

Datolink Ltd



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Datolink fiber optic patch cord SC-SC

Datolink Ltd make high quality fiber optic patch cord, which provides low insertion loss, high return loss, low polarization effects which can provides excellent environmental stability for PM amplifier, fiber lasers and test instrumentation applications.

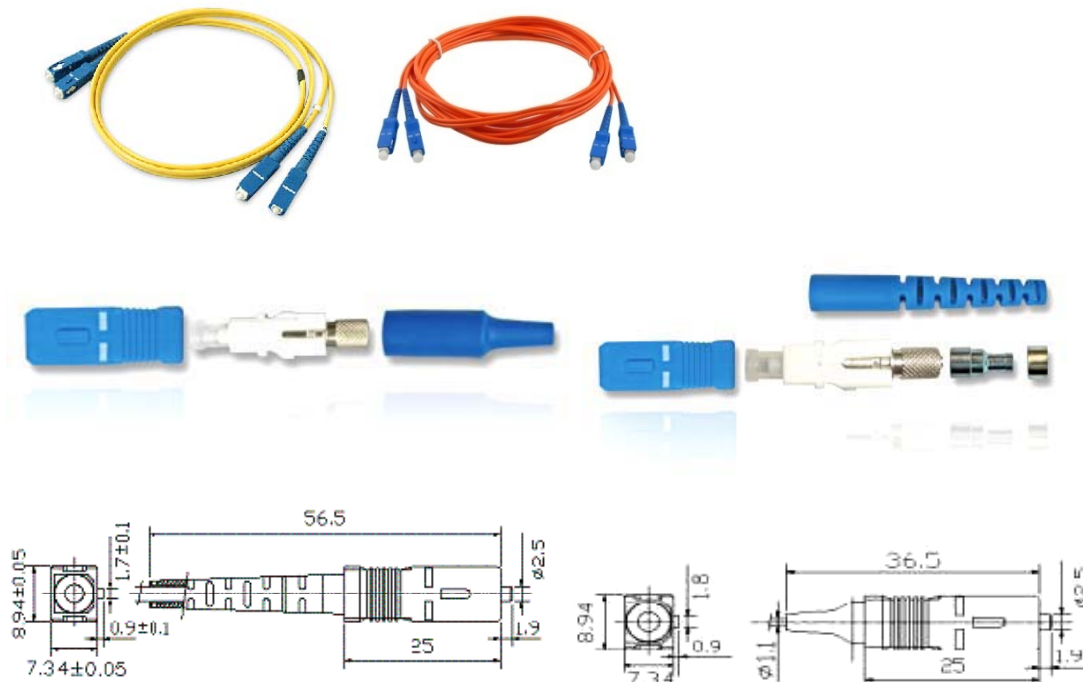
SC stands for Subscriber Connector- a general purpose push/pull style Connector developed by NTT. SC has an advantage in keyed duplexibility to support send/receive channels.

SC/PC-SC/PC, SM, 9/125um, Duplex, 1 meter, 3mm

SC/PC-SC/PC, MM, 62.5/125um, Duplex, 3 meters, 3mm

Features:

1. Low insertion loss and high return loss
2. Free-floating ceramic ferrule
3. UL-rated plastic housing and boot
4. Boots in a variety of colors
5. High precision alignment



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Applications:

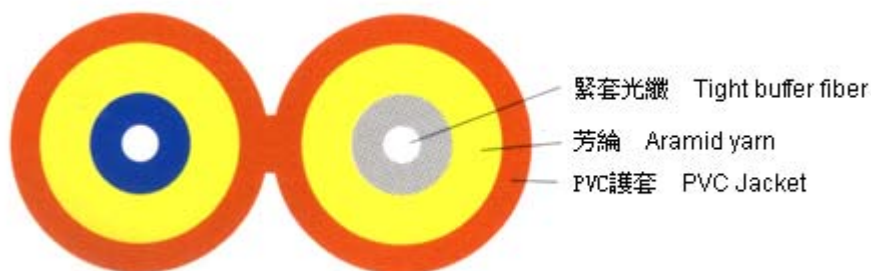
Local Area Networks (LANs) and Wide Area Networks (WANs)
Fiber Optic CATV, FTTH, FTTB, FTTP etc
Fiber Optic telecommunication systems
Transmission Mode (ATM)
Fiber Optic Backbone
Military Instrumentation

Availability:

- The connector can be supplied as a pre-assembled one-piece connector or as connector kits.
- Clips are available for SC and LC duplex connectors
- Housing kits without ferrule are available.
- PC, UPC and APC are available

Specifications		
	Single mode	Multimode
Insert Loss	$\leq 0.20\text{dB}$	$\leq 0.25\text{dB}$
Return Loss	$\geq 50\text{ dB (PC)}$	
	$\geq 55\text{ dB (UPC)}$	
	$\geq 65\text{ dB (APC)}$	
Durability	<0.20 dB typical change, 1000 mating	
Operating Temperature	From -40 to + 80°C	
Ferrule Hole Sizes	125.0+1/-0 μm , Concentricity: $\leq 1.0\mu\text{m}$	125 μm , Concentricity: $1\leq 3\mu\text{m}$
	125.5+1/-0 μm , Concentricity: $\leq 1.0\mu\text{m}$	127 μm , Concentricity: $1\leq 3\mu\text{m}$
	126.0+1/-0 μm , Concentricity: $\leq 1.0\mu\text{m}$	128 μm , Concentricity: $1\leq 3\mu\text{m}$

Cable type:



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Comply with Standard YD/T 1258.3-2003, ICEA-596, GR-409, IEC794, etc; and meet the requirements of UL approval for OFNR and OFNP.

Cable Code:

	ZCC-III	ZCC-II	ZCC-I
Cable Diameter (mm)	$(6.0\pm 0.4)\times(2.8\pm 0.2)$	$(4.2\pm 0.4)\times(2.0\pm 0.2)$	$(3.4\pm 0.4)\times(1.6\pm 0.2)$
Cable Weight (kg/km)	15.6	10.5	7.3
TBF Diameter	$900\pm 50\mu\text{m}$	$900\pm 50\mu\text{m}$	$600\pm 50\mu\text{m}$

Mechanical Characteristics:

Tensile Strength	Long term	100N	100N	
	Short term	200N	200N	
Crush Resistance	Long term	200N/100mm	100N/100mm	
	Short term	1000N/100mm	500N/100mm	
Bending Radius	Dynamic	20×H (Cable Axis)		
	Static	10×H (Cable Axis)		

Optical Characteristics:

		50/125 μm	62.5/125 μm	G.652	G.655
Attenuation(+20°C)	@850nm	$\leq 3.5\text{dB/km}$	$\leq 3.5\text{dB/km}$		
	@1300nm	$\leq 1.5\text{dB/km}$	$\leq 1.5\text{dB/km}$		
	@1310nm			$\leq 0.45\text{dB/km}$	$\leq 0.50\text{dB/km}$
	@1550nm			$\leq 0.30\text{dB/km}$	$\leq 0.50\text{dB/km}$
Bandwidth (Class A)	@850nm	$\geq 500\text{MHz}\cdot\text{km}$	$\geq 200\text{MHz}\cdot\text{km}$		
	@1300nm	$\geq 1000\text{MHz}\cdot\text{km}$	$\geq 600\text{MHz}\cdot\text{km}$		

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Numerical Aperture		0.200±0.015NA	0.275±0.015NA		
Cable Cut-off Wavelength λ_{cc}				≤1260nm	≤1480nm
$\Delta\alpha(-20^{\circ}\text{C}\sim+85^{\circ}\text{C})$ Attenuation at temperature cycling $\Delta\alpha(-20^{\circ}\text{C}\sim+85^{\circ}\text{C})$	@1300nm	≤0.25dB/km	≤0.25dB/km		
	@1550nm			≤0.10dB/km	≤0.15dB/km

Environmental Characteristics:

Transport Temperature	-20°C~+60°C
Storage Temperature	-20°C~+60°C
Installation Temperature	-5°C~+50°C
Operating Temperature	-20°C~+60°C