

- X 25 Year System Warranty
- X US Conec MTP Elite® connectors used
- X OM3, OM4 and OS2 available
- X Manufactured to length

Features

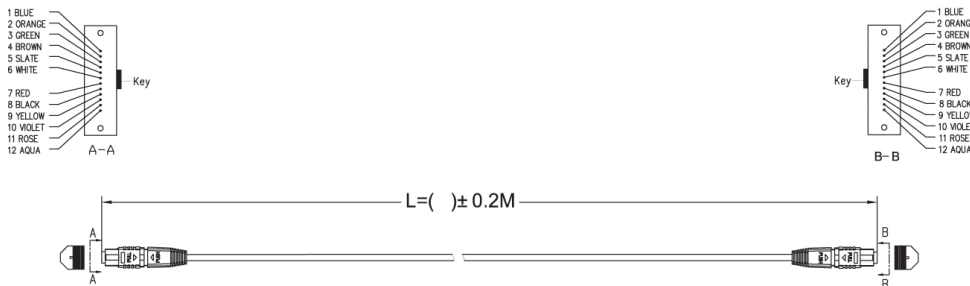
- 25 Year System Warranty
- OM3, OM4 and OS2 available
- 12 Core Connectors
- Factory tested
- US Conec MTP Elite® connectors used
- Manufactured to length
- 12 to 144 Core available (multiple MTP Elite®s)

Product Overview

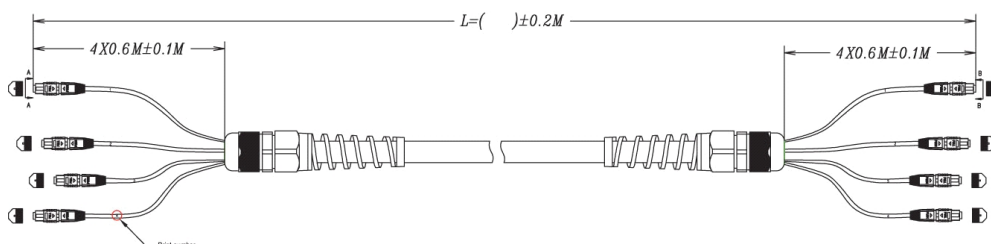
The Excelerator MTP Elite® Trunk Cables offer pre-terminated optical fibre that is factory tested in a range of core counts. The trunk cable is manufactured with multiple, 12 core MTP Elite® connectors to give 12, 24, 36, 48, 72, 96 or 144 core cables. The US Conec MTP Elite® connector has been chosen as the MPO (Multiple-Fibre Push-On/Pull-off) for superior performance with low loss properties. The MTP Elite® is the superior connector from the superior MPO manufacturer. Each cable is tested in the factory and is supplied with the test certificate. Each end of the cable has the MTP Elite® connector(s) protected with a flexible hose.

The trunk cable assemblies are available in OM3, OM4 and OS2. Bespoke lengths are offered (to the nearest metre). In the case of the 24 core and greater the cable is constructed of multi-core units.

12 Core MTP Trunk Cable



48 Core MTP Trunk Cable





Performance Overview

Excelerator fibre optic trunk cables are designed and manufactured to ensure that the optimum performance is possible from the installed fibre links.

Performance / Specification Table

Physical Characteristics

	12	24	36	48	72	96
Number of Fibre Cores	12	24	36	48	72	96
Number of MTP Connectors	1	2	3	4	6	8
Nominal diameter	3 mm	9 mm	9 mm	9 mm	11.2 mm	13.5 mm
Maximum pulling tension	80 N	160 N	160 N	200 N	300 N	300 N
Long term	150 N	300 N	300 N	600 N	1000 N	1000 N
Short term						
Weight	7.8 kg/km	72 kg/km	78 kg/km	79 kg/km	126 kg/km	178 kg/km
Operational temperature range	-20°C to +70°C					
Crush resistance	500 N/100 mm ²			1000 N/100 mm ²		
Minimum bend radius	90 mm	270 mm	270 mm	270 mm	336 mm	405 mm
Dynamic 30 x Ø Static 15 x Ø	45 mm	135 mm	135 mm	135 mm	168 mm	202.5 mm
Jacket	LSZH					

Connector Performance

	MM MT Elite [®] Multimode MT Ferrule	Standard Multimode MT Ferrule	SM MT Elite [®] Single-mode MT Ferrule	Standard Single-mode MT Ferrule
Insertion Loss	0.1dB Typical (All Fibres) 0.35dB Maximum (Single Fibre) ^{2,3}	0.20dB Typical (All Fibres) 0.60dB Maximum (Single Fibre) ^{2,3}	0.10dB Typical (All Fibres) 0.35dB Maximum (Single Fibre) ^{1,4}	0.25dB Typical (All Fibres) 0.75dB Maximum (Single Fibre) ¹
Optical Return Loss	> 20dB	> 20dB	> 60dB (8° Angle Polish)	> 60dB (8° Angle Polish)

¹ As tested per ANSI/EIA-455-171 Method D3

² As tested per ANSI/EIA-455-171 Method D1

³ As tested with proposed encircled flux launch condition on 50um fiber and 850nm per IEC 61280-4-1

⁴ Compliant with proposed IEC 61755-3-31/GRADE B

Information Courtesy of US Conec

Optical Performance

OM3 & OM4 - Multimode

Modal-Field Diameter	5 ± 2.5 μm 125 ± 0.1 μm
Numerical Aperture	0.20 ± 0.015 μm

Category	Size	Bandwidth		
		Overfilled launch 850 nm	1 300 nm	Effective laser launch 850 nm
OM3	50/125 µm	1 500 MHz.km	500 MHz.km	2 000 MHz.km
OM4	50/125 µm	3 500 MHz.km	500 MHz.km	4 700 MHz.km

Optical Performance

OS2 - Singlemode

Modal-Field Diameter	9 ± 0.4 µm 125 ± 0.7 µm
Numerical Aperture	0.20 ± 0.015 µm

Wavelength/Attenuation

Wavelength	Maximum attenuation (OS2)
1310 nm	0.4 dB/km
1383 nm	0.4 dB/km
1550 nm	0.4 dB/km

Typical Applications

		OM3	OM4	Os2
Gigabit Ethernet	1000BASE-SX	550 m	550 m	
	1000BASE-LX			5,000 m
10 Gigabit Ethernet	10GBASE-SR/SW	300 m	300 m	
	10GBASE-LX4 & LR/LW			10,000 m
	10GBASE-ER/EW			22,250 m
40 Gigabit Ethernet	40GBASE-SR4	100 m	150 m	
100 Gigabit Ethernet	100GBASE-SR10	100 m	150 m	
	100GBASE-LR4			10,000 m
	100GBASE-ER4			40,000 m

RoHS Compliance

RoHS 2011/65/EU	Compliant
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Part Number Information

Part No.	Description
208-OM3-yyC-MTP-xxx	Excelerator OM3 yy Core MTP Trunk Cable xxx m
208-OM4-yyC-MTP-xxx	Excelerator OM4 yy Core MTP Trunk Cable xxx m
208-OS2-yyC-MTP-xxx	Excelerator OS2 yy Core MTP Trunk Cable xxx m

System Warranty

The Excel System Warranty provides a 25-year product and applications assurance of compliance with the industry performance standard appropriate to the class of cabling installed. The warranty may be applied for by an accredited Excel Partner who has designed, supplied and installed the said system.



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