

MMC Cable Assemblies

Minimize the space required across multiple applications, including structured cabling, high fiber count data center interconnects, and high-bandwidth applications



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The MMC fiber cable is equipped with an MMC connector, a Very Small Form Factor (VSFF) multi-fiber optical connector designed to terminate single-mode and multimode fiber cables up to 2.5mm in diameter. It employs novel TMT ferrule technology harmonized with the MT/MT-16 alignment structure. Individual connector access in the most extremely dense connector environments is easily accomplished using revolutionary DirectConec™ push-pull boot technology.

MMC connectivity enables solutions that minimize the space required across multiple applications, including structured cabling, high fiber count data center interconnects, and high-bandwidth applications.

Features

- VSFF MMC Connector Supports 3x Cabling Port Density over the MPO Format
- Top & Bottom Rails Enable Correct Orientation to Simplify Installation and Maintenance
- Utilizes Proven MT/MT-16 Mechanical and Fiber Alignment Structures
- DirectConec™ Push-Pull Boot for Effortless Connector Insertion and Extraction
- Bend Insensitive Fiber Allows Tighter Cable Bends for Slack Storage and Routing
- TMT Elite™ Enable 0.35dB Low IL and APC for Superior Return Loss
- Tested to Telcordia GR-1435
- Support Data Center Structured Cabling and High-Bandwidth Applications
- 250µm Pitch is for Standard 250µm and Smaller OD SM and MM Fibers
- Available in 1×16 and 2×12 Fiber Count Configurations
- Pulling Eyes are Provided As An Option To Protect the Fiber Ends During Installation

Mechanical Characteristics

Fiber Count	Outside Diameter		Tensile Load	
	Trunk	Breakout	Long-term	Short-term

MMC Jumpers

16 Fibers	2.5mm	-	30N	100N
24 Fibers	2.5mm	-	30N	100N

MMC Breakout Cables

16 Fibers	2.5mm	2.5mm	30N	100N
24 Fibers	2.5mm	2.5mm	30N	100N

MMC Trunk Cables

1x 16 Fibers	4.0mm	2.5mm	200N	660N
2x 16 Fibers	8.0mm	2.5mm	200N	660N
4x 16 Fibers	8.0mm	2.5mm	200N	660N
8x 16 Fibers	11.5mm	2.5mm	400N	1320N
12x 16 Fibers	12.6mm	2.5mm	400N	1320N
16x 16 Fibers	14.8mm	2.5mm	400N	1320N
24x 16 Fibers	17.5mm	2.5mm	400N	1320N

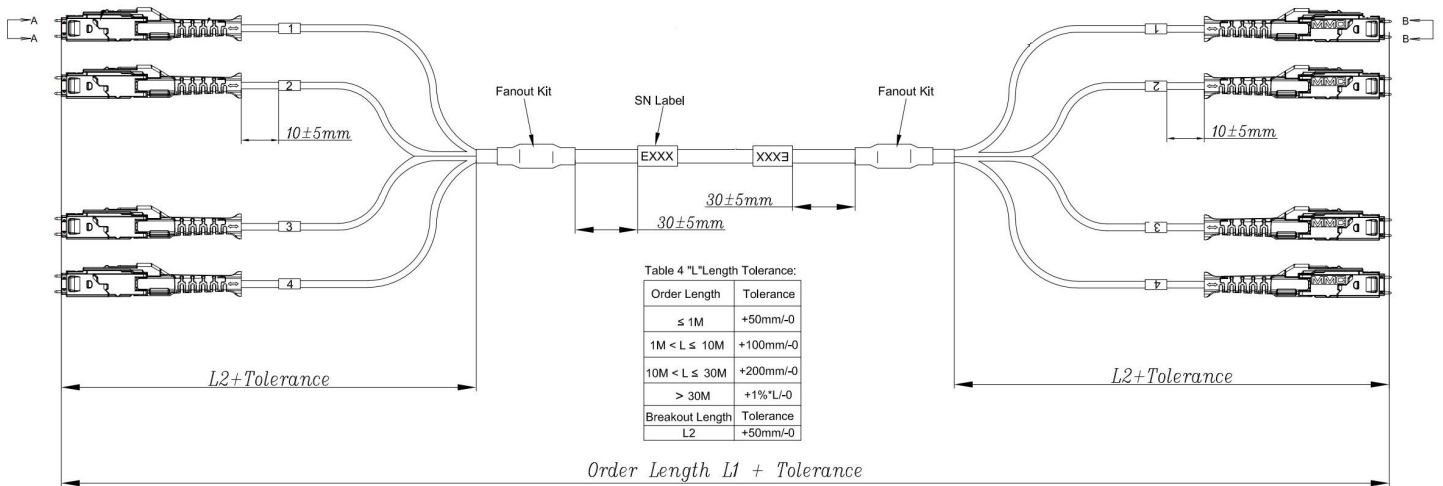
MMC Harnesses

16 Fibers	2.5mm	2.0mm	30N	100N
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Performance Characteristics

	OS2	OM4
Fiber Core Diameter	9/125μm	50/125μm
Wavelength	1310/1550nm	850/1300nm
Cable Jacket	Plenum (OFNP)	Plenum (OFNP)
Glass Fiber	G.657.A1	Bend Insensitive Fiber
Minimum Bend Radius	10mm	7.5mm
Insertion Loss (MMC)	≤0.35dB	≤0.35dB
Return Loss (MMC)	≥60dB	≥40dB
Insertion Loss (MTP)	≤0.35dB	≤0.35dB
Return Loss (MTP)	≥45dB	MTP-8/16: UPC≥27dB, APC≥45dB MTP-24: UPC≥20dB
Insertion Loss (LC)	≤0.35dB	≤0.35dB
Return Loss (LC)	≥50dB	≥30dB
Attenuation (1310/1550nm)	≤0.35dB/km at 1310nm ≤0.21dB/km at 1550nm	-
Attenuation (850/1300nm)	-	≤2.3dB/km at 850nm ≤0.6dB/km at 1300nm
Operating Temperature	-10 to 60°C (14 to 140°F)	
Storage Temperature	-10 to 70°C (14 to 158°F)	

MMC Trunk Cables Options



MMC-16 Trunk Cables Options

Fiber Type	Fiber Count	Connector A/B	Polarity	Pulling Eye
• OS2	• 1x 16	• Female APC 0.35dB with 28mm Standard Boots	• Extender Polarity (F-M)	• None
• OM4	• 2x 16	• Male APC 0.35dB with 28mm Standard Boots	• Trunk Polarity (M-M)	• End A
	• 4x 16	• Female APC 0.35dB with 44mm Long Boots		• End B
	• 8x 16	• Male APC 0.35dB with 44mm Long Boots		• Both Ends
	• 12x 16			
	• 16x 16			
	• 24x 16			

MMC-24 Trunk Cables Options

Fiber Type	Fiber Count	Connector A/B	Polarity	Pulling Eye
• OS2	• 1x 24	• Female APC 0.35dB with 28mm Standard Boots	• Extender Polarity (F-M)	• None
• OM4	• 2x 24	• Male APC 0.35dB with 28mm Standard Boots	• Trunk Polarity (M-M)	• End A
	• 4x 24	• Female APC 0.35dB with 44mm Long Boots		• End B
	• 8x 24	• Male APC 0.35dB with 44mm Long Boots		• Both Ends
	• 12x 24			
	• 16x 24			
	• 24x 24			

Products Listing

ID	Description
MMC Jumpers	
253289	MMC-16 to MMC-16 APC Jumper, 16 Fibers, OS2, Jumper Polarity, 1m (3ft)
336583	MMC-16 to MMC-16 APC Jumper, 16 Fibers, OM4, Jumper Polarity, 1m (3ft)
336567	MMC-16 to MTP®-16 APC Jumper, 16 Fibers, OS2, Jumper Polarity, 1m (3ft)
336575	MMC-16 to MTP®-16 APC Jumper, 16 Fibers, OM4, Jumper Polarity, 1m (3ft)
346785	MMC-24 APC to MTP®-24 UPC Jumper, 16 Fibers, OM4, Jumper Polarity, 1m (3ft)
MMC Breakout Cables	
336591	MMC-16 to 2 x MTP-8 APC Breakout Cable, 16 Fibers, OS2, Jumper Polarity, 1m (3ft)
346793	MMC-16 to 2 x MTP-8 APC Breakout Cable, 16 Fibers, OM4, Jumper Polarity, 1m (3ft)
336599	MMC-16 APC to 2 x MTP-8 UPC Breakout Cable, 16 Fibers, OM4, Jumper Polarity, 1m (3ft)
346801	MMC-24 to 3 x MTP-8 APC Breakout Cable, 24 Fibers, OS2, Jumper Polarity, 1m (3ft)
346817	MMC-24 to 3 x MTP-8 APC Breakout Cable, 24 Fibers, OM4, Jumper Polarity, 1m (3ft)
346809	MMC-24 APC to 3 x MTP-8 UPC Breakout Cable, 24 Fibers, OM4, Jumper Polarity, 1m (3ft)
MMC Trunk Cables	
346825	Customized MMC-16 Trunk Cable, 16-384F, OS2
346827	Customized MMC-16 Trunk Cable, 16-384F, OM4
346829	Customized MMC-24 Trunk Cable, 24-576F, OS2
346831	Customized MMC-24 Trunk Cable, 24-576F, OM4
MMC Harnesses	
336607	MMC-16 APC to 8 x LC UPC Harness, 16 Fibers, OS2, Jumper Polarity, 1m (3ft)
336615	MMC-16 APC to 8 x LC UPC Harness, 16 Fibers, OM4, Jumper Polarity, 1m (3ft)