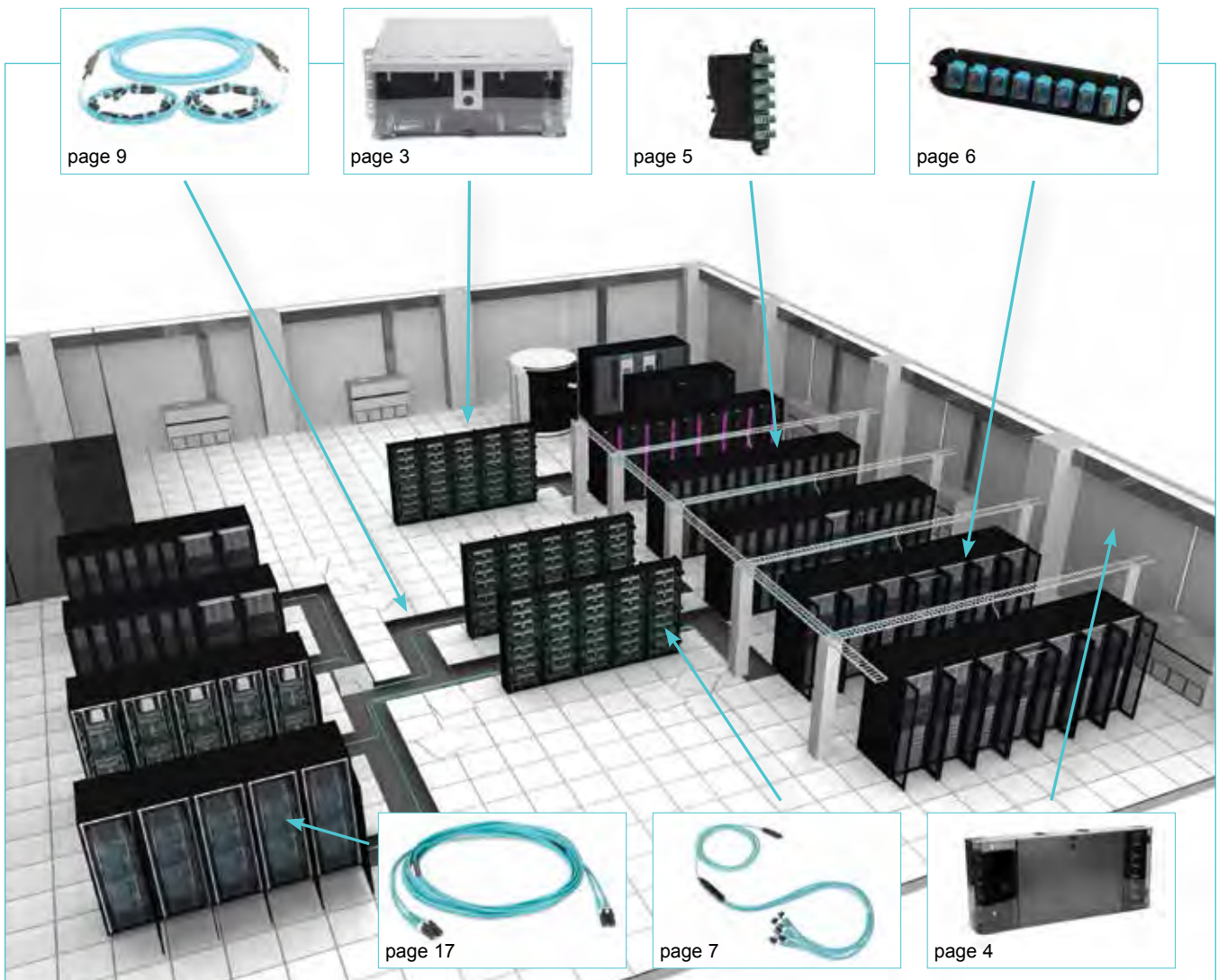


# Plug & Play™ Universal Systems

A LANscape® Pretium®  
Solutions Product

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



Plug & Play Universal Systems | Photo MM191

# Plug & Play™ Universal Systems

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## features and benefits |

<b>Universal wired modular system components</b>	Enable moves, adds and changes (MACs) without polarity concerns; provide a simple migration path between two-fiber and parallel optics applications
<b>Standard and low-loss components</b>	Provide a means of meeting increasingly stringent network
<b>Corning® ClearCurve® OM3 and OM4 fiber offers enhanced bend performance</b>	Allows tighter cable routing without negatively impacting systems performance
<b>100G-ready performance</b>	Ensures product will meet the requirements of 100G Ethernet applications
<b>Parallel optics tested to a maximum skew of 0.75 nanoseconds</b>	Ensures operation in high-data-rate Ethernet and InfiniBand applications
<b>Reduced-diameter pulling grip</b>	Enables deployment of the cables in a variety of duct/conduit sizes including MaxCell inner duct
<b>High-density trunk cables</b>	Allows for tighter trunk cable bends for slack storage and routing while maximizing space utilization in tray
<b>100 percent round furcation legs</b>	Eliminates preferential bend issues commonly associated with ribbon cables and furcation legs

## Installing the System

There is no time-consuming fiber preparation and termination as found in traditional field installations. There are no consumables or piece parts, and no tools are required other than a screwdriver for installation of hardware.

With Corning Cable Systems Plug & Play™ Universal Systems, there are only five steps required to install the optical network:

1. Pull the cable assembly
2. Mount the hardware
3. Clean the connectors
4. Plug in the connectors
5. Test the system

# Plug & Play™ Universal Systems

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## Rack-mount Pretium® Connector Housings

The rack-mount Pretium Connector Housings (PCH) are available in 1U, 2U and 4U sizes and mount in 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



**CPP-ITM-PNL**  
| Photo LAN2927



**CPP-01U-PNL**  
| Photo LAN1361



**PCH-M3-01U**  
| Photo LAN2923



**PCH-M3-ITM**  
| Photo LAN2943



**CPP-M3-01U**  
| Photo LAN1362



**PCH-02U**  
| Photo LAN2814



**PCH-04U**  
| Photo LAN2815

## specifications and ordering information |

Part Number	Rack Units (RU's)	Product Dimensions W x D x H (in)	Package Dimensions W x D x H (in)	Shipping Weight (lbs)	Maximum Fiber Density with LC Modules	Module or Panel Capacity
PCH-01U	1	17 x 16 x 1.75	24.25 x 20 x 4.75	11	48	2
CPP-ITM-PNL	1	19 x 0.35 x 1.75	19.75 x 5.75 x 2.5	0.5	48	2
CPP-01U-PNL*	1	19 x 0.4 x 1.75	19 x 5.13 x 3.5	0.5	48	2
PCH-M3-01U	1	16.8 x 12.75 x 1.75	20.13 x 17.25 x 4.75	3.85	72	3
PCH-M3-ITM	1	17 x 14.1 x 1.75	20.13 x 17.25 x 4.75	5	72	3
CPP-M3-01U*	1	19 x 0.4 x 1.75	19 x 5.13 x 3.5	0.5	72	3
PCH-02U	2	17 x 16.5 x 3.50	23 x 22 x 6	12.6	96	4
PCH-04U	4	17 x 16 x 7.00	22.13 x 19 x 11	16.5	288	12

\* Must order external strain-relief (see accessory section, page 20).

# Plug & Play™ Universal Systems

A LANscape® Pretium® Solutions Product

## Pretium® Wall-Mountable Housings

The Pretium Wall-Mountable Housings (PWH) are available in one, two, four, six and 12 panel/module configurations. Combined with the modules, panels, harnesses, trunks and jumpers, they provide a tip-to-tip solution for your fiber optic network.



**SPH-01P**  
| Photo LAN2216



**PWH-02P**  
| Photo LAN2930



**PWH-04P**  
| Photo LAN2932



**PWH-06P**  
| Photo LAN2936



**PWH-12P**  
| Photo LAN2938

## specifications and ordering information |

Part Number	Product Dimensions W x D x H (in)	Package Dimensions W x D x H (in)	Shipping Weight (lbs)	Maximum Fiber Density with LC Modules	Module or Panel Capacity
SPH-01P	6.3 x 5.5 x 2	7.75 x 6.75 x 2.13	1	24	1
PWH-02P	17.5 x 4 x 9.4	21.38 x 15.25 x 9.25	11	48	2
PWH-04P	21 x 5.3 x 14.4	27 x 23.5 x 13.5	23	96	4
PWH-06P	21 x 5.3 x 14.4	27 x 23.5 x 13.5	23	144	6
PWH-12P	32.5 x 5.3 x 14.4	38.5 x 23.5 x 13.5	24	288	12

# Plug & Play™ Universal Systems

A LANscape® Pretium® Solutions Product

## Plug & Play Universal Systems Modules

Plug & Play™ Modules provide the interface between the MTP® Connectors on the trunk and the LC or SC duplex jumpers that will then connect directly in 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.



Plug & Play Module | Photo LAN1797

## ordering information |

CCH-UM	<input type="checkbox"/>	<input type="checkbox"/>	-	<input type="checkbox"/>	<input type="checkbox"/>	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	1			2			3		4

**|1**  
Select fiber count.  
12 = 12 fibers  
24 = 24 fibers

**|2**  
Select adapters on front of module.  
**Shuttered LC Duplex**  
05 = Multimode (OM3/OM4)  
04 = Single-mode (OS2)  
18 = Single-mode (OS2, APC)  
**SC Duplex (12-fiber maximum)**  
57 = Multimode (OM3/OM4)  
72 = Single-mode (OS2)  
66 = Single-mode (OS2, APC)

**|3**  
Select PINNED MTP Connector adapter on back of module.  
70 = Standard-loss multimode (OM1/OM3/OM4)  
93 = Low-loss multimode (OM3/OM4)  
89 = Single-mode (OS2)  
*See Notes 1 and 2.*

**|4**  
Select fiber type.  
K = Multimode (OM1)  
T = Multimode (OM3)  
Q = Multimode (OM4)  
G = Single-mode (OS2)

*Notes:*  
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™ Universal Systems

A LANscape® Pretium®  
Solutions Product

## Plug & Play™ Universal 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 to facilitate the use of 40G electronics.



## ordering information |

CCH-CP   -    
|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

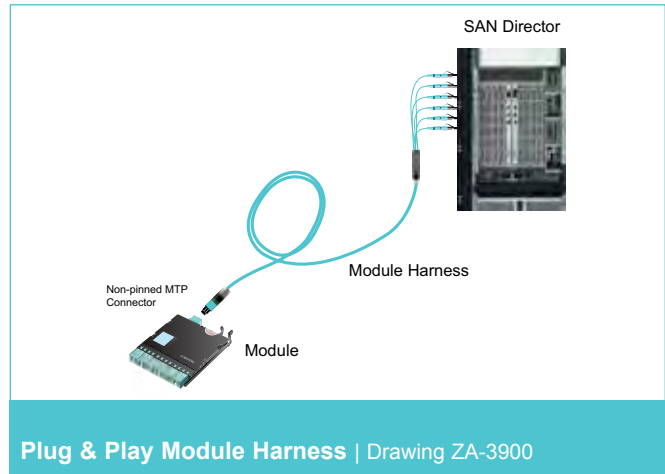
Select fiber type.  
69 = Multimode (OM1)  
E3 = Multimode (OM3/OM4)  
90 = Single-mode (OS2)

# Plug & Play™ Universal Systems

A LANscape® Pretium®  
Solutions Product

## Plug & Play™ Universal Systems Trunk Harness

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 or SC connectors to interface with the electronics and a MTP® 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 1.



Plug & Play Module Harness | Drawing ZA-3900

## ordering information |

H	□ □	□ □	12	□	E8	-	□	W	□ □ □	□
1	2	3	4	5	6					

**|1**  
Select NON-PINNED MTP Connectors.  
69 = Standard-loss multimode (OM1/OM3/OM4)  
75 = Low-loss multimode (OM3/OM4)  
90 = Single-mode (OS2)

**|2**  
Select breakout connector type.  
**LC Duplex**  
05 = Multimode (OM1/OM3/OM4)  
04 = Single-mode (OS2)  
18 = Single-mode, (OS2), APC  
**SC Duplex**  
57 = Multimode (OM1/OM3/OM4)  
72 = Single-mode OS2  
66 = Single-mode, (OS2), APC

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

**|4**  
Select leg length in inches (leg OD is 2.0 mm). (-0/+3 in)  
J = 12  
K = 24  
L = 36  
M = 48  
N = 60  
P = 72  
Q = 79  
R = 98

**|5**  
Select overall harness length (does not include leg length).

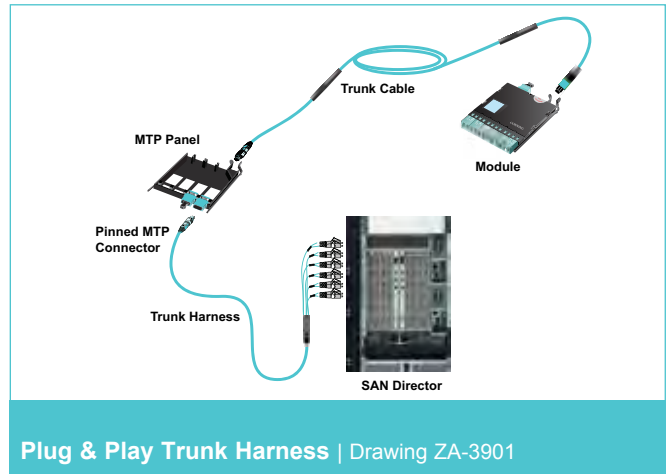
**|6**  
Select unit of measure.  
M = Meters  
F = Feet  
  
*Notes:*  
1) In order to guarantee a low-loss system, use all low-loss components.  
  
2) Low-loss available with SC duplex, LC duplex and MTP Connectors on OM3 and OM4 solutions only.

# Plug & Play™ Universal Systems

A LANscape® Pretium® Solutions Product

## Plug & Play™ Universal Systems

Pretium EDGE® Trunk Harnesses are designed to facilitate an interconnect point when the electronics are located in a separate area than the cross-connect or patching field. This interconnection is possible with Duplex LC or SC connectors to interface with the electronics and a PINNED MTP® Connector to connect into a trunk.



## ordering information |

H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12	<input type="checkbox"/>	E8	-	<input type="checkbox"/>	Z	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	1		2			3			4		5			6

**|1**  
Select PINNED MTP Connectors.  
70 = Standard-loss multimode (OM1/OM3/OM4)  
93 = Low-loss multimode (OM3/OM4)  
89 = Single-mode (OS2)

**|2**  
Select breakout connector type.  
**LC Duplex**  
05 = Multimode (OM1/OM3/OM4)  
04 = Single-mode (OS2)  
18 = Single-mode, (OS2), APC  
**SC Duplex**  
57 = Multimode (OM1/OM3/OM4)  
72 = Single-mode OS2  
66 = Single-mode, (OS2), APC

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

**|4**  
Select leg length in inches (leg OD is 2.0 mm). (-0/+3 in)  
J = 12  
K = 24  
L = 36  
M = 48  
N = 60  
P = 72  
Q = 79  
R = 98

**|5**  
Select overall harness length (does not include leg length).

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

*Notes:*  
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™ Universal Systems

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## Plug & Play™ Universal Systems MTP® Trunks

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



Plug & Play MTP Trunks | Photo LAN2727

## ordering information |

### Plug & Play™ Universal Systems MTP Trunks

□	□ □	□ □	□ □	□	□ □	□	□	U	□ □ □	□
1	2	3	4	5	6	7	8	9	10	

**| 1**  
Select grip application.  
A = Grip on first end only  
N = No grip

**| 2**  
Select NON-PINNED MTP Connectors (end one or 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 or 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  
24 = 24 fibers  
36 = 36 fibers  
48 = 48 fibers  
72 = 72 fibers  
96 = 96 fibers  
E4 = 144 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), ultra-bendable

**| 6**  
Select cable type.  
PN = Non-armored plenum  
AD = Armored plenum  
See Note 1.

**| 7**  
Select leg length on end one or outside of reel.  
A = 24 in minimum stagger (+5/-0 in)  
B = 36 in minimum stagger (+5/-0 in)  
See Notes 2 and 3.

**| 8**  
Select leg length on end two or inside of reel.  
Use options from item 7.

**| 9**  
Select cable length (measured from furcation to furcation).  
001-999

**| 10**  
Select unit of measure.  
M = Meters  
F = Feet  
  
*Notes:*  
1) Please contact Customer Care for non-standard indoor and outdoor cable offerings.

2) Furcation legs are color coded by fiber type:  
K = Orange  
T and Q = Aqua  
G = Yellow  
  
3) Furcation legs are staggered with the shortest stagger length noted as the minimum length.

4) Plug & Play Universal Systems CCH Modules contain fibers configured in the Universal Wiring Scheme and must be mated to Plug & Play Universal Systems MTP Connector trunks.

# Plug & Play™ Universal Systems

A LANscape® Pretium®  
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## Plug & Play™ Universal Systems Extender Trunks

Plug & Play Universal Systems Extender Trunks are used to distribute portions, or all, of the fibers in a Plug & Play Universal Systems 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 | Photo LAN2777

## ordering information |

### Plug & Play™ Universal Systems MTP® Extender Trunks

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	2	3	4	5	6	7	8		9		10

**|1**

Select grip application.

A = Grip on first end only  
N = No grip

**|2**

Select PINNED MTP Connector (end one or outside of reel).

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

**|3**

Select NON-PINNED MTP Connector (end two or 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  
24 = 24 fibers  
36 = 36 fibers  
48 = 48 fibers  
72 = 72 fibers  
96 = 96 fibers  
E4 = 144 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), ultra-bendable

**|6**

Select cable type.

PN = Non-armored plenum  
AD = Armored plenum  
See Note 2.

**|7**

Select leg length on end one or outside of reel.

A = 24 in minimum stagger (+5/-0 in)  
B = 36 in minimum stagger (+5/-0 in)

See Notes 3 and 4.

**|8**

Select leg length on end two or inside of reel.

Use options from item 7.

**|9**

Select cable length (measured from furcation plug to furcation plug).

001-999

**|10**

Select unit of measure.

M = Meters  
F = Feet

Notes:

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.

2) Please contact Customer Care for non-standard indoor and outdoor cable offerings.

3) Furcation legs are color coded by fiber type:

K = Orange  
T and Q = Aqua  
G = Yellow

4) Furcation legs are staggered with the shortest stagger length noted as the minimum length.

# Plug & Play™ Universal Systems

A LANscape® Pretium® Solutions Product

## Plug & Play™ Universal Systems Hybrid Connector Trunks and Hybrid Extender Trunks

Plug & Play Universal Systems Hybrid Connector Trunks are terminated with MTP® Connectors on one end of the trunk and MT-RJ or SC connectors on the other end for applications requiring one end of the trunk to connect directly into system equipment or patch panels. Both Plug & Play Universal Systems trunks and extender trunks are available in hybrid connector options.



Plug & Play Universal Systems Hybrid Connector Trunks | Photo LAN2734

### ordering information |

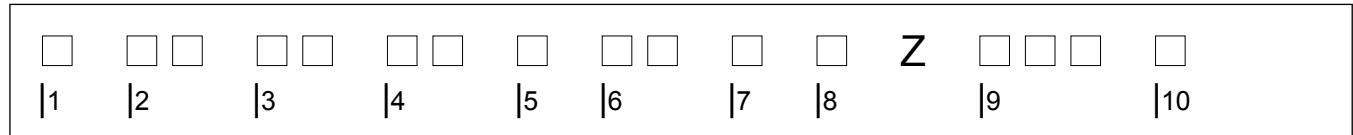
#### Plug & Play Universal Systems Hybrid Trunks

<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	W	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>
1	2	3	4	5	6	7	8		9	10

<p><b> 1</b></p> <p>Select grip application.          A = Grip on first end only          N = No grip</p>	<p><b> 4</b></p> <p>Select standard fiber count.          12 = 12 fibers          24 = 24 fibers          36 = 36 fibers          48 = 48 fibers          72 = 72 fibers          96 = 96 fibers          E4 = 144 fibers</p>	<p><b> 7</b></p> <p>Select leg length on end one or outside of reel.          A = 24 in minimum stagger (+5/-0 in)          B = 36 in minimum stagger (+5/-0 in)          See Notes 2 and 3.</p>	<p><b> 10</b></p> <p>Select unit of measure.          M = Meters          F = Feet</p> <p><i>Notes:</i>          1) Please contact Customer Care for non-standard indoor and outdoor cable offerings.          2) Furcation legs are color coded by fiber type:          K = Orange          T and Q = Aqua          G = Yellow          3) Furcation legs are staggered with the shortest stagger length noted as the minimum length.          4) Hybrid trunks with LC connectors are available as part of the Pretium EDGE® Solution, see LAN-1141-EN.</p>
<p><b> 2</b></p> <p>Select NON-PINNED MTP® Connector (end one or outside of reel).          69 = 62.5 μm multimode, (OM1)          75 = 50 μm multimode, (OM3/OM4)          90 = Single-mode, (OS2)</p>	<p><b> 5</b></p> <p>Select fiber type.          K = 62.5 μm multimode, (OM1)          T = 50 μm multimode, (OM3)          Q = 50 μm multimode, (OM4)          G = Single-mode, (OS2), ultra-bendable</p>	<p><b> 8</b></p> <p>Select leg length on end two or inside of reel.  <b>2.0 mm OD Legs</b>          K = 24 in (-0/+3 in)          L = 36 in (-0/+3 in), standard construction          M = 48 in (-0/+3 in)          N = 60 in (-0/+3 in)          P = 72 in (-0/+3 in)          See Note 2.</p>	
<p><b> 3</b></p> <p>Select the connector (end two or inside of reel).  <b>SC Duplex</b>          57 = Multimode          72 = Single-mode, UPC  <b>MT-RJ</b>          86 = Multimode          87 = Single-mode          See Note 4.</p>	<p><b> 6</b></p> <p>Select cable type.          PN = Non-armored plenum          AD = Armored plenum          See Note 1.</p>	<p><b> 9</b></p> <p>Select cable length (measured from furcation plug to furcation plug).          001-999</p>	

## ordering information |

### Plug & Play™ Universal Systems Hybrid Extender Trunks



**|1**  
Select grip application.  
A = Grip on first end only  
N = No grip

**|2**  
Select pinned MTP® Connector (end one or 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  
72 = Single-mode, UPC  
**MT-RJ**  
86 = Multimode  
87 = Single-mode  
See Note 5.

**|4**  
Select standard fiber count.  
12 = 12 fibers  
24 = 24 fibers  
36 = 36 fibers  
48 = 48 fibers  
72 = 72 fibers  
96 = 96 fibers  
E4 = 144 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), ultra-bendable

**|6**  
Select cable type.  
PN = Non-armored plenum  
AD = Armored plenum  
See Note 2.

**|7**  
Select leg length on end one or outside of reel.  
A = 24 in minimum stagger (+5/-0 in)  
B = 36 in minimum stagger (+5/-0 in)  
See Notes 3 and 4.

**|8**  
Select leg length on end two or inside of reel.  
**2.0 mm OD Legs**  
K = 24 in (-0/+3 in)  
L = 36 in (-0/+3 in), standard construction  
M = 48 in (-0/+3 in)  
N = 60 in (-0/+3 in)  
P = 72 in (-0/+3 in)  
See Note 3.

**|9**  
Select cable length (measured from furcation plug to furcation plug).  
001-999

**|10**  
Select unit of measure.  
M = Meters  
F = Feet

*Notes:*  
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.  
2) Please contact Customer Care for non-standard indoor and outdoor cable offerings.  
3) Furcation legs are color coded by fiber type:  
K = Orange  
T and Q = Aqua  
G = Yellow  
4) Furcation legs are staggered with the shortest stagger length noted as the minimum length.  
5) Hybrid extender trunks with LC connectors are available as part of the Pretium EDGE® Solution, see LAN-1141-EN.

# Plug & Play™ Universal Systems

A LANscape® Pretium®  
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## specifications |

Insertion Loss (dB)				
	OM1 62.5 μm	OM3\OM4 50 μm Standard	Low-Loss	OS2 Single-Mode Ultra-Bend
<b>Connected Mated Pairs</b>				
LC	0.25	0.25	0.15	0.5
SC	0.25	0.25	0.15	0.5
MTP® Connector	0.5	0.5	0.35	0.75
<b>Modules/Harnesses</b>				
LC	0.75	0.75	0.5	1.3
SC	0.75	0.75	0.5	1.3
<b>Integrated Trunk Module</b>				
LC	0.75	0.75	–	1.3
SC	0.75	0.75	–	1.3
<b>Skew (ns)</b>				
MTP to MTP Trunks	0.75 ns maximum at 300 m			

Trunk Specifications				
<b>Cable Ratings/Listings</b>	NFPA 262, National Electric Code (NEC), OFNP, CSA FT-6, ICEA S-83-596			
<b>Trunk Performance</b>	EIA/TIA 568 C.3 - Includes low/high temperature soak of -10/60°C, humidity testing at 90-95% at 40°C, connector durability (500 matings) and connector pull testing.			
<b>Pulling Grip Performance</b>	12-fiber trunks can be pulled up to 100 lbs using the pulling grip while 24- to 144-fiber trunks can be pulled up to 300 lbs using the pulling grip			
Transmission Performance				
	OM1 62.5 μm	OM3 50 μm	OM4 50 μm	OS2 Single-Mode Ultra-Bend
<b>Fiber Code</b>	K	T	Q	G
<b>Wavelength (nm)</b>	850/1300	850/1300	850/1300	1310/1550
<b>Maximum Attenuation (dB/km)</b>	3.4/1.0	2.8/1.0	2.8/1.0	0.4/0.3
<b>Minimum Effective Modal Bandwidth (MHz•km)</b>	220/ –	2000/ –	4700/ –	– / –

## specifications | (continued)

Non-Armored Cable Specifications					
Fiber Count	Cable Outer Diameter (in)	Pulling Grip Outer Diameter (in)	Cable Weight (lbs/1000 ft)	Minimum Bend Radius	
				Loaded	Installed
12	0.22	0.7	14	3.3	1.1
24	0.30	1.03	25	4.6	1.5
36	0.31	1.03	29	4.7	1.6
48	0.33	1.03	33	5.0	1.7
72	0.41	1.03	64	6.2	2.1
96	0.47	1.03	71	7.0	2.3
144	0.49	1.03	85	7.4	2.5

Armored Cable Specifications					
Fiber Count	Cable Outer Diameter (in)	Pulling Grip Outer Diameter (in)	Cable Weight (lbs/1000 ft)	Minimum Bend Radius	
				Loaded	Installed
12	0.68	2.0	519	10.2	6.8
24	0.68	2.0	521	10.2	6.8
36	0.68	2.0	524	10.2	6.8
48	0.68	2.0	524	10.2	6.8
72	0.78	2.5	677	11.8	7.8
96	0.91	2.5	952	13.7	9.1
144	0.96	2.5	1036	14.5	9.7

## shipping information |

Non-Armored Trunks, Extender Trunks and Hybrid Trunks						
Packaging Method	Box E	Reel 1	Reel 2	Reel 3	Reel W	Reel Z
<b>Packaging Material</b>	Corrugated Box	Plastic Reel	Plastic Reel	Plastic Reel	Plywood Reel	Plywood Reel
<b>Reel Diameter (in)</b>	–	24	24	24	36	41
<b>Reel Width (in)</b>	–	5	12	18	32	32
<b>Box Dimensions (in) L x W x H</b>	21 x 21 x 3.3	26 x 25.5 x 7	26 x 25.5 x 14	26 x 25.5 x 20	–	–
Fiber Count	Capacities (ft)					
12	10-29	30-1177	1178-2500	–	–	–
24	10-29	30-600	601-1442	1443-2163	2164-2500	–
36	10-29	30-556	557-1336	1337-2004	2005-2500	–
48	10-29	30-493	494-1183	1184-1775	1776-2500	–
72	10-29	30-323	324-775	776-1163	1164-2106	2107-2500
96	10-29	30-251	252-603	604-905	906-1639	1640-2500
144	10-29	30-228	229-547	548-820	821-1486	1487-2500

# Plug & Play™ Universal Systems

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## shipping information | (continued)

Armored Trunks, Extender Trunks and Hybrid Trunks								
Packaging Method	Reel 1	Reel 2	Reel 3	Reel N	Reel Q	Reel T	Reel Z	Reel 4
<b>Packaging Material</b>	Plastic Reel	Plastic Reel	Plastic Reel	Corrugated Reel	Plywood Reel	Plywood Reel	Plywood Reel	Plywood Reel
<b>Reel Diameter (in)</b>	24	24	24	30	27	30	41	48
<b>Reel Width (in)</b>	5	12	18	7	36	16	32	36
<b>Box Dimensions (in) L x W x H</b>	26 x 25.5 x 7	26 x 25.5 x 14	26 x 25.5 x 20	31 x 31.5 x 32	–	–	–	–
<b>Fiber Count</b>	Capacities (ft)							
12	10-149	150-358	359-537	538-636	637-723	724-1443	1444-2500	–
24	10-62	63-150	151-225	226-266	267-303	304-605	606-1629	1630-2500
36	10-62	63-150	151-225	226-266	267-303	304-605	606-1629	1630-2500
48	10-62	63-150	151-225	226-266	267-303	304-605	606-1629	1630-2500
72	10-47	48-113	114-170	171-201	202-229	230-457	458-1231	1232-2500
96	10-34	35-83	84-125	126-148	149-168	169-336	337-906	907-2319
144	10-31	32-74	75-112	113-132	133-151	152-301	302-812	813-2080

# Plug & Play™ Universal Systems

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## Plug & Play™ Universal Systems Jumpers

Corning Cable Systems offers the most complete line of connectors and factory-terminated cables, including low-loss jumpers to meet or exceed all industry standards for reflectance and insertion loss.

Corning Cable Systems' advanced, state-of-the-art manufacturing process ensures unsurpassed connector performance. Fibers and ferrules are thoroughly screened at the beginning of every process, assembled and polished in a carefully monitored and controlled process and tested to ensure the same outstanding quality in every connector.



## ordering information |

### Plug & Play Universal Systems 2-fiber, 2.0 mm Zipcord Jumpers

□	□ □	□ □	02	□	5120	□ □ □	□
1	2	3		4		5	6

**|1**  
Select performance.  
E = Low-loss  
C = Standard loss  
= Leave blank for OM1 and OS2  
*See Note 1.*

**|2**  
Select connector type for end one.  
05 = LC duplex, OM1/OM3/OM4  
57 = SC duplex, OM1/OM3/OM4  
04 = LC duplex UPC, OS2  
22 = LC duplex APC, OS2  
72 = SC duplex UPC, OS2  
44 = SC simplex APC, OS2

**|3**  
Select connector type for end two.  
Use options from item 2.

**|4**  
Select fiber type.  
K = 62.5 μm multimode, (OM1)  
T = 50 μm multimode, (OM3)  
Q = 50 μm multimode, (OM4)  
G = Single-mode, (OS2), ultra-bendable

**|5**  
Select cable length.  
001-999

**|6**  
Select unit of measure.  
M = Meters  
F = Feet  
*Notes:*  
1) In order to guarantee a low-loss system, use all low-loss components

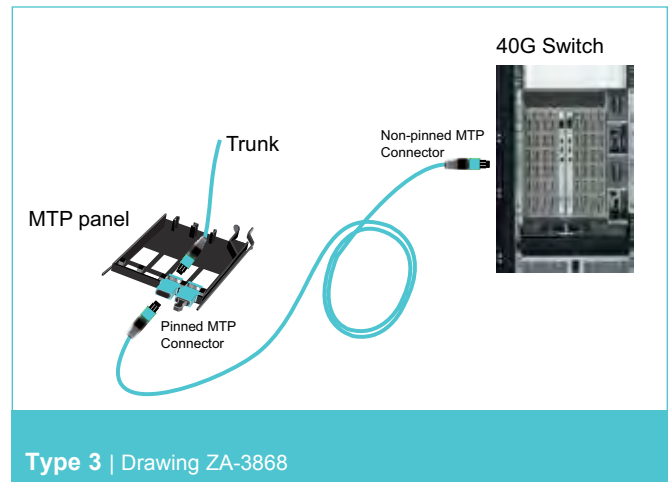
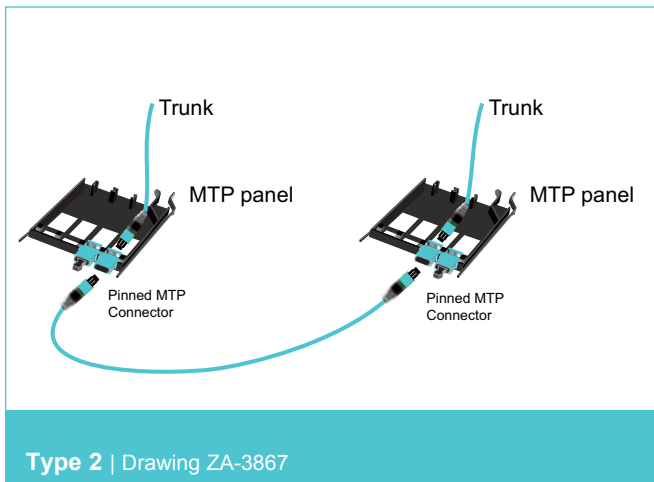


# Plug & Play™ Universal Systems

A LANscape® Pretium® Solutions Product

## MTP® Jumpers

Pretium EDGE® MTP Jumpers allow for the seamless migration to higher data rates for multimode systems in the data center when used in conjunction with our universal trunks. This jumper is based around pinned or non-pinned 12-fiber MTP Connectors. Pictured here are the three most common applications for this type of jumper to make ordering easier. All the jumpers listed have a TIA-568 Type-B polarity and are plenum rated.



## ordering information |

J	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12	<input type="checkbox"/>	Z8	-	NB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	1		2		3					4			5

**|1**  
 Select first MTP Connector.  
 75 = OM3/OM4, non-pinned  
 93 = OM3/OM4, pinned  
 90 = Non-pinned OS2  
 89 = Pinned OS2

**|2**  
 Select second MTP Connector.  
 75 = OM3/OM4, non-pinned  
 93 = OM3/OM4, pinned  
 89 = OS2, non-pinned  
 90 = OS2, pinned  
 See Note 1.

**|3**  
 Select fiber type.  
 T = OM3  
 Q = OM4  
 G = OS2

**|4**  
 Select length.  
 001-999

**|5**  
 Select unit of measure.  
 M = Meters  
 F = Feet

*Notes:*  
 1) Always list lowest connector code first.  
 2) Other polarities are available.

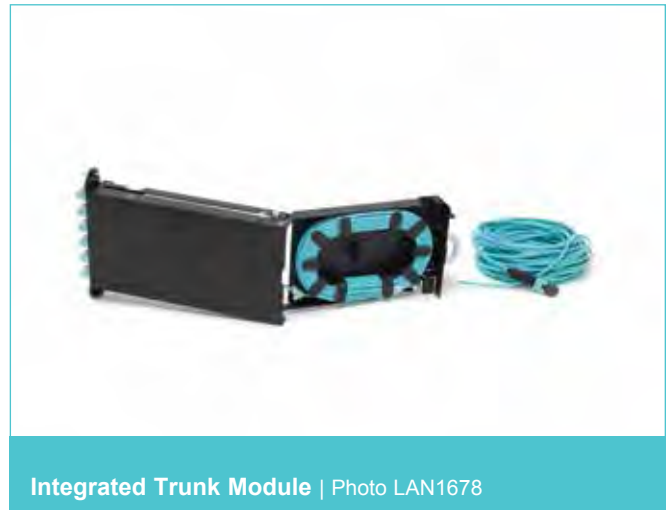
# Plug & Play™ Universal Systems

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## Plug & Play™ Universal Systems Integrated trunk modules

Plug & Play Integrated Trunk Modules (ITMs) combine the features of the Plug & Play modules and a 12-fiber trunk 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 in ZDAs, from the ZDA to equipment cabinet(s). They are compatible with the following housings (see page 3: PCH-M3-ITM, CPP-ITM-PNL and PCH-04U).



Integrated Trunk Module | Photo LAN1678

## ordering information |

### Plug & Play Universal Systems Integrated Trunk Modules

ITMU	-	12	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	F
				1	2	3	4					

**|1**  
Select adapters on module front.  
**Shuttered LC Duplex**  
05 = Multimode  
04 = Single-mode  
**SC Duplex**  
57 = Multimode  
72 = Single-mode

**|2**  
Select MTP Connector.  
70 = Multimode, pinned  
69 = Multimode, non-pinned  
89 = Single-mode, pinned  
90 = Single-mode, non-pinned

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

**|4**  
Select length in feet.  
See Note 1.  
*Note:*  
1) All ITMs have 40 ft of trunk cable stored inside the ITM, and the remaining cable is stored outside of the ITM.

# Plug & Play™ Universal Systems

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## ordering information |

### Accessories

Part Number	Description	
<b>Housing Accessories</b>		
<b>EDGE-CCH-BKT-1</b>	Bracket to hold one Pretium EDGE® Solutions Module that fits into Plug & Play™ housings	
<b>EDGE-CCH-BKT-2</b>	Bracket to hold two Pretium EDGE Solutions Modules that fit into Plug & Play housings	
<b>RBC-02P</b>	Frame-mountable Bracket that holds up to two Plug & Play™ modules or panels	
<b>PC1-BKT-23</b>	Bracket for mounting 1U Plug & Play housings into 23-inch racks	
<b>PC2-BKT-23</b>	Bracket for mounting 2U Plug & Play housings into 23-inch racks	
<b>PC4-BKT-23</b>	Bracket for mounting 4U Plug & Play housings into 23-inch racks	
<b>PC1-BKT-FLSH</b>	Flush-mount Brackets for the PCH-01U	
<b>PC2-BKT-FLSH</b>	Flush-mount Brackets for the PCH-02U	
<b>PC4-BKT-FLSH</b>	Flush-mount Brackets for the PCH-04U	
<b>PC1-LOCK-KIT</b>	Door Lock Kit that can be installed on the front or back door of the PCH-01U. Comes with one lock and two keys.	
<b>HDWR-LOCK-KIT</b>	Door Lock Kit that can be installed on the front or back door of the PCH-02U and PCH-04U. Comes with one lock and two keys.	
<b>CJP-01U-P</b>	1U Jumper Management Panel	
<b>CJP-02U-P</b>	2U Jumper Management Panel	








## ordering information | (continued)

### Accessories

Part Number	Description	
<b>Housing Accessories</b>		
<b>PC1-RJ-STR</b>	External Strain-relief Brackets for the PCH-01U. Holds three U-clip style strain-relief clips each (pack of two)	
<b>PC2-STRN</b>	External Strain-relief Brackets for the PCH-02U. Holds four U-clip style strain-relief clips	
<b>PC4-RJ-STRN</b>	External Strain-relief Brackets for the PCH-04U. Holds three U-clip style strain-relief clips each (pack of two)	
<b>PC4-RJ-PLT</b>	Internal Strain-relief Bracket for the PCH-04U. Holds 12 U-clip style strain-relief clips	
<b>PWH-RJSR</b>	External Strain-relief Brackets for the PWH series. Holds three U-clip style strain-relief clips each (pack of two)	
<b>CDF-RJ-BKT</b>	Rack-mounted Strain-relief Brackets that holds one U-clip style strain-relief clip each (pack of two)	
<b>CDF-RJ06-BKT</b>	Rack-mounted Strain-relief Bracket that holds six U-clip style strain-relief clips	
<b>CDF-RJ07-BKT</b>	Rack-mounted Strain-relief Bracket that holds seven U-clip style strain-relief clips	
<b>CDF-RJ12-BKT</b>	Rack-mounted Strain-relief Bracket that holds 12 U-clip style strain-relief clips	

## ordering information | (continued)

### Accessories

Part Number	Description	
<b>Housing Accessories</b>		
<b>CDF-RJ18-BKT</b>	Rack-mounted Strain-relief Bracket that holds 18 U-clip style strain-relief clips	
<b>EDGE-BKT-WT-2RU</b>	19-inch Bracket that attaches to a wire tray that holds 2U worth of housings	
<b>EDGE-BKT-WT-4RU</b>	19-inch Bracket that attaches to a wire tray that holds 4U worth of housings	
<b>EDGE-BKT-LR-2RU</b>	19-inch Bracket that attaches to a ladder that holds 2U worth of housings	
<b>EDGE-BKT-LR-4RU</b>	19-inch Bracket that attaches to a ladder that holds 4U worth of housings	
<b>Cleaning Accessories</b>		
<b>CLEANER-PORT-LC</b>	LC Connector and Port Cleaning Tool	
<b>2104466-01</b>	MTP® Connector and Port Cleaning Tool	

# Plug & Play™ Universal Systems

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notes |

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notes |

PRETERMINATED SYSTEMS | CABLES | CONNECTORS | CABLE ASSEMBLIES | HARDWARE | SPLICE CLOSURES | TEST EQUIPMENT | SPLICE EQUIPMENT | TRAINING |

# Plug & Play™ Universal Systems

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notes |

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