

EDGE™ Solutions Trunk Cable, OM4, Low-Loss, MTP® to MTP, 144 fibres

500/500 mm leg lengths, no pulling grip, 20 m

CORNING

EDGE MTP® trunks are preterminated cables with 12-fibre MTP connectors or LC duplex connectors on either side. The trunks build up the major skeleton of the passive network infrastructure, and thanks to the superior design including Corning® ClearCurve® fibre, they enable rapid deployment for your campus LAN or data centre facility. All trunks are shipped with strain-relief clips that allow for the tool-less installation in both EDGE Solutions and Plug & Play™ Systems housings. These trunks conform to TIA-568 Type-B polarity.

Features and Benefits

Provide 12 to 144 fibre connectivity

Cables are: Low smoke (IEC 61034) and zero-halogen (IEC 60754-1), flame retardant to IEC 60332-3 and non-corrosive to IEC 60754-2 (FRNC)

Utilise MTP connectors

- Small Form Factor
- 12-fibre push/pull optical connectors
- minimize errors and reduce space

Allow for lower bend radii and smaller slack loops

Enable up to 6x the cable tray capacity over traditional bulkier cabling solutions

Save up to 65 percent space, minimize cable tray weight and improve air flow

Meet the highest skew criteria for 100G

Feature round furcation legs that provide easy routing and improved storage

Feature small-profile furcation plugs

- allow stress-free cable mounting
- leave no legs outside the housing
- are shipped with strain-relief mounting cradles

Are available with optional flexible pulling grips that

- allow easy installation around corners
- allow trunk pull through conduits up to 450 N
- provide complete protection for connectors

Standards

Intermateability

TIA/EIA-604-5 / TIA/
EIA-604-5



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Standards

Flame Resistance Flame retardant to IEC 60332-1-2 (single cable), Zero Halogen to IEC 60754-1, Non Corrosive to IEC 60754-2

Specifications

General Specifications

Flame rating	LSZH™/FRNC
Fibre Category	50 µm MM (OM4)
Cable assembly type	Multi 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® (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

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Optical Specifications - Connector A

Insertion loss, max.	≤ 0.25 dB
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Design - Connector B

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 B

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

Optical Specifications - Connector B

Insertion loss, max.	≤ 0.25 dB
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Cable design

Polarity	Universal
Fibre Count	144
Outer jacket colour	Turquoise
Outer jacket material	LSZH™/FRNC
Outer diameter	11.1 mm (± 0.4 mm)
Min. Bend Radius Installation	222 mm
Min. Bend Radius Operation	111 mm
Crush resistance (reversible)	350 N/10 cm
Tensile strength	450 N

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Mechanical Characteristics Cable

Weight	102.00 kg/km
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Furcation - Connector A

Legs Count	12
Leg length	500 mm
Fibre Count	144
Plug Type	Size 2 EDGE™
Plug Dimensions	108.6 x 20 x 20 mm
Leg diameter	2.0 mm

Furcation - Connector B

Legs Count	12
Leg length	500 mm
Fibre Count	144
Plug Type	Size 2 EDGE™
Plug Dimensions	108.6 x 20 x 20 mm
Leg diameter	2.0 mm

Pulling grip - Connector A

Pulling grip - Connector A	No
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Pulling grip - Connector B

Pulling grip - Connector B	No
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Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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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	Z7575E4QLZ55U020M
Product Description	EDGE™ Solutions Trunk Cable, OM4, Low-Loss, MTP® Connector to MTP Connector, 144 fibres, 500/500 mm leg lengths, no pulling grip, 20 m
EAN Code	4056418754499
Length	20 m

Shipping Information

Packing type	Plastic reel
Packing contents	2x Pretium EDGE® clip size 2 test report
Units Per Delivery	1/1

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

Notes



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