

# 12F Pre-Terminated SWA LC Patch Cord Datasheet

Ideal for outdoor FTTH projects.



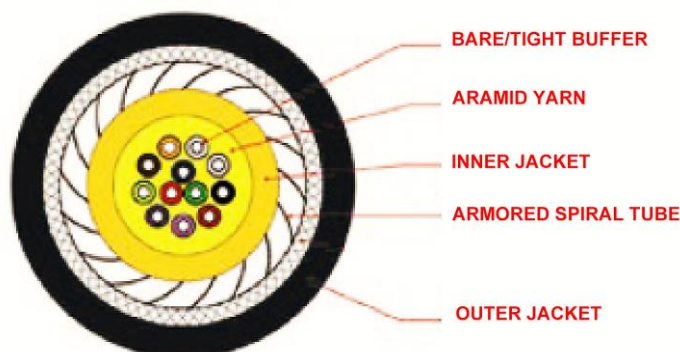
## • Description

OPTICO has been providing high quality pre-terminated cables for 3/4/5G indoor and outdoor applications in fan-out quantities ranging from 12 to 144. Optional connectors include MPO, SC, LC, FC, LSH, and MU. Optional fan out components include steel tube, round, box, and barrel. Optional fan out components include bare fiber, 0.9mm, 1.2mm, 2.0mm, and 3.0mm. The fan out length can be up to 10 meters, and the fan out tolerance can be as small as 0.5cm.

## • Features

- LC/SC/MPO are available
- Good repeatability and interchangeability
- Perfect solution for installs that require
- CE/CPR/ISO/ROHS ✓
- 100% 3D tested/Temperature tested/Loss tested before delivery
- High and low temperature cycle test
- IP67 Waterproof rate
- Long mating cycles (durability  $\geq$  1000times)
- Anti-moth and anti-rat bites

## • Cable structure



- Technical Specifications

Item	Parameter
Fiber Count	12F(12-144F are available)
Fiber Mode	Single-mode; Multimode
Fiber Brand	Corning/YOFC/Customized
Connector A	Duplex LC/UPC or customized
Connector B	Duplex LC/UPC or customized
Polish Type	UPC
Cable Jacket	PVC/LSZH
Jacket Color	Black
Outer Cable Diameter(mm)	7.0±0.3
Minimum Bending Radius	15D/30D(Static/Dynamic)

Optical Testing	Parameter
Insertion Loss(dB)	<0.25
Return Loss(dB)	Singlemode:≥60dB(APC);≥50(UPC); Multimode:≥30dB
Wavelength(nm)	1310/1550(Singlemode); 850nm (Multimode)
Tensile Strength(N)	600(Long Term)/1000(Short Term)
Operating Temperature(°C)	-40~85
Storage Temperature(°C)	-20~70

- Tips:

In order to make the customers know us more, please visit our VR factory, it is just like you were really standing in our factory.

OPTICO Fiber Assemblies Production Line VR :<https://www.linked-reality.com/company/15555/en>

• Optical Characteristics Overview

Item	Parameter		Reference
	Single-mode	Multi-mode	
Insertion Loss(dB)	Typically $\leq 0.15$ dB; Max. $\leq 0.25$ dB	Typically $\leq 0.15$ dB; Max. $\leq 0.25$ dB	IEC 61300-3-34
Return Loss(dB)	$\geq 60$ dB(APC) $\geq 50$ dB(UPC)	$\geq 30$ dB(UPC)	IEC 61300-3-6

• End-Face Geometry(LC)

Item	UPC (Ref: IEC 61755-3-1)	APC (Ref: IEC 61755-3-2)
Radius of curvature (mm)	10 to 25	5 to 12
Fiber height (nm)	-100 to 100	-100 to 100
Apex offset ( $\mu$ m)	0 to 50	0 to 50
APC angle ( $^{\circ}$ )	/	$8^{\circ} \pm 0.2^{\circ}$
Key error ( $^{\circ}$ )	/	$0.2^{\circ}$ max

• End-Face Quality(Single-mode)

Zone	Range ( $\mu$ m)	Scratches	Defects	Reference
A: Core	0 to 25	None	None	IEC 61300-3-35:2015
B: Cladding	25 to 115	None	None	
C: Adhesive	115 to 135	None	None	
D: Contact	135 to 250	None	None	
E: Rest of ferrule		None	None	

• End-Face Quality(Multi-mode)

Zone	Range ( $\mu$ m)	Scratches	Defects	Reference
A: Core	0 to 65	None	None	IEC 61300-3-35:2015
B: Cladding	65 to 115	None	None	
C: Adhesive	115 to 135	None	None	
D: Contact	135 to 250	None	None	
E: Rest of ferrule		None	None	