

# Plug & Play™ Direct Connect Harness, OM4, Low-Loss

12 fibres, MTP® Connector to 6 LC Duplex Connectors, 600 mm leg length, 2 m



Plug & Play™ Direct Connect Universal Systems Harnesses have a non-pinned (female) MTP® connector on one end while the other end is equipped with single or dual fibre connectors. Special polarity and pinning allow this harness to connect directly to a Plug & Play™ module via the MTP and directly to a patch panel or transceiver via the LC Duplex, SC Duplex or ST® Compatible 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 single-fibre connectors are terminated on 2.0 mm legs to provide a ruggedised protection; additionally, various break-out leg lengths are available to provide a best fit. They also create much less cable congestion compared to the equivalent six 2-fibre patch cords. **Because of the pinning and polarity, a Direct Connect Harness may ONLY be connected to a Plug & Play module or standard harness.**

## Features and Benefits

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

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

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

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

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

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

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

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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

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

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Test protocol delivered with each component

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## Standards

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

## Specifications

### General Specifications

Flame rating	LSZH™/FRNC
Fibre Category	50 µm MM (OM4)

### 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® (non-pinned)
Ferrule Material	Composite
Polish	PC
Housing material	Composite
Housing Colour	turquoise
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

### Optical Specifications - Connector A

Insertion loss, max.	0.35 dB
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## Design - Connector B

Connector Type	LC Duplex
Ferrule Material	Ceramic
Polish	PC
Housing material	Composite
Housing Colour	black
Boot type	Individual
Boot colour	turquoise
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.	0.15 dB
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## Cable design

Fibre Count	12
Outer diameter	3.5 mm
Outer jacket colour	turquoise
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

## Furcation - Connector A

Legs Count	1
Leg length	1,400 mm
Leg diameter	3.5 mm
Fibre Count	12

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## Furcation - Connector B

Legs Count	12
Leg length	600 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	G50/125 ULTRA-BEND 7.5
Fibre core diameter	50 µm
Fibre Category	OM4
Fibre code	T
Wavelengths	850 nm / 1300 nm
Maximum attenuation	2.8 dB/km / 1.0 dB/km
Typical attenuation	2.4 dB/km / 0.8 dB/km
Serial 1 gigabit ethernet	1100 m / 600 m
Serial 10 gigabit ethernet	550 m / -
Min. overfilled launch (OFL) bandwidth	3500 MHz*km / 500 MHz*km
Minimum effective modal bandwidth (EMB)	4700 MHz*km / -
Induced attenuation @ 7.5 mm radius	< 0.2 dB / -

- Notes:
- 1) Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.
  - 2) 50 µm multimode fibre macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel
  - 3) Improved attenuation and bandwidth options available
  - 4) Bend-insensitive single-mode fibres available on request.
  - 5) Contact a Corning Customer Care Representative for additional information

## Ordering Information

Part Number	H750512QEZ-KW002M
Product Description	Plug & Play™ Direct Connect Harness, OM4, Low-Loss, 12 fibres, MTP® Connector to 6 LC Duplex Connectors, 600 mm leg length, 2 m
Length	2 m

## Shipping Information

Units Per Delivery	1/1
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length, 2 m

The logo consists of a solid blue square with the word "CORNING" written in white, uppercase, sans-serif font centered within the square.

## *Notes*

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