P/N: OPT013AAD-XX

TopX ARMORED LC/APC - LC/APC SX 657A2 LSZH 10M

Description:

Connector A: LC/APC

Connector B: LC/APC

Cable Dia.: 3.0mm

Cable Count: Simplex

Fiber Type: Single Mode G657A2 9/125

Jacket Color: White

Jacket Material: LSZH

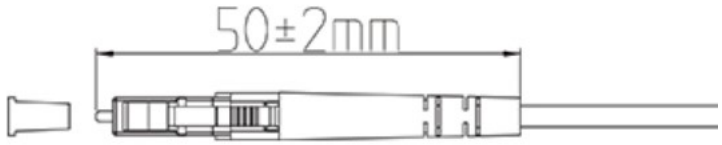
Length Tolerance: ±0.1m

Extra: With hook and braided mesh on both sides of connectors.

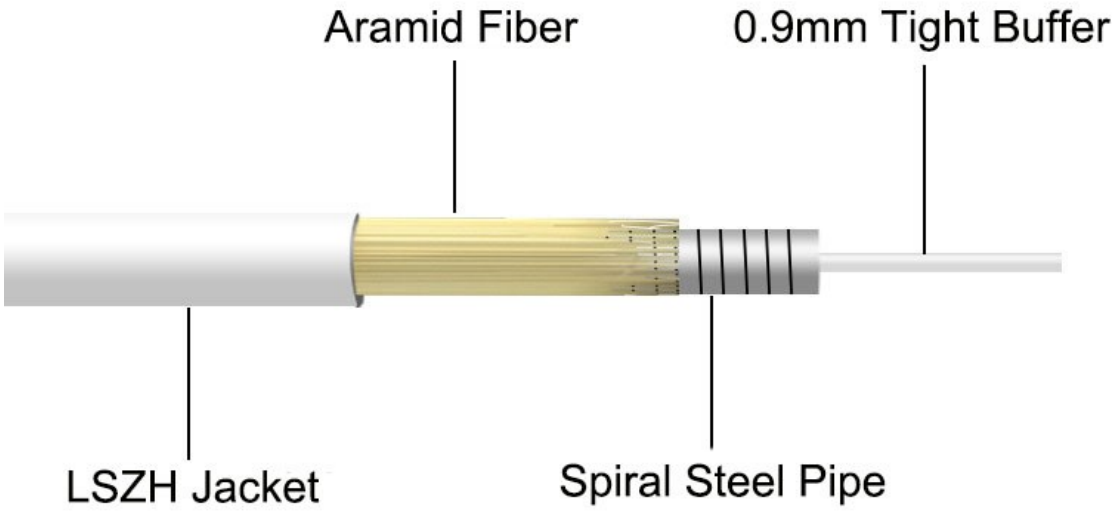
Cable Length: Denoted in meters in place of XX in P/N

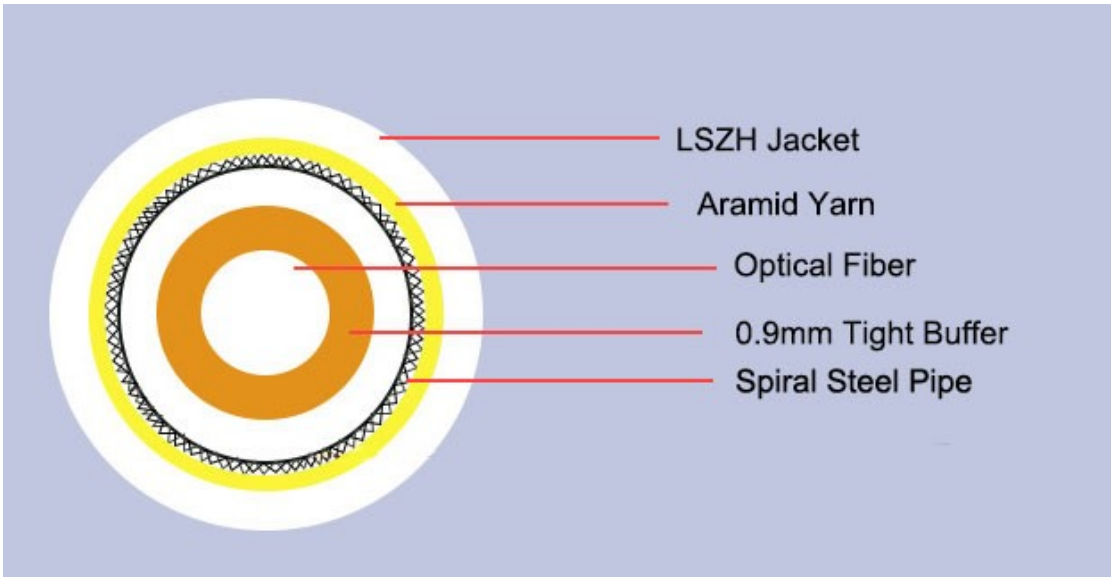
Connector Drawing:

LC/APC



Cable Drawing:





Technical Specification:

LC/APC Connector

Insertion Loss: ≤ 0.3dB

Return Loss: ≥ 55dB

Material of Ferrule: ZrO2 (Zirconia/Ceramic)

Ferrule Dia.: 1.249±0.0005mm

Operating Temperature: -20~70^{o} C

Durability: >1000times

Optical Performance of Fiber

G657A2

Fiber Property	Main Indexes	Technical Parameter
Geometrical Dimensions	Cladding diameter	125.0±0.7um
	Cladding non-circularity	≤1%
	Coating diameter	245±7 um
	Coating/cladding non-concentricity error	≤12 um
	Coating non-circularity	≤6%
	Core/cladding concentricity error	≤0.6 um
	Fiber curl (radius)	≥4 m
Optical Characteristics	MFD(1310nm)	9.2±0.4 um
	MFD(1550nm)	10.4±0.5 um
	Attenuation at 1310nm	≤0.35 dB/km
	Attenuation at 1383nm	≤0.35 dB/km
	Attenuation at 1550nm	≤0.21 dB/km
	Attenuation at 1625nm	≤0.23 dB/km
	Max. attenuation at 1285-1330nm, compared to that at 1550nm	≤0.03 dB/km
	Max. attenuation at 1525-1575nm, compared to that at 1550nm	≤0.02 dB/km
	Attenuation discontinuity at 1310nm	≤0.05 dB
	Attenuation discontinuity at 1550nm	≤0.05 dB
	PMD	≤0.2 ps/(km1/2)
	PMDq	≤0.1 ps/(km1/2)
	Zero-dispersion wavelength	1312±12 nm
	Zero-dispersion slope	≤0.091 ps/(nm2.km)
	Dispersion at 1550nm	≤17 ps/(nm.km)
	Dispersion at 1625nm	≤22 ps/(nm.km)
	Cable cutoff wavelength λc	≤1260 nm
Mechanical Property	Prooftest level	1%
	Dynamic fatigue	≥20

	Coating strip force	Average value	1.7 N
		Peak value	1.3-8.9 N
Environmental Property	Temperature attenuation (-60℃-±85℃, two cycles, at 1550nm)		≤0.05 dB/km
	Temperature-humidity cycling attenuation (85±2℃, relative humidity≥85%, 30 days, at 1550nm)		≤0.05 dB/km
	Water immersion attenuation (23±5℃, 30 days, 1550nm)		≤0.05 dB/km
	Dry heat aging attenuation (85±2℃，relative humidity 50%, 30 days, 1550nm)		≤0.05 dB/km
Bending Property	10 turns, 15mm radius, at 1550nm		≤0.03 dB
	10 turns, 15mm radius, at 1625nm		≤0.1dB
	1 turn, 10mm radius, at 1550nm		≤0.1dB
	1 turn, 10mm radius, at 1625nm		≤0.2dB
	1 turn, 7.5mm radius, at 1550nm		≤0.2dB
	1 turn, 7.5mm radius, at 1625nm		≤0.5dB