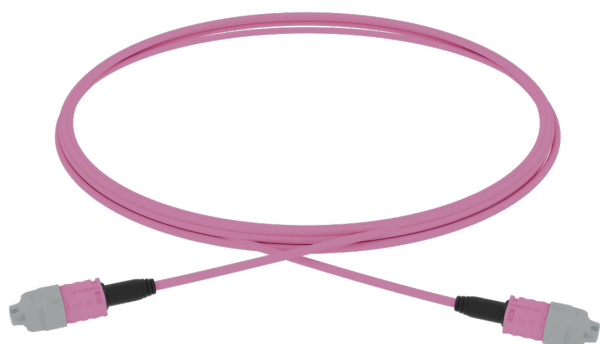




MTP®|MPO to MTP®|MPO OM4



MTP®|MPO to MTP®|MPO SM

Overview

SpliceGroup™ offers a comprehensive range of high-performance MTP® / MPO fibre optic patchcords designed for reliable, high-density connectivity in modern data centres, hyperscale environments, and enterprise networks.

Engineered to support parallel optical transmission, these MTP® / MPO patchcords are ideal for high-speed applications including 40G, 100G and beyond, ensuring scalable infrastructure for next-generation network demands.

SpliceGroup™ combines precision manufacturing, rigorous testing, and proven optical performance to deliver dependable MTP® / MPO connectivity solutions. Each patchcord is designed to ensure consistent performance, scalability, and long-term reliability across critical network infrastructures.

Main Features

- High-density MTP® / MPO connectivity for data centre and hyperscale deployments
- Supports 40G, 100G, and higher-speed networks with parallel optics
- Available in single-mode and multimode (OM4) fibre options
- 8, 12, 16, and 24 fibre configurations for flexible network design
- Low Smoke Zero Halogen (LSZH) jacket for improved indoor safety
- Factory-terminated and tested to Grade B performance for low insertion loss
- Precision-polished MTP® / MPO connectors for optimal alignment and repeatability

Specifications

Parameter	Performance	Specified Brand
MTP®/MPO	IEC 61754-7 [EIA/TIA-604-5, FOCIS 5 High Performance MPO	USConec MTP Elite® Senko MPO Super Low Loss

Optical Performance		
Insertion Loss (Max)	SMode ≤0.35dB, MMode ≤0.35dB	IEC 61300-3-4 Method B: [850nm/1310nm/1550nm]
Insertion Loss (Typical)	SMode ≤0.20dB, MMode ≤0.20dB	IEC 61300-3-4 Method B: [850nm/1310nm/1550nm]
Repeatability / Durability	±0.30dB / 500 matings	IEC 61300-2-2
Return Loss (Back Reflection)	UPC ≥30dB, APC ≥60dB	IEC 61300-3-6
Operating Temperature	-40°C - +80°C	

Production Tests Required

Insertion Loss	SMode $\leq 0.35\text{dB}$, MMode $\leq 0.35\text{dB}$	SMode 100% @1550nm MMode 100% @850nm
Visual Inspection	Zero Scratch	100% @ x200 Magnification
End Face Symmetry	IEC 61755-3-3 and 61755-3-4	100% Batch

Material

Connector	OM4 - Magenta, SM - Yellow	100% RoHs Compliant: UL94 Vo
Ferrules	PPS	As per Connector
Optical Fibre - Multimode	OM4 - 10G@850nm over 500m [1G@1300nm over 1100m]	Corning OM4 Clearcurve
Optical Fibre - Singlemode	G657A1	Corning SMF-28
Secondary Coating	Ribbon Forma / 12F Primary Coated / 24F Primary Coated	
Ruggedised Outer Jacket	3mm & 4mm LSZH Mini-Core / 3mm Tuffnut	OM4: H-Violet / SM: Yellow
Dust cap	Black	As per Connector

No Modification can be made to this assembly without written instruction from SpliceGroup™ Ltd. SpliceGroup™ Ltd cannot guarantee the number of matings and the resulting performance of the assembly due to the possible deterioration as a result of handling. Customers are advised to follow strict handling guidelines paying specific attention to cleaning procedures for fibre optic components.