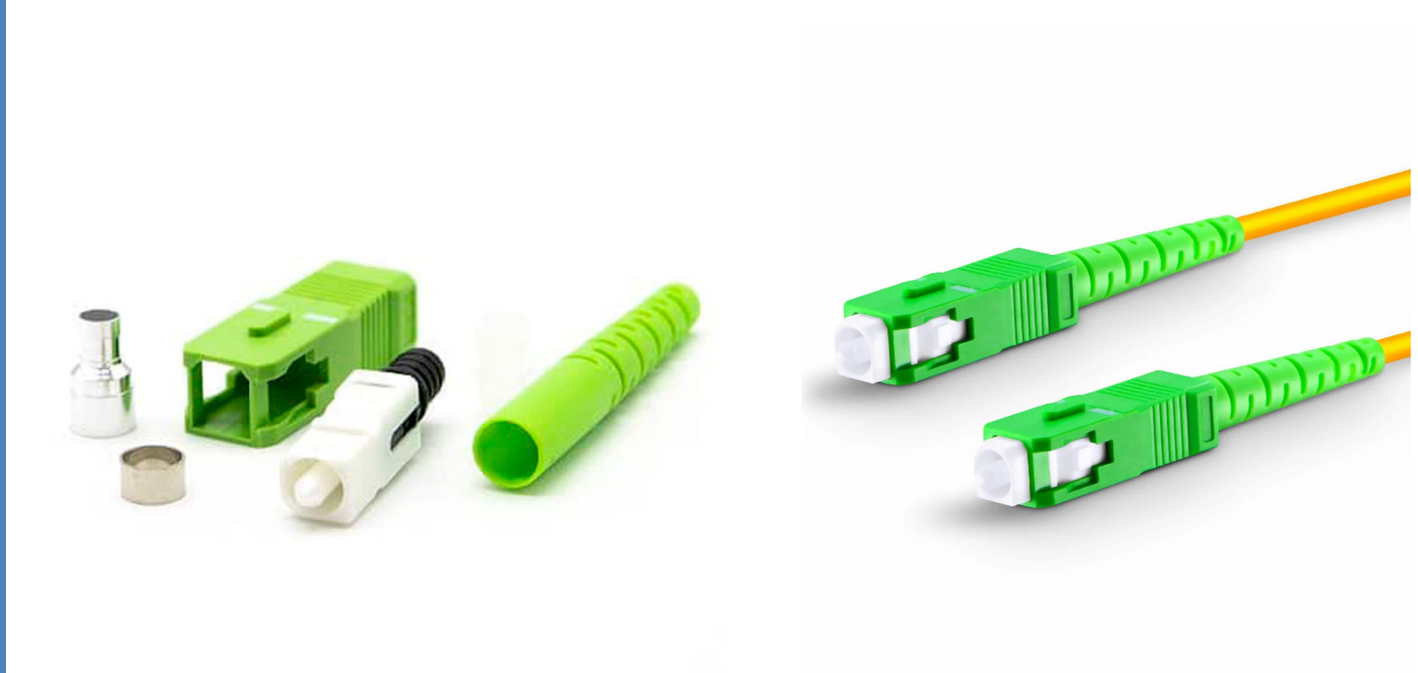


Optical Fiber

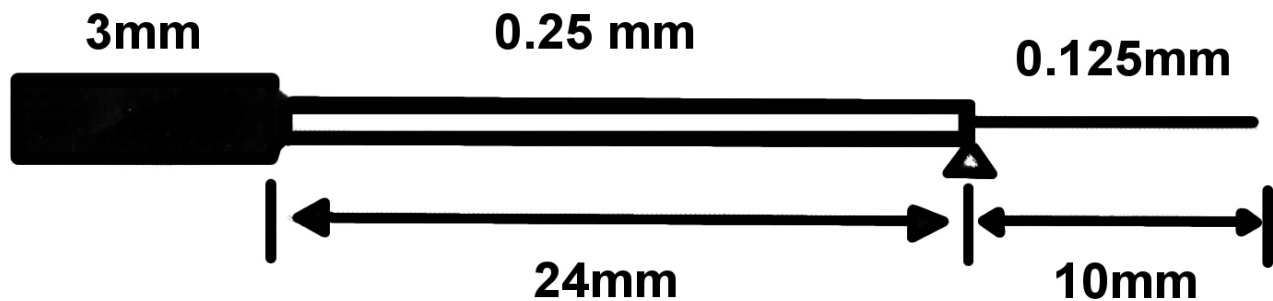
TECHNICAL DATA SHEET

Fiber Optic SC/APC DX Connector green



Fiber Optic SC/APC DX Connector green

Product Description:



An SC APC Duplex connector is a single-mode fiber optic connector pair featuring SC (Standard Connector) housings with APC (Angled Physical Contact) polish and a 3.0 mm cable boot diameter. The angled endface (typically 8°) minimizes back-reflection, making it ideal for high-performance optical links requiring low return loss. The duplex design supports two fibers (Tx/Rx) in one assembly for bidirectional communication. This type is commonly used in FTTH, telecom, CATV, LAN/WAN, and broadband networks where reliable, low-loss optical connections are required. APC connectors are usually green to distinguish them from UPC types.

Applications:

- FTTH networks (home optical line termination and ONTs)
- Telecommunications and transport links
- Broadband and CATV networks
- LAN/WAN optical interconnections
- Optical distribution frames and termination panels



Technical Specifications:

Parameter	Typical Value
Connector Type	SC APC Duplex
Fiber Type	Single-mode 9/125 μm (OS2/G.652/G.657)
Polish Type	APC
Return Loss	≥ 60 dB or > 65 dB (high)
Insertion Loss	$\leq 0.2 - 0.3$ dB typical
Durability	≥ 1000 matings
Cable Diameter	~ 3.0 mm
Boot Color	Green and White
Operating Temp.	approximate -40 °C to $+80$ °C

Benefits:

- Low back-reflection due to angled APC polish
- High return loss suitable for high-speed, long-distance links
- Duplex configuration for Tx/Rx channels in a single assembly
- Standard 3 mm boot fits standard fiber patch panels and cable guides
- Robust and repeatable connection for 1000+ cycles



Raw Materials Detailed List:

Item	Part	Material	RoHS Compliance
1	Anti-dust Cap	LDPE	Yes
2	Housing	PBT	Yes
3	Inner Core	PBT	Yes
4	Spring	SUS304 Stainless Steel	Yes
5	Ferrule	Zirconia Ceramic	Yes
6	Body	Copper Alloy	Yes
7	Boot	TPV	Yes