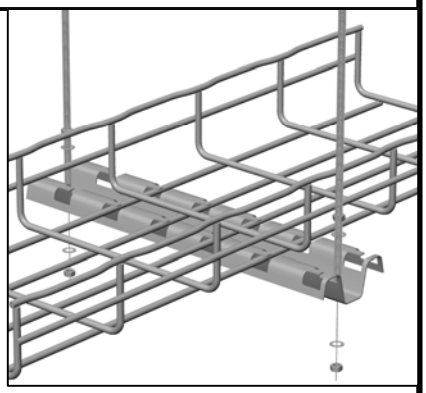
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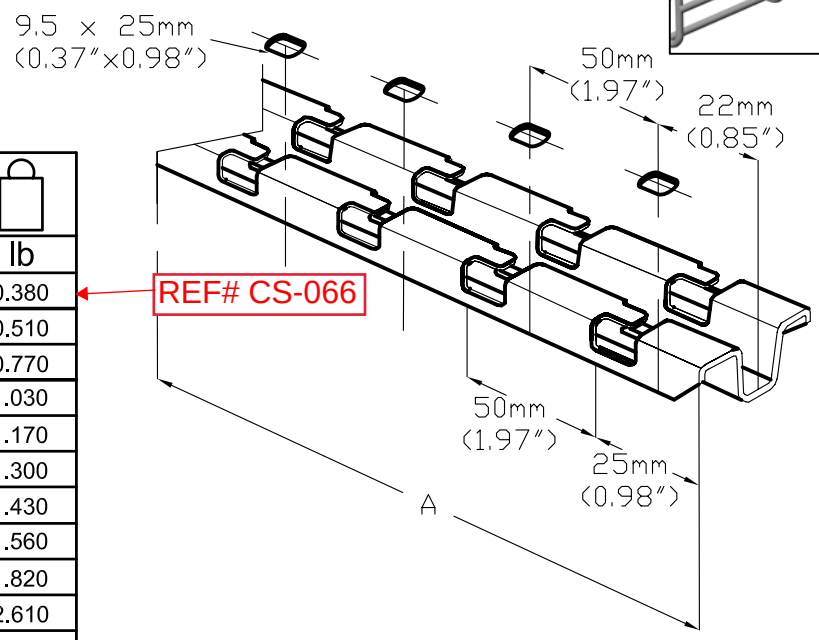


FRONT



SIDE





	A in	A mm	lb
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

REF# CS-066

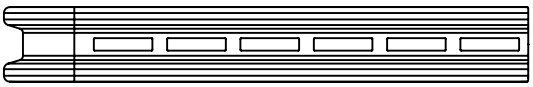
PG GC 316L BL PE

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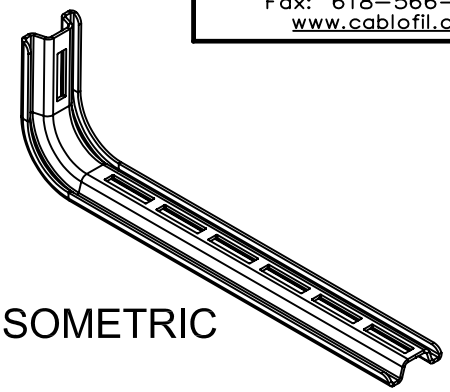
CS STANDARD L BRACKET

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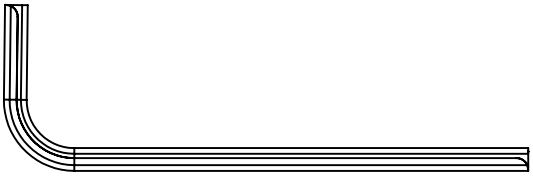
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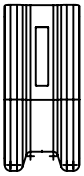
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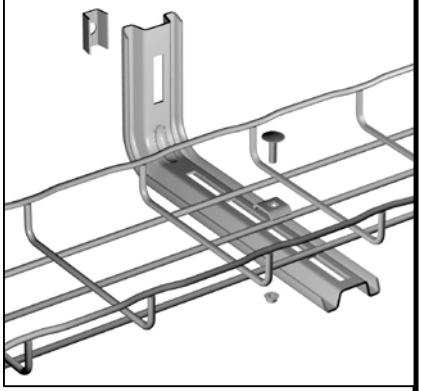
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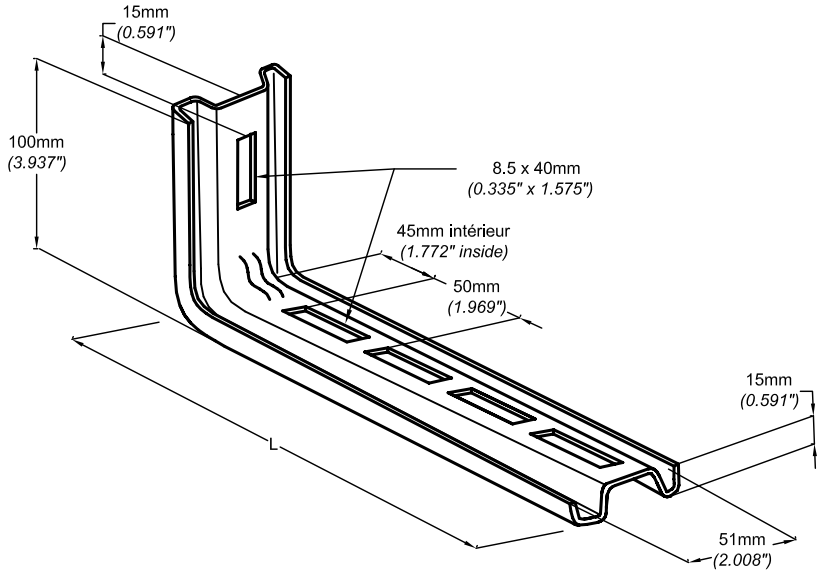


SIDE



FRONT





	L		
	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-067

PG GC 316L BL PE

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CABCS0160

111-01332

REF# CS-068

Article Number: 111-01332

RoHS

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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HellermannTyton



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	• Inside serrations allow for strong hold on cables and wire bundles. • Head design provides high tensile strength with very low insertion force. • Bent tail ensures a quick and simple installation.
	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 availableto 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"

Product Dimensions	Bundle Diameter Max. (Metric)	80.0mm
Material and Specifications		
	Material	Polyamide 6.6 (PA66)
	Material Shortcut	PA66
	Flammability	UL94 V2
	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)	1000
	Customs Number(Schedule B)	3926909987

REF# CS-069 Continued Details - PLENUM RATING

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
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

REF# CS-070

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

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Pan-Way® LD Surface Raceway System

PANDUIT®

SPECIFICATION SHEET

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-071
REF# CS-073
REF# CS-074
REF# CS-077
REF# CS-075
REF# CS-078
REF# CS-079
REF# CS-072
REF# CS-076



technical information

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

WH (White) has been substituted in model numbers per manufacturers directions for White

key features and benefits

1" bend radius control fittings:	Cables in the raceway will satisfy the minimum 1" bend radius requirement, preventing the potential degradation of cable performance; meets TIA/EIA standards
One-piece hinged design:	Cables can be laid into the raceway, speeding installation and preventing damage to cables
Adhesive backing:	Full length adhesive strip allows easy tool free installation and works well for temporary mounting
Available in different sizes & lengths:	Accommodates varying cable types and capacities. Available sizes - LD3, LD5,LD10 ; Available lengths - 6',8',10' (2m length available in Europe only)
Non-metallic construction:	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
Distinct colors:	Available in four standard colors- IW,EI,IG,WH. AW available in Europe only. Raceway is field paintable to match walls and surrounding décor
Full selection of fittings and surface mount boxes:	Wide variety of fittings and surface mount boxes available for various LD raceway applications

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.

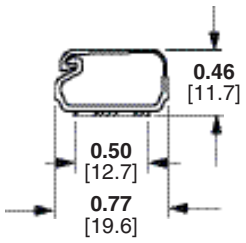
LD Raceway	
Raceway:	LD3IW**-A LD5IW**-A LD10IW**-A
LD Raceway Fittings	
Coupler:	CF*IW-E
Inside corner:	ICFC*IW-X
Outside corner:	OCFC*IW-X
Right angle:	RAFC*IW-X
End cap:	ECF*IW-X
Tee:	TFC*IW-X
Four-way cross:	CRFC5IW-X
Drop ceiling/ entrance end:	DCF*IW-X
Right angle/ entrance end:	RAEFXIW-X
LD5 to LD3 reducer:	RF5X3IW-E
LD10 to LD5 reducer:	RF10X5IW-X
LD10 to LD3 reducer:	RF10X3IW-X
LD5 fire box adapter:	FBA5IW-X
LD10 fire box adapter:	FBA10IW-X
LD Raceway Installation	
Installation tool:	LDW*-V
LD Raceway Surface Mount Outlet/Junction Boxes	
Low Voltage:	
Single gang, one–piece :	JB1IW-A
Single gang, one-piece, deep:	JB1DIW-A
Single gang, two-piece :	JBX3510IW-A
Single gang, two-piece, fast snap:	JB1FSIW-A
In-wall box adapter:	JBA-X
Power rated:	
Single gang, two-piece:	JBP1IW
Single gang, two-piece, deep:	JBP1DIW
Single gang, two-piece, extension:	JBP1EIW
Single gang, two-piece, intermediate:	JBP1IIW
Single gang, two-piece, snap on:	JBP1FSIW
Single gang, two-piece, round:	RJBX3510IW
Double gang, two-piece:	JBP2IW
Double gang, two-piece, deep:	JBP2DIW
Double gang, two-piece, divided:	JBP2SIW
Double gang, two-piece, snap on:	JBP2FSIW

* 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).

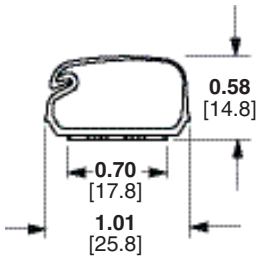
Wire Fill

Raceway Type and Configuration	Fill Area (in^2)	Electrical Cables			Data Grade Cables 24 AWG/UTP CM								Audio/Video		Fiber Optic Cable	
		14 AWG	12 AWG	10 AWG												
		THHN/T90			Cat 5e – Plenum		Cat. 6		Cat. 6A		Cat. 6A (SD)		RG6		2 Strand	
		0.111	0.130	0.164	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

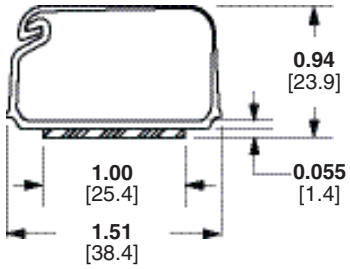
LD Raceway



LD3

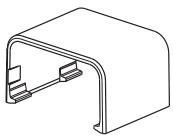


LD5

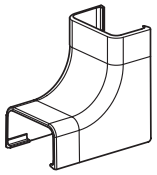


LD10

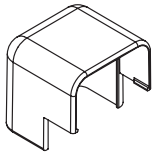
Fittings



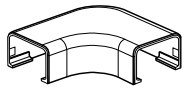
CF



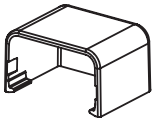
ICFC



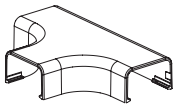
OCFC



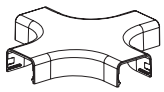
RAFC



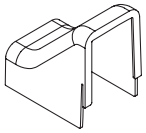
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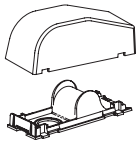
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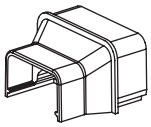
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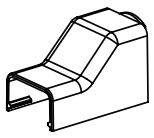
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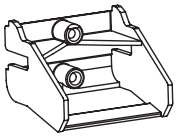
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RF



FBA



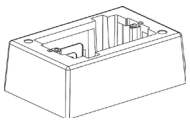
LDW

Compatible LD Raceway Surface Mount Outlet/Junction Boxes

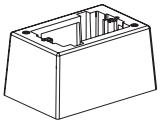
Low Voltage or Fiber Optic ONLY	
***JB1**-A*	Single gang one-piece outlet box with adhesive backing.
***JB1D**-A*	Single gang one-piece deep outlet box with adhesive backing
***JB1FS**-A*	Fast-Snap™ Single Gang Two-Piece Snap Together Outlet Box with adhesive backing.
***JBX3510**-A*	Single gang two-piece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

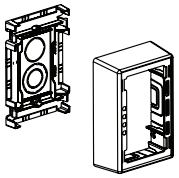
Surface Mount Outlet/Junction Boxes



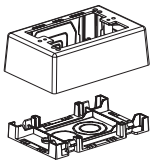
JB1



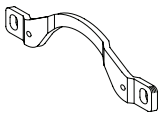
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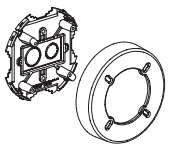
JB1FS



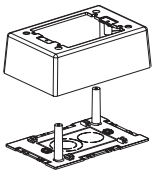
JBX3510



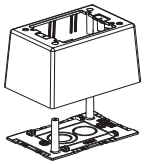
JBA



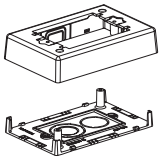
RJBX3510



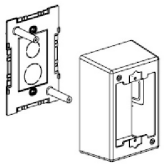
JBP1



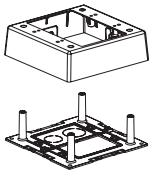
JBP1D



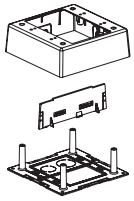
JBP1E



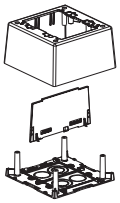
JBP1I



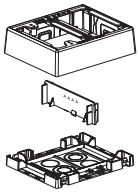
JBP2



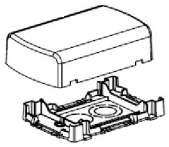
JBP2S



JBP2SD



JBP2FS



PSJBX

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Phone: 800.777.3300

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cs-emea@panduit.com
Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD.
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cs-ap@panduit.com
Phone: 65.6305.7575

PANDUIT JAPAN
Tokyo, Japan
cs-japan@panduit.com
Phone: 81.3.6863.6000

PANDUIT LATIN AMERICA
Guadalajara, Mexico
cs-la@panduit.com
Phone: 52.33.3777.6000

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For a copy of Panduit product warranties, log on to www.panduit.com/warranty

For more information

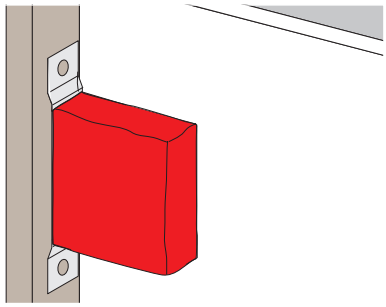
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or by phone: 800.777.3300

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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

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

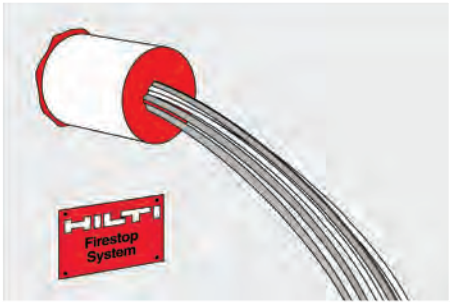
FM APPROVED

Technical Data	CP 617, CP 617L and CP 617XL
Dimensions 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)	
Consistency	Moldable putty
Color	Red
Application temperature	40 to 95° F (5 to 35° C)
Storage temperature	40 to 104° F (5 to 40° C)
Cure	Non-curing
Density	1.48 g/cm³
Volatile solvents	None
Asbestos fibers	None
Surface burning characteristics (ASTM E84-08)	Flame Spread: 15 Smoke Development: 10
Sound transmission classification (ASTM E90-97)	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-080

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

FILL, VOID OR CAVITY MATERIALFOR USE IN THROUGH-PENETRATION FIRESTOP SYSTEMS
SEE PRODUCT CATEGORY IN UL FIRE RESISTANCE DIRECTORY
66Y7

FM APPROVED

Technical Data	CP 618
Dimensions	18 in³ (Approx. 10-1/4" x 1-1/2" round)
Consistency	Moldable putty
Color	Red
Application temperature	40 to 95° F (5 to 35° C)
Cure	Non-curing
Density	Approx. 1.48 g/cm³
Surface burning characteristics (ASTM E84-08)	Flame Spread: 15 Smoke Development: 10
Sound transmission classification (ASTM E90-97)	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 in³ ea	12	00314721

10

REF# CS-081 and CS-082 (see below for model numbers)



Hilti Cable Management

ELECTRICAL FIRESTOP SOLUTIONS

Hilti. Outperform. Outlast.

Hilti Cable Management

LEADING THE INDUSTRY IN FIRE PROTECTION PRODUCTS, SERVICES AND SOFTWARE



Standard Applications



Speed Sleeve CP 653

Just squeeze and twist for an effortless custom fit, with powerful smoke control you'll have to see to believe. Ask us for a demo.

- Don't be misled by imitators and marketing ploys. Jobsite install is different than lab optimized results.
- No Screws, rubber bands, sealant or putty needed
- 2- and 4-inch sleeves, up to 100% fill
- Fully functional immediately after installation



Sleeve Kit CFS-SL SK

Satisfies most requirements for sleeved openings — so instead of wasting time making sleeves, you can move on to the next job.

- Prefabricated 2- or 4-inch sleeve
- Cut-and-mold firestop included
- Meets BICSI requirements for cable fill rates



Cable Collar CFS-CC

The industry's only surface mounted solution for cable bundles up to 4" diameter and up to 100% fill.

- Pre-cured, preformed
- No sealant needed
- Never expires
- For use with exisiting and new cable runs, independent of wall/ floor thickness



Plugs (Muffins) CFS-PL

It's simple and cost-effective to firestop small openings with this reusable intumescent plug.

- Pre-cured, preformed
- No electric tools or dispensers needed
- Up to 4-inch diameter and 60 % fill

Large Openings and Gang Solutions



Block CFS-BL

Pillows are for sleeping. Blocks are for building.

- Noncuring, dust-free
- One-sided, one-person installation
- No compression or special tools needed
- May be cut to size



Composite Sheet CFS-COS

Firestop large openings without wasting time on anchor methods — this intumescent sheet fastens directly to the surface.

- Customizable multiboard systems
- Fasten with Hilti DX/GX/BX tools — no drilling or anchors needed
- #304 stainless steel construction for good weatherability
- Nonmagnetic — no inductive loss in cables
- Compatible with Hilti Speed Sleeve and gangplate



Gangplate

This gangplate is ready to mount, right out of the package — on a stud or on the surface, before or after drywall.

- Integrated smoke seals — no need for additional firestop materials
- Fits 4-inch Hilti cable sleeves and stud distances of 16 and 24 inches

Conduits and Small Bundles



Cable Disc CFS-D 1”

Firestop small penetrations in 10 seconds or less with no sealant or backfill. Peel. Stick. Done.

- Surface-mounted
- No sealant or backfill needed
- Up to 1 inch in diameter and 100% fill
- UL systems for a wide variety of base materials and penetrations



FS ONE MAX

This premium firestop sealant is highly intumescent and water-based, so it’s easy to dispense and trowel to a smooth finish before painting.

- Smoke-, gas- and water-resistant after curing
- Seals most common penetrations in a variety of materials
- “Buy American”-compliant
- LEED compliant VOC results

Non-Fire-Rated Walls

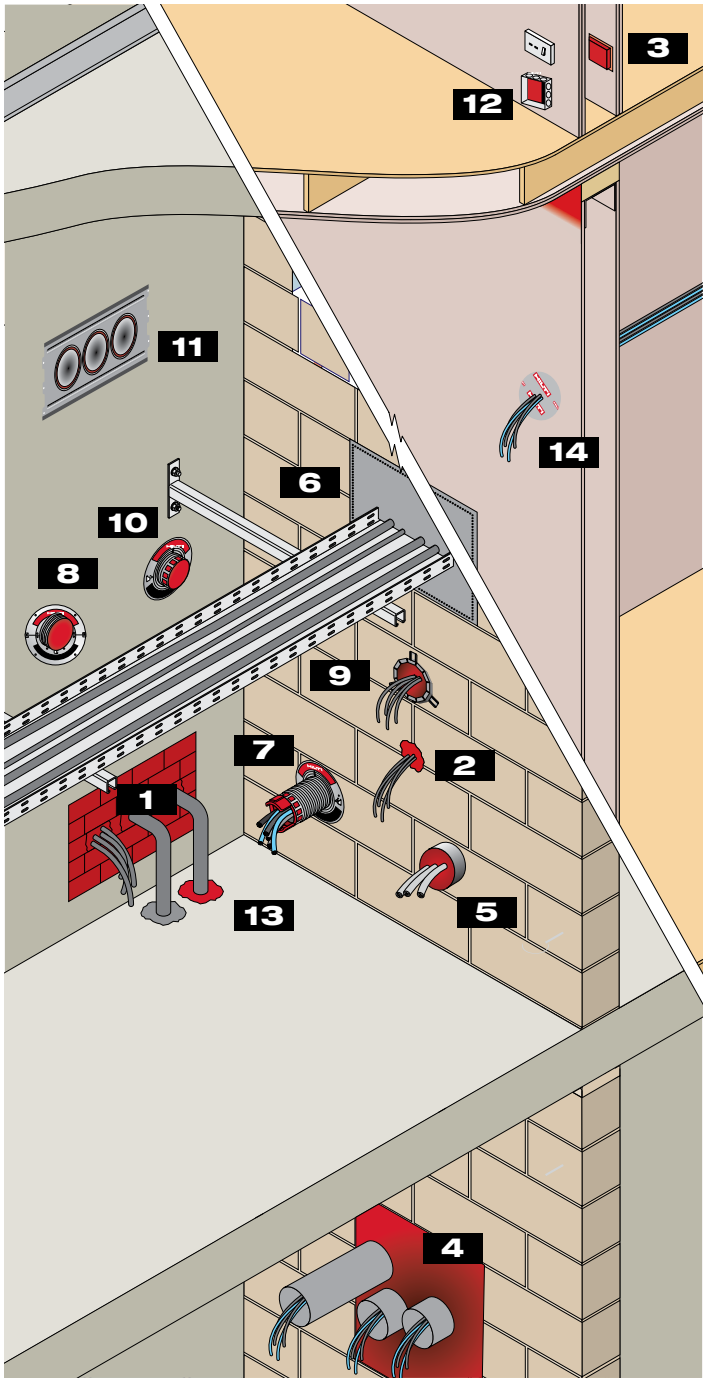


Smoke and Acoustic Sleeve CS-SL SA

Need sleeves for non-fire-rated walls, too? These lead the industry in air and sound ratings, and self-closing technology makes installation effortless.

- 2- and 4-inch options
- Excellent in-use sound and smoke ratings
- Self-closing
- Electrical, low-voltage/mid-voltage installations and telecom
- “Buy American”-compliant

Total Cable Management Positioning	New cable applications	Pre-existing cables	Frequent re-penetration	Moderate re-penetration	Fire rated assembly	Non-fire rated assembly
 Speed Sleeve (CP 653)	■		■		■	
 Retrofit Sleeve Kit (CFS-SL RK)		■		■	■	
 Firestop Sleeve Kit (CFS-SL SK)	■			■	■	
 Firestop Gangplate (CFS-SL GP)	■	■	■		■	
 Firestop Cable Collar (CFS-CC)	■	■		■	■	
 Firestop Block (CFS-BL)	■	■	■		■	
 FirestopComposite Sheet (CFS-COS)	■	■		■	■	
 Firestop Plug (CFS-PL)	■	■		■	■	
 Cable discs CFS-CD	■	■			■	
 Smoke and acoustic sleeve CS-SL SA	■		■			■



1. Firestop Block (CFS-BL)
2. Firestop Putty Stick (CP 618)
3. Firestop Putty Pad (CFS-P PA)
4. Fire Foam (CP 620)
5. Firestop Plug (CFS-PL)
6. Composite sheet CFS-COS
7. Speed Sleeve (CP 653)
8. Retrofit Sleeve Kit (CFS-SL RK)
9. Cable Collar (CFS-CC 4”)
10. Sleeve Kit (CFS-SL SK)
11. Gangplate (CFS-SL GP)
12. Firestop Box Insert
13. FS ONE MAX
14. Cable Discs (CFS D 1”)

Why is Hilti no. 1 for firestop solutions?

Software

Automate the most time-consuming tasks.

- **Hilti Button for Firestop** — Automatically identify penetrations, get firestop recommendations and generate reports. Get a free trial at **hiltibutton.us.hilti.com** (U.S.) or **hiltibutton.hilti.ca** (Canada)
- **Firestop Documentation Manager (CFS-DM)** — Plan and document every stage of your firestop project in a single application, generating progress reports and work permits at the click of a button. Get a free trial at **us.hilti.com/cfs-dm**

Website

Connect to support and countless resources.

- **Hilti Online** — Create an account to track your purchases and generate personalized product suggestions at **us.hilti.com**
- **Firestop Design Center** — Access all of Hilti's firestop resources, from products to software to support, at **us.hilti.com/firestop**

People

Our experts in the field and in the office have a collective approximate 30,000 years of experience in firestop — and we're here to help. Just call 1-800-879-8000 or contact us at us.hilti.com.

- **Field Engineers** — Consultants for designers and contractors on project specific applications
- **Account Managers** — Highly trained product and application experts
- **Fire Protection Specialists** — Quality assurance/quality control through firestop consultation, job site walkthroughs and accredited trainings
- **Cable Management Specialists** — Fire-rated cable pathway experts specializing in air movement reduction
- **Product Managers** — Identifying market needs and meeting them with innovation
- **Fire Protection Engineers** — Engineering Judgments for your unique applications

Education

Maintain your license and stay current by keeping yourself and your team educated.

- **Webinars** — Accrue professional-development hours at **us.hilti.com/webinar**
- **Continuing Education Seminars** — Invite us to host your lunch-and-learn at us.hilti.com/continuing-education

Compliance

Hilti helps you keep up with codes, standards and best practices across North America.

Member of FCIA

Order information

Order designation	Package content	Legend	Sales pack quantity	Item number
Speed Sleeve CP 653 2"	1x Speed sleeve with integrated firestop and smoke seal, 2x flanges, 2x adhesive firestop labels	①	1 pc	**2097882**
Speed Sleeve CP 653 4"	1x Speed sleeve with integrated firestop and smoke seal, 2x flanges, 2x adhesive firestop labels	①	1 pc	**2097883**
Gangplate CFS-SL GP 16”	2x FS gangplate CFS-SL GP 16”	②	1 pc	**2064273**
Gangplate CFS-SL GP 24”	2x FS gangplate CFS-SL GP 24”	②	1 pc	**2064274**
Sleeve Kit CFS-SL SK 2”	1x Firestop sleeve, 2x flanges, 2x 2" CFS-PL Firestop plugs, 2x adhesive firestop labels	③	1 pc	**2064271**
Sleeve Kit CFS-SL SK 4”	1x Firestop sleeve, 2x flanges, 2x 4" CFS-PL Firestop plugs, 2x adhesive firestop labels	③	1 pc	**2064272**
Composite Sheet CFS-COS	4x sheets 36” x 36”	④	1 pc	**2135884**
Cable Collar CFS-CC 4” (qty 2)	2x CFS-CC Firestop collar, 2x Firestop system adhesive labels	⑤	1 pc	**2065421**
Retrofit Sleeve Kit CFS-SL RK 2"	1x Firestop sleeve, 2x retrofit flanges, 2x 2" CFS-PL firestop plugs, 2x adhesive firestop labels	⑥	1 pc	**2064089**
Retrofit Sleeve Kit CFS-SL RK 4"	1x Firestop sleeve, 2x retrofit flanges, 2x 4" CFS-PL firestop plugs, 2x adhesive firestop labels	⑥	1 pc	**2064270**
Cable Disc CFS-D 1”	32x discs	⑦	1 pc	**2116245**
Block CFS-BL MC	20x CFS-BL Firestop block	⑧	20 pc	**3484119**
Plug CFS-PL 2” case of 10	1x CFS-PL 2” Firestop plug	⑨	10 pc	**2030021**
Plug CFS-PL 4” case of 6	1x CFS-PL 4” Firestop plug	⑨	6 pc	**2030022**
Putty Stick CP 618	12x Firestop putty sticks	⑩	12 pc	**314721**
Sealant FS-ONE MAX 10 oz tube 1 case	12x FS-ONE MAX tubes	⑪	12 pc	**2101534**
Sealant FS-ONE MAX 20 oz foil 1 case	25x FS ONE MAX 20 oz foil		25 pc	**2101535**
Sealant FS-ONE MAX 5 gal pail	1x / pail		1 pc	**2101536**
Putty Tape CP 619T 1”x12’	1x CP 619T 1”x12’ Firestop putty tape	⑫	1 pc	**305072**
Putty Pad CFS-P PA 6” x 7”	20x putty pads	⑬	20 pc	**2082283**
Putty Pad CFS-P PA 7-1/4” x 7-1/4”	20x putty pads	⑬	20 pc	**2082245**
Putty Pad CFS-P PA 9-1/4” x 9-1/4”	20x putty pads	⑬	20 pc	**2082246**
Box Insert 4" x 4" 50 pk	50x Firestop box insert	⑭	50 pc	**3417183**
Box box Insert 4-11/16" x 4-11/16" 50 pk	50x Firestop box insert	⑭	50 pc	**3417184**
Box Insert (2" x 4")	50x Firestop box Insert	⑭	50 pc	**3416772**
Identification Labels	100x adhesive labels per roll	⑮	1 pc	**339611**
Plastic Label	10x plastic identification plates per order (5-3/4" W x 4-1/8" H)	⑯	1 pc	**3450661**
Smoke & Acoustic Sleeve CS-SL SA 2”	1x self-sealing sleeve with integrated smoke and acoustic seal, 2x flanges	⑰	1 pc	**2118867**
Smoke & Acoustic Sleeve CS-SL SA 4”	1x self-sealing sleeve with integrated smoke and acoustic seal, 2x flanges	⑰	1 pc	**2118868**
Hilti Button for Firestop	Software plug in for BIM modeling	⑱	1 yr	**2123618**

Please check with your local Hilti representative for bulk orders and combo items.

REF# CS-081

REF# CS-082



H520 3550528 08/16 DBS

1880ECA1-25

REF# CS-083

Underwriters Laboratories

25 PAIR - INDOOR BET - 110/110 - COVER & SPLICE CHAMBER

Product Specifications

UL497 Primary Protector for Communication Circuits

NAFTA Country of Origin: CANADA - All Models are "Buy America Act" Approved.

These 16 AWG steel building entrance terminals feature an industry standard 110 - style connector for both the input and output terminals. Also included are multiple external and internal ground lugs. UL approved standard on all terminals. Standard 5-pin protection modules, available in gas tube, solid state and hybrid versions, can be purchased separately. Call for more detailed information on RDUP/RUS-listed units.

Features & Benefits

- 16 AWG Powder Coated Steel Construction
- Equipped with an Internal 26 AWG Fuse Link
- External Ground Connectors Accept 6 - 14 AWG Wire
- Industry Standard 5 Pin Design
- Exceeds UL497 Primary Protection Standards
- Stackable with Connection Grommets Included
- 110 Connector Accepts 22 - 26 AWG Wire



1880ECA1-25

Ordering Information

Model Number	Stock Code	Pair Count	Input	Output	Dimensions (H" x W" x D")	Weight (lbs)
1880ECA1-25	304004	25	110	110	9.20 x 15.25 x 4.75	14

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1880ECA1-25

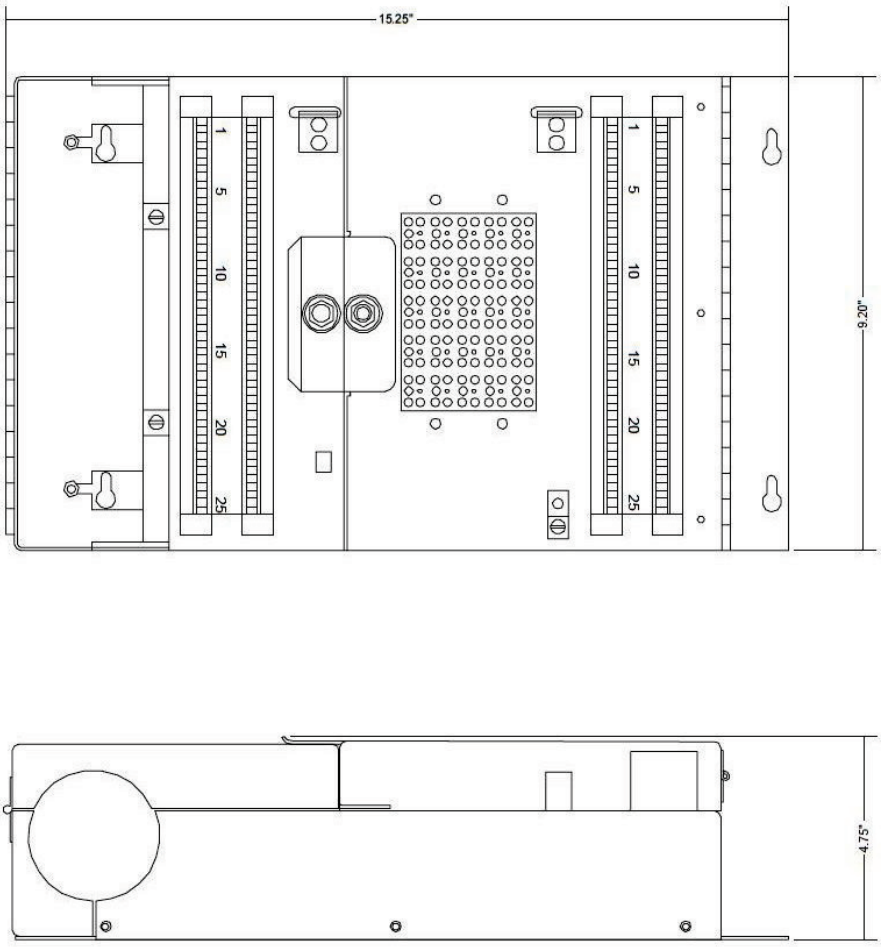
25 PAIR - INDOOR BET - 110/110 - COVER & SPLICE CHAMBER

Underwriters Laboratories

Physical Dimensions

UL497 Primary Protector for Communication Circuits

9.20 x 15.25 x 4.75
(H" x W" x D")



Notes

Installation:

Indoor Wall Mount

Previous Model Number : 1880ECA1-25G

Splice Chamber: Separate enclosure and cover for OPS gel filled Input cable

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1880ECA1-50 REF# CS-084

50 PAIR - INDOOR BET - 110/110 - COVER & SPLICE CHAMBER

Underwriters Laboratories

Product Specifications

UL497 Primary Protector for Communication Circuits

NAFTA Country of Origin: CANADA - All Models are "Buy America Act" Approved.

These 16 AWG steel building entrance terminals feature an industry standard 110 - style connector for both the input and output terminals. Also included are multiple external and internal ground lugs. UL approved standard on all terminals. Standard 5-pin protection modules, available in gas tube, solid state and hybrid versions, can be purchased separately. Call for more detailed information on RDUP/RUS-listed units.

Features & Benefits

- 16 AWG Powder Coated Steel Construction
- Equipped with an Internal 26 AWG Fuse Link
- External Ground Connectors Accept 6 - 14 AWG Wire
- Industry Standard 5 Pin Design
- Exceeds UL497 Primary Protection Standards
- Stackable with Connection Grommets Included
- 110 Connector Accepts 22 - 26 AWG Wire



1880ECA1-50

Ordering Information

Model Number	Stock Code	Pair Count	Input	Output	Dimensions (H" x W" x D")	Weight (lbs)
1880ECA1-50	316016	50	110	110	9.20 x 15.25 x 4.75	15

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1880ECA1-50

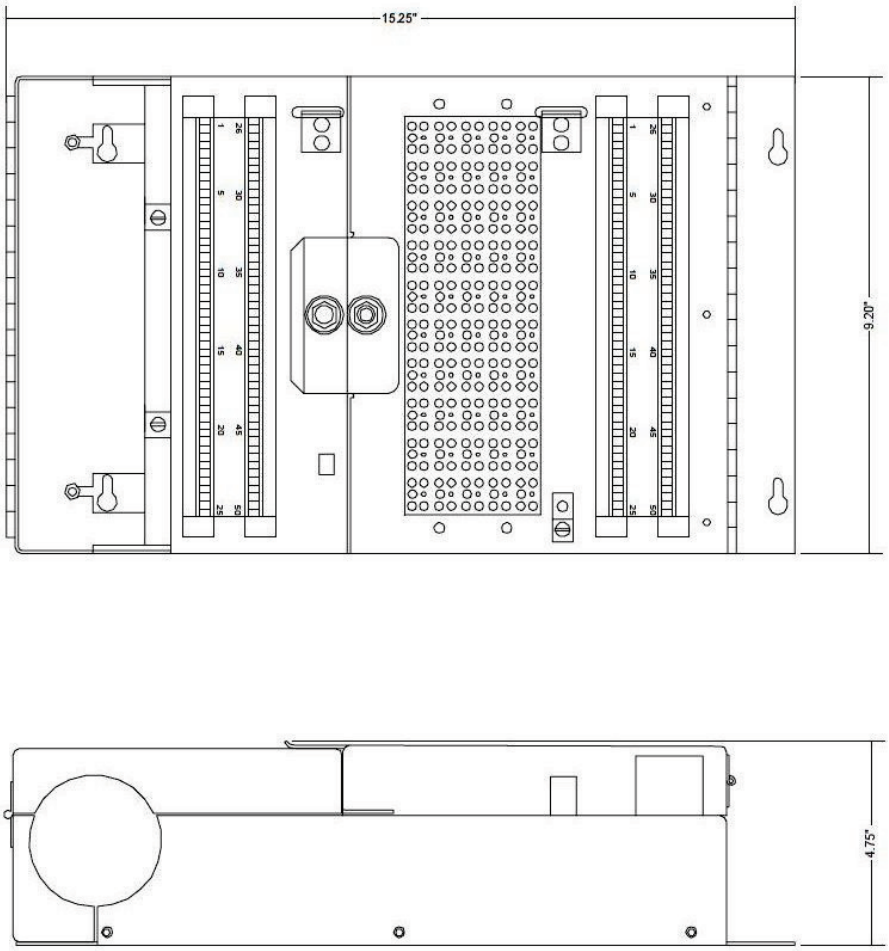
50 PAIR - INDOOR BET - 110/110 - COVER & SPLICE CHAMBER

Underwriters Laboratories

Physical Dimensions

UL497 Primary Protector for Communication Circuits

9.20 x 15.25 x 4.75
(H" x W" x D")



Notes

Installation:

Indoor Wall Mount

Previous Model Number : 1880ECA1-50G

Splice Chamber: Separate enclosure and cover for OPS gel filled Input cable

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1880ECA1-100

REF# CS-085

100 PAIR - INDOOR BET - 110/110 - COVER & SPLICE CHAMBER

Underwriters Laboratories

Product Specifications

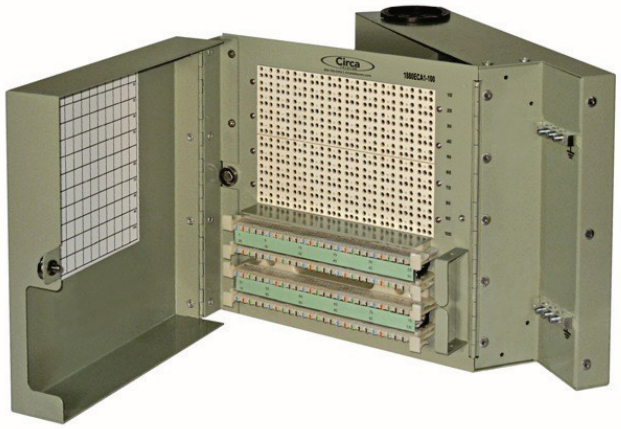
UL497 Primary Protector for Communication Circuits

NAFTA Country of Origin: CANADA - All Models are "Buy America Act" Approved.

These 16 AWG steel building entrance terminals feature an industry standard 110 - style connector for both the input and output terminals. Also included are multiple external and internal ground lugs. UL approved standard on all terminals. Standard 5-pin protection modules, available in gas tube, solid state and hybrid versions, can be purchased separately. Call for more detailed information on RDUP/RUS-listed units.

Features & Benefits

- 16 AWG Powder Coated Steel Construction
- Equipped with an Internal 26 AWG Fuse Link
- External Ground Connectors Accept 6 - 14 AWG Wire
- Industry Standard 5 Pin Design
- Exceeds UL497 Primary Protection Standards
- Stackable with Connection Grommets Included
- 110 Connector Accepts 22 - 26 AWG Wire



1880ECA1-100

Ordering Information

Model Number	Stock Code	Pair Count	Input	Output	Dimensions (H" x W" x D")	Weight (lbs)
1880ECA1-100	329029	100	110	110	11.00 x 14.75 x 6.25	15

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1880ECA1-100

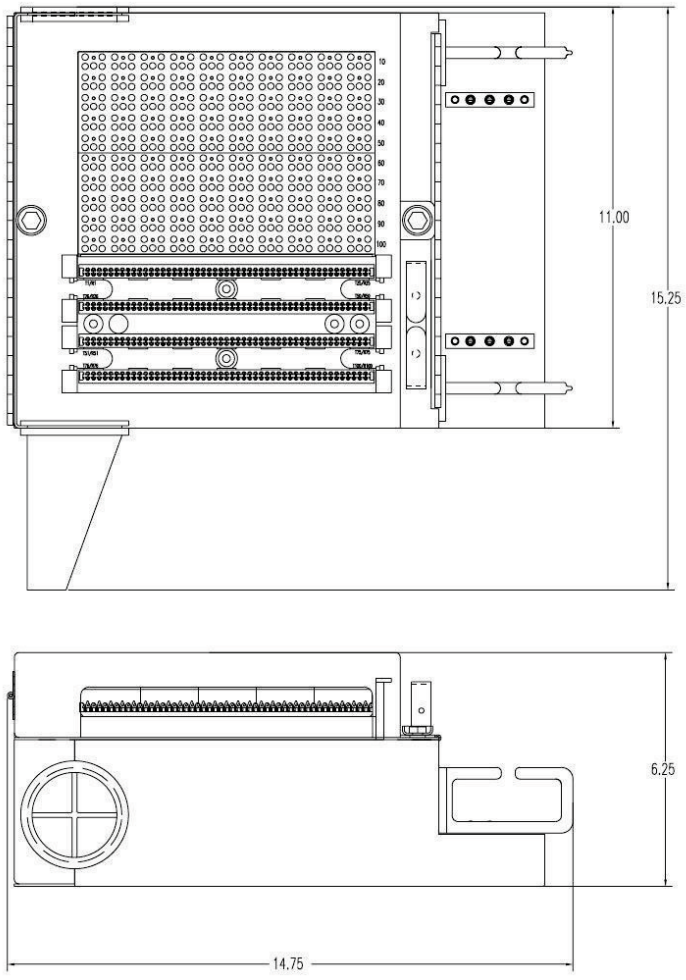
100 PAIR - INDOOR BET - 110/110 - COVER & SPLICE CHAMBER

Underwriters Laboratories

Physical Dimensions

UL497 Primary Protector for Communication Circuits

11.00 x 14.75 x 6.25
(H" x W" x D")



Notes

Installation:

Indoor Wall Mount

Previous Model Number : 1880ECA1-100G

Splice Chamber: Separate enclosure and cover for OPS gel filled Input cable

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3BIS-300 & 4B1S-300

REF# CS-086

5 PIN - Solid State - Surge Protection Module

Underwriters Laboratories

Product Specifications

UL 497 Primary Protector for Communication Circuits

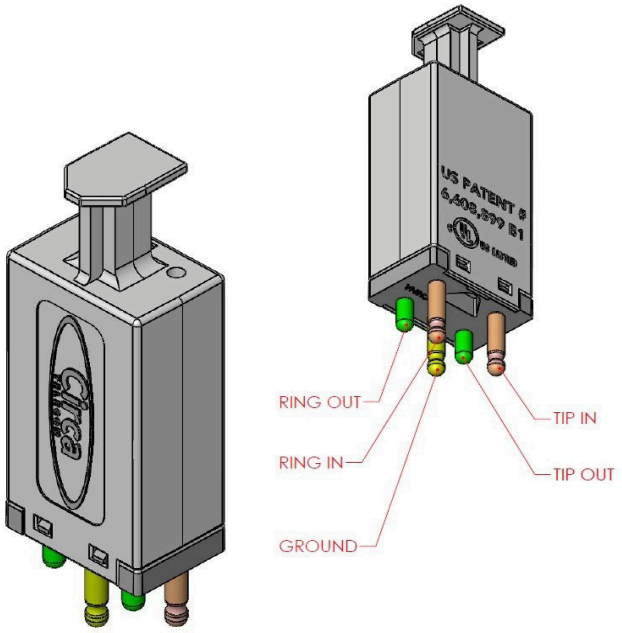
The 3B1S-300 is a premium series 5 PIN solid state protector module that is designed to provide superior transient and power fault protection for most standard telephone line applications.

These solid state modules are suited to applications that require the protection of sensitive telephone equipment due to their nanosecond reaction time.

The characteristics of the solid state protector are far superior to gas tube technology in speed and are virtually immune to overshoot, aging and failure due to repeated tripping.

The 4 - Series features PTC (positive temperature coefficient) technology. These optional self-resetting current limiters provide effective protection from 'sneak current' faults. The PTC is vastly superior to the heat coil solution, which requires that the module be replaced after each 'sneak current' event.

- Nanosecond Response Time
- Internal Failsafe Mechanism that Permanently Grounds the Module Under Sustained High Current Conditions
- Balanced Operation
- UL Listed and RUS Approved
- Design to Exceed Telcordia Standards
- Integrated Test Points
- ISO 9001 Certified Manufacturer



Ordering Information

Model Number	Stock Code	Application	Color	Clamping Voltage
3BIS-300	770131	Low Impedance for Long Cable Runs	Black	300V
4B1S-300	770135	Low Impedance for Long Cable Runs (4 Series has PTC)	Black	300V
3B3S-300	770133	Low Impedance for Long Cable Runs	Red	300V

REF# CS-086

RUS Approved Material - 2011 Edition RUS Publication 344-2 - Section 4.1.3 and 4.2.1

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3BIS-300 & 4B1S-300

5 PIN - Solid State - Surge Protection Module

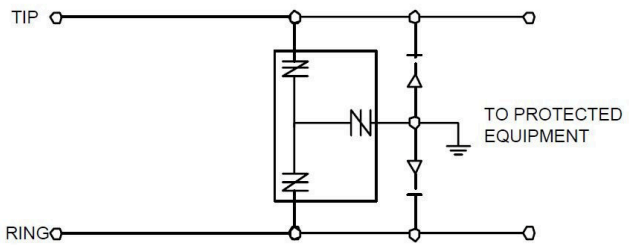
Underwriters Laboratories

Product Specifications

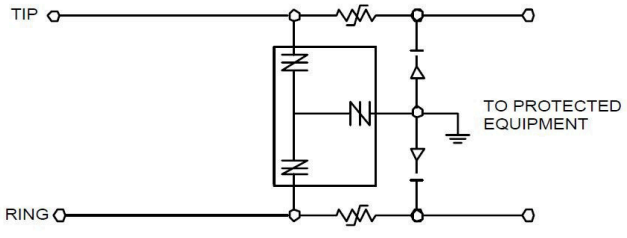
UL 497 Primary Protector for Communication Circuits

Module	3BIS-300	4B1S-300
DC Break Over - *@ 100V/µS*	*300V*	*300V*
Peak Pulse Current (1)		
@ 8 x 20 µS	*250A*	*250A*
@ 10 x 160 µS	*150A*	*150A*
@ 10 x 1000 µS	*100A*	*100A*
Response Time	*< 5 nanoseconds*	*< 5 nanoseconds*
Holding Current	*200 mA*	*200 mA*
Surge Life (2)		
@ 10A @ 10 x 1000/µS	*Unlimited Operations*	*Unlimited Operations*
@ 100A @ 10 x 1000/µS	*> 300 Operations*	*> 300 Operations*
@ 65A rms, 11 cycles, 130A	*> 60 Operation*	*> 60 Operation*
@ 10A rms, 1 sec, 20A	*> 20 Operations*	*> 20 Operations*
Capacitance		
1V rms @ 1Khz, 50V DC	*< 45 pF*	*< 45 pF*
Insulation Resistance		
@ 50V DC	*100M Ω*	*100M Ω*
Fail-Safe Operation		
@ 1.0A rms	*< 50 Seconds*	*< 50 Seconds*
@ 5.0A rms	*< 15 Seconds*	*< 15 Seconds*
@20A rms	*< 10 Seconds*	*< 10 Seconds*
@ 60A rms	*< 3 Seconds*	*< 3 Seconds*
Current Limiters (4 Series with PTC)		
Hold Current @ 20° C	*N/A*	*145 mA*
Line Series Resistance	*N/A*	*4 - 6 Ω*

3BIS-300 - Symmetrical



4B1S-300 - Symmetrical



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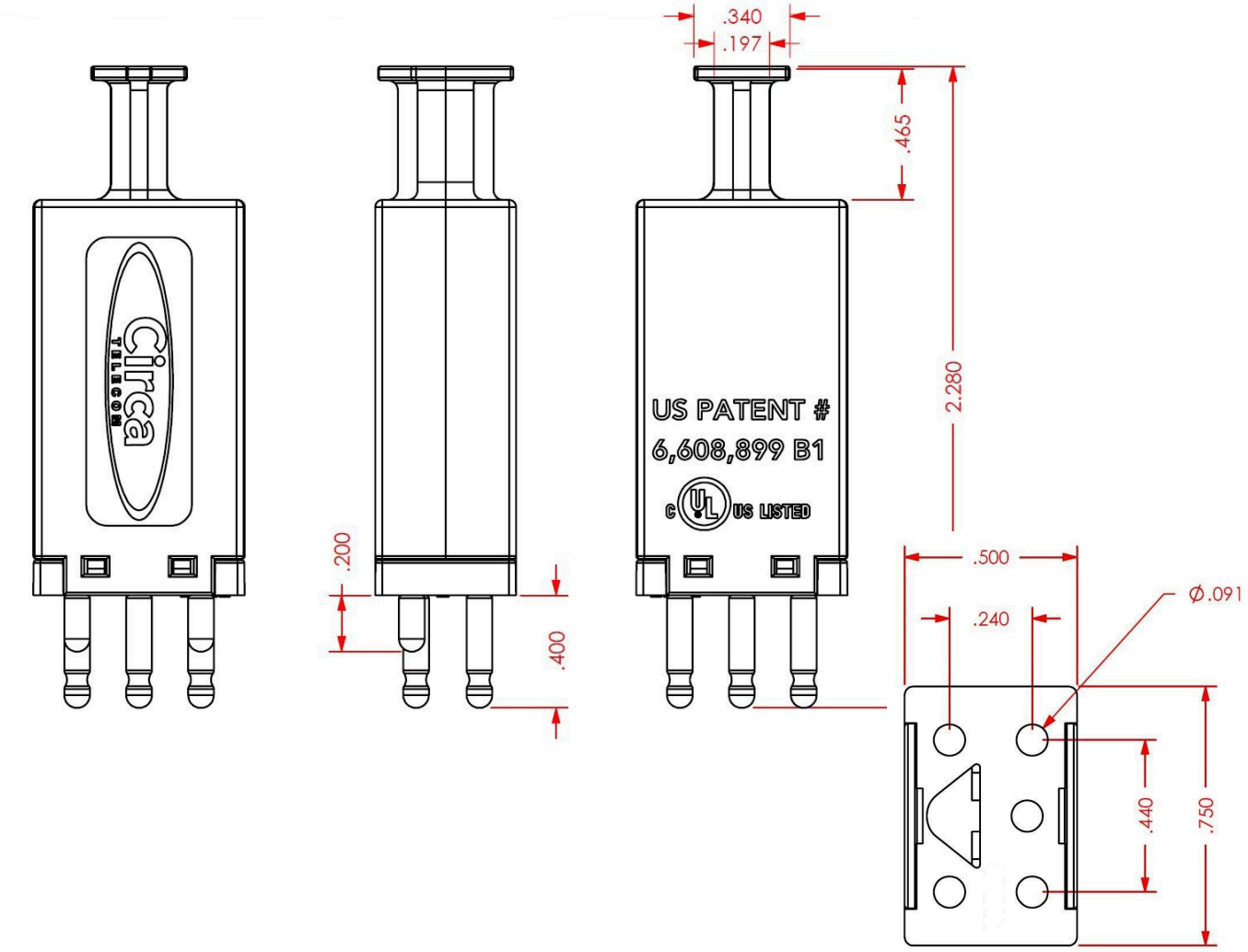
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3BIS-300 & 4B1S-300

5 PIN - Solid State - Surge Protection Module

Physical Dimensions

UL 497 Primary Protector for Communication Circuits



Notes

(1) Total surge rating is 2x listed with respect to ground during simultaneous surge.

(2) Meets Bellcore TR-NWT-000974 service life requirements.

Pin alloy refers to tip and ring pins. Unless otherwise noted, all ground pins are tin.

Previous Model Numbers: C3B1S, CT3B1S, CT3B1S-BAL, CT3B1S/HD, CT4B1S-PTC/BAL, 3C1S, 4C1S

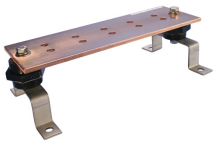
RUS Approved Material - 2011 Edition RUS Publication 344-2 - Section 4.1.3 and 4.2.1

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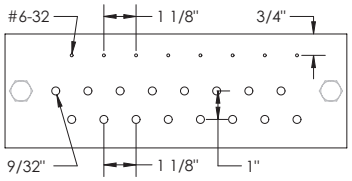
Grounding Busbar – EGBA14410FF

REF# CS-087



Proper bonding is essential to create an equipotential plane between service grounds and equipment during fault and transient conditions. This equipotential plane provides a near-zero voltage differential, and serves to protect people and equipment during these events. The grounding busbar is the most popular bonding product in use today.

- Provides a convenient, single-point grounding and bonding location
- Conductors are welded to the bar using a ERICO CADWELD exothermic connection or are mechanically fastened by using lugs
- Custom bars can be designed and manufacturerd to customer specifications



Part Number	EGBA14410FF
Material	Copper
Busbar Configuration	Busbar, Insulators and Brackets
Hole Pattern	FF
Mounting Hole Size	0.438"
Length	10"
Width	4"
Thickness	1/4"
Tin Plating	No
Pigtail Included	No
Certifications	cULus
Standard Packaging Quantity	1 pc
UPC	78285646526

Diagrams are representative of the hole pattern. The number of holes is dependent on the length of the grounding busbar.
Additional configurations are available by special order. Note special orders may incur additional lead time.

UL, UR, cUL, cUR, cULus and cURus are registered certification marks of UL LLC.

WARNING
Pentair products shall be installed and used only as indicated in Pentair's product instruction sheets and training materials. Instruction sheets are available at erico.pentair.com and from your Pentair customer service representative. Improper installation, misuse, misapplication or other failure to completely follow Pentair's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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REF# CS-088

THHN - DUAL RATED 90 DEGREE C DRY/75 DEGREE C WET - STRANDED

Catalog Number	Item No	Description	Approx. Net Lbs. Per 1000 Ft.	Size	Per 1000 Ft.			
					Col. A	Col. B	Col. C	
10	23031	--	38	10	284.08	156.24	142.04	
8	23104	--	63	8	462.20	254.21	231.10	
6	13151	--	95	6	730.58	401.82	365.29	
4	13201	--	152	4	1108.14	609.48	554.07	
3	23257	--	188	3	1372.04	754.62	686.02	
2	23307	--	234	2	1720.00	946.00	860.00	+
1	23351	--	299	1	2174.62	1196.04	1087.31	
1/0	23401	--	371	1/0	2626.40	1444.52	1313.20	
2/0	23406	--	461	2/0	3225.74	1774.16	1612.87	
3/0	23411	--	574	2/0	3988.88	2193.88	1994.44	
4/0	23416	--	717	4/0	5032.62	2767.94	2516.31	
250KCM	23421	--	850	250KCM	6149.46	3382.20	3074.73	
300KCM	23426	--	1011	300KCM	7259.68	3992.82	3629.84	
350KCM	23431	--	1172	350KCM	8403.24	4621.78	4201.62	
400KCM	23436	--	1333	400KCM	9958.26	5477.04	4979.13	
500KCM	23441	--	1653	500KCM	11697.38	6433.56	5848.69	
600KCM[1]	23446	--	1985	600KCM	1420.86	781.47	710.43	
750KCM[1]	23451	--	2462	750KCM	1895.26	1042.39	947.63	
1000KCM[1]	23458	--	3255	1000KCM	2632.14	1447.68	1316.07	

[1] Price Per 100 Ft.



XHHW-CROSS-LINKED POLYETHYLENE 90 DEGREE C DRY/75 DEGREE C WET - SOLID

Catalog Number	Item No	Description	Approx. Net Lbs. Per 1000 Ft.	Size	Per 1000 Ft.			
					Col. A	Col. B	Col. C	
14	23501	--	--	14	209.92	115.46	104.96	
12	23601	--	--	12	253.88	139.63	126.94	
10	23701	--	--	10	349.64	192.30	174.82	

XHHW-CROSS-LINKED POLYETHYLENE 90 DEGREE C DRY/75 DEGREE C WET - STRANDED

Catalog Number	Item No	Description	Approx. Net Lbs. Per 1000 Ft.	Size	Per 1000 Ft.			
					Col. A	Col. B	Col. C	
14	23801	--	18	14	234.16	128.79	117.08	
12	23901	--	26	12	294.44	161.94	147.22	
10	24001	--	40	10	420.28	231.15	210.14	
8	24051	--	66	8	690.72	379.90	345.36	
6	24101	--	100	6	971.20	534.16	485.60	
4	24151	--	150	4	1459.06	802.48	729.53	
3	24171	--	186	3	1746.62	960.64	873.31	
2	24181	--	231	2	2153.34	1184.34	1076.67	
1	24201	--	292	1	2741.24	1507.68	1370.62	
1/0	24226	--	363	1/0	2870.54	1578.80	1435.27	
2/0	24231	--	452	2/0	3595.02	1977.26	1797.51	
3/0	24236	--	565	3/0	4486.26	2467.44	2243.13	
4/0	24241	--	706	4/0	5548.44	3051.64	2774.22	
250KCM	24246	--	835	250KCM	6816.40	3749.02	3408.20	
300KCM	24251	--	995	300KCM	7855.82	4320.70	3927.91	

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Phone: 717-354-6200
berktek.support@nexans.com

Multi-Pair Category 3

REF# CS-089 and CS-090 (see below for model numbers)

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

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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

Multi-Pair Category 3

Characteristics

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

REF# CS-089

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

= Make to order, = Make to stock

REF# CS-090

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)

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

UniCam® Connector, SC

50 µm multimode (OM3/OM4 compatible)

REF# CS-091

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: 95-050-41-X



Part Number: 95-050-41-X

Features and Benefits

Performance guaranteed
100 percent yield guarantee

UniCam® Connector, SC

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	
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® Connector, SC

50 µm multimode (OM3/OM4 compatible)

CORNING

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-091

Part Number	95-050-41-X
Product Description	UniCam® 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 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

Ordering Information

REF# CS-092

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)

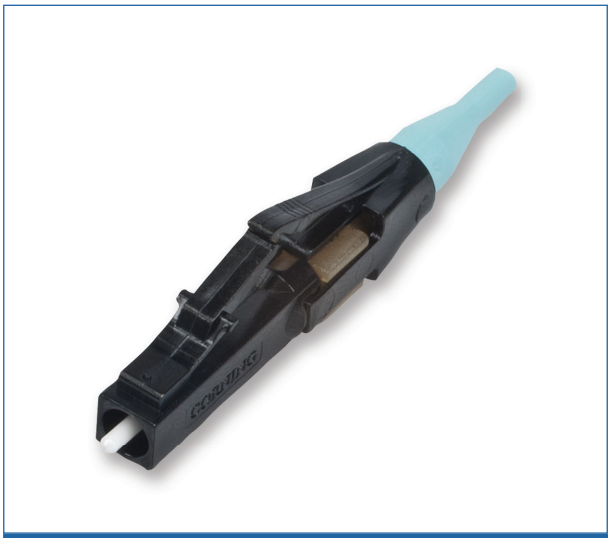
UniCam® Connector, LC

50 µm multimode (OM3/OM4 compatible)

REF# CS-093

CORNING

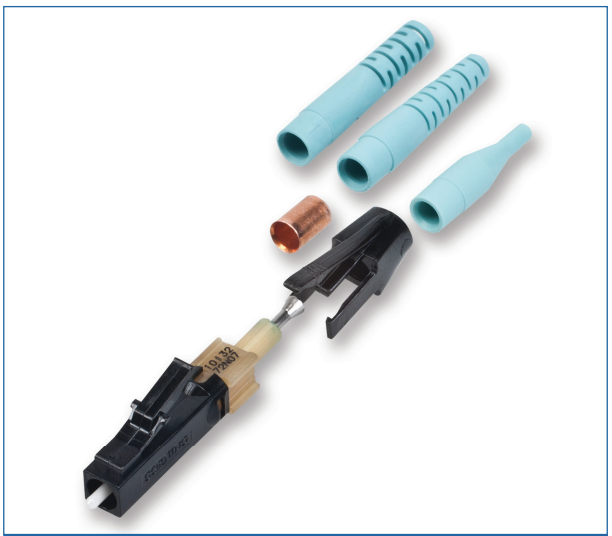
Corning UniCam® LC connectors offer optical performance in a fast, easy field-termination solution ideal for fiber-to-the-workstation applications where setup and teardown time is critical. The high-precision mechanical splice technology enables fiber optic networks to be installed quickly and cost effectively. 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.



Part Number: 95-050-99-X

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: 95-050-99-X

Features and Benefits

Performance guaranteed
100 percent yield guarantee

UniCam® 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)

CORNING

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-093

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

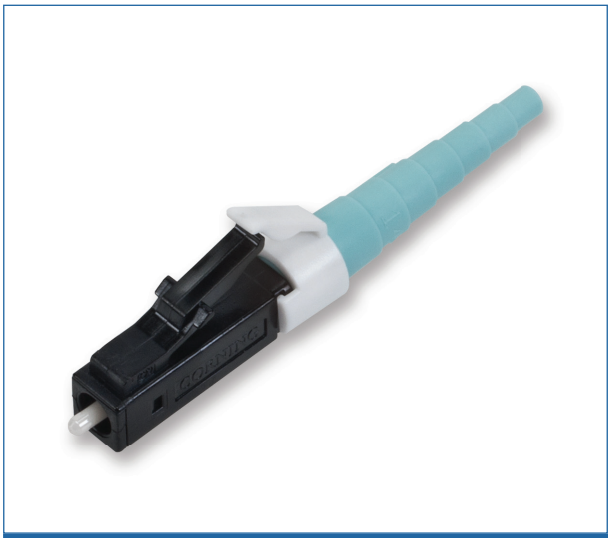
Units per Delivery	1/1
Package Contents	Connector, Trigger, Crimp Band, Boot (900 µm), Boot (3.0 mm,), Boot (2.0 mm)

Anaerobic Connector, LC

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

REF# CS-094

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.



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

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



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

Standards

Intermateability	Compliant with TIA/EIA 604-10

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

Anaerobic Connector, LC

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

CORNING

Ordering Information

REF# CS-094

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)

RoHS COMPLIANT

Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/opcomm
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UniCam® Connector, SC

Single-mode (OS2)

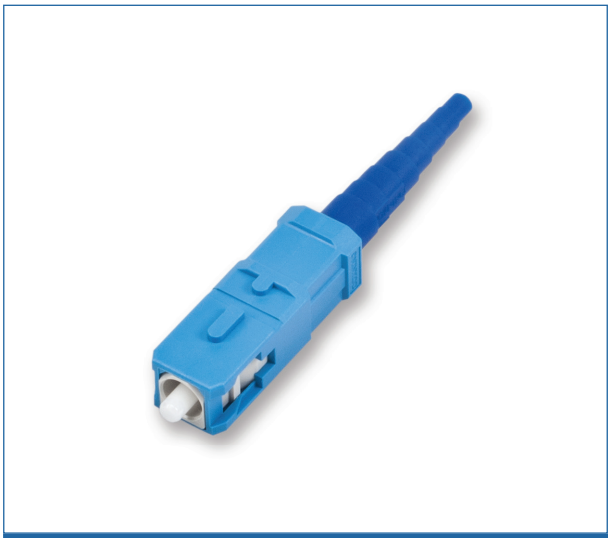
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CORNING

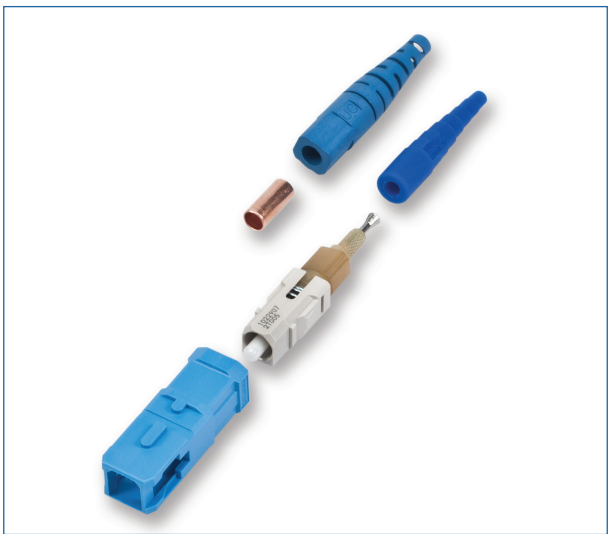
Corning UniCam® SC connectors offer optical performance in a fast, easy field-termination solution ideal for fiber-to-the-workstation applications where setup and teardown time is critical. The high-precision mechanical splice technology enables fiber optic networks to be installed quickly and cost effectively. 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® 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

Ordering Information

REF# CS-095

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

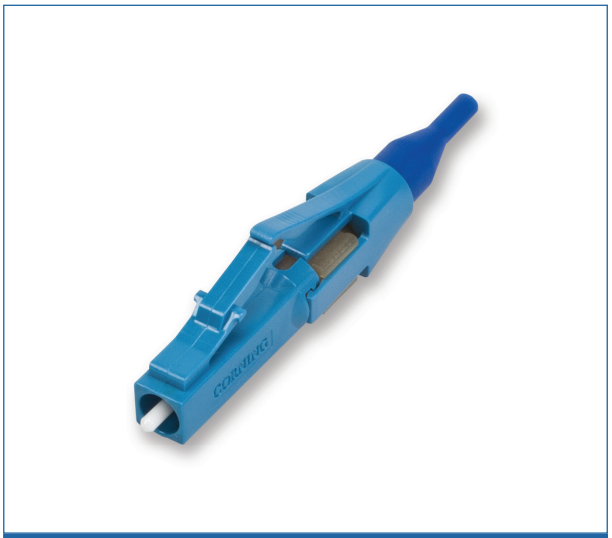
Shipping Information

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-096



Part Number: 95-200-99

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

UniCam® 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

Ordering Information

REF# CS-096

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)

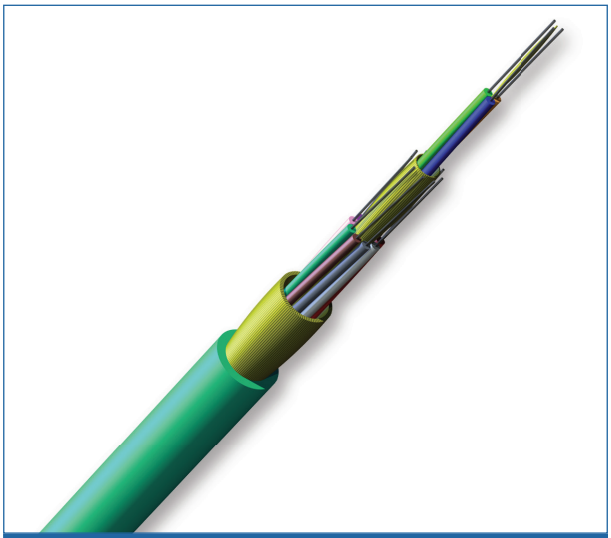
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CORNING

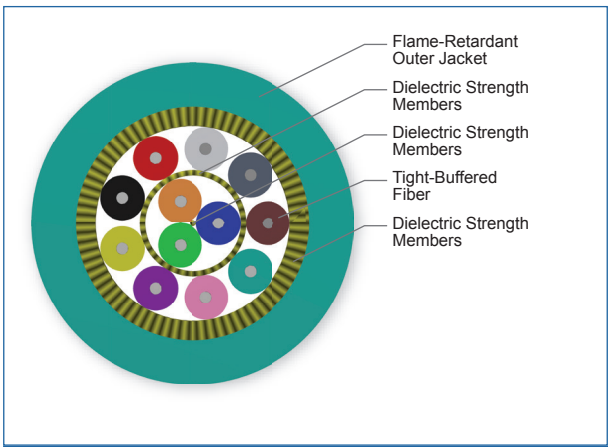
Corning MIC® riser cables are designed for use in riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900 µm buffered fibers to enable easy, consistent stripping and facilitate termination. The fibers are surrounded by dielectric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



Part Number: 012T81-33180-24



Cross Section of Part Number: 012T81-33180-24

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® 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® Tight-Buffered Cable, Riser

12 F, 50 µm multimode (OM3)

CORNING

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-097

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

RoHS COMPLIANT

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MIC® Tight-Buffered Cable, Riser

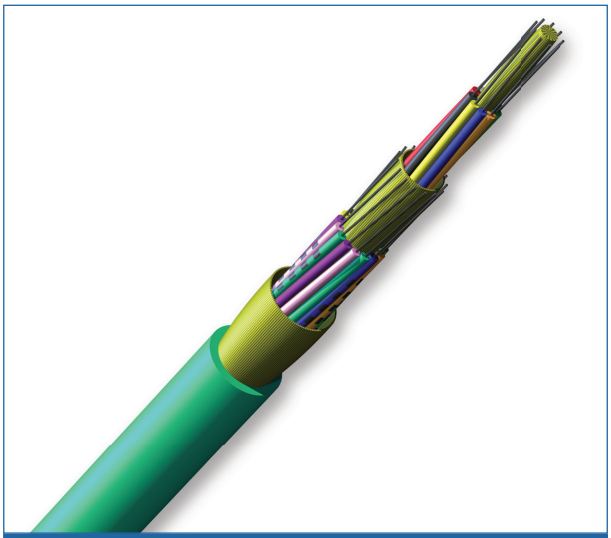
24 F, 50 µm multimode (OM3)

REF# CS-098

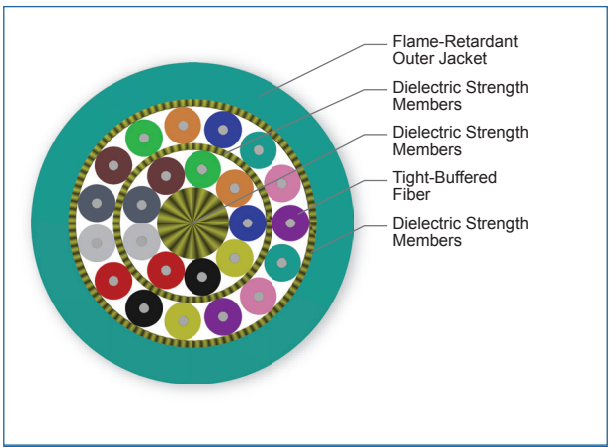
Corning MIC® riser cables are designed for use in riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900 µm buffered fibers to enable easy, consistent stripping and facilitate termination. The fibers are surrounded by dielectric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



Part Number: 024T81-33180-24



Cross Section of Part Number: 024T81-33180-24

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® 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® Tight-Buffered Cable, Riser

24 F, 50 µm multimode (OM3)

CORNING

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-098

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

RoHS COMPLIANT

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MIC® Tight-Buffered Cable, Plenum

12 F, 50 µm multimode (OM3)

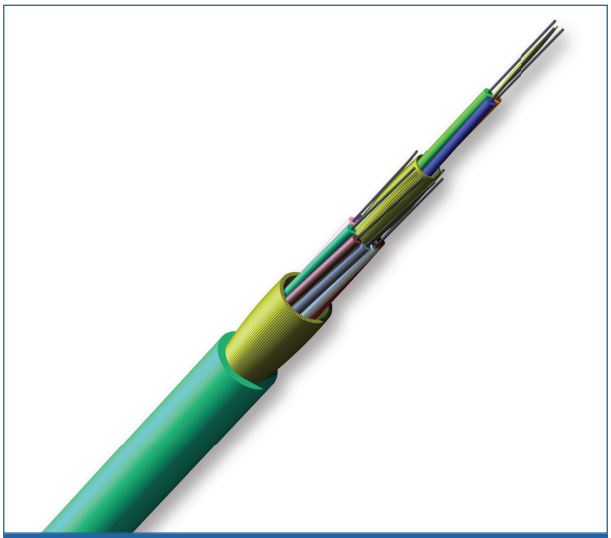
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CORNING

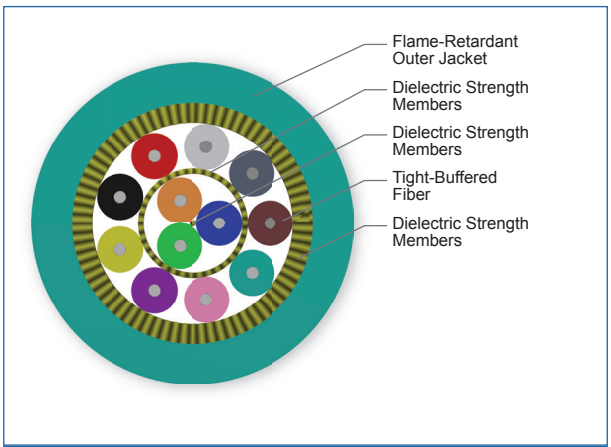
Corning MIC® plenum cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900 µm buffered fibers to allow easy, consistent stripping and to facilitate termination. The fibers are surrounded by 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.



Part Number: 012T88-33180-29



Cross Section of Part Number: 012T88-33180-29

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

MIC® 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® Tight-Buffered Cable, Plenum

12 F, 50 µm multimode (OM3)

CORNING

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-099

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

RoHS COMPLIANT

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MIC® Tight-Buffered Cable, Plenum

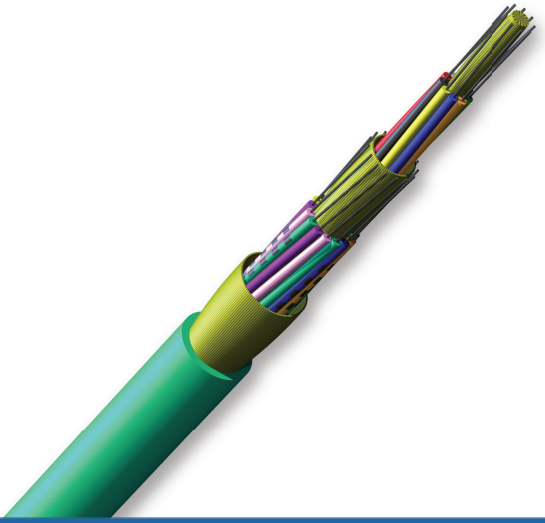
24 F, 50 µm multimode (OM3)

REF# CS-100

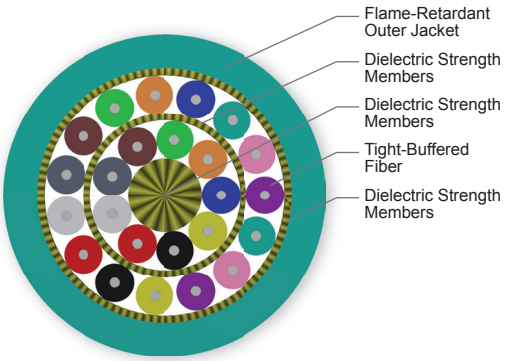
Corning MIC® plenum cables are designed for use in plenum, riser and general purpose environments for in-trabuilding backbone and horizontal installations. These multifiber cables use 900 µm buffered fibers to allow easy, consistent stripping and to facilitate termination. The fibers are surrounded by 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: 024T88-33180-29



Cross Section of Part Number: 024T88-33180-29

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

MIC® 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® Tight-Buffered Cable, Plenum

24 F, 50 µm multimode (OM3)

CORNING

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-100

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

RoHS COMPLIANT

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MIC® Tight-Buffered, Interlocking Armored Cable, Plenum

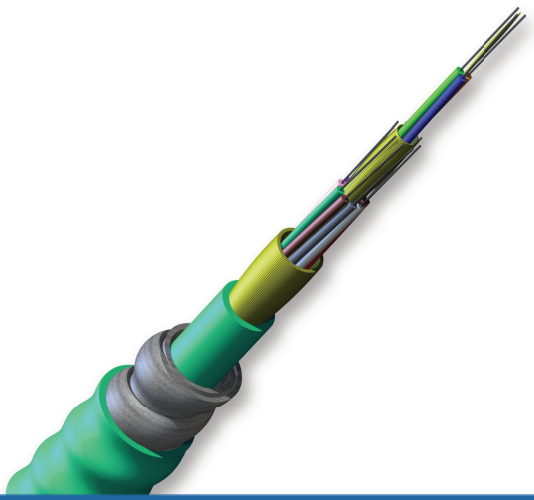
12 F, 50 µm multimode (OM3)

REF# CS-101

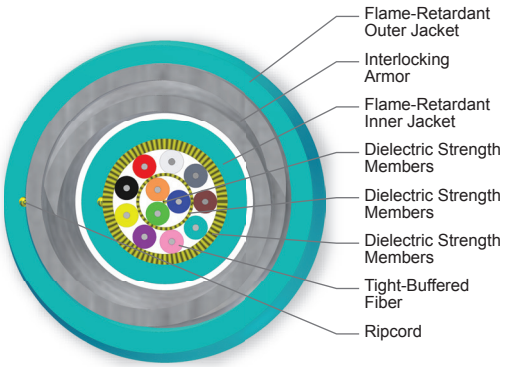
Corning MIC® interlocking armored plenum cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use individually jacketed TBII® buffered fibers enabling easy, consistent stripping and facilitating 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.



Part Number: 012T88-33180-A3



Cross Section of Part Number: 012T88-33180-A3

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)

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

12 F, 50 µm multimode (OM3)

CORNING

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-101

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

RoHS COMPLIANT

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MIC® Tight-Buffered, Interlocking Armored Cable, Plenum

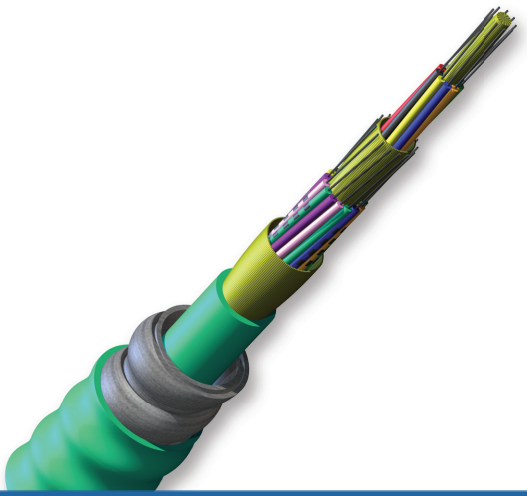
24 F, 50 µm multimode (OM3)

REF# CS-102

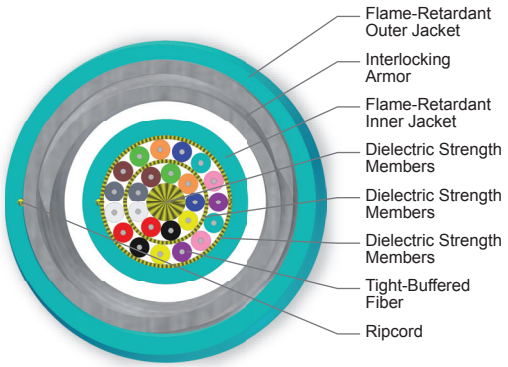
Corning MIC® interlocking armored plenum cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use individually jacketed TBII® buffered fibers enabling easy, consistent stripping and facilitating 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.



Part Number: 024T88-33180-A3



Cross Section of Part Number: 024T88-33180-A3

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)

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

24 F, 50 µm multimode (OM3)

CORNING

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-102

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

RoHS COMPLIANT

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MIC® Tight-Buffered Cable, Plenum

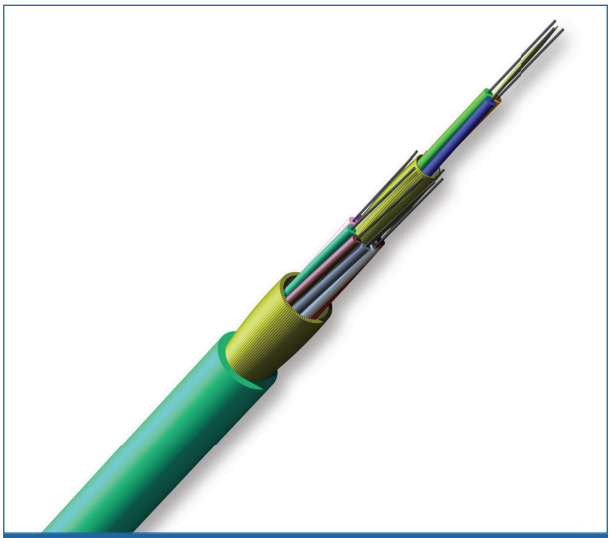
12 F, 50 µm multimode (OM4)

REF# CS-103

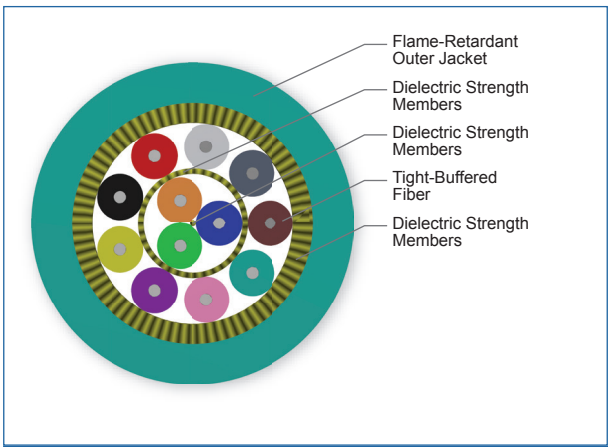
Corning MIC® plenum cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900 µm buffered fibers to allow easy, consistent stripping and to facilitate termination. The fibers are surrounded by 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: 012T88-33190-29



Cross Section of Part Number: 012T88-33190-29

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

MIC® 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® Tight-Buffered Cable, Plenum

12 F, 50 µm multimode (OM4)

CORNING

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-103

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

RoHS COMPLIANT

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MIC® Tight-Buffered Cable, Plenum

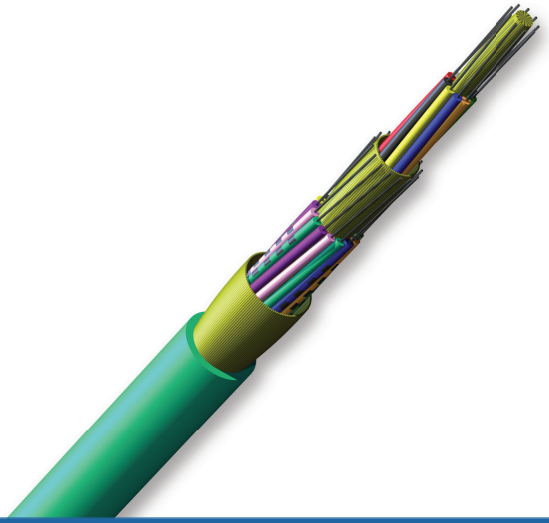
24 F, 50 µm multimode (OM4)

REF# CS-104

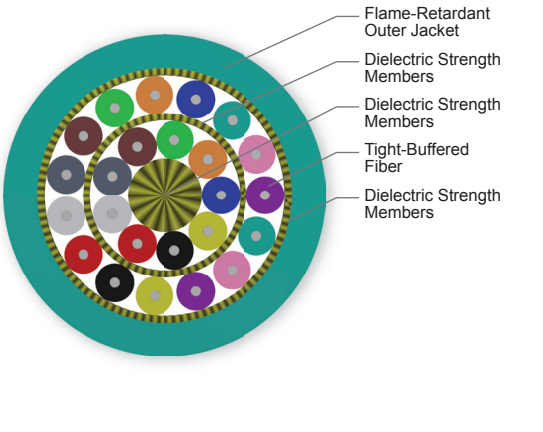
Corning MIC® plenum cables are designed for use in plenum, riser and general purpose environments for in-trabuilding backbone and horizontal installations. These multifiber cables use 900 µm buffered fibers to allow easy, consistent stripping and to facilitate termination. The fibers are surrounded by 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



Cross Section of 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

MIC® 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® Tight-Buffered Cable, Plenum

24 F, 50 µm multimode (OM4)

CORNING

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-104

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

RoHS COMPLIANT

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ALTOS® Loose Tube, Gel-Free Cable

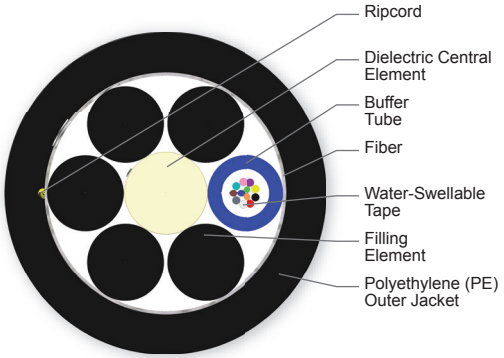
12 F, 50 µm multimode (OM3)

REF# CS-105

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.



Part Number: 012TU4-T4180D20



Cross Section of Part Number: 012TU4-T4180D20

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

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

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-105

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

RoHS COMPLIANT

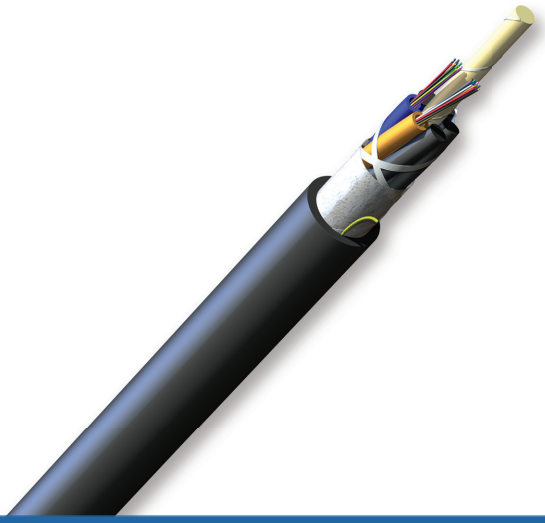
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ALTOS® Loose Tube, Gel-Free Cable

24 F, 50 µm multimode (OM3)

REF# CS-106

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.



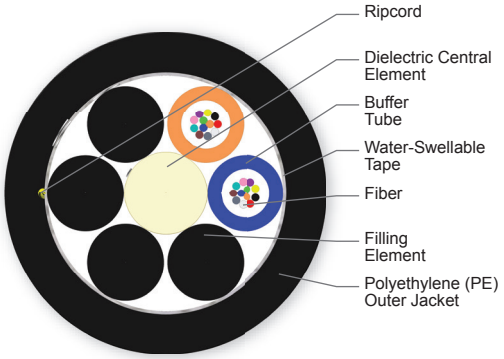
Part Number: 024TU4-T4180D20

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



Cross Section of Part Number: 024TU4-T4180D20

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

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-106

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

MIC® Tight-Buffered Cable, Riser

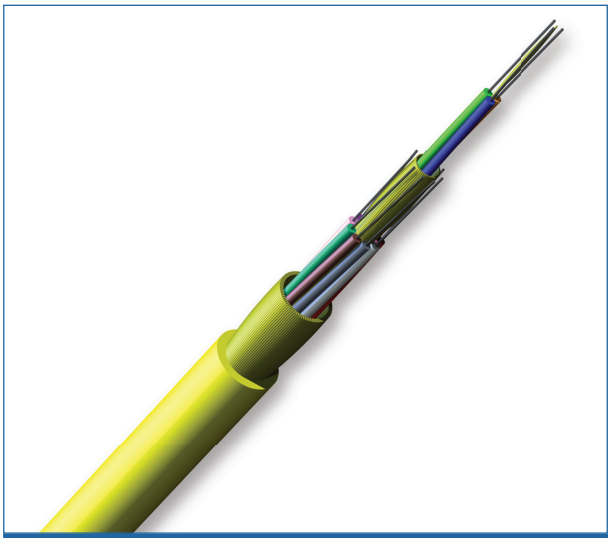
12 F, Single-mode (OS2)

REF# CS-107

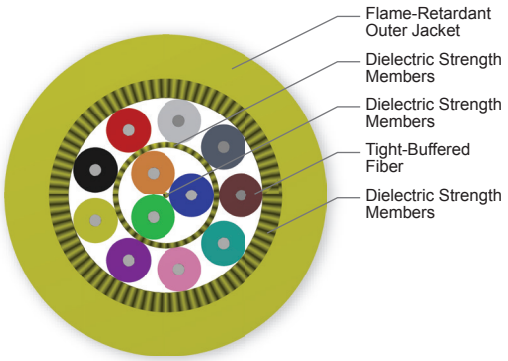
Corning MIC® riser cables are designed for use in riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900 µm buffered fibers to enable easy, consistent stripping and facilitate termination. The fibers are surrounded by dielectric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



Part Number: 012E81-33131-24



Cross Section of Part Number: 012E81-33131-24

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® Tight-Buffered Cable, Riser

12 F, Single-mode (OS2)

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® Tight-Buffered Cable, Riser

12 F, Single-mode (OS2)

CORNING

Fiber Specifications

Optical Characteristics (cabled)	
Fiber Name	SMF-28e® 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-107

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

RoHS COMPLIANT

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MIC® Tight-Buffered Cable, Riser

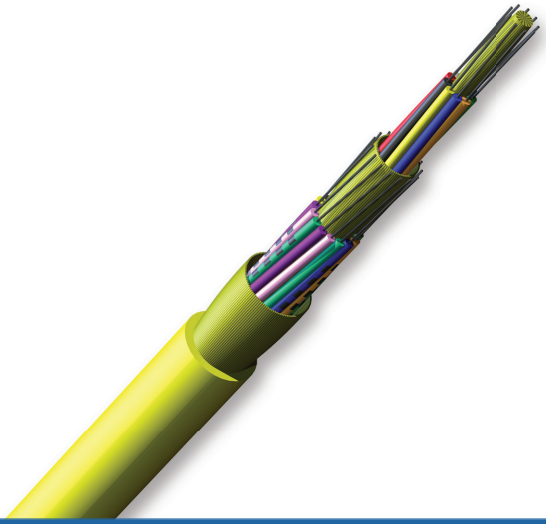
24 F, Single-mode (OS2)

REF# CS-108

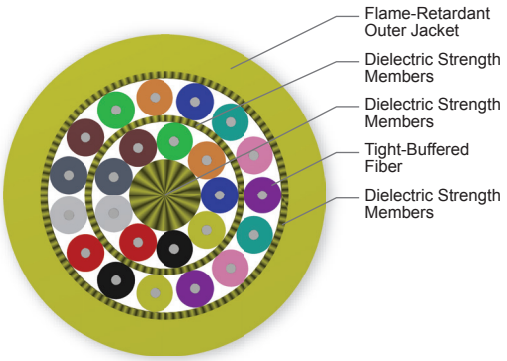
Corning MIC® riser cables are designed for use in riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900 µm buffered fibers to enable easy, consistent stripping and facilitate termination. The fibers are surrounded by dielectric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



Part Number: 024E81-33131-24



Cross Section of Part Number: 024E81-33131-24

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

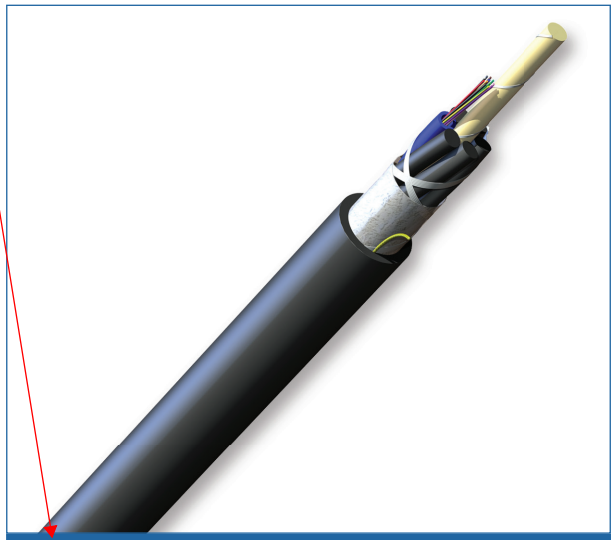
ALTOS® Loose Tube, Gel-Free Cable

12 F, Single-mode (OS2)

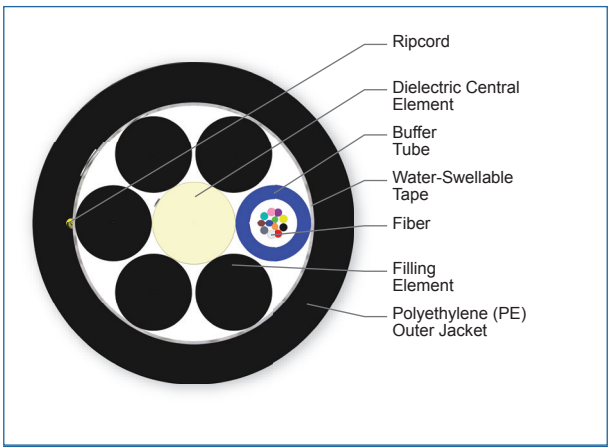
REF# CS-109

CORNING

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-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.



Part Number: 012EU4-T4101D20



Cross Section of Part Number: 012EU4-T4101D20

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

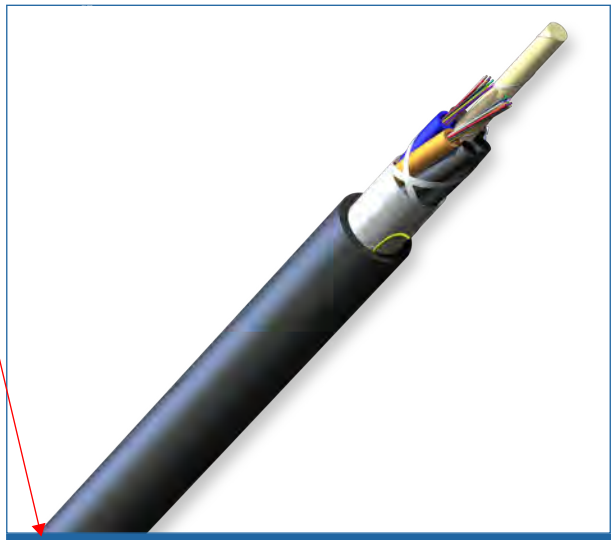
General Specifications	
Environment	Outdoor
Application	Aerial, Duct
Cable Type	Loose Tube

ALTOS® Loose Tube, Gel-Free Cable

24 F, Single-mode (OS2)

REF# CS-110

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.



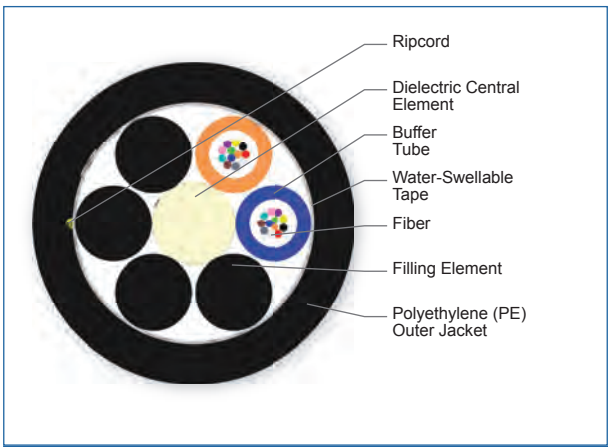
Part Number: 024EU4-T4101D20

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



Cross Section of Part Number: 024EU4-T4101D20

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, 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

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-110 - Continued information

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

ALTOS® Loose Tube, Gel-Free Cable

24 F, Single-mode (OS2)

CORNING

Notes

RoHS COMPLIANT

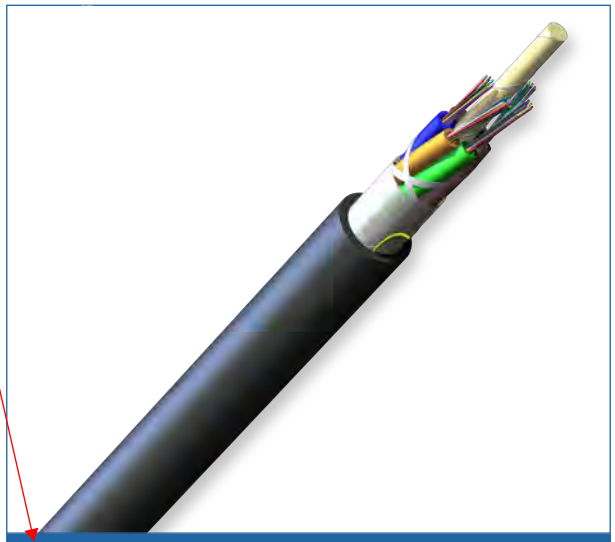
Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/cablesystems
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ALTOS® Loose Tube, Gel-Free Cable

48 F, Single-mode (OS2)

REF# CS-111

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.



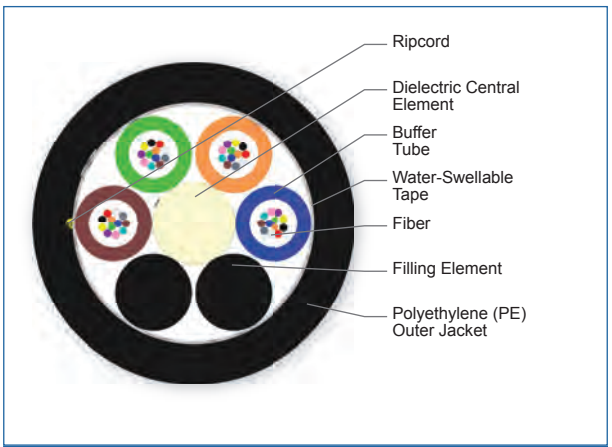
Part Number: 048EU4-T4101D20

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



Cross Section of Part Number: 048EU4-T4101D20

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

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

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-111 - Continued information

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

ALTOS® Loose Tube, Gel-Free Cable

48 F, Single-mode (OS2)

CORNING

Notes

RoHS COMPLIANT

Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/cablesystems
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Carlon 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-112

Standard Stock – Reels

	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	DF4X1-1500	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	DF4X1-1500S	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
	Orange	DG4X1C-6500	1.38"	1.66"	900 lb.	82" x 41"	6500	17
1 1/2"	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
	Orange	DH4X1C-4500	1.57"	1.90"	900 lb.	84" x 44"	4500	22
2"	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

Standard Stock – Coils

(Overnight Shippable)

	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
	Orange	DF4X1C-500	1.05"	1.31"	900 lb.	500	14
1 1/4"	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
	Orange	DG4X1C-500	1.38"	1.65"	900 lb.	500	17
1 1/2"	Orange	DH4X1C-150	1.55"	1.88"	900 lb.	150	22
	Orange	DH4X1-150S	1.55"	1.88"	Empty	150/ Split	22
2"	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

REF# CS-113

Standard Stock – Reels

	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
	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
1 1/4"	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
	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
1 1/2"	Orange	CH4X1C-350	1.55"	1.88"	900 lb.	48" x 32"	350	20
	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

Standard Stock – Coils

(Overnight Shippable)

	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	CF4X1-250	1.05"	1.31"	Empty	250	10
	Orange	CF4X1-250S	1.05"	1.31"	Empty	250/ Split	10
	White	CF4X4C-250	1.05"	1.31"	900 lb.	250	10
1 1/4"	Orange	CG4X1C-200	1.38"	1.65"	900 lb.	200	16
	Orange	CG4X1-200S	1.38"	1.65"	Empty	200/ Split	16
	White	CG4X4C-200	1.38"	1.65"	900 lb.	200	16
	White	CG4X4C-500	1.38"	1.65"	900 lb.	500	16
1 1/2"	Orange	CH4X1C-150	1.55"	1.88"	900 lb.	150	20
	Orange	CH4X1-150S	1.55"	1.88"	Empty	150/ Split	20
	White	CH4X4C-150	1.55"	1.88"	900 lb.	150	20
2"	Orange	CJ4X1C-100	2.04"	2.35"	900 lb.	100	23
	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-114

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-115



Part Number: CCH-01U

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

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

Ordering Information

REF# CS-115 - Continued Information

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

RoHS COMPLIANT

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Closet Connector Housing (CCH)

two rack units, holds four CCH connector panels

REF# CS-116



Part Number: CCH-02U

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

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

Approvals and Listings	Meets ANSI/TIA/EIA-568A and 606
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
UL-Listed	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-116 - Continued Information

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)

RoHS COMPLIANT

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Closet Connector Housing (CCH)

four rack units, holds 12 CCH connector panels

REF# CS-117

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).



CCH-04U (open) | Photo LAN1860

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)

four rack units, holds 12 CCH connector panels

Features and Benefits

Adaptable to use as a modular splice housing
Splices are stored and protected in same footprint

Standards

Approvals and Listings	Meets ANSI/TIA/EIA-568A and 606
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
UL-Listed	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-117 - Continued Information

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-118

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.



Part Number: WCH-02P

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

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-118 - Continued Information

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

REF# CS-119

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.



Part Number: WCH-04P

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

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-119 - Continued Information

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

CORNING

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

RoHS COMPLIANT

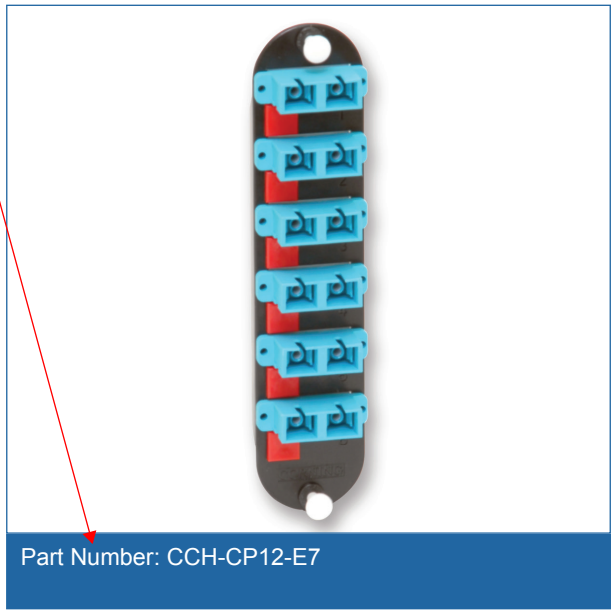
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Closet Connector Housing (CCH) Panel, SC Adapters

Duplex, 12 F, 50 µm multimode (OM3/4)

REF# CS-120

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.



Part Number: CCH-CP12-E7

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)

CORNING

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

Ordering Information

REF# CS-120 - Continued Information

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

RoHS COMPLIANT

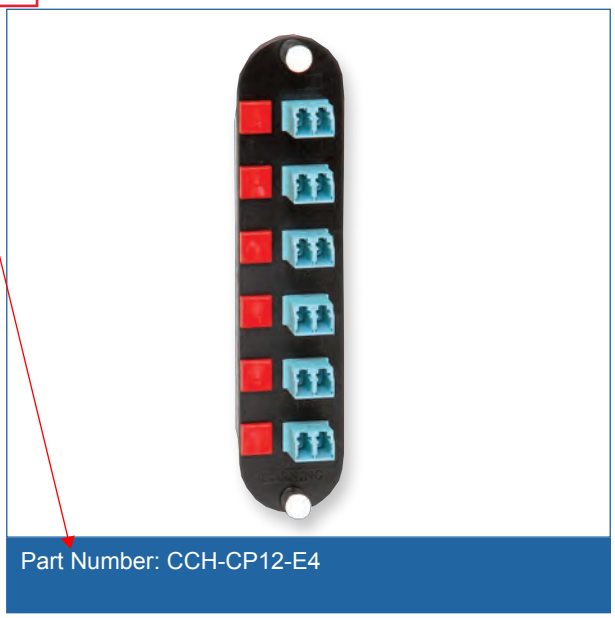
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Closet Connector Housing (CCH) Panel, LC Adapters

Duplex, 12 F, 50 µm multimode (OM3/4)

REF# CS-121

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 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.



Part Number: CCH-CP12-E4

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	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-121 - Continued Information

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

RoHS COMPLIANT

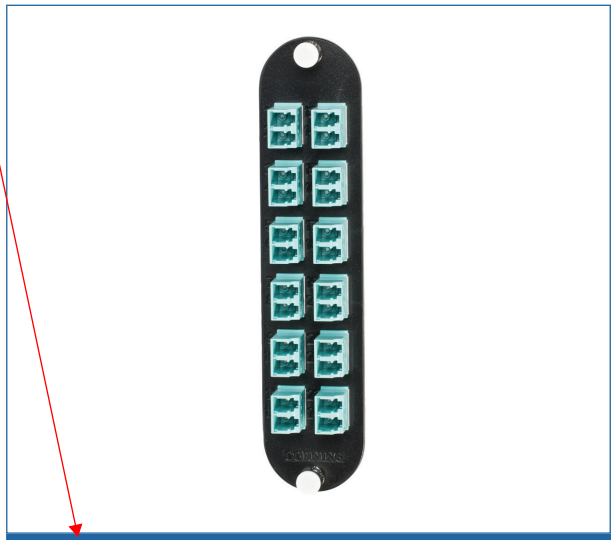
Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/cablesystems
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Closet Connector Housing (CCH) Panel, LC Adapters

Duplex, 24 F, 50 µm multimode (OM3/4)

REF# CS-122

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, telecommuni-cation 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 of-fers multimode and single-mode applications.



Part Number: CCH-CP24-E4

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	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)

CORNING

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

Ordering Information

REF# CS-122 - Continued Information

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

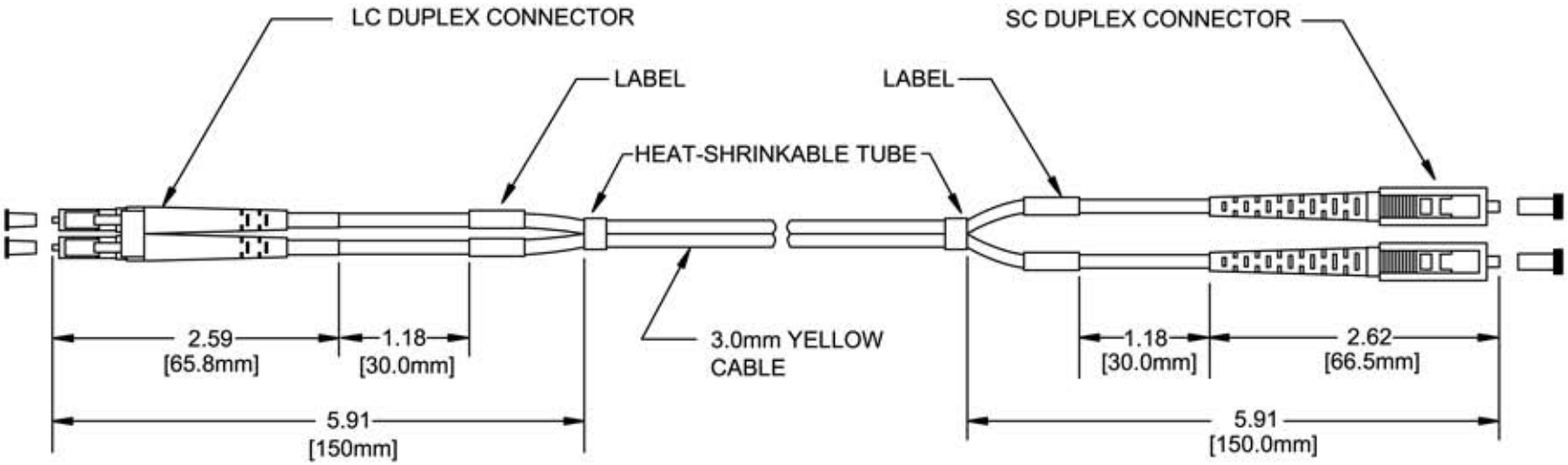
Units per Delivery	1/1
Package Contents	CCH Adapter Panel with installation guide

RoHS COMPLIANT

Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/opcomm
A complete listing of the trademarks of Corning Optical Communications is available at www.corning.com/opcomm/trademarks. All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified.
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NOTE: 175
DIMENSIONS IN INCHES [mm]

REF# CS-123



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

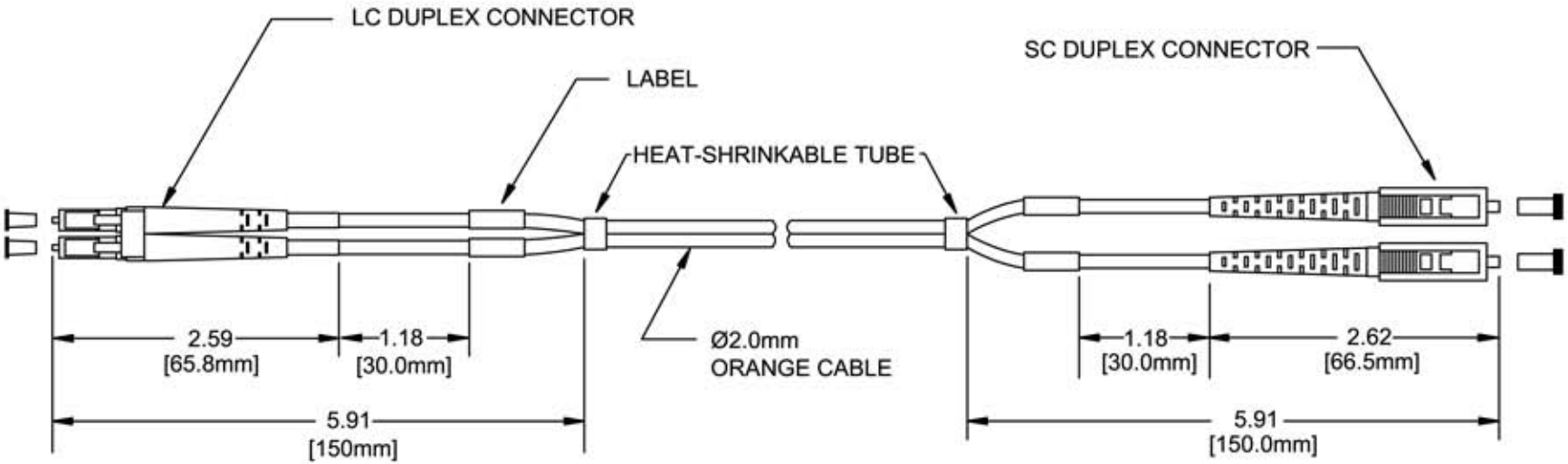
REF# CS-123

Allen Tel Products, Inc
30 TV5 DRIVE • HENDERSON, NV • 89014

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

NOTE: 176
DIMENSIONS IN INCHES [mm]

REF# CS-124



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)
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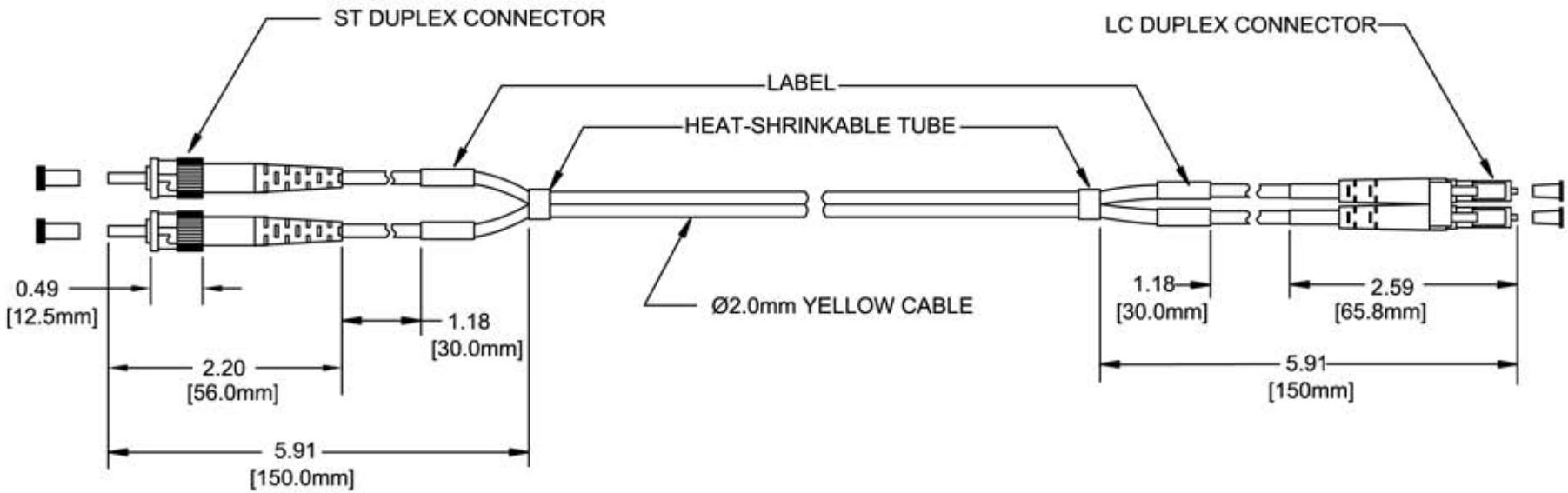
REF# CS-124

Allen Tel Products, Inc
30 TV5 DRIVE • HENDERSON, NV • 89014

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

NOTE: 177
DIMENSIONS IN INCHES [mm]

REF# CS-125



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-XX

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

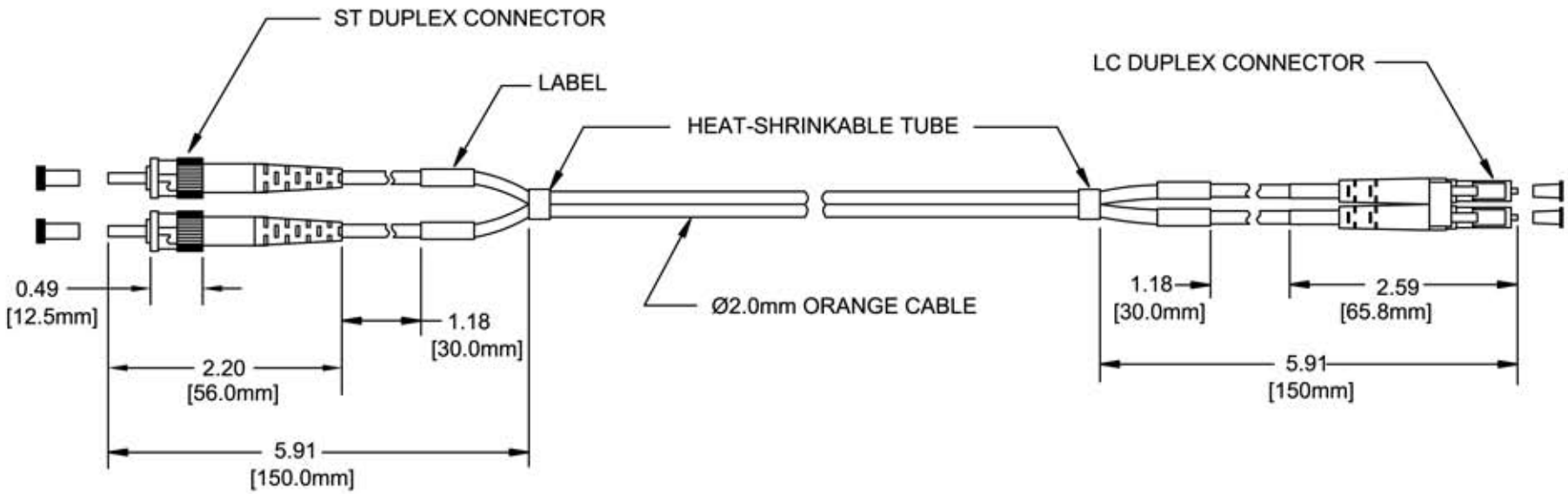
REF# CS-125

Allen Tel Products, Inc
Allen Tel Products, Inc
30 TV5 DRIVE • HENDERSON, NV • 89014

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

NOTE: 178
DIMENSIONS IN INCHES [mm]

REF# CS-126



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-XX

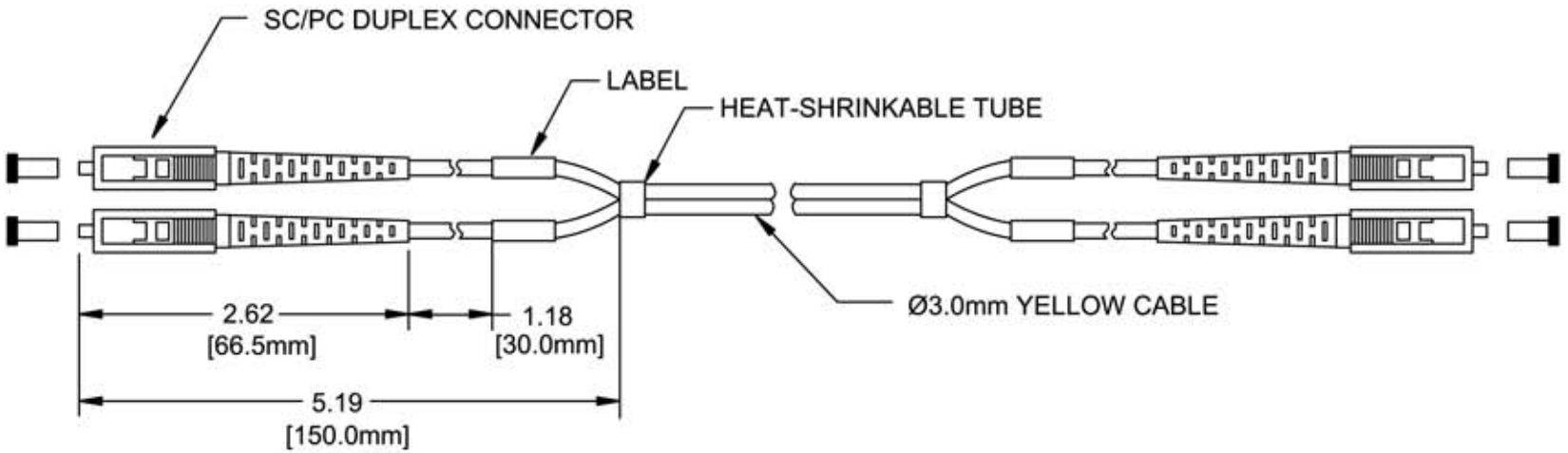
LENGTH (METERS)
01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 15, 20, 25, 30

REF# CS-126

Allen Tel Products, Inc
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GBLCT-D2-XX LC TO ST DUPLEX MULTIMODE 62.5/125 (ORANGE JACKET)

REF# CS-127



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-XX

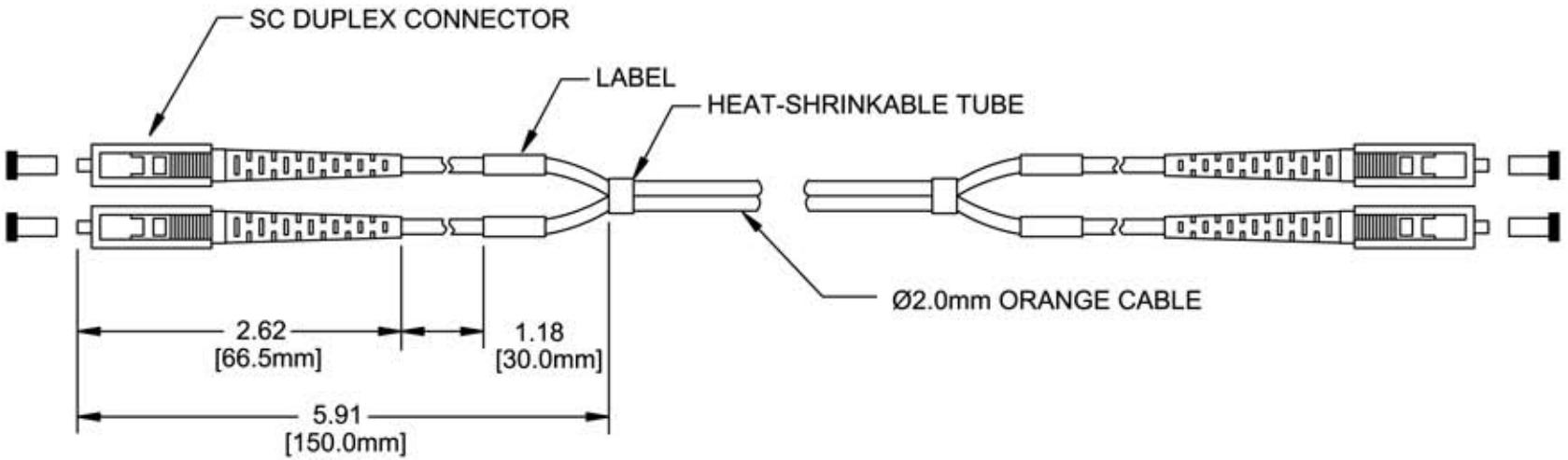
LENGTH (METERS)
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08, 09, 10, 15, 20, 25, 30

REF# CS-127

Allen Tel Products, Inc
30 TV5 DRIVE • HENDERSON, NV • 89014

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

REF# CS-128



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

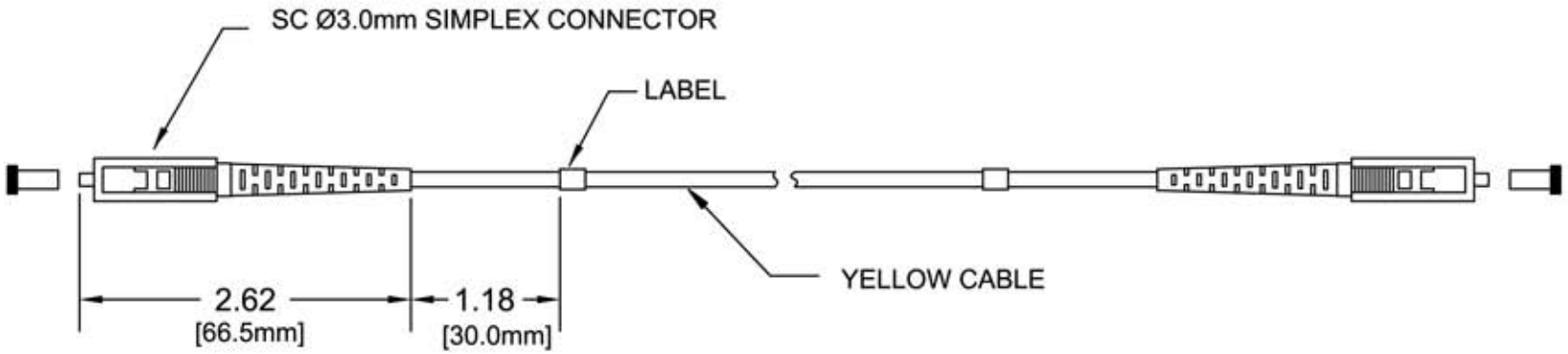
LENGTH (METERS)
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08, 09, 10, 15, 20, 25, 30

REF# CS-128

Allen Tel Products, Inc
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GBSC2-D2-XX SC TO SC DUPLEX
MULTIMODE 62.5/125 (ORANGE JACKET)

REF# CS-129



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

RoHS UL CSA

PART#: GBSC2-S1-XX

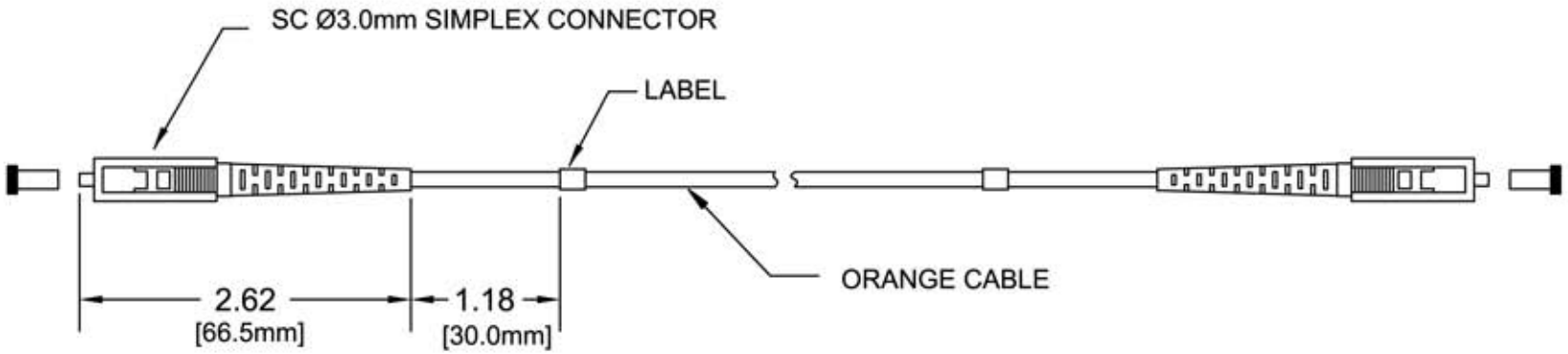
LENGTH (METERS)
01, 02, 03, 04, 05, 06, 07,
08, 09, 10, 15, 20, 25, 30

REF# CS-129

Allen Tel Products, Inc
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GBSC2-S1-XX SC TO SC SIMPLEX SINGLEMODE 9/125 (YELLOW JACKET)

REF# CS-130



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

RoHS UL SA

PART#: GBSC2-S2-XX

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

REF# CS-130

Allen Tel Products, Inc
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GBSC2-S2-XX SC TO SC SIMPLEX MULTIMODE 62.5/125 (ORANGE JACKET)

Sold by:
TWAcomm.com
http://www.TWAcomm.com
Toll Free: (877) 389-0000

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 - D 2 - 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-131

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

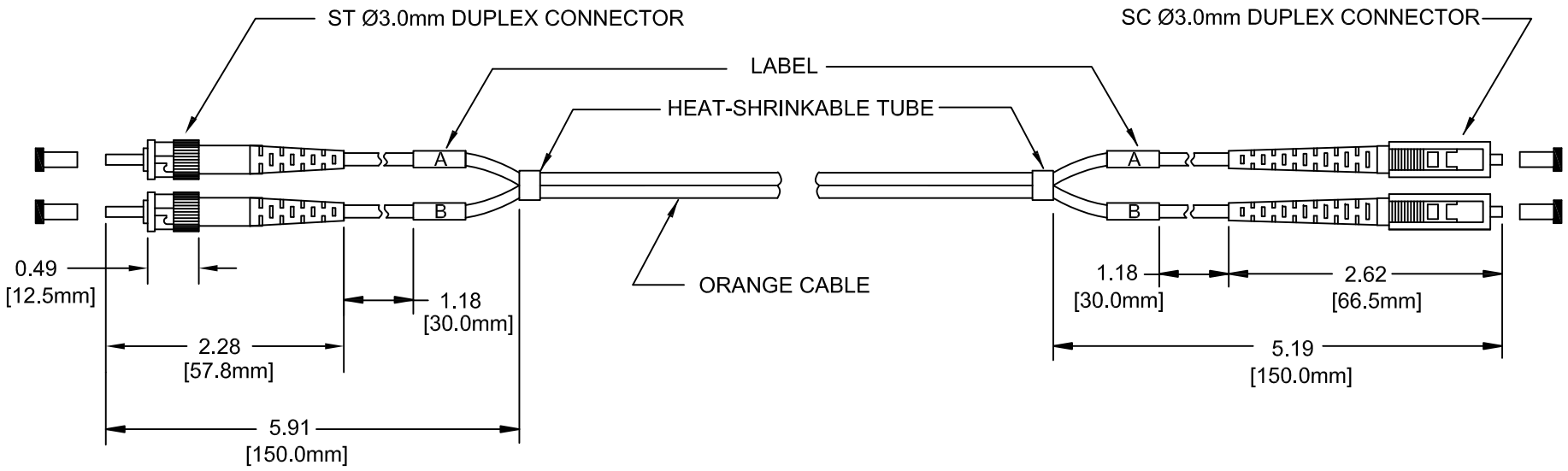
S - Simplex
D - Duplex

Ordering Example

GBSC2-D2-03

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

REF# CS-132



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

REF# CS-132

Allen Tel Products, Inc
Allen Tel Products, Inc
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GBSTC-D2-XX ST TO SC DUPLEX MULTIMODE 62.5/125 (ORANGE JACKET)

Patch Cords

Sold by:
TWAcomm.com
http://www.TWAcomm.com
Toll Free: (877) 389-0000

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 - D 2 - 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-133

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

Sold by:
TWAcomm.com
http://www.TWAcomm.com
Toll Free: (877) 389-0000

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 - D 2 - 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-134

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

Pretium EDGE® Solutions Trunk Cable, 50 µm multimode (OM3)

MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 70 ft

REF# CS-135



Part Number: G757524TPNDDU070F

Pretium EDGE® Solutions trunk cables utilize the MTP® Connector, a 12-fiber push/pull optical connector with a footprint similar to the SC simplex connector. These high-density connectors are used to significantly accelerate the network installation process, minimize errors and reduce space. Pretium EDGE Solutions trunks utilizing MTP Connectors support 12 to 144 fibers.

Pretium EDGE® Solutions trunk cables utilize a high-density cable solution, which results in up to 65 percent space savings. Five to six times the fiber tray capacity can be achieved over traditional bulkier cabling solutions while minimizing cable tray weight and cooling air impediment. The trunk cables contain Corning® ClearCurve® optical fiber, which enables a bend radius of five times the cable outside diameter and allows for smaller slack storage coils or loops. The cables feature a 2.0 mm round furcation leg which provides easy routing and improved slack storage.

Pretium EDGE® Solutions trunks feature a furcation plug design that offers stress-free strain-relief of the cable, and a small-profile furcation plug allows installation of all fiber counts inside a 1U housing. All trunks are shipped with appropriate strain-relief brackets for integrating into both Pretium EDGE Solutions housings and Plug & Play™ Systems housings. The trunk furcation features a transition boot for smooth transition out of rack/floor hardware. The flexibility of the grip allows easy installation around the corners of tray and ladder racks, while its robust design allows the trunk to be pulled through conduit using up to 100 lb of pulling tension while providing complete protection for the connectors. All trunks are packaged on a plastic corrugated reel for easy installation. This reel can be easily broken down for cost-effective disposal. Pretium EDGE Solutions trunks have been tested and meet the skew criteria to ensure the system is 100G Ready.

Features and Benefits

High-density trunk cables
Allow tighter trunk cable bends for slack storage and routing

Low insertion loss performance
Allows for more connections in a link when deploying a TIA-942-compliant system

Universal wired components
Enable moves, adds and changes without polarity concerns; provide a simple migration path between 2-fiber and parallel optic applications

Pretium EDGE® Solutions Trunk Cable, 50 µm multimode (OM3)

MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 70 ft

Features and Benefits

Factory-terminated solutions
Provide consistent quality, ensure system performance and reduce installation time

Standards

Approval and Listings	NFPA 262, National Electrical Code® (NEC®), OFNP, CSA FT-6

Specifications

General Specifications	
Application	Data Center LAN/SAN
Cable Type	Indoor; ANSI/ICEA S-83-596
Flame Rating	Plenum (OFNP)
Fiber Category	50 µm MM (OM3)
Cable Assembly Type	Pretium EDGE® Trunk

Temperature Range	
Operation	-10 °C to 60 °C (14 °F to 140 °F)

Design - Connector A	
Connector Type	MTP® (non-pinned)
Ferrule	Composite

Optical Specifications - Connector A	
Reflectance, Typical	< -20 dB
Insertion Loss, Max.	0.35 dB

Pretium EDGE® Solutions Trunk Cable, 50 µm multimode (OM3)

MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 70 ft

CORNING

Design - Connector B	
Connector Type	MTP® (non-pinned)
Ferrule	Composite

Optical Specifications - Connector B	
Reflectance, Typical	< -20 dB
Insertion Loss, Max.	0.35 dB

Cable Design	
Fiber Count	24
Outer Jacket Color	Aqua
Polarity	Universal; TIA-568 Type-B

Mechanical Characteristics Cable	
Nominal Outer Diameter	7.7 mm (± 0.3 mm)
Min. Bend Radius Installation	115.5 mm (4.55 in)
Min. Bend Radius Operation	38.5 mm (1.52 in)
Max. Tensile Strength for Installation	660 N
Weight	50 kg/km (110 lb/1000 ft)

Furcation - Connector A	
Leg Length	838 mm (-0 mm/+76 mm) (33 in (-0 in/+3 in))
Leg Color	Aqua
Leg Diameter	2.0 mm
Furcation Type - A	Pretium EDGE® Size 1; 14.7 mm x 14.7 mm x 108.6 mm

Furcation - Connector B	
Leg Length	838 mm (-0 mm/+76 mm) (33 in (-0 in/+3 in))
Leg Color	Aqua
Leg Diameter	2.0 mm
Furcation Type - B	Pretium EDGE® Size 1; 14.7 mm x 14.7 mm x 108.6 mm

Pretium EDGE® Solutions Trunk Cable, 50 µm multimode (OM3)

MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 70 ft

Pulling Grip - Connector A	
Pulling Grip - Connector A	Yes
Outer Diameter	41 mm (1.6 in)
Min. Duct Size Diameter	64 mm (2.5 in)
Tensile Strength	440 N (100 lb)

Pulling Grip - Connector B	
Pulling Grip - Connector B	No

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

Pretium EDGE® Solutions Trunk Cable, 50 µm multimode (OM3)

MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 70 ft

Fiber Specifications

Optical Characteristics (cabled)	
Fiber Name	G50/125 Pretium 300 ULTRA-BEND 7.5
Fiber Type	Multimode
Fiber Core Diameter	50 µm
Fiber Category	OM3
Fiber Compliance	IEC 60793-2-10 for A1a class 50/125 multimode fibers; TIA/EIA 492AAAC-A (OM3); ITU-T Recommendation G.651; ISO/IEC 11801 Grade OM3
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	3.0 dB/km / 1.0 dB/km
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -
Serial 1 Gigabit Ethernet	1000 m / 600 m / -
Serial 10 Gigabit Ethernet	300 m / -
Standards in Compliance	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801 Cat. OM3
Fiber Code	T
Induced Attenuation @ 7.5 mm Radius	< 0.2 dB / -

Notes:
1) *50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.*
2) Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions.
3) Improved attenuation and bandwidth options available.
4) Bend-insensitive single-mode fibers available on request.
5) *Contact a Corning Cable Systems Customer Care Representative for additional information.*

Ordering Information

Part Number	G757524TPNDDU070F
Product Description	Pretium EDGE® Solutions Trunk Cable, 50 µm multimode (OM3), MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 70 ft
Length	70 ft (-0 ft/+2 ft) (21.34 m (-0 m/+0.61 m))

Pretium EDGE® Solutions Trunk Cable, 50 µm multimode (OM3)

MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 70 ft

Shipping Information

Units per Delivery	1/1
Reel A	Diameter 23.5 in Width 5 in

RoHS COMPLIANT

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Pretium EDGE® Trunk Cable

50 µm multimode (OM3), MTP® Connector to MTP Connector, 48 F, with 33/33 inch legs, pulling grip one side, 120 ft

REF# CS-136

The Pretium EDGE® MTP® Trunks provide the backbone of the Pretium EDGE Solution. With nonpinned MTPs on both ends of the cable, these trunks are designed to interface with the Pretium EDGE or Plug & Play™ modules. All trunks are shipped with strain-relief clips that allow for the tool-less installation in both Pretium EDGE and Plug & Play housings. These trunks conform to TIA-568 Type-B polarity.



Part Number: G757548TPNDDU120F



Part Number: G757548TPNDDU120F

Features and Benefits

High-density trunk cables
Allow tighter trunk cable bends for slack storage and routing

Low insertion loss performance
Allows for more connections in a link when deploying a TIA-942-compliant system

Universal wired components
Enable moves, adds and changes without polarity concerns; provide a simple migration path between 2-fiber and parallel optic applications

Factory-terminated solutions
Provide consistent quality, ensure system performance and reduce installation time

Standards

Approval and Listings	NFPA 262, National Electrical Code® (NEC®), OFNP, CSA FT-6

Pretium EDGE® Trunk Cable

50 µm multimode (OM3), MTP® Connector to MTP Connector, 48 F, with 33/33 inch legs, pulling grip one side, 120 ft

Specifications

General Specifications	
Application	Data Center LAN/SAN
Cable Type	Indoor; ANSI/ICEA S-83-596
Flame Rating	Plenum (OFNP)
Cable Assembly Type	Pretium EDGE® Trunk
Fiber Category	50 µm MM (OM3)

Temperature Range	
Operation	-10 °C to 60 °C (14 °F to 140 °F)

Design - Connector A	
Connector Type	MTP® (non-pinned)
Ferrule	Composite

Optical Specifications - Connector A	
Reflectance, Typical	< -20 dB
Insertion Loss, Max.	0.35 dB

Design - Connector B	
Connector Type	MTP® (non-pinned)
Ferrule	Composite

Optical Specifications - Connector B	
Reflectance, Typical	< -20 dB
Insertion Loss, Max.	0.35 dB

Pretium EDGE® Trunk Cable

50 µm multimode (OM3), MTP® Connector to MTP Connector, 48 F, with 33/33 inch legs, pulling grip one side, 120 ft

CORNING

Cable Design	
Fiber Count	48
Outer Jacket Color	Aqua
Polarity	Universal; TIA-568 Type-B

Mechanical Characteristics Cable	
Nominal Outer Diameter	8.5 mm (± 0.3 mm)
Min. Bend Radius Installation	127.5 mm (5.02 in)
Min. Bend Radius Operation	42.5 mm (1.67 in)
Max. Tensile Strength for Installation	660 N
Weight	62 kg/km (137 lb/1000 ft)

Furcation - Connector A	
Leg Length	838 mm (-0 mm/+76 mm) (33 in (-0 in/+3 in))
Leg Color	Aqua
Leg Diameter	2.0 mm
Furcation Type - A	Pretium EDGE® Size 2; 20 mm x 20 mm x 108.6 mm

Furcation - Connector B	
Leg Length	838 mm (-0 mm/+76 mm) (33 in (-0 in/+3 in))
Leg Color	Aqua
Leg Diameter	2.0 mm
Furcation Type - B	Pretium EDGE® Size 2; 20 mm x 20 mm x 108.6 mm

Pulling Grip - Connector A	
Pulling Grip - Connector A	Yes
Outer Diameter	56 mm (2.2 in)
Min. Duct Size Diameter	89 mm (3.5 in)
Tensile Strength	440 N (100 lb)

Pretium EDGE® Trunk Cable

50 µm multimode (OM3), MTP® Connector to MTP Connector, 48 F, with 33/33 inch legs, pulling grip one side, 120 ft

Pulling Grip - Connector B	
Pulling Grip - Connector B	No

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

Fiber Specifications

Optical Characteristics (cabled)	
Fiber Name	G50/125 Pretium 300 ULTRA-BEND 7.5
Fiber Type	Multimode
Fiber Core Diameter	50 µm
Fiber Category	OM3
Fiber Compliance	IEC 60793-2-10 for A1a class 50/125 multimode fibers; TIA/EIA 492AAAC-A (OM3); ITU-T Recommendation G.651; ISO/IEC 11801 Grade OM3
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	3.0 dB/km / 1.0 dB/km
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -
Serial 1 Gigabit Ethernet	1000 m / 600 m / -
Serial 10 Gigabit Ethernet	300 m / -
Standards in Compliance	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801 Cat. OM3
Fiber Code	T
Induced Attenuation @ 7.5 mm Radius	< 0.2 dB / -

Notes:
1) *50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.*
2) Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions.
3) Improved attenuation and bandwidth options available.
4) Bend-insensitive single-mode fibers available on request.
5) *Contact a Corning Cable Systems Customer Care Representative for additional information.*

Pretium EDGE® Trunk Cable

50 µm multimode (OM3), MTP® Connector to MTP Connector, 48 F, with 33/33 inch legs, pulling grip one side, 120 ft

Ordering Information

Part Number	G757548TPNDDU120F
Product Description	Pretium EDGE® Solutions Trunk Cable, 50 µm multimode (OM3), MTP® Connector to MTP Connector, 48 F, with 33/33 inch legs, pulling grip one side, 120 ft
Length	120 ft (-0 ft/+2 ft) (36.58 m (-0 m/+0.61 m))

Shipping Information

Units per Delivery	1/1
Reel A	Diameter 23.5 in Width 5 in

RoHS COMPLIANT

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Pretium EDGE® Solutions Trunk Cable, Bend-improved Single-mode (OS2)

MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 80 ft

REF# CS-137

Pretium EDGE® Solutions trunk cables utilize the MTP® Connector, a 12-fiber push/pull optical connector with a footprint similar to the SC simplex connector. These high-density connectors are used to significantly accelerate the network installation process, minimize errors and reduce space. Pretium EDGE Solutions trunks utilizing MTP Connectors support 12 to 144 fibers.

Pretium EDGE® Solutions trunk cables utilize a high-density cable solution, which results in up to 65 percent space savings. Five to six times the fiber tray capacity can be achieved over traditional bulkier cabling solutions while minimizing cable tray weight and cooling air impediment. The trunk cables contain Corning® ClearCurve® optical fiber, which enables a bend radius of five times the cable outside diameter and allows for smaller slack storage coils or loops. The cables feature a 2.0 mm round furcation leg which provides easy routing and improved slack storage.

Pretium EDGE® Solutions trunks feature a furcation plug design that offers stress-free strain-relief of the cable, and a small-profile furcation plug allows installation of all fiber counts inside a 1U housing. All trunks are shipped with appropriate strain-relief brackets for integrating into both Pretium EDGE Solutions housings and Plug & Play™ Systems housings. The trunk furcation features a transition boot for smooth transition out of rack/floor hardware. The flexibility of the grip allows easy installation around the corners of tray and ladder racks, while its robust design allows the trunk to be pulled through conduit using up to 100 lb of pulling tension while providing complete protection for the connectors. All trunks are packaged on a plastic corrugated reel for easy installation. This reel can be easily broken down for cost-effective disposal. Pretium EDGE Solutions trunks have been tested and meet the skew criteria to ensure the system is 100G Ready.

Features and Benefits

High-density trunk cables
Allow tighter trunk cable bends for slack storage and routing

Low insertion loss performance
Allows for more connections in a link when deploying a TIA-942-compliant system

Universal wired components
Enable moves, adds and changes without polarity concerns; provide a simple migration path between 2-fiber and parallel optic applications

Pretium EDGE® Solutions Trunk Cable, Bend-improved Single-mode (OS2)

MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 80 ft

Features and Benefits

Factory-terminated solutions
Provide consistent quality, ensure system performance and reduce installation time

Standards

Approval and Listings	NFPA 262, National Electrical Code® (NEC®), OFNP, CSA FT-6

Specifications

General Specifications	
Application	Data Center LAN/SAN
Cable Type	Indoor; ANSI/ICEA S-83-596
Flame Rating	Plenum (OFNP)
Fiber Category	Bend-Improved SM (OS2)
Cable Assembly Type	Pretium EDGE® Trunk

Temperature Range	
Operation	-10 °C to 60 °C (14 °F to 140 °F)

Design - Connector A	
Connector Type	MTP® (non-pinned)
Ferrule	Composite

Optical Specifications - Connector A	
Reflectance, Typical	< -55 dB
Insertion Loss, Max.	0.75 dB

Pretium EDGE® Solutions Trunk Cable, Bend-improved Single-mode (OS2)

MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 80 ft

CORNING

Design - Connector B	
Connector Type	MTP® (non-pinned)
Ferrule	Composite

Optical Specifications - Connector B	
Reflectance, Typical	< -55 dB
Insertion Loss, Max.	0.75 dB

Cable Design	
Fiber Count	24
Outer Jacket Color	Yellow
Polarity	Universal; TIA-568 Type-B

Mechanical Characteristics Cable	
Nominal Outer Diameter	7.7 mm (± 0.3 mm)
Min. Bend Radius Installation	115.5 mm (4.55 in)
Min. Bend Radius Operation	38.5 mm (1.52 in)
Max. Tensile Strength for Installation	660 N
Weight	50 kg/km (110 lb/1000 ft)

Furcation - Connector A	
Leg Length	838 mm (-0 mm/+76 mm) (33 in (-0 in/+3 in))
Leg Diameter	2.0 mm
Leg Color	Yellow
Furcation Type - A	Pretium EDGE® Size 1; 14.7 mm x 14.7 mm x 108.6 mm

Furcation - Connector B	
Leg Length	838 mm (-0 mm/+76 mm) (33 in (-0 in/+3 in))
Leg Diameter	2.0 mm
Leg Color	Yellow
Furcation Type - B	Pretium EDGE® Size 1; 14.7 mm x 14.7 mm x 108.6 mm

Pretium EDGE® Solutions Trunk Cable, Bend-improved Single-mode (OS2)

MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 80 ft

Pulling Grip - Connector A	
Pulling Grip - Connector A	Yes
Outer Diameter	41 mm (1.6 in)
Min. Duct Size Diameter	64 mm (2.5 in)
Tensile Strength	440 N (100 lb)

Pulling Grip - Connector B	
Pulling Grip - Connector B	No

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

Fiber Specifications

Optical Characteristics (cabled)	
Fiber Type	Single-Mode Ultra-Bendable Fiber
Fiber Core Diameter	8.2 µm
Fiber Category	OS2
Fiber Compliance	ITU-T G.652.D and ITU-T G.657.A1
Fiber Code	G
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
Induced Attenuation @ 10 mm Radius	0.5 dB (1 turn; 10 mm radius; 1550 nm)

* 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.*

Pretium EDGE® Solutions Trunk Cable, Bend-improved Single-mode (OS2)

MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 80 ft

CORNING

Ordering Information REF# CS-137

Part Number	G909024GPNDDU080F
Product Description	Pretium EDGE® Solutions Trunk Cable, Bend-improved Single-mode (OS2), MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 80 ft
Length	80 ft (-0 ft/+2 ft) (24.38 m (-0 m/+0.61 m))

Shipping Information

Units per Delivery	1/1
Reel A	Diameter 23.5 in Width 5 in

RoHS COMPLIANT

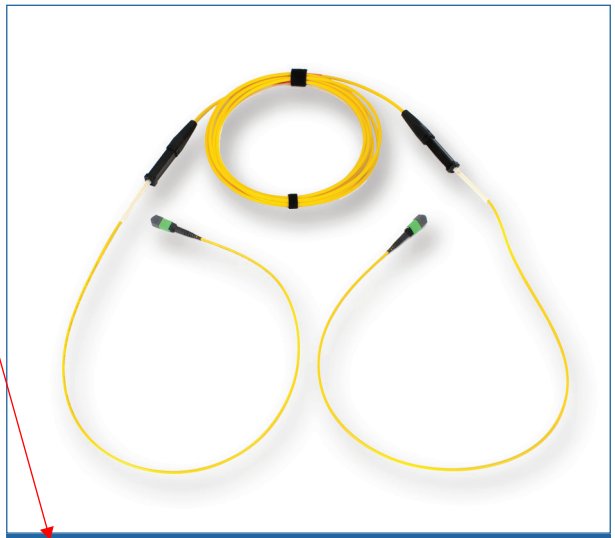
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EDGE™ Trunk Cable

Bend-improved Single-mode (OS2), MTP® Connector to MTP Connector, 48 F, with 33/33 inch legs, pulling grip one side, 100 ft

REF# CS-138

EDGE™ MTP® trunks provide the backbone of the EDGE Solution. With non-pinned MTP connectors on both ends of the cable, the trunks are designed to interface with EDGE or Plug & Play™ modules. All trunks are shipped with strain-relief clips that allow for tool-less installation in both EDGE and Plug & Play housings. The trunks conform to TIA-568 Type-B polarity.



Part Number: G909048GPNDDU100F

Features and Benefits

High-density trunk cables
Allow tighter trunk cable bends for slack storage and routing

Low insertion loss performance
Allows for more connections in a link when deploying a TIA-942-compliant system

Universal wired components
Enable moves, adds and changes without polarity concerns; provide a simple migration path between 2-fiber and parallel optic applications

Factory-terminated solutions
Provide consistent quality, ensure system performance, and reduce installation time

Standards

Approvals and Listings NFPA 262, National Electrical Code® (NEC®), OFNP, CSA FT-6

Specifications

General Specifications	
Application	Data Center LAN/SAN
Cable Type	Indoor; ANSI/ICEA S-83-596
Flame Rating	Plenum (OFNP)
Cable Assembly Type	EDGE™ Trunk
Fiber Category	Bend-improved SM (OS2)

EDGE™ Trunk Cable

Bend-improved Single-mode (OS2), MTP® Connector to MTP Connector, 48 F, with 33/33 inch legs, pulling grip one side, 100 ft

CORNING

Temperature Range	
Operation	-10 °C to 60 °C (14 °F to 140 °F)

Design - Connector A	
Connector Type	MTP® (non-pinned)
Ferrule Material	Composite

Optical Specifications - Connector A	
Insertion Loss, Max.	0.75 dB
Reflectance	< -55 dB

Design - Connector B	
Connector Type	MTP® (non-pinned)
Ferrule Material	Composite

Optical Specifications - Connector B	
Insertion Loss, Max.	0.75 dB
Reflectance	< -55 dB

Cable Design	
Fiber Count	48
Outer Jacket Color	Yellow
Polarity	Universal; TIA-568 Type-B
Strain-Relief Bracket Type	2

Mechanical Characteristics Cable	
Nominal Outer Diameter	8.5 mm ± 0.3 mm (0.33 in)
Min. Bend Radius Installation	127.5 mm (5.02 in)
Min. Bend Radius Operation	42.5 mm (1.67 in)
Max. Tensile Strength for Installation	660 N

EDGE™ Trunk Cable

Bend-improved Single-mode (OS2), MTP® Connector to MTP Connector, 48 F, with 33/33 inch legs, pulling grip one side, 100 ft

CORNING

Mechanical Characteristics Cable	
Weight	63 kg/km (42 lb/1000 ft)
Minimum Conduit Size with 18-in Elbow	3.0 in

Furcation - Connector A	
Leg Length	838 mm (-0 mm/+76 mm) for EDGE™housings (33 in (-0 in/+3 in))
Leg Color	Yellow
Leg Diameter	2.0 mm
Furcation Type - A	EDGE™ Size 2; 20 mm x 20 mm x 108.6 mm

Furcation - Connector B	
Leg Length	838 mm (-0 mm/+76 mm) for EDGE™ housings (33 in (-0 in/+3 in))
Leg Color	Yellow
Leg Diameter	2.0 mm
Furcation Type - B	EDGE™ Size 2; 20 mm x 20 mm x 108.6 mm

Pulling Grip - Connector A	
Pulling Grip - Connector A	Yes
Pulling Grip Outer Diameter	56 mm (2.2 in)
Min. Duct Size Diameter	89 mm (3.5 in)
Tensile Strength	440 N (100 lb)

Pulling Grip - Connector B	
Pulling Grip - Connector B	No

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

EDGE™ Trunk Cable

Bend-improved Single-mode (OS2), MTP® Connector to MTP Connector, 48 F, with 33/33 inch legs, pulling grip one side, 100 ft

CORNING

Fiber Specifications

Optical Characteristics (cabled)	
Fiber Type	Single-Mode Ultra-Bendable Fiber
Fiber Core Diameter	8.2 µm
Fiber Category	OS2
Fiber Compliance	ITU-T G.652.D and ITU-T G.657.A1
Fiber Code	G
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
Induced Attenuation @ 10 mm Radius	0.5 dB (1 turn; 10 mm radius; 1550 nm)

** ITU-T G.652 D compliant.*
** Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.*

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

Ordering Information

REF# CS-138

Part Number	G909048GPNDDU100F
Product Description	EDGE™ Solutions Trunk Cable, Bend-improved Single-mode (OS2), MTP® Connector to MTP Connector, 48 F, with 33/33 inch legs, pulling grip one side, 100 ft
EAN Code	4056418146478
Weight	2.9 kg (6.4 lb)
Length	100 ft (-0 ft/+2 ft) (30 m (-0 m/+0.61 m))

Shipping Information

Units per Delivery	1/1
Reel Diameter	23.5 in
Reel Width	5 in

EDGE™ Trunk Cable

Bend-improved Single-mode (OS2), MTP® Connector to MTP Connector, 48 F, with 33/33 inch legs, pulling grip one side, 100 ft

CORNING

Notes

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CABLING ONLY – CABLING & SUPPORT STRUCTURE

Other Miscellaneous Charges

CS-139 Air Travel Expense for Neighbor Islands

Air Travel expenses for Technicians traveling to or from Neighbor Islands will not be necessary in most cases as on-island Technicians will be used on projects and only during extenuating circumstances may Technicians travel to and from Neighbor Islands be required (ie..emergencies or if requested by the state to meet unforeseen rgetnt dead-lines). Travel expenses will be airfare.

CS-140 Lodging Expense for Neighbor Islands, day

Lodging expenses for Technicians traveling to or from Neighbor Islands will not be necessary in most cases as on-island Technicians will be used and only during extenuating circumstances may Technicians travel to and from Neighbor Islands be required (ie..emergencies or if requested by the state to meet dead-lines). Travel expenses will be lodging.

CS-141 Shipping Expense for Neighbor Islands

Shipping expedited air freight is used to offset any additional air freight incurred to expedite delivery of materials required for emergency or customer expedite due date requirements and may only occur in rare situations and can only be assessed when needed due to weight and time variations.