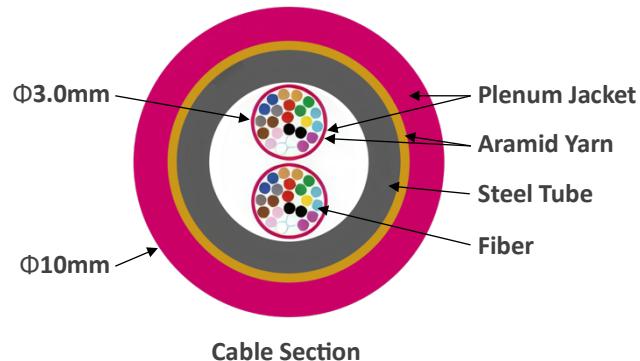


## Overview

Wave2Wave Armored MPO/MTP® fiber cables deliver high-density, plug-and-play connectivity for modern data centers and mission-critical environments. Designed to support 12, 16, or 24-fiber terminations, these assemblies replace large bundles of individual fibers with a compact, high-capacity interface optimized for rapid deployment and cable management efficiency.

A flexible, built-in steel armor layer provides superior protection against crushing, bending, rodents, and harsh installation conditions—far exceeding the durability of standard fiber cables. These assemblies can be configured with a full range of connectors, including LC, SC, ST, FC, and MPO/MTP®, enabling seamless integration into existing infrastructure.



48F Armored Optical Cable



Flexible Steel Tube

## Features & Benefits

- High-density MPO/MTP® terminations supporting 12/16/24 fibers for compact connectivity
- Flexible steel armor delivers strong protection against crushing, impact, and rodents
- Suitable for harsh areas exposed to dust, oil, gas, or moisture
- Available with LC, SC, ST, FC, and MPO/MTP® connector options
- Lightweight design with durable tensile strength for extended service life
- Factory-tested assemblies with labeling for fast identification and seamless installation

## Applications

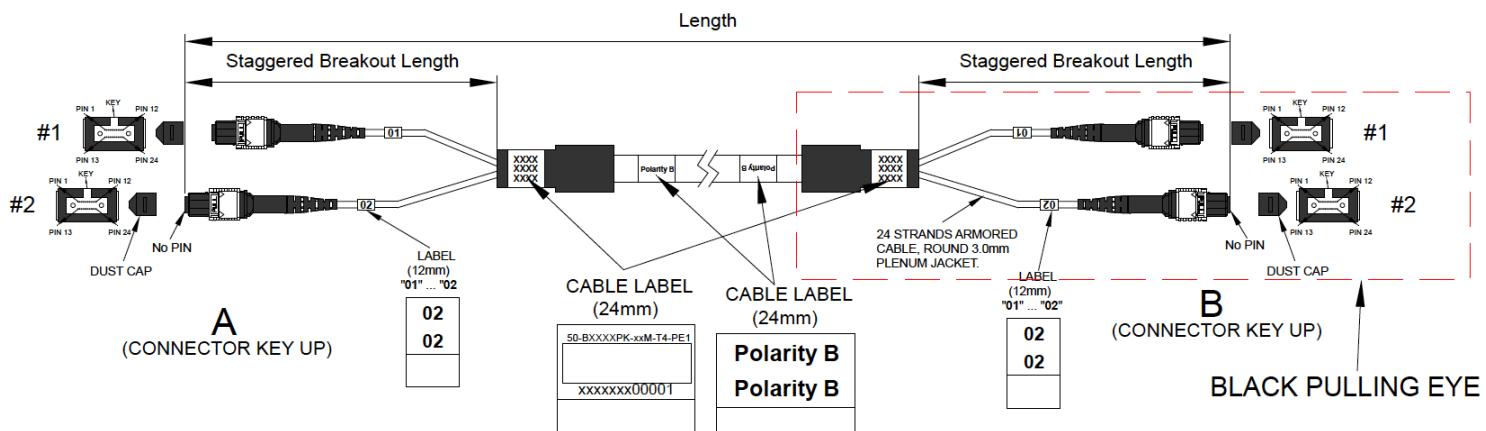
- Data center networking
- High-density cross-connects
- Backbone and telecom installations
- Enterprise computing and premise networks
- Test labs and engineering facilities
- Equipment rooms and controlled-environment spaces

## Optical Fiber Specification

Item	Unit	Fiber Type		
		OM4	OM5	SMF-28e+
Core Diameter	µm	50.0 ± 2.5	50.0 ± 2.5	8.2
Cladding Diameter	µm	125.0 ± 1.0	125.0 ± 1.0	125.0 ± 0.7
Core-Clad Concentricity	µm	≤ 1.5	≤ 1.5	≤ 0.5
Cladding Non-Circularity	%	≤ 1.0%	≤ 1.0%	≤ 0.7%
Core Non-Circularity	%	≤ 5%	≤ 5%	NA
Coating Diameter	µm	242 ± 5	242 ± 5	242 ± 5
Coating-Cladding Concentricity	µm	< 12	< 12	< 12
High Performance EMB Bandwidth	850nm	4700	4700	NA
	953nm	NA	2470	NA
Legacy Performance EMB Bandwidth	850nm	1500	NA	NA
	1300nm	500	NA	NA
Overfilled Modal Bandwidth	850nm	NA	3500	NA
	953nm	NA	1850	NA
	1300nm	NA	500	NA
Attenuation	850nm	≤ 2.3	≤ 2.3	NA
	953nm	NA	≤ 1.7	NA
	1300nm	≤ 0.6	≤ 0.6	NA
	1310nm	NA	NA	≤ 0.35
	1550nm	NA	NA	≤ 0.20
Macrobend Loss	Mandrel Radius (mm)	Number of Turns		
	850nm	15	2	≤ 0.10
	850nm	7.5	2	≤ 0.20
	953nm	15	2	NA
	953nm	7.5	2	≤ 0.20
	1300nm	15	2	≤ 0.30
	1300nm	7.5	2	≤ 0.50
	1550nm	16	1	NA
	1625nm	30	100	NA
	Proof Test		ksi	≥ 100
				≥ 100
				≥ 100

Note: Use Corning optical fiber.

## Mechanical Dimension



## Patch Cord Specification

Fiber Type		MM Elite	SM
Wavelength (nm)		850 & 1300	1310 & 1550
Polishing		PC	APC
Insertion Loss (dB)	Typical	0.10	0.25
	Max	0.35	0.70
Return Loss (dB)	Max	NA	-55
Compression Resistant Strength		2000N/100mm (Long Term) 3000N/100mm (Short Term)	
Tensile Load		100N (Long Term); 200N (Short Term)	

## Product Selection

Part Number: AB-CDEFgK-xxM

AB	C	DE	F	g (optional)	XX
50 (MPO)	3 (SMF)	12	0 (PC)	P (Plenum)	Length (Meters)
	4 (OM3)	24	1 (UPC)	L (LSZH)	
	8 (OM4)	48	2 (APC)		
	9 (OM5)				

## Standards Compliance

- Telcordia GR-1435
- TIA/EIA-568.3-D
- RoHS

