


SC/APC to SC/APC PATCH CORD, SIMPLEX FLAT DROP CABLE
1. APPLICATION

This specification covers the general requirements for fiber optic patch cord. The cables are high grade simplex cable available LSZH. The patch cords are low insertion loss and high return loss. Good in repeatability and exchangeability. The patch cord shall be factory assembled with high quality control and 100% test. Provide label for easily to identify. The patch cord shall be available length in 3, 5, and 10 meters or other.

LINK fiber optic patch cord support application such as 25/40/50/100/200/400Gbps Ethernet, IEEE802.3ae 10G Ethernet, IEEE802.3z Gigabit Ethernet, IEEE802.3u Fast Ethernet, 52/155/622Mbps, 1.2Gbps ATM, FDDI, Fiber channel, FTTx, CATV, CCTV and others.

LINK fiber optic patch cord in accordance with

ANSI/TIA-568.3-D	ISO/IEC 11801:2017
ANSI/TIA-568-C.3	ISO/IEC 11801:2011 (Ed.2.2)
FOTP EIA/TIA-455	IEC 60793, IEC 60794
ITU-T G.657A1 (Singlemode)	IEC 61300-2, IEC 61300-3
IEC 60332-1	FR-LSZH
RoHS Compliant	

2. ORDER INFORMATION
SC/APC to SC/APC PATCH CORD, SIMPLEX FLAT DROP CABLE

LINK P/N	Description	Length (m)	Packing
UFH966SFS2-03-TCC	SC/APC to SC/APC Patch Cord, Simplex Flat Drop Cable	3	1 Pc / Bag

3. OPTICAL FIBER

Items		Specifications
Fiber Type		G657A1
Max. Attenuation	1310 nm	≤ 0.38 dB/km
	1383 nm	≤ 0.35 dB/km
	1490 nm	≤ 0.30 dB/km
	1550 nm	≤ 0.28 dB/km
	1625 nm	≤ 0.30 dB/km
Core	Mode Field Diameter	$8.6 \pm 0.4 \mu\text{m}$ @ 1310 nm
Cladding Diameter		$125 \pm 1 \mu\text{m}$
Coating Diameter, Primary		$242 \pm 5 \mu\text{m}$
Coating Diameter, Secondary		$250 \pm 5 \mu\text{m}$
Cladding Non-circularity		$\leq 0.1 \%$
Core/Cladding Concentricity error		$\leq 0.5 \mu\text{m}$
Coating/Cladding Concentricity error		$\leq 12 \mu\text{m}$
Zero Dispersion Wavelength		1300 ~ 1324 nm
Zero Dispersion Slope		≤ 0.092 ps/(nm ² .km)
Cut-off Wavelength	λ_o (Fiber)	1150 ~ 1330 nm
	λ_{∞} (Cable)	≤ 1260 nm
Proof Test Stress		100 Kpsi
Chromatic Dispersion	λ ; 1285~1340nm	≤ 3.5 ps/nm.km
	$\lambda = 1550$ nm	≤ 18 ps/nm.km
	$\lambda = 1625$ nm	≤ 22 ps/nm.km
Macro bend Attenuation 10 turns - 15 mm. Radius		≤ 0.25 dB at 1550 nm.

Table 1 The Optical, Geometrical Performance of the Singlemode Fiber (The specification conforms to the requirement of ISO/IEC11801, ANSI/TIA-568-C.3, IEC 60793-2B1.3, ITU-T G.652D)

4. PATCH CORD CONSTRUCTIONS AND MECHANICAL

The construction of the patch cord shall be in accordance with Table 3 below.

Items	Specifications
Ferrule	Zirconia ceramic, Pre-radiused
Boot	Thermoplastic, UL 94V-0,
SC Housing	PBT, Thermoplastic, UL 94V-0
Jacket	FR LSZH
Cable Diameter(Approx.)	Flat Cable : 1.95~2.7 X 2.5~3.0
Strength Member	Metallic
Pulling Force	80 N
Minimum Bending Radius	30 mm.

Table 3 Construction and Mechanical of fiber optic patch cord.

5. PERFORMANCE

Items		SINGLEMODE (G.557A)
Insertion Loss	Typ.	≤ 0.15 dB
	Max.	≤ 0.30 dB
Return Loss	APC	≥ 60 dB

6. TEMPERATURE RANGE

- Operation Temperature : -40°C to 85°C
- Storage/Shipping Temperature : -40°C to 85°C