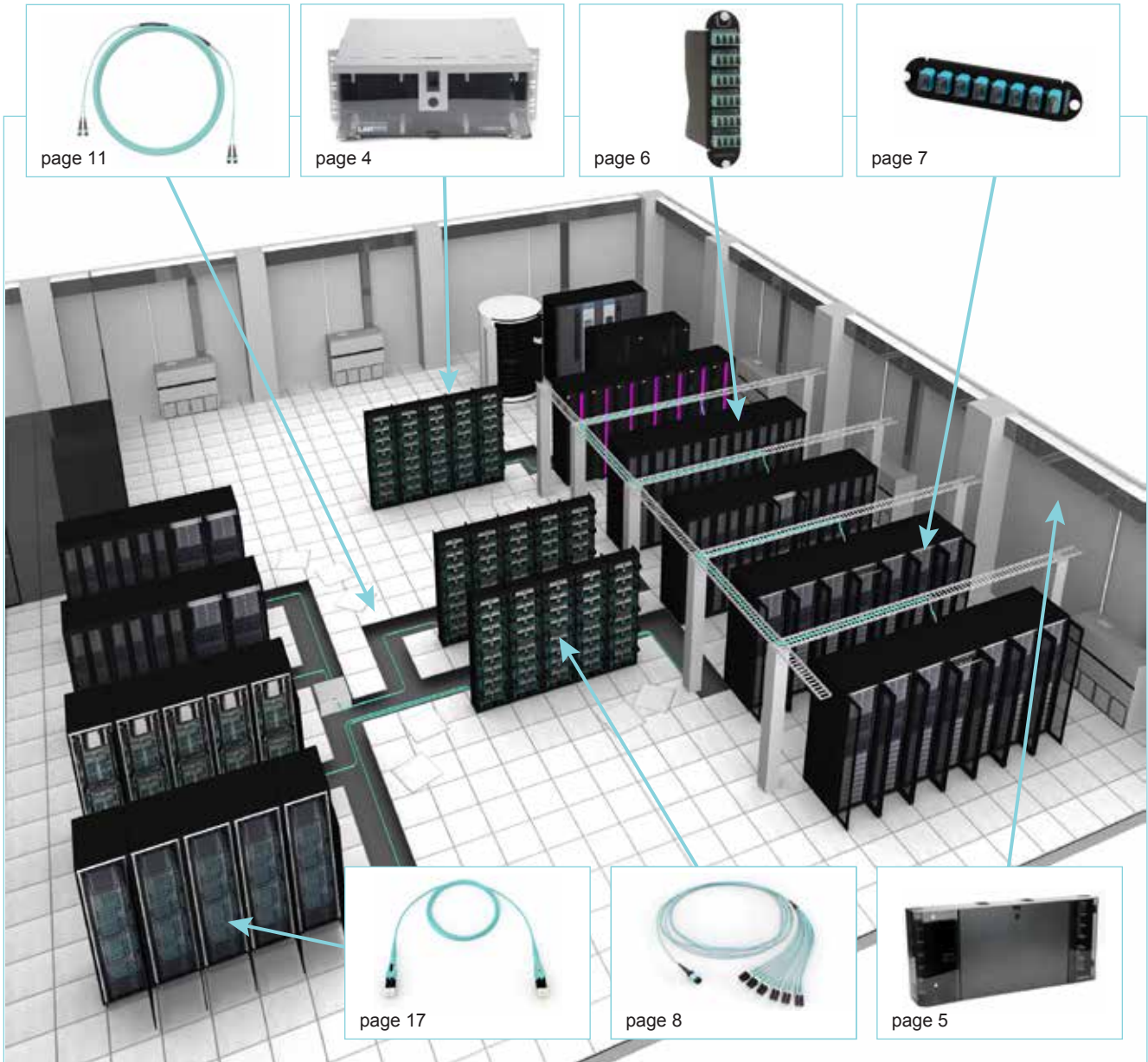# Plug & Play™ Systems

Plug & Play™ Systems for Data Centers and Storage Area Networks (SANs)

Corning Plug & Play™ systems create a fiber optic tip-to-tip solution for data centers and storage area networks consisting of housings, modules, panels, harnesses, trunks, and jumpers.

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Plug & Play Solutions
| Drawing MM191

Plug & Play™ Systems

Features and Benefits

Universal wired modular system components
Enables moves, adds, and changes (MACs) without polarity concerns; provides a simple migration path between two-fiber and parallel optics applications

Corning® ClearCurve® OM3 and OM4 fiber offers enhanced bend performance
Allows tighter cable routing without negatively impacting system performance

100G-ready performance
Ensures product will meet the requirements of 100G Ethernet applications

Parallel optics tested to a maximum skew of 0.75 nanoseconds
Ensures operation in high-data-rate Ethernet and InfiniBand applications

100% round furcation legs
Eliminates preferential bend issues commonly associated with ribbon cables and furcation legs

MTP® PRO connectors on harnesses and jumpers
Allows for pinning and polarity changes in the field

Plug & Play™ MTP® Trunks
| REN7171

Plug & Play Module
| REN1995

Plug & Play Harness
| REN7180

Specifications

Connected Mated Pair			
	Connector Insertion Loss		
	OM1	OM3/OM4, Low-Loss	OS2, Ultra-Bend
LC	0.25 dB	0.15 dB	0.5 dB
SC	0.25 dB	0.15 dB	0.5 dB
MTP Connector	0.5 dB	0.35 dB	0.75 dB

CORNING

Plug & Play™ Systems

Modules/Harnesses			
	Connector Insertion Loss		
	OM1	OM3/OM4	OS2
LC	0.75 dB	0.5 dB	1.3 dB
SC	0.75 dB	0.5 dB	1.3 dB

Integrated Trunk Module			
	Connector Insertion Loss		
	OM1	OM3/OM4	OS2
LC	0.75 dB	0.75 dB	1.3 dB
SC	0.75 dB	0.75 dB	1.3 dB

CORNING

Plug & Play™ Systems

Rack-Mountable Pretium™ Connector Housings

The rack-mountable Pretium™ connector housings (PCH) are available in 1U, 2U, and 4U sizes and mount into 19-in racks or cabinets. Combined with the modules, panels, harnesses, trunks, and jumpers, they provide a tip-to-tip solution for your fiber optic network.

PCH-01U
| Photo LAN1226

PCH-M3-01U
| Photo LAN2923

CPP-01U-PNL
| Photo LAN1361

PCH-M3-ITM
| Photo LAN2943

PCH-02U
| Photo LAN2814

CPP-M3-PNL
| Photo LAN1362

PCH-04U
| Photo LAN2815

CPP-ITM-PNL
| Photo LAN2927

Part Number	Height	Dimensions (W x D x H)	Packaging (W x D x H)	Shipping	Number of Panels/Modules per RU
PCH-01U	1U	432 x 406 x 44.45 mm	615.9 x 508 x 120.7 mm	5 kg (11 lb)	2
CPP-01U-PNL	1U	482.6 x 10.16 x 44.5 mm	482.6 x 130.3 x 88.9 mm	0.227 kg (0.5 lb)	2
CPP-ITM-PNL	1U	482.6 x 8.89 x 44.45 mm	501.65 x 146.05 x 63.5 mm	0.227 kg (0.5 lb)	2
CPP-M3-01U	1U	482.6 x 10.16 x 44.45 mm	482.6 x 130.3 x 88.9 mm	0.227 kg (0.5 lb)	3
PCH-M3-01U	1U	426.72 x 323.85 x 44.45 mm	511.3 x 438.15 x 120.65 mm	1.75 kg (3.85 lb)	3
PCH-M3-ITM	1U	431.8 x 358.14 x 44.45 mm	511.30 x 438.15 x 120.65 mm	2.27 kg (5 lb)	3
PCH-02U	2U	431.8 x 419.1 x 88.9 mm	584.2 x 558.8 x 152.4 mm	5.7 kg (12.6 lb)	4
PCH-04U	4U	431.8 x 406.4 x 177.8 mm	562.1 x 482.6 x 279.4 mm	7.5 kg (16.5 lb)	12

For part numbers CPP-01U-PNL and CPP-M3-01U, external strain-relief must be ordered.

Plug & Play™ Systems

Pretium™ Wall-Mountable Housings

Pretium™ wall-mountable housings (PWH) are available in 1, 2, 4, 6, and 12 panel/module sizes. Combined with the modules, panels, harnesses, trunks, and jumpers, they provide a tip-to-tip solution for your fiber optic network.

SMH-01M
| Photo LAN6999

Pretium Wall-Mountable Housing, PWH-02P

Pretium Wall-Mountable Housing, PWH-04P

Pretium Wall-Mountable Housing, PWH-06P

PWH-12P
| Photo LAN2938

Part Number	Dimensions (W x D x H)	Packaging (W x D x H)	Shipping	Number of Panels Per
SMH-01M	160 x 140 x 50 mm	196.85 x 171.45 x 54.10 mm	0.5 kg (1.0 lb)	1
PWH-02P	444.5 x 101.6 x 238.76 mm	543.05 x 387.35 x 234.95 mm	5 kg (11 lb)	2
PWH-04P	533.4 x 134.62 x 365.76 mm	685.8 x 596.9 x 342.9 mm	10.4 kg (23 lb)	4
PWH-06P	533.4 x 134.62 x 365.76 mm	685.8 x 596.9 x 342.9 mm	10.4 kg (23 lb)	6
PWH-12P	825.5 x 134.62 x 365.76 mm	977.9 x 596.9 x 342.9 mm	10.9 kg (24 lb)	12

Plug & Play™ Systems

Modules

Plug & Play™ modules provide the interface between the MTP® connector on the trunk and the LC jumpers that will connect directly to the electronics. The LC duplex adapters feature hinged VFL-compatible shutters that move up and out of the way when the connector is inserted. Specially designed indents in the shutters ensure that the end faces of the connectors are never touched. These shutters replace the standard dust caps that typically, once removed, are never replaced, exposing the interior end faces to dust particles and possible damage.

Plug & Play Module
| Photo LAN1797

Ordering Information

C C H - ☐☐ ☐☐ - ☐☐ - ☐☐ ☐
　　　　1　　2　　　3　　4　　5

1 Select polarity
UM = Universal
RM = Straight-through (classic)

2 Select fiber count.
12 = 12 fibers
24 = 24 fibers

3 Select adapters on front of module.
Shuttered LC Duplex
05 = Multimode (OM1/OM3/OM4)
04 = Single-mode (OS2) UPC
18 = Single-mode (OS2) APC
SC Duplex (12-fiber maximum)
57 = Multimode (OM1/OM3/OM4)
72 = Single-mode (OS2) UPC
66 = Single-mode (OS2) APC

4 Select pinned MTP connector adapter on back of module.
70 = Standard-loss multimode (OM1)
93 = Low-loss multimode (OM3/OM4)
89 = Single-mode (OS2)
See Notes 1 and 2.

5 Select fiber type.
K = Multimode (OM1)
T = Multimode (OM3)
Q = Multimode (OM4)
G = Single-mode (OS2)

1) In order to guarantee a low-loss system, use all low-loss components.
2) Low-loss available with SC duplex, LC duplex, and MTP connectors on OM3 and OM4 solutions only.

Plug & Play™ Systems

MTP® Adapter Panels

Plug & Play™ MTP® adapter panels provide a simple interface to connect trunk harnesses to trunks, standard trunks to extender trunks, or can facilitate the use of parallel optic transceivers.

Plug & Play Panel
| Photo LAN3017

Ordering Information

C C H - C P ☐☐ - ☐☐

1   **2**

1   Select fiber count.
- 36 = 3 MTP adapters
- 72 = 6 MTP adapters
- 96 = 8 MTP adapters
- E4 = 12 MTP adapters (144-fibers)

2   Select fiber type.
- 69 = Multimode (OM1)
- E3 = Multimode (OM3, OM4)
- 90 = Single-mode (OS2)

Plug & Play™ Systems

MTP® to LC/SC Harnesses

The 12-fiber Plug & Play™ module harness is designed to create a cross-connect point near the electronics by enabling port replication. This cross-connection is possible with duplex LC connectors to interface with the electronics and an MTP® PRO connector to connect into the back of a module. With port replication, your day-x after multiple MACs in front of the electronics looks the same as day one.

The 12-fiber Plug & Play trunk harnesses are designed to facilitate an interconnect point when the electronics are located in a separate area than the cross-connector patching field. This interconnection is possible with duplex LC connectors to interface with the electronics and an MTP PRO connector to connect into a trunk.

MTP PRO allows for a simple one-step, color-coded polarity change feature without removing the connector housing. The connector also provides the capability for field-friendly pinning configuration changes with safe handling of pins and easy color identification while maintaining product integrity.

Plug & Play Module Harness
| Drawing REN7180

Ordering Information

H ☐☐ ☐☐ 1 2 ☐ E 8 - ☐ ☐ ☐☐☐ ☐
　　1　　2　　　3　　　4　5　6　7

1 Select MTP PRO connector.
- 69 = MTP, 12 F (non-pinned), OM1
- 70 = MTP, 12 F (pinned), OM1
- 75 = MTP, 12 F (non-pinned), OM3/OM4
- 93 = MTP, 12 F (pinned), OM3/OM4
- 90 = MTP, 12 F (non-pinned), OS2
- 89 = MTP, 12 F (pinned), OS2

2 Select breakout connector type.

SC Duplex
- 57 = Multimode (OM1/OM3/OM4)
- 72 = Single-mode (OS2) UPC
- 66 = Single-mode (OS2) APC

SC Simplex
- 58 = Single-mode (OS2) UPC
- 44 = Single-mode (OS2) APC

LC Duplex
- 05 = Multimode (OM1/OM3/OM4)
- 04 = Single-mode (OS2) UPC
- 18 = Single-mode (OS2) APC

LC Simplex
- 03 = Multimode (OM1/OM3/OM4)
- 02 = Single-mode (OS2) UPC
- 22 = Single-mode (OS2) APC

3 Select fiber type.
- K = Multimode (OM1)
- T = Multimode (OM3)
- Q = Multimode (OM4)
- G = Single-mode (OS2)

4 Select leg length in inches (+3.5/-1 in). Leg OD is 2 mm.
- J = 12 in
- K = 24 in
- L = 36 in
- M = 48 in
- N = 60 in
- P = 72 in
- Q = 79 in
- R = 98 in

5 Select polarity
- A = Type A (universal LCs)
- B = Type B (universal LCs)
- P = Straight-through

6 Select overall harness length.
- 003-200 ft
  (1 ft increments measured from plug to MTP, does not include leg length)
- 001-060 m
  (1 m increments measured from plug to MTP, does not include leg length)

7 Select unit of measure.
- M = Meters
- F = Feet

1) In order to guarantee a low-loss system, use all low-loss components.

Plug & Play™ Systems

Trunk Specifications

Mechanical Characteristics				
Fiber	Nominal Outer Diameter	Weight	Min. Bend Radius Installation 15 x OD	Min. Bend Radius Operation 5 x OD
Non-Armored Cable Specifications				
12	5.5 mm ± 0.3 mm (0.22 in ± 0.01 in)	32 kg/km (22 lb/1,000 ft)	82.5 mm (3.25 in)	27.5 mm (1.08 in)
24	7.7 mm ± 0.3 mm (0.30 in ± 0.01 in)	50 kg/km (34 lb/1,000 ft)	115.5 mm (4.55 in)	38.5 mm (1.52 in)
36	8.0 mm ± 0.3 mm (0.31 in)	56 kg/km (38 lb/1,000 ft)	120 mm (4.72 in)	40 mm (1.57 in)
48	8.5 mm ± 0.3 mm (0.33 in ± 0.01 in)	63 kg/km (42 lb/1,000 ft)	127.5 mm (5.02 in)	42.5 mm (1.67 in)
72	10.5 mm ± 0.3 mm (0.41 in ± 0.01 in)	95 kg/km (64 lb/1,000 ft)	157.5 mm (6.2 in)	52.5 mm (2.07 in)
96	11.9 mm ± 0.3 mm (0.47 in ± 0.01 in)	111 kg/km (74 lb/1,000 ft)	178.5 mm (7.03 in)	59.5 mm (2.34 in)
144	12.5 mm ± 0.3 mm (0.49 in ± 0.01 in)	122 kg/km (82 lb/1,000 ft)	187.5 mm (7.38 in)	62.5 mm (2.46 in)

Trunk Shipping Information

Reel Capacities – 12 to 144 Fibers						
Packaging Method	Box E	Box H	Small EDGE	Med. EDGE	Large EDGE	AA (32)
Packaging Material	Corrugated box	Corrugated box	Plastic reel	Plastic reel	Plastic reel	Plastic reel
Reel Diameter (in)	-	-	19.5	19.5	19.5	32
Reel Width (in)	-	-	5	10	16	20
Box Dimensions (in)	21 x 21 x 3.3	31 x 31.5 x 7	-	-		-
Fiber Count	Capacities (ft)					
12	10-100	101-300	301-1,200	1,201-2,255	2,256-3,500	3,501-5,036
24	10-100	101-300	301-600	601-1,100	1,101-1,800	1,801-2,569
36	10-100	101-300	301-550	551-1,050	1,051-1,700	1,701-2,378
48	10-100	101-300	301-450	451-999	1,000-1,500	1,501-2,109
72	10-100	101-300	-	301-600	601-999	1,000-1,381
96	10-100	101-300	-	301-500	501-800	801-1,076
144	10-100	101-300	_	301-400	401-700	701-974

Note: 12- to 144-fiber trunks under 301 ft are shipped in a cardboard box and not on a reel.

Plug & Play™ Systems

Transmission Performance

Fiber Type	Multimode			Single-Mode
Fiber Core Diameter (µm)	62.5	50	50	8.2
Fiber Category	OM1	OM3†	OM4†	OS2*
Fiber Code	K	T	Q	G
Wavelengths (nm)	850/1300	850/1300	850/1300	1310/1383/1550
Maximum Attenuation (dB/km)	3.4/1.0	2.8/1.0	2.8/1.0	0.4/0.4/0.3
Serial 1 Gigabit Ethernet (m)	300/550	1,000/600	1,100/600	5,000/-/-
Serial 10 Gigabit Ethernet (m)	33/-	300/-	550/-	10,000/-/40,000
Min. Overfilled Launch (OFL) Bandwidth MHz km	200/500	1,500/500	3,500/500	-
Minimum Effective Modal Bandwidth (EMB) MHz* km	220/-	2,000/-‡	4,700/-‡	-

*ITU-TG.652D compliant.

†Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.
‡Assumes 1.0 dB maximum total connector/splice loss.

Notes: 1) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.
        2) Contact a Corning Customer Care Representative for additional information.

Plug & Play™ Systems

MTP® Trunks

Plug & Play™ systems MTP® trunks provide the
backbone of the Plug & Play structured cabling.
With non-pinned MTP connectors on both ends
of the cable, these trunks are designed to interface
with the Plug & Play modules.

Plug & Play MTP Trunks
| REN7171

Ordering Information

* N ☐☐ ☐☐ ☐☐ ☐ **PN D D** ☐ ☐☐☐ ☐
1 **2** **3** **4** **5** **6** **7** **8** **9** **10** **11**

*For custom labels, add the letter "L" as prefix to the part number e.g., LN757548QPNDDUxxxF
Print for custom labels can be up to 30 characters. Information to be printed on custom labels must be provided at the time of order.

1 Select grip applications.

N = No grip

2 Select non-pinned MTP
connectors (end one on
outside of reel).

69 = 62.5 µm multimode (OM1)
75 = 50 µm multimode (OM3/OM4)
90 = Single-mode (OS2)

3 Select non-pinned MTP
connectors (end two on
inside of reel).

69 = 62.5 µm multimode (OM1)
75 = 50 µm multimode (OM3/OM4)
90 = Single-mode (OS2)

4 Select standard fiber count.

12 = 12 fibers	72 = 72 fibers
24 = 24 fibers	96 = 96 fibers
36 = 36 fibers	E4 = 144 fibers
48 = 48 fibers	

5 Select fiber type.

K = 62.5 µm multimode (OM1)
T = 50 µm multimode (OM3)
Q = 50 µm multimode (OM4)
G = Single-mode (OS2)

6 Select cable type.

PN = Non-armored plenum

7 Select leg length on end one
or outside of reel.

D = 33 in (+3.5/-1 in)

8 Select leg length on end two
on inside of reel.

D = 33 in (+3.5/-1 in)

9 Select polarity

U = Universal Type-B
C = Classic Type-C
P = Straight-Through Type-A

10 Select cable length

005-999 ft
*(1 ft increments measured from furcation
plug to furcation plug)*

002-300 m
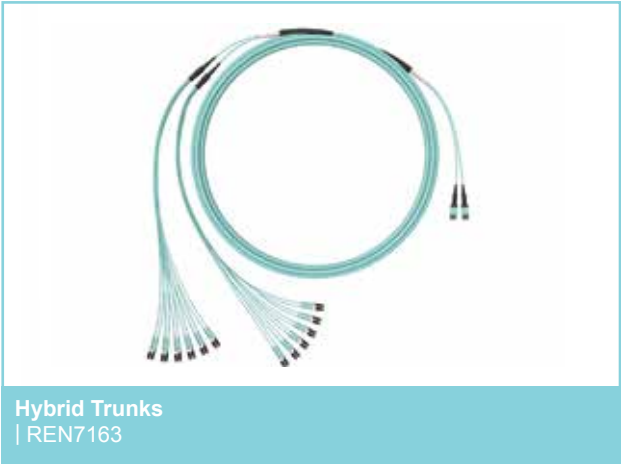*(1 m increments measured from furcation
plug to furcation plug)*

11 Select unit of measure.

M = Meters
F = Feet

Plug & Play™ Systems

Extender Trunks

Plug & Play™ systems extender trunks are used to distribute portions, or all, of the fibers in a Plug & Play MTP® trunk to other areas in the infrastructure. For example, a high-fiber-count trunk can be deployed from a main distribution area (MDA) to a zone distribution area (ZDA). Lower-fiber-count extender trunks can then be utilized to distribute fiber from the ZDA into cabinets.

Plug & Play Extender Trunks
| REN7160

Ordering Information

N [ ][ ][ ] [ ][ ][ ] [ ][ ][ ] [ ] PN C D X [ ][ ][ ] [ ]
1 **2** **3** **4** **5** **6** **7** **8** **9** **10** **11**

1 Select grip applications.

N = No grip

2 Select pinned MTP connectors (end one on outside of reel).

70 = 62.5 µm multimode (OM1)
93 = 50 µm multimode (OM3/OM4)
89 = Single-mode (OS2)

3 Select non-pinned MTP connectors (end two on inside of reel).

69 = 62.5 µm multimode (OM1)
75 = 50 µm multimode (OM3/OM4)
90 = Single-mode (OS2)
See Note 1.

4 Select standard fiber count.

12 = 12 fibers   72 = 72 fibers
24 = 24 fibers   96 = 96 fibers
36 = 36 fibers   E4 = 144 fibers
48 = 48 fibers

5 Select fiber type.

K = 62.5 µm multimode (OM1)
T = 50 µm multimode (OM3)
Q = 50 µm multimode (OM4)
G = Single-mode (OS2)

6 Select cable type.

PN = Non-armored plenum

7 Select leg length on end one on outside of reel.

C = 60 in (+3.5/-1 in)

8 Select leg length on end two or inside of reel.

D = 33 in (+3.5/-1 in)

9 Select trunk type.

X = Extender trunk

10 Select cable length.

005-999 ft
(1 ft increments measured from furcation plug to furcation plug)

002-300 m
(1 m increments measured from furcation plug to furcation plug)

11 Select unit of measure.

M = Meters
F = Feet

1) Extender trunks have pinned MTP connectors on one end and non-pinned MTP connectors on the other end. Attempting to mate two pinned MTP connectors or two non-pinned MTP connectors will not produce the desired optical performance.

Plug & Play™ Systems
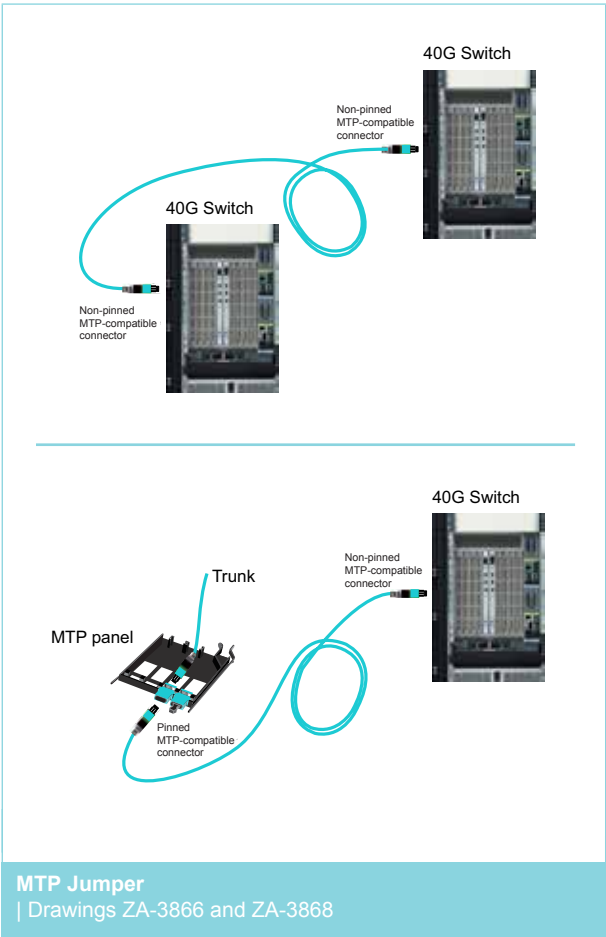
Hybrid Trunks

Plug & Play™ universal hybrid connector trunks are terminated with MTP® connectors on one end of the trunk and LC or SC connectors on the other end for applications, requiring one end of the trunk to connect directly into electronics or patch panels.

Hybrid Trunks
| REN7163

Ordering Information

N [1] □□ [2] □□ [3] □□ [4] □ [5] P N [6] D [7] □ [8] W [9] □□□ [10] □ [11]

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1 Select grip applications.

N = No grip

2 Select non-pinned MTP connectors (end one on outside of reel).

69 = 62.5 μm multimode (OM1)
75 = 50 μm multimode (OM3/OM4)
90 = Single-mode (OS2)

3 Select the connector (end two on inside of reel).

SC Duplex
57 = Multimode (OM1/OM3/OM4)
72 = Single-mode (OS2) UPC

LC Duplex
05 = Multimode (OM1/OM3/OM4)
04 = Single-mode (OS2) UPC

4 Select standard fiber count.

12 = 12 fibers	72 = 72 fibers
24 = 24 fibers	96 = 96 fibers
36 = 36 fibers	E4 = 144 fibers
48 = 48 fibers	

5 Select fiber type.

K = 62.5 μm multimode (OM1)
T = 50 μm multimode (OM3)
Q = 50 μm multimode (OM4)
G = Single-mode (OS2)

6 Select cable type.

PN = Non-armored plenum

7 Select leg length on end one or outside of reel.

D = 33 in (+3.5/-1 in)

8 Select leg length on end two on inside of reel.

2.0 mm OD Legs
K = 24 in (+3.5 / -1 in)
L = 36 in (+3.5 / -1 in)
M = 48 in (+3.5 / -1 in)
N = 60 in (+3.5 / -1 in)
P = 72 in (+3.5 / -1 in)

9 Select trunk type.

W = Universal hybrid trunk

10 Select cable length.

005-999 ft
(1 ft increments measured from furcation plug to furcation plug)

002-300 m
(1 m increments measured from furcation plug to furcation plug)

11 Select unit of measure.

M = Meters
F = Feet

Plug & Play™ Systems

Hybrid Extender Trunks

Plug & Play™ universal hybrid connector extender trunks are terminated with MTP® connectors on one end of the trunk and LC or SC connectors on the other end for applications, requiring one end of the trunk to connect directly into electronics or patch panels.

Hybrid Extender Trunks
| REN7163

Ordering Information

N [1] [ ][ ] [2] [ ][ ] [3] [ ][ ] [4] [ ] [5] P N [6] C [7] [ ] [8] Z [9] [ ][ ][ ] [10] [ ] [11]

1 Select grip applications.

N = No grip

2 Select pinned MTP connector (end one on outside of reel).

70 = 62.5 μm multimode (OM1)
93 = 50 μm multimode (OM3/OM4)
89 = Single-mode (OS2)
See Note 1.

3 Select the connector (end two or inside of reel).

SC Duplex
57 = Multimode (OM1/OM3/OM4)
72 = Single-mode (OS2) UPC

LC Duplex
05 = Multimode (OM1/OM3/OM4)
04 = Single-mode (OS2) UPC

4 Select standard fiber count.

12 = 12 fibers   72 = 72 fibers
24 = 24 fibers   96 = 96 fibers
36 = 36 fibers   E4 = 144 fibers
48 = 48 fibers

5 Select fiber type.

K = 62.5 μm multimode (OM1)
T = 50 μm multimode (OM3)
Q = 50 μm multimode (OM4)
G = Single-mode (OS2)

6 Select cable type.

PN = Non-armored plenum

7 Select leg length on end one or outside of reel.

C = 60 in (+3.5/-1 in)

8 Select leg length on end two or inside of reel.

2.0 mm OD legs
K = 24 in (+3.5/-1 in)
L = 36 in (+3.5/-1 in)
M = 48 in (+3.5/-1 in)
N = 60 in (+3.5/-1 in)
P = 72 in (+3.5/-1 in)

9 Select trunk type.

Z = Universal hybrid extender trunk

10 Select cable length.

005-999 ft
(1 ft increments measured from furcation plug to furcation plug)

002-300 m
(1 m increments measured from furcation plug to furcation plug)

11 Select unit of measure.

M = Meters
F = Feet

1) Hybrid universal extender trunks have pinned MTP connectors on one end and single-fiber connectors on the other end. Alignment is achieved when mating a pinned MTP connector to a non-pinned MTP connector. Attempting to mate two pinned MTP connectors or two non-pinned MTP connectors will not produce the desired optical performance.

Plug & Play™ Systems

MTP® Jumpers

MTP® jumpers allow for the seamless migration to higher data rates in the data center when used in conjunction with our MTP trunks. The jumpers are built with pinned or non-pinned 12-fiber MTP connectors. Pictured here are the most common applications for this type of jumper to make ordering easier. All the jumpers are plenum rated.

MTP jumpers have the same connector size and cable footprint as duplex LC jumpers used today. The density, airflow, and cable management of Plug & Play™ systems is preserved as you migrate to higher data rates.

MTP PRO allows for a simple one-step, color-coded polarity change feature without removing the connector housing. The connector also provides the capability for field friendly pinning configuration changes with safe handling of pins and easy color identification while maintaining product integrity.

40G Switch

Non-pinned MTP-compatible connector

40G Switch

Non-pinned MTP-compatible connector

40G Switch

Non-pinned MTP-compatible connector

Trunk

MTP panel

Pinned MTP-compatible connector

MTP Jumper
| Photo REN3536

MTP Jumper
| Drawings ZA-3866 and ZA-3868

Ordering Information

* J ☐☐ ☐☐ 1 2 ☐ E 8 - N ☐ ☐ ☐ ☐ ☐

1   2   3   4   5   6   7   8

For custom labels, add the letter "L" as prefix to the part number e.g., LJ757512QE8-NBxxxF
Print for custom labels can be up to 30 characters. Information to be printed on custom labels must be provided at the time of order.

1   Select MTP PRO connector.

75 = MTP 12 F (non-pinned) MM
93 = MTP 12 F (pinned) MM
89 = MTP 12 F (pinned) SM
90 = MTP 12 F (non-pinned) SM

2   Select MTP PRO connector.

75 = MTP 12 F (non-pinned) MM
93 = MTP 12 F (pinned) MM
89 = MTP 12 F (pinned) SM
90 = MTP 12 F (non-pinned) SM

Note:
1) Always list lowest numbered connector first.

3   Select fiber type.

T = 50 µm multimode (OM3)
Q = 50 µm multimode (OM4)
G = Single-mode Ultra (OS2)

4   Defines cable type.

E8 = Plenum, interconnect

5   Defines patch cord.

N = Patch cord, no furcation

6   Select patch cord polarity.

A = Type-A polarity
B = Type-B polarity
Note: For patch cord polarity, reference AEN151.

7   Select patch cord length.

003-200 ft
(Measured in 1 ft increments)

001-060 m
(Measured in 1 m increments)

8   Select unit of measure.

F = Feet
M = Meters

Plug & Play™ Systems

Integrated Trunk Modules

Plug & Play™ integrated trunk modules (ITMs) combine the features of the Plug & Play modules with a 12-fiber trunk to provide the interface between the MTP® connectors on the trunk and the LC or SC duplex jumpers that will then connect directly into the electronics. The LC duplex adapters feature hinged VFL-compatible shutters that move up and out of the way when the connector is inserted. Specially designed indents in the shutters ensure that the end faces of the connectors are never touched. These shutters replace the standard dust caps that typically, once removed, are never replaced, allowing the interior end faces to become dirty and possibly damaged.

The ITM provides a quick-and-convenient method for deploying and/or redeploying optical connectivity. It is ideal for deployment from the ZDA to equipment cabinet(s).

Integrated Trunk Module
| Photo LAN1678

Ordering Information

```
I T M U - 1 2 -  ☐☐  ☐☐  ☐  -  ☐☐☐  F
                  1    2   3      4
```

1 Select adapters on front of module.

Shuttered LC Duplex
05 = Multimode (OM1/OM3/OM4)
04 = Single-mode (OS2)

SC Duplex
57 = Multimode (OM1/OM3/OM4)
72 = Single-mode (OS2)

2 Select MTP PRO connector.
69 = MTP, 12 F (non-pinned), OM1
70 = MTP, 12 F (pinned), OM1
75 = MTP, 12 F (non-pinned), OM3/OM4
93 = MTP, 12 F (pinned), OM3/OM4
90 = MTP, 12 F (non-pinned), OS2
89 = MTP, 12 F (pinned), OS2

3 Select fiber type.
K = 62.5 μm multimode (OM1)
T = 50 μm multimode (OM3)
Q = 50 μm multimode (OM4)
G = Single-mode (OS2)

4 Select length in feet.
See Note 1
040 = 40 ft
080 = 80 ft
120 = 120 ft
160 = 160 ft
200 = 200 ft

All ITMs have 40 ft of trunk cable stored inside the ITM, and the remaining cable is stored outside of the ITM.

Plug & Play™ Systems

Reverse Polarity Uniboot Duplex Jumpers

EDGE™ reverse polarity uniboot duplex jumpers allow for the quick-and-easy conversion from a TIA-568 A-B polarity to a TIA-568 A-A polarity without exposing the fibers or needing any tools. This jumper comes with a straight-through polarity from the factory, but you can convert it to a flipped jumper with no tools. This uniboot design allows one cable to carry both fibers, reducing jumper bulk when routing.

Reverse Polarity Uniboot Duplex Jumpers
| Photos REN6462 and REN6461

Features

Slim, round two-fiber interconnect cable.

Uniboot-style duplex connectors.

Improved handling in high-density applications.

Low-loss connectivity enables system design flexibility.

Enabled by bend-insensitive Corning® ClearCurve® multimode or Corning® SMF-28e® Ultra single-mode fibers.

Designed to withstand tight bends and challenging cable routes.

LC Uniboot Jumper Specifications			
Connector	Connector Code	Typical Connector Attenuation (dB)	Return Loss (dB)
MM LC uniboot	79	0.10	≤ 26
SM LC UPC uniboot	78	0.25	≤ 55
SM LC APC uniboot	80	0.25	≤ 65

Ordering Information

☐☐ ☐☐ 0 2 ☐ D ☐ 2 0 ☐☐☐ ☐

1   **2**   **3**   **4**   **5**   **6**

1 Select connector one type.
79 = Multimode LC uniboot (OM3/OM4/OM5)
78 = Single-Mode LC UPC uniboot (OS2)
80 = Single-Mode LC APC uniboot (OS2)

2 Select connector two type.
79 = Multimode LC uniboot (OM3/OM4/OM5)
78 = Single-Mode LC UPC uniboot (OS2)
80 = Single-Mode LC APC uniboot (OS2)

3 Select fiber type.
T = 50 µm multimode (OM3)
Q = 50 µm multimode (OM4)
V = 50 µm multimode (OM5)
G = Single-Mode Ultra (OS2)

4 Select flame rating.
1 = Riser
8 = Plenum

5 Select length.
001-250 (tip-to-tip)

6 Select unit of measure.
F = Feet
M = Meters

Plug & Play™ Systems

Reverse Polarity LC Duplex Clips

All reverse polarity uniboot LC duplex connectors come with a removable clip. We offer a total of 12 colors to allow for easy link identification or fabric segmentation.

EDGE™ Reverse Polarity Uniboot LC Duplex Clips | Photo LAN2254

Ordering Information
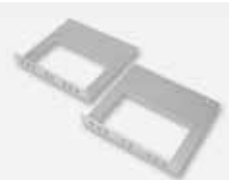
TRIGGER-BP-U-☐
1

1 Select color.
N = Blue
E = Orange
G = Green
W = White
C = Slate
R = Red
B = Black
Y = Yellow
V = Violet
P = Rose
A = Aqua
K = Beige

Note: Must order in multiples of 100.

Plug & Play™ Systems

Housing Accessories

Part Number	Product Description	Units per Delivery	
RBC-02P	Plug & Play™ Systems Accessory Bracket, frame-mountable, holds 2 CCH connector panels or modules	1/1	
PC1-BKT-23	EDGE™ Extension and Flush-Mount Bracket for mounting 1U housings into 23-in racks or cabinets	1/1	
PC2-BKT-23	EDGE Extension and Flush-Mount Bracket for mounting 2U housings into 23-in racks or cabinets	1/1	
PC4-BKT-23	EDGE Solutions Mounting Bracket for mounting 4U housings into 23-in racks or cabinets	1/1	
PC1-BKT-FLSH	PCH Flush-Mount Brackets, PCH-01U (one set)	1/1	
PC2-BKT-FLSH	PCH Flush-Mount Brackets for PCH-02U (one set)	1/1	
PC4-BKT-FLSH	PCH Flush-Mount Brackets PCH-04U (one set)	1/1	
PC1-LOCK-KIT	Door Lock Kit; can be installed on the front and/or back door(s) of the PCH-01U; comes with one lock and two keys	1/1	
HDWR-LOCK-KIT	Lock Kit for front door of housing; contains one lock with two keys	1/1	

Plug & Play™ Systems

Housing Accessories

Part Number	Product Description	Units per Delivery	
CJP-01U-P	Pretium™ Jumper Management Panel 1U; provides jumper management in a 1.75-in rack space	1/1	
CJP-02U-P	Pretium Jumper Management Panel 2U; provides jumper management in a 3.5-in rack space	1/1	
PC2-STRN	PCH Strain-Relief Bracket; PCH-02U accepts up to two UCC kits (UCC-001)	1/1	
PC4-RJ-STRN	PCH U-Clip Bracket, 3x U-Clip for PCH-04U (pack of two)	1/1	
PC4-RJ-PLT	PCH 4U Strain-Relief Rear Plate, dark metallic gray, for U-clip mounting	1/1	
CDF-RJ-BKT	CDF Frame-Mount Bracket for one U-clip	1/1	
EDGE-CDF-RJ04-BKT	EDGE™ Solutions Strain-Relief Bracket, accommodating four EDGE solutions clip parking positions	1/1	
EDGE-CDF-RJ08-BKT	EDGE Solutions Strain-Relief Bracket, accommodating eight EDGE solutions clip parking positions	1/1	
EDGE-CDF-RJ12-BKT	EDGE Solutions Strain-Relief Bracket, accommodating 12 EDGE solutions clip parking positions	1/1	
EDGE-CCHBKT-1	Bracket to hold one EDGE solutions module that fits into Plug & Play™ housings	1/1	
EDGE-CCHBKT-2	Bracket to hold two EDGE solutions module that fits into Plug & Play housings	1/1	

Plug & Play™ Systems

Housing Accessories

Part Number	Product Description	Units per Delivery	
EDGE-BKT-LR-2RU	Ladder Rack-Mounting Bracket for up to 2U of housing mounting space	1/1	
EDGE-BKT-LR-4RU	Ladder Rack-Mounting Bracket for up to 4U of housing mounting space	1/1	
EDGE-BKT-WT-2RU	Wire Tray Mounting Bracket for up to 2U of housing mounting space	1/1	
EDGE-BKT-WT-4RU	Wire Tray Mounting Bracket for up to 4U of housing mounting space	1/1	

Cleaning Accessories

Part Number	Product Description	Units per Delivery	
CLEANER-PORT-LC	Single-Fiber Port Cleaner for LC, keyed LC, and MU connector end faces for both UPC and APC polishes	1/1	
2104466-01	Fiber Optic Cleaning Tool used to clean MTP® connector end faces as well as MTP connectors installed in a module	1/1	

Plug & Play™ Systems

MTP® PRO Accessories

Part Number	Product Description	Units per Delivery	
MTPPRO-TOOL	Field Tool to perform pinning and polarity changes of MTP® PRO connectors	1/1	
MTPPRO-PEX-MME-NOPINS	MTP PRO Pin Exchanger Kit, MM MTP Elite, empty (without pins)	1/1	
MTPPRO-PEX-MME-PINS	MTP PRO Pin Exchanger Kit, MM MTP Elite, loaded (with pins)	1/1	
MTPPRO-PEX-SME-NOPINS	MTP PRO Pin Exchanger Kit, SM MTP Elite, empty (without pins)	1/1	
MTPPRO-PEX-SME-PINS	MTP PRO Pin Exchanger Kit, SM MTP Elite, loaded (with pins)	1/1	