

Plug & Play™ Universal Systems

A LANscape® Pretium®
Solutions Product

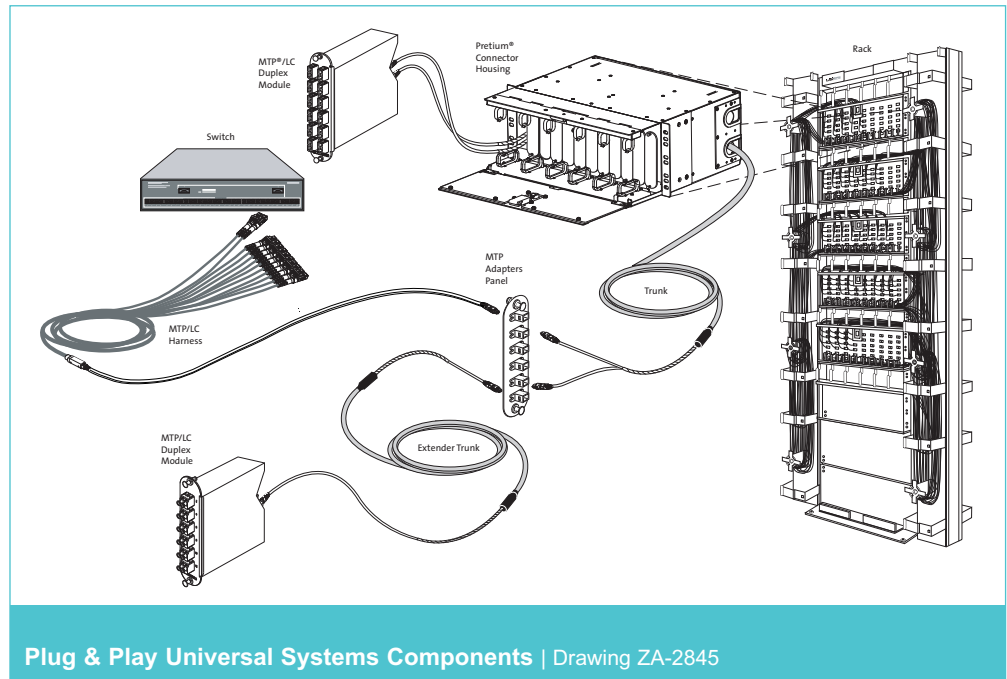
features and benefits |

Universal wired modular system components	Enable moves, adds and changes without polarity concerns; provide a simple migration path between 2-fiber and parallel optics applications
Standard and low-loss components	Provide a means of meeting increasingly stringent network performance requirements
Corning® ClearCurve® 50 µm Optical Fiber (OM3/OM4)	Offers enhanced bend performance, allowing tighter cable routing without negatively impacting system performance
100G Ready performance	Ensures product will meet the requirements of 100G Ethernet applications
Maximum skew of 0.75 ns	Product is assured to work in parallel optic applications for Ethernet, Fibre Channel and InfiniBand

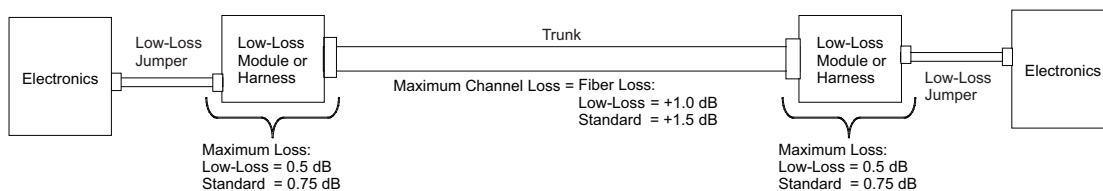
Corning Cable Systems Plug & Play™ Universal Systems are preterminated optical fiber cabling systems designed to dramatically improve performance for the increasing demand for high speeds in data center LAN/SAN, enterprise building backbone and fiber-to-the-desk applications.

Factory-terminated solutions provide improved system performance, ensure component compatibility and yield consistent quality. This value-added system significantly reduces installation time and cost by streamlining the process of deploying an optical networking infrastructure in the premises environment, particularly in data center applications.

High-density cable is used for 12- and 24-fiber trunks to provide high density in low-fiber-count applications and easier routing in patch panels. For 36- to 144-fiber applications, high-density cable provides space savings and convenient fiber deployment.

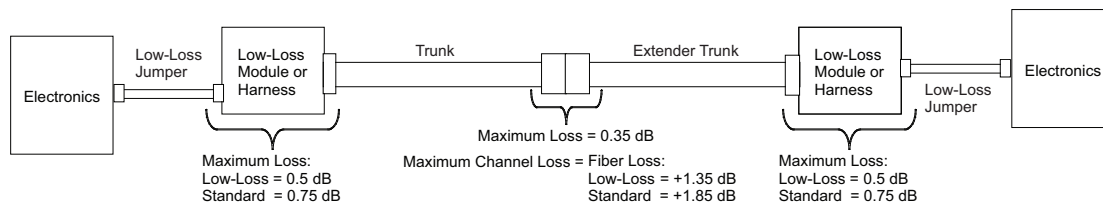


Trunk with Low-Loss Modules/Harnesses and Low-Loss Jumpers on Each End



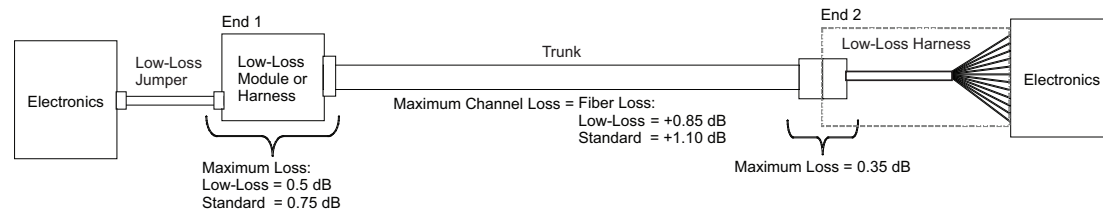
When harnesses are used, scenario assumes discrete connectors on harnesses are installed into patch panels and low-loss jumpers are used to mate into electronics.

Trunk and Extender Trunk with Low-Loss Modules/Harnesses and Low-Loss Jumpers on Each End



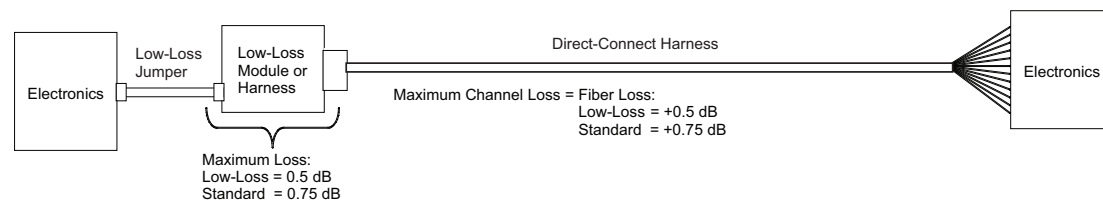
When harnesses are used, scenario assumes discrete connectors on harnesses are installed into patch panels and low-loss jumpers are used to mate into electronics.

Trunk with Low-Loss Module/Harness and Low-Loss Jumpers on End 1; Low-Loss Harness on End 2 Installed Directly into Electronics



When harnesses are used, scenario assumes discrete connectors on harnesses are installed into patch panels and low-loss jumpers are used to mate into electronics on End 1; discrete connectors at End 2 are installed directly into electronics.

Low-Loss Direct-Connect Harness with Low-Loss Module/Harness and a Low-Loss Jumper



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specifications |

Insertion Loss (dB)	Single-Mode Standard Performance (OS1)	62.5 μm Standard Performance (OM1)	LANscape® Pretium® 300 Solutions (OM3)		LANscape Pretium 550 Solutions (OM4)	
			Standard Performance	Low-Loss Performance	Standard Performance	Low-Loss Performance
Connected Mated Pairs						
LC	0.5	0.25	0.25	0.15	0.25	0.15
SC	0.5	0.25	0.25	0.15	0.25	0.15
MTP® Connector	0.75	0.5	0.5	0.35	0.5	0.35
Modules/Harnesses						
LC	1.3	0.75	0.75	0.5	0.75	0.5
SC	1.3	0.75	0.75	0.5	0.75	0.5
ITM						
LC	1.3	0.75	0.75	—	0.75	—
SC	1.3	0.75	0.75	—	0.75	—
Skew (ns)			Maximum			
MTP to MTP MIC® 250 Cable and Ribbon Trunks			0.75 ns at 300 m			



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Plug & Play™ Universal Systems Modules

Corning Cable Systems Plug & Play Universal Systems modules are used to break out the 12-fiber MTP® Connectors terminated on trunk cables into shuttered LC duplex or SC duplex connectors to facilitate patching into system equipment ports, patch panels or work area outlets.

The module features shuttered LC duplex or SC 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 are designed to fit into Corning Cable Systems LANscape® Pretium® Solutions hardware and are available with 12- or 24-fiber configurations for SC duplex connectors and 12- or 24-fiber configurations for shuttered LC duplex connectors. The modules contain a silk screen with port and fiber labeling to aid in system administration.

The modules' reduced-depth footprint provides added room for routing cables into the back of hardware, while providing a solution for shallow, raised-floor boxes. This provides adaptability for the changing data center environment.

Modules with shuttered LC duplex adapters have additional benefits when compared to traditional LC duplex adapters. Corning Cable Systems' shuttered LC adapters feature an integral shutter system that opens internal to the adapter and allows single-handed connector insertion and removal. While the primary purpose of the shutter is to provide dust protection without having to remove and store dust caps, the shutter mechanism also provides VFL compatibility. When a VFL is used at the end of the link, the corresponding fiber port on the opposite end is illuminated through the shutter.

The use of Plug & Play Universal Systems modules in the data center offers the advantage of greater manageability and flexibility with a modular infrastructure. As future connectivity requirements change, modules can be easily exchanged to meet those needs, while leaving the existing trunk cable infrastructure in place.



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ordering information |

Plug & Play™ Universal Systems Modules

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	1			2			3			4

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

|2
Select adapters on module front.
Shuttered LC Duplex
05 = Multimode
04 = Single-mode
18 = Single-mode, APC
SC Duplex (12-fiber max)
57 = Multimode
72 = Single-mode, UPC
66 = Single-mode, APC

|3
Select MTP® Connector adapter on module back.
70 = Standard performance, multimode, pinned
93 = Pretium® Low-Loss Performance, multimode, pinned
89 = Single-mode, pinned
See Notes 1 and 2.

|4
Select fiber type.
K = 62.5 µm multimode fiber
T = 50/125 µm multimode (OM3),
LANscape® Pretium 300 Solutions fiber
Q = 50/125 µm multimode (OM4),
Pretium 550 Solutions fiber
G = Single-mode ultra-bendable fiber (OS2)

Notes:
1) In order to guarantee a low-loss system, use Pretium-Performance trunk, low-loss module, harness and jumpers.
2) Low-loss available with SC duplex, LC duplex and MTP Connectors on multimode Pretium 300 and 550 Solutions only.
3) CCH modules are not compatible with HDH hardware.
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.

