Plug & Play™ Universal Systems

A LANscape® Pretium™ Solutions Product

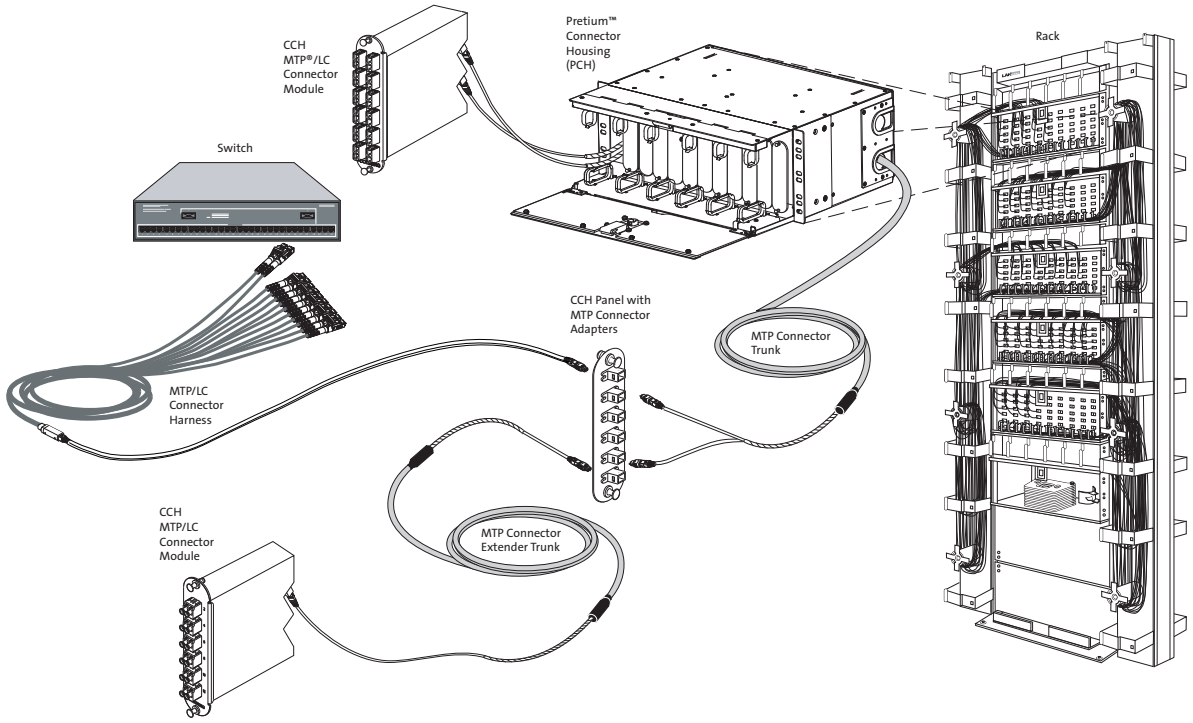
Applications

- Data center LAN/SAN
- Enterprise building backbone
- Fiber-to-the-desk

Description

Corning Cable Systems Plug & Play™ Universal Systems are preterminated optical fiber cabling systems designed to dramatically streamline the process of deploying an optical network. This value-add system significantly reduces installation time and cost through the use of modular, preterminated components that can be configured, installed, connected and operational in a fraction of the time needed to install a comparable system using conventional, field-terminated methods reducing installation time and cost.

The system's polarity-maintaining modular components guarantee compatibility, flexibility and excellent system performance for all optical configurations no matter how the system is configured. These universal wired modular components make network moves, adds and changes simple, fast and easy to complete with minimal disruption, providing additional time and labor savings.



Plug & Play Universal Systems Components | Drawing ZA-2845

CORNING
LANscape®
Pretium™ Solutions

100G READY

Product Specifications

Features / Benefits

- Universal wiring provides a simple migration path between 2-fiber and parallel applications
- Universal wiring and the use of modular components enables fast and simple networking moves, adds and changes without concerns associated with special polarity-compensating components
- Factory-terminated solutions provide improved system performance, ensure component compatibility and yield consistent quality
- MIC® 250 Cable, available for 12- and 24-fiber applications, provides more room for trunk cables and easier routing in patch panels without preferential bend concerns
- High-density ribbon cable, available for 36- to 144-fiber applications, provides space savings and convenient fiber deployment
- Solutions available as low-loss, permitting system links to meet strict budget demands
- Integrated trunk module, a 12-fiber module with an integrated trunk, speeds deployment of a trunk built to an exact length so precise pre-planning is not required
- Trunks and extender trunks available with a pulling grip on one or both ends of the assembly to ease and speed deployment while protecting the connectorized ends of the assembly
- U-clip, a hardware integration component, makes the attachment and strain-relief of trunk cable to hardware easy and convenient without the use of any tools
- Deployment of 100G Ready system today will support migration path to 100G Ethernet in the future

What is Polarity?

Polarity is maintaining proper transmitter-to-receiver continuity throughout the system so when end-equipment patch cords are installed, transmit goes to receive.

Installing the System

Preterminated trunk cabling systems constructed with a factory-installed protective pulling grip are routed through the cabling pathways and spaces. Once deployed, the pulling grip is removed and the exposed connectors on both ends are plugged into patch panels or system equipment. High-density MTP® Connector-based trunk systems plug into break-out modules or harnesses for a simple, fast, modular solution with easy scalability. Modules and harnesses conveniently load into LANscape® Pretium Solutions hardware, and correct fiber polarity is guaranteed throughout the systems' link.

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

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

There is no time-consuming fiber preparation and termination. There are no consumables or piece parts and no tools are needed other than a screwdriver. All cable assemblies are custom-built to each customer's design specifications.

Specifications

Insertion Loss (dB)

	Single-Mode	62.5 µm	50 µm	Pretium™ 300 Solutions		Pretium 550 Solutions	
	Standard Performance	Standard Performance	Standard Performance	Standard Performance	Low-loss Performance	Standard Performance	Low-loss Performance
Connected Mated Pairs							
LC	0.5	0.25	0.25	0.25	0.15	0.25	0.15
SC	0.5	0.25	0.25	0.25	0.15	0.25	0.15
ST® Compatible	0.5	0.25	0.25	0.25	-	0.25	-
MT-RJ	0.5	0.25	0.25	0.25	-	0.25	-
MTP Connector	0.75	0.5	0.5	0.5	0.35	0.5	0.35
Modules/Harnesses							
LC	1.3	0.75	0.75	0.75	0.5	0.75	0.5
SC	1.3	0.75	0.75	0.75	0.5	0.75	0.5
ST Compatible	1.3	0.75	0.75	0.75	-	0.75	-
MT-RJ	1.3	0.75	0.75	0.75	-	0.75	-
ITM							
LC	1.3	0.75	0.75	0.75	-	0.75	-
SC	1.3	0.75	0.75	0.75	-	0.75	-

Notes: MTP Connector mated pair insertion loss specifications apply to MTP to MTP Connector trunk and extender trunk matings.

LC, SC, ST and MT-RJ mated pair insertion loss specifications apply to harness and patch cord matings.

Plug & Play™ Universal Systems Trunks

The MTP® Connector is 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. Plug & Play Universal Systems trunks utilizing MTP Connectors support 12 to 144 fibers.

For high-fiber-count trunks, the high-density MTP Connector allows the use of a compact, 12-fiber ribbon-based cable instead of a bulkier, simplex-style cable or several low-fiber-count cables. Up to 45 percent space savings and three times the fiber tray capacity can be achieved over traditional bulkier cabling solutions while minimizing cable tray weight and cooling air impediment.

Enhanced trunk furcation plugs and pulling grips make the preterminated trunks easier and quicker to install than other preterminated fiber optic solutions. The pulling grip has a small-form-factor design allowing for installations through small conduits and pathways. The pulling grip incorporates a quick-entry zippered system to access the inner protective sleeve assembly. The inner sleeve design offers unsurpassed connector protection and fast, intuitive access of the preterminated assembly for rapid network deployments.

The trunk cable furcation plug allows easy integration into Corning Cable Systems hardware. Optional brackets are available for mounting the trunk furcation plug into racks and cabinets.

Plug & Play™ Universal Systems

A LANscape® Pretium™ Solutions Product

Ordering Information

Plug & Play™ Universal Systems MTP® Connector Trunks

Grip Application	End One Connector	End Two Connector	Fiber Count	Fiber Type	Cable Type	End One Furcation	End Two Furcation	Trunk Type	Cable Length	Unit of Measure
☐	☐☐	☐☐	☐☐	☐	☐☐	☐	☐	U	☐☐☐	☐
1	2	3	4	5	6	7	8	9	10	11

1 Select grip application.

A = Grip on first end only
B = Grip on both ends
N = No grip

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

Single-mode MTP Connectors
90 = MTP Connector (non-pinned)

Multimode MTP Connectors
69 = MTP Connector (non-pinned), standard performance
75 = MTP Connector (non-pinned), low-loss performance

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

Single-mode MTP Connectors
90 = MTP Connector (non-pinned)

Multimode MTP Connectors
69 = MTP Connector (non-pinned), standard performance
75 = MTP Connector (non-pinned), low-loss performance

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 = Multimode 62.5/125 µm
C = Multimode 50/125 µm
S = Pretium™ 300 Solutions
Y = Pretium 550 Solutions
R = Single-mode

6 Select cable type.

12 and 24 Fibers
D8 = MIC® 250 Plenum Distribution Cable
AD = MIC 250 Armored Plenum Distribution

36, 48, 72, 96 and 144 Fibers
C8 = Ribbon plenum
CA = Armored ribbon plenum

Note: Please contact Customer Service for non-standard indoor and outdoor cable offerings.

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

A = 24 in (-0/+5 in), standard construction
B = 36 in (-0/+5 in)

Note: Furcation legs are color-coded by fiber type:
K & C = Orange
S & Y = Aqua
R = Yellow

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

A = 24 in (-0/+5 in), standard construction
B = 36 in (-0/+5 in)

Note: Furcation legs are color-coded by fiber type:
K & C = Orange
S & Y = Aqua
R = Yellow

9 Defines trunk type.

U = Universal MTP Connector to MTP Connector trunk

10 Select cable length (lengths are measured from furcation plug to furcation plug).

001-999

11 Select unit of measure.

F = Feet
M = Meters

Notes: Corning Cable Systems Plug & Play Universal Low-Loss Systems consist of low-loss modules, low-loss trunks and extender trunks, low-loss harnesses and low-loss jumpers. In order to guarantee a low-loss system, all components must be from the Plug & Play Universal Low-Loss Systems family.

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 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 to zone distribution area. Smaller-fiber-count extender trunks can then be utilized to distribute fiber into cabinets. Extender trunks are manufactured with pinned MTP® Connectors on one end of the cable trunk and non-pinned MTP Connectors on the other end. The pinned MTP Connectors mate with the non-pinned connectors of the Plug & Play Universal Systems trunk and the non-pinned MTP Connectors are plugged into the Plug & Play Universal Systems module or Plug & Play Universal Systems harness.

Plug & Play Universal Systems Extender Trunk | Photo LAN798

Ordering Information

Plug & Play™ Universal Systems MTP® Connector Extender Trunks

Grip Selection	End One Connector	End Two Connector	Fiber Count	Fiber Type	Cable Type	End One Furcation	End Two Furcation	Trunk Type	Cable Length	Unit of Measure
☐	☐☐	☐☐	☐☐	☐	☐☐	☐	☐	X	☐☐☐	☐
1	2	3	4	5	6	7	8	9	10	11

1 Select grip application.

A = Grip on first end only
B = Grip on both ends
N = No grip

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

Single-mode MTP Connectors

89 = MTP Connector (pinned)

Multimode MTP Connectors

70 = MTP Connector (pinned), standard performance
93 = MTP Connector (pinned), low-loss performance

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

Single-mode MTP Connectors

90 = MTP Connector (non-pinned)

Multimode MTP Connectors

69 = MTP Connector (non-pinned) standard performance
75 = MTP Connector (non-pinned) low-loss performance

Note: Extender trunks have pinned MTP Connectors on one end and non-pinned MTP Connectors on the other end. Alignment of the MTP Connector 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.

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 = Multimode 62.5/125 µm
C = Multimode 50/125 µm
S = Pretium™ 300 Solutions
Y = Pretium 550 Solutions
R = Single-mode

6 Select cable type.

12 and 24 Fibers

D8 = MIC® 250 Plenum Distribution Cable
AD = MIC 250 Armored Plenum Distribution

36, 48, 72, 96 and 144 Fibers

C8 = Ribbon plenum
CA = Armored ribbon plenum

Note: Please contact Customer Service for non-standard indoor and outdoor cable offerings.

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

A = 24 in (-0/+5 in), standard construction
B = 36 in (-0/+5 in)

Note: Furcation legs are color-coded by fiber type:
K & C = Orange
S & Y = Aqua
R = Yellow

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

A = 24 in (-0/+5 in), standard construction
B = 36 in (-0/+5 in)

Note: Furcation legs are color-coded by fiber type:
K & C = Orange
S & Y = Aqua
R = Yellow

9 Defines trunk type.

X = Universal extender MTP Connector to MTP Connector trunk

10 Select cable length (lengths are measured from furcation plug to furcation plug).

001-999

11 Select unit of measure.

F = Feet
M = Meters

Note: Corning Cable Systems Plug & Play Universal Low-Loss Systems consist of low-loss modules, low-loss trunks and extender trunks, low-loss harnesses and low-loss jumpers. In order to guarantee a low-loss system, all components must be from the Plug & Play Universal Low-Loss Systems family.

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

Universal hybrid connector trunks are terminated with MTP® Connectors on one end of the trunk and LC 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 Trunk | Photo LAN801

Ordering Information

Plug & Play™ Universal Systems Hybrid Trunks

Grip Selection	End One Connector	End Two Connector	Fiber Count	Fiber Type	Cable Type	End One Furcation	End Two Furcation	Trunk Type	Cable Length	Unit of Measure
☐	☐☐	☐☐	☐☐	☐	☐☐	☐	☐	W	☐☐☐	☐
1	2	3	4	5	6	7	8	9	10	11

1 Select grip application.

A = Grip on first end only
B = Grip on both ends
N = No grip

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

Single-mode MTP Connectors

90 = MTP Connector (non-pinned)

Multimode MTP Connectors

69 = MTP Connector (non-pinned), standard performance
75 = MTP Connector (non-pinned), low-loss performance

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

ST® Compatible

50 = ST Compatible, multimode
61 = ST Compatible UPC, single-mode

SC Duplex

57 = SC duplex, multimode
72 = SC UPC duplex, single-mode

SC Simplex

65 = SC APC simplex, single-mode

LC Duplex

05 = LC duplex, multimode
04 = LC UPC duplex, single-mode

LC Simplex

10 = LC APC simplex, single-mode

MT-RJ

86 = MT-RJ (pinned), multimode
87 = MT-RJ (pinned), single-mode

Note: Low-loss available with LC and SC duplex only.

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 = Multimode 62.5/125 µm
C = Multimode 50/125 µm
S = Pretium™ 300 Solutions
Y = Pretium 550 Solutions
R = Single-mode

6 Select cable type.

12 and 24 Fibers

D8 = MIC® 250 Plenum Distribution Cable
AD = MIC 250 Plenum Armored Distribution

36, 48, 72, 96 and 144 Fibers

C8 = Ribbon plenum
CA = Armored ribbon plenum

Note: Please contact Customer Service for non-standard indoor and outdoor cable offerings.

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

A = 24 in (-0/+5 in), standard construction
B = 36 in (-0/+5 in)

Note: Furcation legs are color-coded by fiber type:
K & C = Orange
S & Y = Aqua
R = Yellow

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

900 µm O.D. Legs

F = 24 in (-0/+3 in)
G = 36 in (-0/+3 in), standard construction
H = 48 in (-0/+3 in)
S = 60 in (-0/+3 in)
T = 72 in (-0/+3 in)
V = 79 in (-0/+3 in)
Y = 98 in (-0/+3 in)

2.0 mm O.D. 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)
Q = 79 in (-0/+3 in)
R = 98 in (-0/+3 in)

Note: Furcation legs are color-coded by fiber type:
K & C = Orange
S & Y = Aqua
R = Yellow

9 Defines trunk type.

W = Universal hybrid connector base trunk

10 Select cable length (lengths are measured from furcation plug to furcation plug).

001-999

11 Select unit of measure.

F = Feet
M = Meters

Note: Corning Cable Systems Plug & Play Universal Low-Loss Systems consist of low-loss modules, low-loss trunks and extender trunks, low-loss harnesses and low-loss jumpers. In order to guarantee a low-loss system, all components must be from the Plug & Play Universal Low-Loss Systems family.

Ordering Information

Plug & Play™ Universal Systems Hybrid Extender Trunks

Grip Selection	End One Connector	End Two Connector	Fiber Count	Fiber Type	Cable Type	End One Furcation	End Two Furcation	Trunk Type	Cable Length	Unit of Measure
☐	☐☐	☐☐	☐☐	☐	☐☐	☐	☐	Z	☐☐☐	☐
1	2	3	4	5	6	7	8	9	10	11

1 Select grip application.

A = Grip on first end only
B = Grip on both ends
N = No grip

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

Single-mode MTP Connectors

89 = MTP Connector (pinned)

Multimode MTP Connectors

70 = MTP Connector (pinned), standard performance
93 = MTP Connector (pinned), low-loss performance

Note: Hybrid universal extender trunks have pinned MTP Connectorson 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.

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

ST® Compatible

50 = ST Compatible, multimode
61 = ST Compatible UPC, single-mode

SC Duplex

57 = SC duplex, multimode
72 = SC UPC duplex, single-mode

SC Simplex

65 = SC APC simplex, single-mode

LC Duplex

05 = LC duplex, multimode
04 = LC UPC duplex, single-mode

LC Simplex

10 = LC APC simplex, single-mode

MT-RJ

86 = MT-RJ (pinned), multimode
87 = MT-RJ (pinned), single-mode

Note: Low-loss available with LC and SC duplex only.

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 = Multimode 62.5/125 µm
C = Multimode 50/125 µm
S = Pretium™ 300 Solutions
Y = Pretium 550 Solutions
R = Single-mode

6 Select cable type.

12 and 24 Fibers

D8 = MIC® 250 Plenum Distribution Cable
AD = MIC 250 Plenum Armored Distribution

36, 48, 72, 96 and 144 Fibers

C8 = Ribbon plenum
CA = Armored ribbon plenum

Note: Please contact Customer Service for non-standard indoor and outdoor cable offerings.

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

A = 24 in (-0/+5 in), standard construction
B = 36 in (-0/+5 in)

Note: Furcation legs are color-coded by fiber type:
K & C = Orange
S & Y = Aqua
R = Yellow

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

900 µm O.D. Legs

F = 24 in (-0/+3 in)
G = 36 in (-0/+3 in), standard construction
H = 48 in (-0/+3 in)
S = 60 in (-0/+3 in)
T = 72 in (-0/+3 in)
V = 79 in (-0/+3 in)
Y = 98 in (-0/+3 in)

2.0 mm O.D. 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)
Q = 79 in (-0/+3 in)
R = 98 in (-0/+3 in)

Note: Furcation legs are color-coded by fiber type:
K & C = Orange
S & Y = Aqua
R = Yellow

9 Defines trunk type.

Z = Universal hybrid connector extender trunk

10 Select cable length (lengths are measured from furcation plug to furcation plug).

001-999

11 Select unit of measure.

F = Feet
M = Meters

Note: Corning Cable Systems Plug & Play Universal Low-Loss Systems consist of low-loss modules, low-loss trunks and extender trunks, low-loss harnesses and low-loss jumpers. In order to guarantee a low-loss system, all components must be from the Plug & Play Universal Low-Loss Systems family.

Plug & Play™ Universal Systems Closet Connector Housing (CCH) Modules

Corning Cable Systems Plug & Play™ Universal Systems CCH modules are used to break out the 12-fiber MTP® Connectors terminated on trunk cables into simplex or duplex-style connectors. Simplex and duplex-style patch cords can then be used to patch into system equipment ports, patch panels, or client outlets. The module features simplex or duplex port adapters across the front and one or two MTP Connector adapters across the back. A factory-terminated and tested optical fiber assembly inside the module connects the front adapters to the back MTP Connector adapter(s).

The modules fit into Corning Cable Systems LANscape® Pretium™ Solutions hardware and are available with 12-fiber configurations for ST® Compatible, LC or SC duplex Connectors and 24-fiber configurations for LC duplex connectors. The modules' reduced-depth footprint provides added room for routing cables into the back of hardware and also provides a solution for shallow, raised-floor boxes.

Using modules provides adaptability for the changing data center environment, which requires technology evolution every 12 to 18 months. The use of Plug & Play Universal Systems CCH modules in the data center offers the advantage of greater manageability. They can easily be swapped with new CCH modules when future connector requirements change, leaving the existing trunk cable structure in place.

Plug & Play Universal Systems Module | Photo LAN804

Ordering Information

Plug & Play™ Universal Systems Closet Connector Housing Modules

CCH modules are not compatible with HDH hardware.

	Fiber Count		Front Adapters		Back Adapter(s)	Fiber Type
CCH - UM	☐☐	-	☐☐	-	☐☐	☐
	1		2		3	4

1 Select fiber count.

12 = 12 fibers
24 = 24 fibers

2 Select adapters on module front.

ST® Compatible (12-fiber max)

50 = ST Compatible, multimode
61 = ST Compatible UPC, single-mode

SC Duplex (12-fiber max)

57 = SC duplex, multimode
72 = SC UPC duplex, single-mode
66 = SC APC duplex, single-mode

LC Duplex

05 = LC duplex, multimode
04 = LC duplex, single-mode
18 = LC APC duplex, single-mode

MT-RJ

86 = MT-RJ (pinned), multimode
87 = MT-RJ (pinned), single-mode

3 Select MTP® Connector adapter on module back.

70 = MTP Connector (pinned), standard performance multimode
93 = MTP Connector (pinned), low-loss performance multimode
89 = MTP Connector (pinned), single-mode

4 Select fiber type.

K = Multimode 62.5/125 µm
C = Multimode 50/125 µm
S = Pretium 300 Solutions
Y = Pretium 550 Solutions
R = Single-mode

Notes: Corning Cable Systems Plug & Play Universal Low-Loss Systems consist of low-loss modules, low-loss trunks and extender trunks, low-loss harnesses and low-loss jumpers. In order to guarantee a low-loss system, all components must be from the Plug & Play Universal Low-Loss Systems family.

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 Harness Assembly

Plug & Play™ Universal Systems harness assemblies are used to break out the 12-fiber MTP® Connectors terminated on trunk cables into duplex-style connectors. Plug & Play Universal Systems harness assemblies have a pinned MTP Connector on one end that connects to a Plug & Play Universal Systems trunk. The other end is equipped with simplex or duplex-style connectors and is designed to accommodate many ranges of leg length requirements to ease fiber routing.

Corning Cable Systems Plug & Play Universal Systems harness assemblies are targeted for data center and high-fiber-count telecommunications systems where there is no room to mount interconnect hardware into racks or cabinets, or pathway space is limited. The 2.0 mm legs for single-fiber connectors provide a more rugged solution than products with 900 µm legs. Used with the Plug & Play Universal Systems trunks or extender trunks, they provide quick installation in applications where up-jacketed legs are needed for direct installation into electronic equipment. They provide a routing solution that is less dense than traditional jumpers since the MIC® 250 Cable end of the harness that routes through the rack or cabinet is much smaller than the equivalent six 2-fiber patch cords.

Plug & Play Universal Systems Harness Assembly | Photo LAN802

Specifications and Ordering Information

Plug & Play™ Universal Systems Harness Assembly

	MTP Connector	Harness Connectors		Fiber Type	Cable Type		Harness Leg Length	Harness Type	Overall Length	Unit of Measure
H	□□	□□	12	□	□□	-	□	Z	□□□	□
	1	2		3	4		5	6	7	8

1 Select the MTP® Connector.

70 = MTP Connector (pinned), standard performance, multimode
93 = MTP Connector (pinned), low-loss performance, multimode
89 = MTP Connector (pinned), single-mode

2 Select the break-out connector type.

ST® Compatible (12-fiber max)
50 = ST Compatible, multimode
61 = ST Compatible/UPC, single-mode

SC Duplex (12-fiber max)
57 = 568SC SC duplex, multimode
66 = SC APC duplex, single-mode
72 = 568SC SC UPC duplex, single-mode

LC Duplex
05 = LC duplex, multimode
04 = LC duplex, single-mode
18 = LC APC duplex, single-mode

MT-RJ
97 = MT-RJ (non-pinned), multimode
98 = MT-RJ (non-pinned), single-mode

3 Select fiber type.

K = Multimode 62.5/125 µm
C = Multimode 50/125 µm
S = Pretium™ 300 Solutions
Y = Pretium 550 Solutions
R = Single-mode

4 Defines cable type.

E8 = MIC® 250 Plenum Interconnect Cable

5 Select the leg length in inches (leg OD is 2.0 mm).

J = 12 in (-0/+3 in)
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)
Q = 79 in (-0/+3 in)
R = 98 in (-0/+3 in)

Note: Furcation legs are color-coded by fiber type:
K & C = Orange
S & Y = Aqua
R = Yellow

6 Defines harness type.

Z = Universal wired harness

7 Select the overall harness length (the overall length includes the break-out connector leg lengths).

001-999

8 Select unit of measure.

F = Feet
M = Meters

Note: Corning Cable Systems Plug & Play Universal Low-Loss Systems consist of low-loss modules, low-loss trunks and extender trunks, low-loss harnesses and low-loss jumpers. In order to guarantee a low-loss system, all components must be from the Plug & Play Universal Low-Loss Systems family.

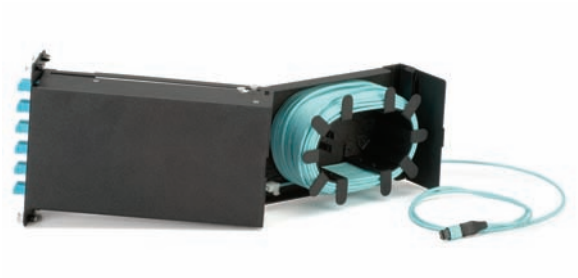
Plug & Play™ Universal Systems Integrated Trunk Modules

Plug & Play Universal Systems integrated trunk modules are a value-adding complement to the preterminated fiber optic cabling system that Corning Cable Systems has pioneered. The integrated trunk module is a preterminated 12-fiber MTP® Connector trunk assembly integrated into a Plug & Play Universal Systems module. The trunk cable stored within the module is easily deployed to an exact length, so precise pre-planning of cable length is not required.

The integrated trunk module provides a quick and convenient method for deploying and/or redeploying optical connectivity, and is ideal for small data centers (main distribution frame to the system equipment cabinet) or large data centers (zone distribution area to the system equipment cabinet). The integrated trunk module features a sliding tray that rotates to one side making it easier to access and deploy the trunk cable. Once the trunk cable has been deployed, the remaining excess cable can be stored within the sliding tray to eliminate slack. Integration of a trunk and module eliminates an MTP Connector pair yielding a decrease in channel insertion loss. An internal strain-relief bracket and boot are provided for strain-relief and bend-radius protection.

The Plug & Play Universal Systems integrated trunk module is universally wired to manage fiber polarity. Through a patented manufacturing process and innovative design, Plug & Play Universal Systems avoids the polarity problems caused by incorrect placement of modules and jumpers. This preterminated, polarity-managed solution dramatically streamlines the process of deploying an optical networking infrastructure, significantly reducing installation time and cost.

Plug & Play Universal Systems Integrated Trunk Modules, 40 ft (open view) | LAN768



Plug & Play Universal Systems Integrated Trunk Modules, 80 ft (open view) | LAN767

Ordering Information

Plug & Play™ Universal Systems Integrated Trunk Modules

ITMU - 12 - □□ □□ □ - 0 □□ F
(1: first two boxes; 2: second two boxes; 3: single box; 4: last two boxes)

1 Select adapters on module front.

SC Duplex
57 = SC duplex, multimode
72 = SC UPC duplex, single-mode

LC Duplex
05 = LC duplex, multimode
04 = LC UPC duplex, single-mode

2 Select MTP® Connector.
90 = Standard performance single-mode, non-pinned
89 = Standard performance single-mode, pinned
69 = Standard performance multimode, non-pinned
70 = Standard performance multimode, pinned

3 Select fiber type.
K = Multimode 62.5/125 µm
C = Multimode 50/125 µm
S = Pretium™ 300 Solutions
Y = Pretium 550 Solutions
R = Single-mode

4 Select length.
40 = 40 ft of cable; one-panel-space wide
80 = 80 ft of cable; two-panel-spaces wide

Note: Plug & Play Universal Systems are constructed with a value-added fiber polarity wiring solution that is not backwards compatible with systems utilizing a fiber pair-wise flip polarity solution, which is part of the Plug & Play Classic Systems solutions.

Examples

Part Number	Description
ITMU-12-0569Y-040F	Plug & Play™ Universal Systems Integrated Trunk Module with universal wiring, 12-fiber with LC duplex connectors and 40 ft of 50 µm, Pretium 550 Solutions MIC® Interconnect 250 Cable with an MTP® Connector (non-pinned)
ITMU-12-7289R-080F	Plug & Play Universal Systems Integrated Trunk Module with universal wiring, 12-fiber with SC duplex connectors and 80 ft of single-mode MIC® 250 Interconnect Cable with an MTP Connector (pinned)

Note: Corning Cable Systems Plug & Play Universal Low-Loss Systems consist of low-loss modules, low-loss trunks and extender trunks, low-loss harnesses and low-loss jumpers. In order to guarantee a low-loss system, all components must be from the Plug & Play Universal Low-Loss Systems family.

Jumpers and Reference 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' state-of-the-art manufacturing process ensures unsurpassed connector performance. Fibers and ferrules are thoroughly screened at the beginning of the process, assembled and polished in a carefully monitored and controlled process, and quality tested to ensure top performance. This assembly and polishing process ensures the same outstanding quality in every connector. When performance counts, ask for Corning Cable Systems assemblies.

Low-Loss Jumpers and Reference Jumpers | Photo LAN663

Ordering Information

Plug & Play™ Systems Standard Jumpers and Reference Jumpers

Jumper Part Numbers	
C050502S5120xxxF	LC Duplex to LC Duplex, multimode (Pretium™ 300 Solutions) 2.0 mm riser zipcord – unit of measure is ft
C050502S5120xxxM	LC Duplex to LC Duplex, multimode (Pretium 300 Solutions) 2.0 mm riser zipcord – unit of measure is m
C575702S5120xxxM	SC Duplex to SC Duplex, multimode (Pretium 300 Solutions) 2.0 mm riser zipcord – unit of measure is m
C575702S5120xxxF	SC Duplex to SC Duplex, multimode (Pretium 300 Solutions) 2.0 mm riser zipcord – unit of measure is ft
C050502Y5120xxxF	LC Duplex to LC Duplex, multimode (Pretium 550 Solutions) 2.0 mm riser zipcord – unit of measure is ft
C050502Y5120xxxM	LC Duplex to LC Duplex, multimode (Pretium 550 Solutions) 2.0 mm riser zipcord – unit of measure is m
C575702Y5120xxxM	SC Duplex to SC Duplex, multimode (Pretium 550 Solutions) 2.0 mm riser zipcord – unit of measure is m
C575702Y5120xxxF	SC Duplex to SC Duplex, multimode (Pretium 550 Solutions) 2.0 mm riser zipcord – unit of measure is ft
Reference Jumper Part Numbers	
C033901S5120xxxF	LC Simplex to SC Simplex, multimode (Pretium 300 Solutions) 2.0 mm riser jumper – unit of measure is ft
C033901S5120xxxM	LC Simplex to SC Simplex, multimode (Pretium 300 Solutions) 2.0 mm riser jumper – unit of measure is m
C393901S5120xxxF	SC Simplex to SC Simplex, multimode (Pretium 300 Solutions) 2.0 mm riser jumper – unit of measure is ft
C393901S5120xxxM	SC Simplex to SC Simplex, multimode (Pretium 300 Solutions) 2.0 mm riser jumper – unit of measure is m
C033901Y5120xxxF	LC Simplex to SC Simplex, multimode (Pretium 550 Solutions) 2.0 mm riser jumper – unit of measure is ft
C033901Y5120xxxM	LC Simplex to SC Simplex, multimode (Pretium 550 Solutions) 2.0 mm riser jumper – unit of measure is m
C393901Y5120xxxF	SC Simplex to SC Simplex, multimode (Pretium 550 Solutions) 2.0 mm riser jumper – unit of measure is ft
C393901Y5120xxxM	SC Simplex to SC Simplex, multimode (Pretium 550 Solutions) 2.0 mm riser jumper – unit of measure is m

Ordering Information *(continued)*

Plug & Play™ Systems Low-Loss Jumpers and Reference Jumpers

Jumper Part Numbers	
E050502S5120xxxF	LC Duplex to LC Duplex, multimode (Pretium™ 300 Solutions) 2.0 mm riser zipcord – unit of measure is ft
E050502S5120xxxM	LC Duplex to LC Duplex, multimode (Pretium 300 Solutions) 2.0 mm riser zipcord – unit of measure is m
E575702S5120xxxM	SC Duplex to SC Duplex, multimode (Pretium 300 Solutions) 2.0 mm riser zipcord – unit of measure is m
E575702S5120xxxF	SC Duplex to SC Duplex, multimode (Pretium 300 Solutions) 2.0 mm riser zipcord – unit of measure is ft
E050502Y5120xxxF	LC Duplex to LC Duplex, multimode (Pretium 550 Solutions) 2.0 mm riser zipcord – unit of measure is ft
E050502Y5120xxxM	LC Duplex to LC Duplex, multimode (Pretium 550 Solutions) 2.0 mm riser zipcord – unit of measure is m
E575702Y5120xxxM	SC Duplex to SC Duplex, multimode (Pretium 550 Solutions) 2.0 mm riser zipcord – unit of measure is m
E575702Y5120xxxF	SC Duplex to SC Duplex, multimode (Pretium 550 Solutions) 2.0 mm riser zipcord – unit of measure is ft
Reference Jumper Part Numbers*	
E033901S5120xxxF	LC Simplex to SC Simplex, multimode (Pretium 300 Solutions) 2.0 mm riser jumper – unit of measure is ft
E033901S5120xxxM	LC Simplex to SC Simplex, multimode (Pretium 300 Solutions) 2.0 mm riser jumper – unit of measure is m
E393901S5120xxxF	SC Simplex to SC Simplex, multimode (Pretium 300 Solutions) 2.0 mm riser jumper – unit of measure is ft
E393901S5120xxxM	SC Simplex to SC Simplex, multimode (Pretium 300 Solutions) 2.0 mm riser jumper – unit of measure is m
E033901Y5120xxxF	LC Simplex to SC Simplex, multimode (Pretium 550 Solutions) 2.0 mm riser jumper – unit of measure is ft
E033901Y5120xxxM	LC Simplex to SC Simplex, multimode (Pretium 550 Solutions) 2.0 mm riser jumper – unit of measure is m
E393901Y5120xxxF	SC Simplex to SC Simplex, multimode (Pretium 550 Solutions) 2.0 mm riser jumper – unit of measure is ft
E393901Y5120xxxM	SC Simplex to SC Simplex, multimode (Pretium 550 Solutions) 2.0 mm riser jumper – unit of measure is m

**Note: Low-loss reference jumpers are required during testing to achieve the link-loss value.*

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