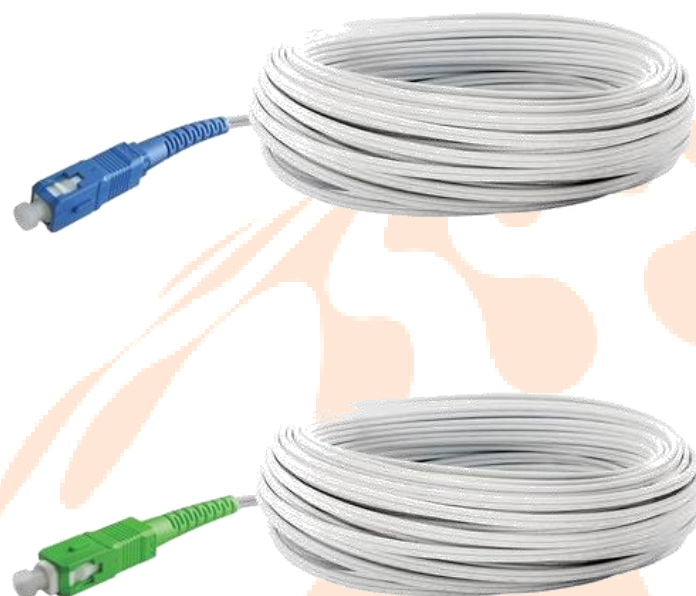


FTTH Bend insensitive fiber optic pigtails

Bend insensitive pigtails made from robust FTTH cable with FRP strenght members, and with a bend insensitive G.657.A1 fiber is ideal solution for FTTH networks. Pretermined cable is used for last mile applications where robust yet compact solution is needed.

Fast instalation and variety of possible lenghts.

SC/UPC or SC/APC connectors(other type on request)



Cable specifications

Fiber Count	Cable dimension (mm)	Cable Weight (kg/km)	Tensile (N)		Crush (N/100mm)		Min. Bend Radius (mm)		Range of Temperature (℃)
			Long Term	Short Term	Long Term	Short Term	Dynamic	Static	
1	3.0*2.0	12	40/100	80/200	500/1000	1000/2200	60	30	-20~+60

Note: 1. All the values in the table, which are for reference only, are subject to change without notice;
 2. The cable core use the colored coating fiber of 250um;
 3. The tensile and crush of the cable are accordance with the values in the table when the strength member of FRP and steel are used;
 4. The minimum bend radius (static) is 15mm, when G657 fiber is used.

Connector Specification

Connector Specification	
Type:	Single mode
Insertion loss:	≤0.20dB
Return loss:	≥50dB (PC) ≥65dB (APC)
Durability:	≤0.2 dB typical change, 1000 mating
Ferrule Hole Sizes	125.0+1/-0um, Concentricity≤1.0um
	125.5+1/-0um, Concentricity≤1.0um
	126.0+1/-0um, Concentricity≤1.0um
Operating Temperature:	-40 to + 80℃

Attenuation

Wavelength(nm)	Attenuation (dB/km)
@1310 nm	≤ 0.34
@1383 nm	≤ 0.33
@1383 nm (after H2 aging)	≤ 0.01
@1550 nm	≤ 0.20
@1625 nm	≤ 0.23

Size and optical parameter

Item	Specification
MFD (1310nm) μm	8.60 ± 0.40
MFD (1550nm) μm	9.80 ± 0.50
Cladding diameter μm	125.0 ± 0.7
Cladding no-circular %	≤ 0.8
Cladding to core concentricity error μm	≤ 0.5
Secondary coating diameter μm	245.0 ± 7.0
Secondary coating to cladding concentricity error μm	≤ 10.0

Chromatic dispersion

Zero dispersion wavelength λ_0	nm	1300~1324
Slope S_0	ps/(nm ² .km)	≤ 0.092
At 1288~1339nm, $D(\lambda)$	ps/(nm.km)	≤ 3.5
At 1271~1360nm, $D(\lambda)$	ps/(nm.km)	≤ 5.3
At 1550nm, $D(\lambda)$	ps/(nm.km)	≤ 18
At 1625nm, $D(\lambda)$	ps/(nm.km)	≤ 22
PMD coefficient	ps/km ^{1/2}	≤ 0.2 (fiber value)
		≤ 0.1 (Link value)
Note : at 1200~1600nm dispersion formula : $D(\lambda) = S_0/4 \times (\lambda - \lambda_0^4/\lambda^3)$		
		ps/(nm.km)

Macro bending loss

Mandrel diameter(mm)	Number of turns	Wavelength (nm)	Induced attenuation(dB)
30	10	1550	≤ 0.25
		1625	≤ 1.0
20	1	1550	≤ 0.75
		1625	≤ 1.5



Ordering information*

PIGTAIL	CONNECTOR TYPE	FIBER TYPE	LENGTH	JACKET TYPE
PT	SC - SC UPC SCA - SC APC	9A - Singlemode 9/125 OS2 G657A	15 - 15m 25 - 25m 35 - 35m	FL - LSZH

PT	SC	9A	25	TL
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Explanation: SC singlemode 25m pigtail with LSZH jacket

Standard options:

Part number	Description
PTSCA9A15FL	SC/APC fiber optic pigtail 15m
PTSCA9A25FL	SC/APC fiber optic pigtail 25m
PTSCA9A35FL	SC/APC fiber optic pigtail 35m
PTSC9A15FL	SC/UPC fiber optic pigtail 15m
PTSC9A25FL	SC/UPC fiber optic pigtail 25m
PTSC9A35FL	SC/UPC fiber optic pigtail 35m

*Other connector types and cable lengths are available in request.