

1-Core (Single) / 2-Core (Zipcord) Optical Fiber Patch Cord

Specification

1. Scope

This specification applies to optical fiber patch cords assembled by combining the optical fiber cords defined herein with optical connectors.

2. Product Code Description

Example: TFC-1C-SM-SC-SC-*m

Product Code	Item	Specification	
TFC		TFC	
1C	Cable Type	1C	1-core (Single) cable
		2C	2-core (Zipcord) cable
SM	Fiber Type	SM	Single-mode fiber
		OM1	Multi-mode fiber OM1 (62.5/125)
		OM2	Multi-mode fiber OM2 (50/125)
		OM3	Multi-mode fiber OM3
		OM4	Multi-mode fiber OM4
SC	Connector Type	OM5	Multi-mode fiber OM5
		SC	SC Connector
		LC	LC Connector
		ST	ST Connector
		FC	FC Connector
		MU	MU Connector
		SMA	SMA905 Connector
OPEN	Unterminated		
*m	Length		*m: Total length in meters (customer specified)

3. Specifications (For specifications other than the standard specifications, please contact us.)

End-face polish	SM (Single-mode)	SPC	≥40dB
		UPC	≥50dB (Standard)
		APC	≥60dB
	MM (Multi-mode)	PC	≥25dB (Standard)
Cable Jacket	Color	SM	Yellow (Standard)
		OM1	Orange (Standard)
		OM2	Lime Green (Standard)
		OM3	Aqua (Standard)
		OM4	Aqua (Standard)
		OM5	Lime Green (Standard)
		Specified color	
	Material	Flame-retardant PVC *UL1666 (OFNR) (Standard)	
		LSZH	
Cable outer diameter	Single-core	Φ1.80mm	
		Φ2.00mm (standard)	
		Φ3.00mm	
	Duplex	Φ1.80mm×2	
		Φ2.00mm×2 (standard)	
		Φ3.00mm×2	
Strength member	Aramid yarn		
Operating temperature	-20 to +70 °C		
Storage temperature	-40 to +80 °C		
Humidity	≤95% RH (non-condensing)		

4. Structure and Optical Fiber Specifications

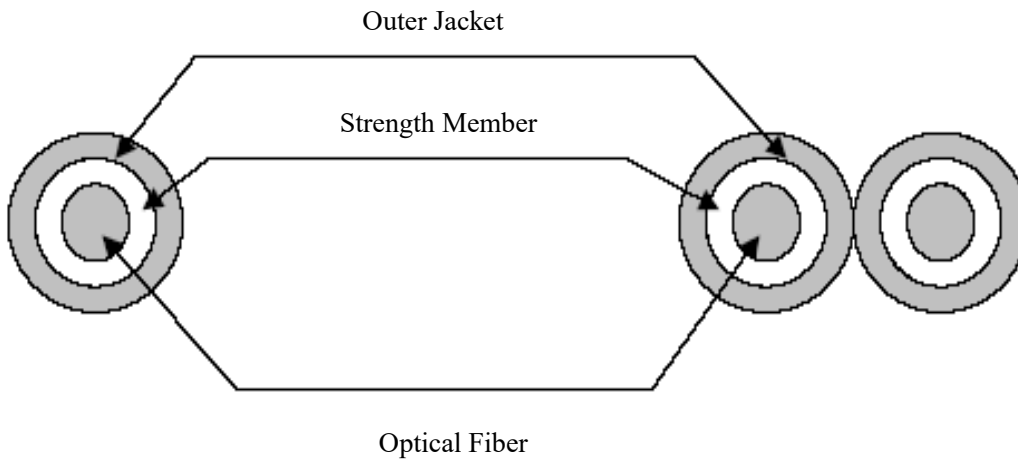
	SM		OM1		OM2		OM3		OM4		OM5		
Operating Wavelength (nm)	1310	1550	850	1300	850	1300	850	1300	850	1300	850	953	1300
Attenuation (dB/km, max.)	0.32	0.18	2.9	0.6	2.3	0.6	2.3	0.6	2.3	0.6	2.3	1.7	0.6
Bandwidth (MHz·km)	-		200	500	700	500	1500	500	3500	500	3500	1850	500
Mode Field Diameter (μm)	9.2 ±0.4	10.4 ±0.5	-										
Core	-		62.5±2.5			50±2.5							

Diameter (μm)			
Cladding Diameter (μm)	125±0.7		125±1.0
Primary Coating Diameter	Material		UV-cured resin
	Diameter (μm)		245±5
Secondary Coating Diameter	Material		PVC/LSZH
	Diameter (μm)		900±1
Allowable Bending Radius (mm)	15mm/10turns ≤ 0.05dB @1310nm/1550nm	75mm/100turns ≤ 0.5dB @850nm/1300nm	15mm/2 turns ≤ 0.1dB@850nm@953nm ≤ 0.3dB@1300nm
			7.5mm/2 turns ≤ 0.2dB@850nm@953nm ≤ 0.5dB@1300nm

* SM, OM2, OM3, OM4, and OM5: R15 compliant.

* OM5 supports 953 nm wavelength.

5. Cable Construction



6. Packaging and Labeling

Each optical cable shall be individually packed in a plastic bag suitable for transportation and storage.

The following information shall be indicated on the plastic bag:

- Product name
- Manufacturing number
- Quantity, etc.

Attachments:

- Inspection data

7. Warranty

The warranty period for this product shall be one (1) year from the date of delivery.

In the event that a failure is found during normal use and is determined to be clearly attributable to a structural defect or manufacturing defect for which the manufacturer is responsible, the manufacturer shall replace the defective products free of charge, limited to the quantity of defective items and the sales amount thereof.

The warranty does not cover any indirect, incidental, or consequential damages arising from product removal, replacement, or use.

8. Specifications and configurations are subject to change without notice for performance improvement.