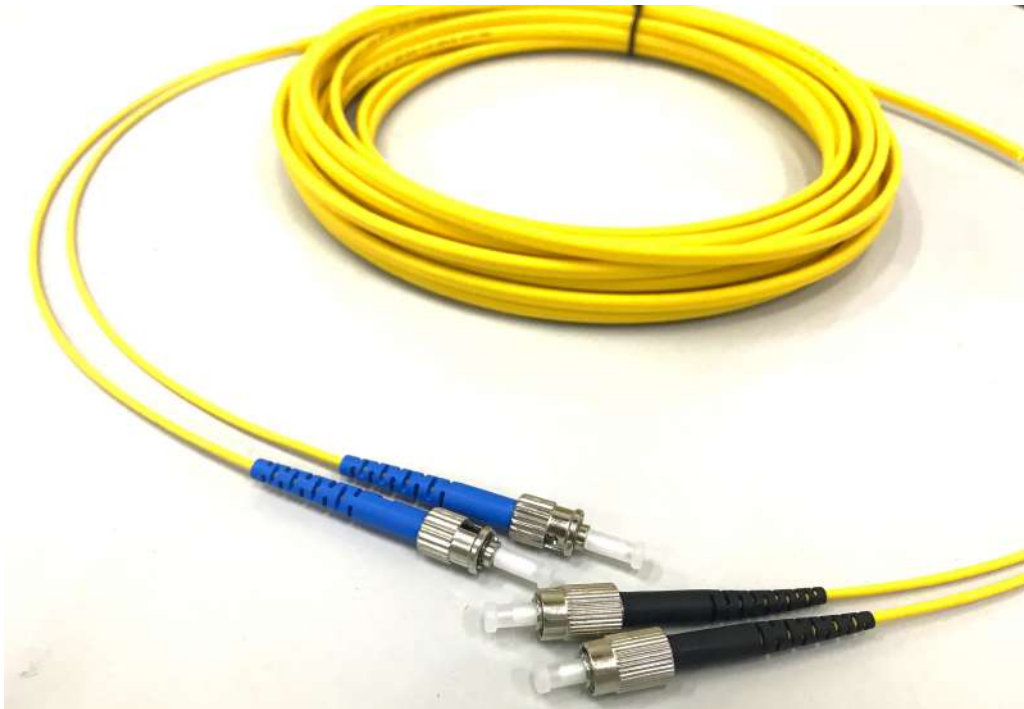


## FMMS Patchcord: FC and ST Type



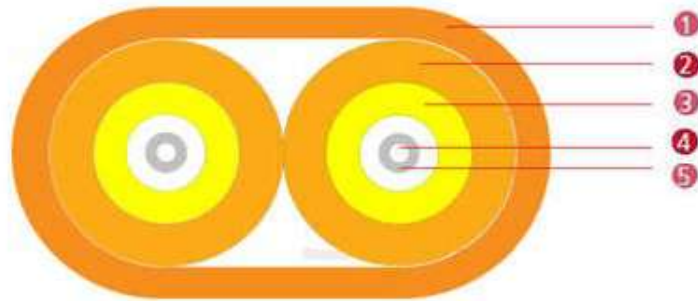
### Features

- Flexible Angle Boots: Can be set to any angle & will remain in that angle
- Single Mode- G.652D or G.657A1 fiber
- Connectors: SC , FC, ST and LC - In UPC and APC polishing
- Fiber Make: Corning
- 2mm Inner Jacket and Oval Outer Jacket

### A. Product Specifications

Parameter	LC-UPC	SC, FC or ST in UPC finish	LC-APC	SC-APC and FC-APC
Insertion Loss (Typ)	0.10 dB	0.10 dB	0.15 dB	0.15 dB
Insertion Loss (Max)	0.30 dB	0.30 dB	0.30 dB	0.30 dB
Return Loss (Typ)	58dB	58dB	65dB	65dB
Return Loss (Min)	55dB	55dB	60dB	60dB
Operating Wavelength	1490nm, 1310nm and 1550nm			
Fiber Size	9/125um, Single Mode, ITU G.652D/ G.657.A1			
Cable Type	Indoor, LSZH Jacket, 2 x 2mm Inner Jackets with Oval Outer Jacket			
Cable Colour	Yellow			
Operating Temperature	-20 to +70 <sup>o</sup> C			
Storage Temperatue	-25 to +70 <sup>o</sup> C			
Complying Stanadards	IEC 61753-021-2 Fibre optic interconnecting devices and passive components performance standard & Telcordia GR-326			
Mating Durability	500 Cycles minimum (as per IEC 61300-2-2)			

## B. Cable Construction: FMMS Cable



1	2	3	4	5
Outer Jacket	Inner Jacket	Aramid Yarn	Optical Fiber	Tight Buffer

## C. Cable Characteristics

ITEM	Value
Max. Tensile Load (Short Term)	800N
Max. Tensile Load (Long Term)	300N
Max. Crush Load (Short Term)	1000N/100mm
Max Crush Load (Long Term)	500N/100mm
UL Fire Rated	OFNR
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +85°C
Ineer Sheath Diameter	2mm

## D. Optical characteristics of single mode fibre cable

OTDR-attenuation of full production lengths at delivery (20°C) [dB/km]			
at 1310nm/1550nm/1625nm			
Fibre quality	G652D		G657A1
Max [dB/km]	0.4/0.3/0.4		0.4/0.3/0.4
Attenuation curve irregularities	Short length used only, no detailed limit requirement		
Point Discontinuity	<0.10 dB		

## E. Optical Fiber Specification

The following specifications apply to the optical performance of the single mode fibers as supplied in a cable.

General description		Dispersion-unshifted fibre Matched cladding			
Performance		G652D		G657A1	
Characteristic	Units	Value		Value	
MFD, 1310nm	μm	9.2 ± 0.3		9.0 ± 0.4	
MFD, 1550nm	μm	10.4 ± 0.6		10.2 ± 0.6	
Core non-circularity	%	≤ 6.0		≤ 6.0	
Core/cladding concentricity error	μm	< 0.4		< 0.4	
Cladding diameter	μm	125.0± 0.3		125.0± 0.3	
Cladding non-circularity	%	≤ 0.5		≤ 0.5	
Coating diameter, uncoloured clouded	μm	242 ± 5 250± 15		242 ± 5 250± 15	
Coating/cladding concentricity error	μm	≤ 12		≤ 12	
Temperature sensitivity –60°C ≤ temp. ≤ +85°C	dB/km	≤ 0.05		≤ 0.05	
Point Discontinuity	dB	≤ 0.05		≤ 0.05	
Bending sensitivity 100 turns Ø50 mm; 1550 nm 100 turns Ø50 mm; 1625 nm 15 turns Ø15 mm; 1550 nm 15 turns Ø15 mm; 1625 nm 1 turn Ø10 mm; 1550 nm 1 turn Ø10 mm; 1625 nm	dB	≤ 0.05 ≤ 0.05		≤ 0.02 ≤ 0.03 ≤ 0.1 ≤ 0.3 ≤ 0.75 ≤ 1.5	
Proof stress level	GPa	≥ 0.7		≥ 0.7	
Fibre cut-off wavelength (λ <sub>c</sub> )	nm	≤ 1250		≤ 1250	
Chromatic dispersion 1285-1330nm 1550nm 1625nm	ps/nm.k m	≤ 3.0 ≤ 17.0 ≤ 21.0		≤ 3.2 ≤ 17.0 ≤ 21.0	
PMD (fibre)	ps/√km	≤ 0.1		≤ 0.1	
IOR (indication)	-	1.465		1.465	
Attenuation @ 1383 nm (α <sub>1383</sub> ) <sup>a</sup>	dB/km	≤ 0.35		≤ 0.35	

## How to order:

### PH-XXX - XXX- YYY- ZZ- LLm

#### Connector- End1:

SC- For SC-UPC  
SCA- For SC-APC  
LC- For LC-UPC  
LCA- For LC-APC  
FC- For FC-UPC  
FCA- For FC-APC  
ST- For ST-UPC

#### Connector- End 2:

SC- For SC-UPC  
SCA- For SC-APC  
LC- For LC-UPC  
LCA- For LC-APC  
FC- For FC-UPC  
FCA- For FC-APC  
ST- For ST-UPC

#### Cable Length:

1m : 1 meter  
2m : 2 meters  
3m : 3 meters  
5m : 5 meters  
10m : 10 meters

#### Cable Construction:

2O: 2mm Oval Duplex

#### Fiber Type

SM: Single Mode

Product Example: [PH-LC-SCA-SM-2O-7.5m](#) for LC UPC - SC APC SM 2mm Oval Duplex Patch chord, 7.5m

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