

CX-OPT-SA-SA

Pre-Connectorized Patch Cord

Compact. Precise. Built for Reliable Fiber Interconnections

Introduction:

The **ComponexX CX-OPT-SA-SA** is a pre-terminated OPT-SC/APC-to-SC/APC single-fiber jumper designed for fast, low-loss optical connections in FTTH, FTTX and telecom environments.

Built with **3.0 mm LSZH round cable** and **factory-polished SC/APC connectors**, this assembly ensures high performance, excellent flexibility, and long-term stability in both indoor and outdoor cabinet applications.



Its **tight-buffered SM G657A2 fiber** and **aramid-reinforced with LSZH jacket** provide exceptional tensile strength and protection while maintaining compact form factor compatibility with patch panels, splitters, and ONUs.

Applications

- FTTH and FTTx network patching between terminals and ONUs
- Data center and telecom cabinet interconnections
- Equipment-to-frame or ODF optical patching
- Indoor or sheltered outdoor installations requiring reliable, low-loss connectivity

Key Advantages

- **SC/APC Connectivity:** Factory-polished connectors on both ends ensure low insertion loss and high return loss.
- **3.0 mm LSZH Jacket:** Flexible, flame-retardant sheath suitable for confined routing spaces.
- **Compact & Durable Design:** Tight-buffer fiber with aramid yarn for mechanical protection and stability.
- **Plug-and-Play Installation:** Pre-terminated and 100% factory-tested for fast deployment.
- **Wide Temperature Range:** Reliable optical performance from -40°C to $+85^{\circ}\text{C}$.
- **High Reliability:** IP67-rated assembly for use in both indoor and outdoor enclosures.

Technical Specifications:

Cable Parameters		
Item	Description	Parameter
Fiber Type	—	SM-G657A2
Fiber Count	—	1
Outer Jacket	Material	LSZH (3.0 mm Round)
Outer Jacket	Color	Yellow
Strength Member	—	Aramid Yarn
Minimum Bending Radius	Long Term	15 D
Minimum Bending Radius	Short Term	20 D
Tensile Strength	Long Term	120 N
Tensile Strength	Short Term	240 N
Crush Resistance (per 100 mm)	-	1000 N
Working Temperature	—	-40 ~ 85 °C

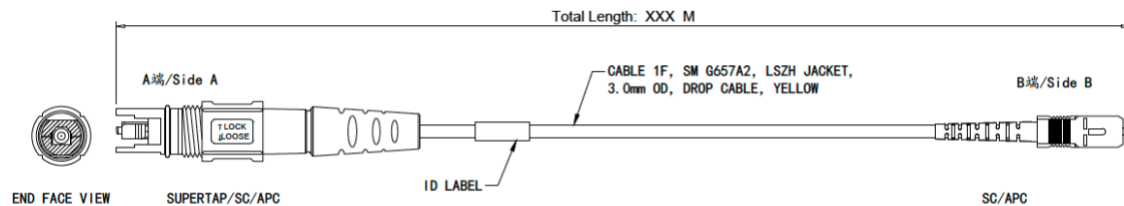
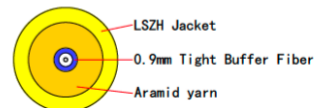


TABLE 1: LENGTH AND TOLERANCE TABLE

Length(m)	Tolerance(m)
L<10	+0.1/-0.05
10≤L≤50	+0.2/-0.1
L>50	+0.4/-0.1



Fiber 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 (λ _{cc})	—	≤ 1260 nm

Connector Parameters		
Item	Condition / Test	Parameter
Connector Type	—	SC/APC → 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 ~ 85 °C
Test Wavelength	—	1310 nm / 1550 nm
Protection Rating	—	IP67