

CX-OPT-SCAPC-PC

Pre-Connectorized Drop Cable

Speed, precision, and lasting performance in modern fiber access networks

Introduction

The ComponexX CX-OPT-SC/APC-PC is a rugged, preconnectorized fiber patch cord engineered for dependable optical performance in both outdoor and indoor network environments. Built around a 5.0 mm low-smoke, zero-halogen (LSZH) round jacket, it combines mechanical durability with optical precision for long-term stability and reduced installation time.



Each cable is factory-terminated with high-precision SC/APC connectors, minimizing insertion loss while ensuring stable return loss performance even under variable environmental conditions. With robust tensile, crush resistance, and full dielectric construction, the CX-OPT-SC/APC provides a reliable, plug-and-play solution for FTTH, access, and enterprise applications.

Applications

- FTTH / FTTx access and drop connections
- Outdoor and indoor patching in distribution cabinets or wall boxes
- Telecom and broadband network interconnections
- Aerial, conduit, or riser installations requiring rugged, flexible performance

Key Advantages

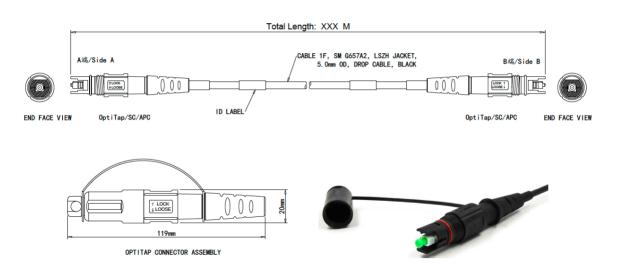
- Rugged LSZH Construction: 5.0 mm round LSZH jacket provides excellent flexibility and flame resistance for demanding installations.
- High-Precision SC/APC Connectors: Factory-polished connectors ensure low insertion loss (≤0.3 dB) and high return loss (≥60 dB).
- **Strength Member:** Kevlar yarns with stainless steel mesh to support higher tensile and good span 100-200meter and improve tensile and crush resistance.
- Plug-and-Play Efficiency: Pre-terminated design eliminates field polishing and splicing, saving labor and setup time.
- **Stable Optical Performance:** G.657A2 fiber maintains consistent attenuation under bend and temperature variation.
- **Wide Operating Range:** Performs reliably across -40°C to +75°C for indoor or outdoor environments.



Technical Specifications

Cable Parameter		
Item	Description	Parameter
Fiber Type		SM-G657A2
Fiber Count		1
Tight Buffer	Color	Blue
	OD	0.9MM
	Material	PVC
Strength Member	1	Kevlar
		Stainless Steel
	2	Mesh
Outer Jacket	Material	LSZH
	Color	Black
	OD	5.0 ± 0.2 mm
Span	Meters	100-200
Minimum Bending Radius	Long Term	10 D
Minimum Bending Radius	Short Term	20 D
Tensile Strength	Long Term	450 N
Tensile Strength	Short Term	2000 N
Crush Resistance		
(N/100mm)	Long Term	2000 N
Crush Resistance		
(N/100mm)	Short Term	1000 N
Working Temperature	_	−20 ~ 70 °C







Connector Parameters				
Item	Condition / Wavelength Parameter			
Fiber Type		SM-G657A2		
Attenuation	1310 nm	≤ 0.35 dB/km		
	1550 nm	≤ 0.35 dB/km		
Mode Field Diameter (MFD)	1310 nm	8.4 – 9.2 μm		
	1550 nm	9.3 – 10.3 μm		
Cladding Diameter	_	125 ± 0.7 μm		
Coating Diameter	_	245 ± 5 μm		
Core-Cladding Concentricity Error		≤ 0.5 µm		
Cable Cutoff Wavelength (λcc)	_	≤ 1260 nm		
Micro-bend induced attenuation	10 turns, r=15 mm, 1550 nm	≤0.03 dB		
	10 turns, r=15 mm, 1625 nm	≤0.1 dB		
	1 turn, r=10 mm, 1550 nm	≤0.1 dB		
	1 turn, r=10 mm, 1625 nm	≤0.2 dB		

Connector Parameters				
Item	Condition / Test	Parameter		
Connector Type	_	OPT/SC/APC		
Insertion Loss	@1310 / 1550 nm	≤ 0.3 dB		
Return Loss	@1310 / 1550 nm	≥ 60 dB		
Interchangeability	@1310 / 1550 nm	≤ 0.2 dB		
Repeatability	@1310 / 1550 nm	≤ 0.2 dB		
Durability (Mating Cycles)	_	800 – 1000		
Operating Temperature	_	−40 ~ 75 °C		
Test Wavelength	_	1310 nm / 1550 nm		