12 fibres, MTP[®] Connector to 6 LC Duplex Connectors, 1500 mm leg length, 2 m

CORNING

Plug & Play™ Universal Systems Harnesses have a pinned (male) MTP® connector on one end that connects to a Plug & Play™ Universal Systems trunk or extender trunk, while the other end is equipped with single or dual fibre connectors. The assembly uses Data Centre Interconnect Cable, a round FRNC interconnect cable with a small outside diameter, which allows for easy routing without preferential bend concerns. The LC duplex and SC duplex connectors are terminated on 2.0 mm legs to provide a ruggedized solution; additionally, many ranges of length requirements are available to ease fibre routing. Used with the Plug & Play™ Universal Systems trunks or extender trunks, the LC duplex harness provide quick installation in applications where up-jacketed legs are needed for direct installation into electronic equipment. They also provide a routing solution that is less dense than traditional jumpers since the MTP Connector end of the harness that routes through the rack or cabinet is much smaller than the equivalent six 2-fibre patch cords.

Features and Benefits

MTP® connector meets requirements of ANSI HIPPI-6400 and IEC 61754-7 and TIA/EIA-604 (FOCIS)

Round. 3 mm indoor cable with 12 fibres in and dielectric strength members

Short breakout legs on LC Duplex, SC Duplex or ST® Compatible connectors reduce cable congestion in front of active device ports

Low-smoke and halogen-free (LSZH) to IEC 61034 (EN 50286) and IEC 60754-1

Flame retardant and non-corrosive (FRNC) to IEC 60332-3C (EN50266-2-4) and IEC 60754-2 (EN50267)

Ultra bend fibre allows for cable management in higher density areas with limited risk of attenuation due to bending

Factory-terminated solutions provide improved system performance, component compatibility and consistent quality

The patented Universal wired modular system components enable fast and simple networking moves, adds and changes without polarity concerns associated with special polarity-compensating components

Plug & Play[™] Universal Systems provides a simple migration path between 2-fiber and parallel optics applications



Part Number: H890412GEZ-NZ002M



12 fibres, MTP $^{\mbox{\tiny B}}$ Connector to 6 LC Duplex Connectors, 1500 mm leg length, 2 m

Features and Benefits

Test protocol delivered with each component

Standards

Intermateability	TIA/EIA-604-5 / TIA/
	EIA-604-10

Specifications

General Specifications	
Flame rating	LSZH™/FRNC
Fibre Category	SMF-28 [®] Ultra fibre

Temperature Range	
Operation	0 °C to 60 °C
Installation and assembly	0 °C to 50 °C
Storage	-25 °C to 70 °C

Design - Connector A	
Connector Type	MTP [®] (pinned)
Ferrule Material	Composite
Polish	APC
Housing material	Composite
Housing Colour	green
Boot type	Individual
Boot colour	black
Keyed (security)	No

Mechanical Specifications - Connector A	
Durability	≤ 0.2 dB 200 rematings, FOTP-21
Tensile strength jacketed cable	44 N

CORNING

12 fibres, MTP $^{\rm \otimes}$ Connector to 6 LC Duplex Connectors, 1500 mm leg length, 2 m

Optical Specifications - Connector A	
Insertion loss, max.	0.75 dB
Reflectance, typical	≤ -65 dB

Design - Connector B	
Connector Type	LC Duplex
Ferrule Material	Ceramic
Polish	UPC
Housing material	Composite
Housing Colour	blue
Boot type	Individual
Boot colour	blue
Keyed (security)	No

Mechanical Specifications - Connector B	
Durability	≤ 0.2 dB 500 rematings, FOTP-21
Tensile strength jacketed cable	44 N

Optical Specifications - Connector B	
Insertion loss, max.	0.5 dB
Reflectance, typical	≤ -55 dB

Cable design	
Fibre Count	12
Outer diameter	3.5 mm
Outer jacket colour	yellow
Outer jacket material	LSZH™/FRNC
Min. Bend Radius Installation	53 mm
Min. Bend Radius Operation	35 mm
Crush resistance (reversible)	750 N/10 cm
Tensile strength	200 N

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12 fibres, MTP $^{\rm \tiny (8)}$ Connector to 6 LC Duplex Connectors, 1500 mm leg length, 2 m

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Furcation - Connector A	
Legs Count	1
Leg length	500 mm
Leg diameter	3.5 mm
Fibre Count	12

Furcation - Connector B	
Legs Count	12
Leg length	1,500 mm
Leg diameter	2 mm
Fibre Count	12
Plug Type	PnP harness plug style
Plug Dimensions	74 x 14 x 14 mm

Fibre Specifications

Optical Characteristics (cabled)	
Fibre name	SMF-28 [®] Ultra TB Cable Optical Fibre
Mode-Field Diameter at 1310 nm	9.2 µm
Fibre code	Z
Coating diameter	242 µm
Cladding diameter	125 µm
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum attenuation	0.38 dB/km / 0.38 dB/km / 0.25 dB/km
Serial 1 gigabit ethernet	5000 m / -
Serial 10 gigabit ethernet	10000 m / 40000 m
Cable cutoff wavelength	1260 nm
Dispersion in the range 1285 to 1330 nm	≤ 3.5 ps / (nm * km)
Dispersion @ 1550 nm	≤ 18 ps / (nm * km)
PMD Link Design Value	≤ 0.04 PS / √km
PMD maximum individual fibre	≤ 0.1 PS / √km
Fibre compliance	ITU-T G.652.D and ITU-T G.657.A1

Notes: 1) Contact a Corning Customer Care Representative for additional information

12 fibres, MTP $^{\rm \tiny @}$ Connector to 6 LC Duplex Connectors, 1500 mm leg length, 2 m

Ordering Information

Part Number	H890412GEZ-NZ002M
Product Description	Plug & Play™ Universal Harness, SMF-28 [®] Ultra OS2, 12 fibres, MTP [®] Connector to 6 LC Duplex Connectors, 1500 mm leg length, 2 m
Length	2 m

Shipping Information

Units Per Delivery

1/1

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