Excelerator Fibre Optic MTP® Cassettes

X **LC to MTP Factory Terminated**

X **6 or 12 LC Duplex Ports**

X **OM3, OM4 or OS2**

X **US Conec MTP Elite Connectors**

Features

- 25 Year System Warranty
- 6 or 12 LC Duplex Ports
- Factory terminated and tested
- Compatible with Excelerator Fibre Optic Cassette Patch Panel
- LC to MTP Factory Terminated
- OM3, OM4 or OS2
- US Conec MTP Elite Connectors
- Test certificate supplied

Product Overview

The Excelerator High Density Fibre Optic MTP® Cassette mounts directly into the Excelerator Fibre Optic Cassette Patch Panel for mounting into a 19" cabinet. This range of products have been designed and manufactured to support both the preterminated and the emerging 40/100 Gigabit Ethernet fibre optic installations. The cassettes are terminated with the superior quality US Conec Elite MTP® connector. Both 6 and 12 Duplex LC (12 and 24 core) cassettes are available. The 6 Duplex Port having one MTP Elite® connector on the rear and the 12 Duplex Port version having two. The cassettes are factory terminated and tested ensuring optimal performance when connected to the desired Excelerator MTP Trunk Cable (detailed on a separate specification sheet). Simply inspect the MTP end faces of the cable and cassette, then connect.

OM3, OM4 and OS2 categories of fibre optic cassettes are available depending on the desired class of channel. Two versions of Fibre Optic Cassette Patch Panels are available. The Excelerator High Density 1U patch panel will accept 5 cassettes and the Excelerator Angled MTP Patch Panel will accept 4 cassettes. These cassette patch panels allow for the ability to expand the installation in the future with very low risk to the installed network. These patch panels also allows different categories of fibre optics to be presented together in the same cabinet 'U' space.

Fibre Optic Performance

OM3 & OM4 – Multimode

Parameter	Value
Modal-Field Diameter	5 ± 2.5 µm
-	125 ± 1 µm
Numerical Aperture	0.20 ± 0.015 µm

Category	Size	Bandwidth Overfilled launch		Effective laser launch
		850 nm	1300 nm	850 nm
OM3	50/125µm	1500 MHz.km	500 MHz.km	2000 MHz.km
OM4	50/125µm	3500 MHz.km	500 MHz.km	4700 MHz.km

OS2 – Singlemode

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

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

MTP Elite Connector Performance

Parameter	Value
Multimode - Insertion Loss	0.1dB Typical (All Fibres)
-	0.35dB Maximum (Single Fibre)
Multimode - Optical Return Loss	> 20dB
Singlemode - Insertion Loss	0.10dB Typical (All Fibres)
-	0.35dB Maximum (Single Fibre)
Singlemode - Optical Return Loss	> 60dB

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 - Cassettes & Panel

RoHS 2011/65/EU	Compliant

Part Number Information

Part No.	Description
208-011	Excelerator High Density OM3 MTP Fibre Universal 6 Duplex LC (12 Core)
208-012	Excelerator High Density OM3 MTP Fibre Universal 12 Duplex LC (24 Core)
208-013	Excelerator High Density OM4 MTP Fibre Universal 6 Duplex LC (12 Core)
208-014	Excelerator High Density OM4 MTP Fibre Universal 12 Duplex LC (24 Core)
208-015	Excelerator High Density OS2 (APC) MTP Fibre Universal 6 Duplex LC (12 Core)
208-016	Excelerator High Density OS2 (APC) MTP Fibre Cassette 12 Duplex LC (24 Core)

Compatible Patch Panels

Part No.	Description
208-002	Excelerator 1U High Density MTP Patch Panel (Unloaded)
208-004	Excelerator 1U High Density Angled MTP Patch Panel (Unloaded)

Excelerator MTP Trunk Cables

Part No.	Description
-	Refer to separate specification sheet

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.

25 YEAR WARRANTY excel

Excel is a world-class premium performing end-to-end infrastructure solution - designed, manufactured, supported and delivered - without compromise.

Contact us at **sales@excel-networking.com**

excel without compromise.