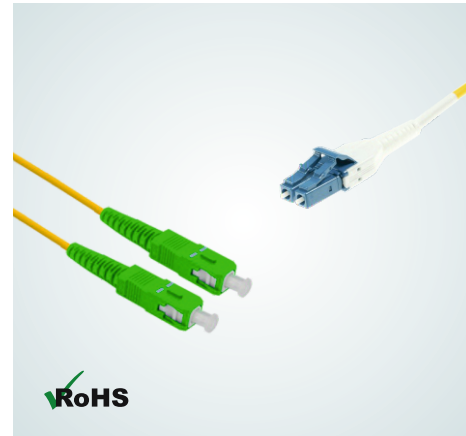


# FIBRE PATCH CORD

They comprise two tight buffer fibres housed within a common outer jacket in OM1, OM2, OM3, OM4, OS1, OS2 multi-mode and single mode variants. Both ends are terminated with a high performance hybrid or single type connector comprising of a SC, ST, FC, LC, Uniboot LC, MTRJ, E2000 connector in simplex and duplex. These are typically not ruggedized, depending on the application and a spring loaded electrical contact housed within LSHF plastic shell possible, making them suitable for internal use.



## COMPLIANCE

Telcordia (formerly Bellcore) GR-326-CORE Generic requirements for Single mode optical connectors and Jumper assemblies.

IEC 874-1 Generic specification for fibre optic connectors and cables

ANSI/TIA-568-C.3, ISO/IEC 11801 2nd Ed., CENELEC EN 50173, UL94V-0

Cable flame resistant rate: OFNR or IEC60332-3 standard

## KEY FEATURES

ST, SC, FC, LC, Uniboot LC MT-RJ, E2000 connectors

Duplex and Simplex versions niform and hybrid cord versions

Position A/Position B markings

100% factory transmission tested per ANSI/TIA-568-C.3

Slim-profile boots with durable flexible cable strain relief

Available in 0.9mm, 1.6mm, 2.0mm , 3.0mm sizes

## MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Range of Mode	Single or Multimode
Cable Type	Simplex or Duplex Zipcord
Connector Style	SC, FC, ST, LC, Uniboot LC, MTRJ, E2000
Polish or Ferrule Interface Type	PC, UPC, APC
Cable Diameter	0.9mm, 1.6mm, 2.0mm, 3.0mm
Lengths	Standard & Custom Lengths
Strength Member	Aramid Yarn
Outer Jacket	PVC or LSZH
Cable Assembly Length (<15 meter Tolerance)	-0/+100mm
Cable Assembly Length (>15 meter Tolerance)	-0/+10%
Jacket Colour (Multimode: OM1 & OM2)	Orange
Jacket Colour (Multimode: OM3 & OM4)	Aqua
Jacket Colour (Single Mode: OS1 & OS2)	Yellow
Durability	500 cycles(0.2 dB max increase), 1000mate/demate cycles
Operating Temp.	-20 °C to +70°C/+85°c (armoured)
Storage Temp.	-40 °C to +85°C
Ferrule Concentricity	< 1µm, Other Ferrule Concentricity < 1µm
Humidity (FOTP-5)	90-95% at 40°C
Strength of Coupling Mechanism (FOTP-185)	33 N at 0° for 5 sec
Cable Retention (FOTP-6)	50 N at 0° for 5 sec.
Twist (FOTP-36)	15 N at 0° 5 turns, 10 cycles
Flex (FOTP-1)	0.5 Kg at 25 cm, +90° to -90°, 100 cycles

# FIBRE PATCH CORD

## OPTICAL CHARACTERISTICS

Fibre Type	Max. Attenuation (dB/km)				Min. Overfill Launch Bandwidth (Mhz•km)		Min. Gigabit Ethernet Link Distance (m)		
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	Gigabit		10Gigabit
							850nm	1300nm	850nm
OM1 62.5/125µm	≤2.7	≤0.6	-	-	≥200	≥600	275	550	-
OM2 50/125µm	≤2.5	≤0.7	-	-	≥500	≥500	550	550	-
OM3 50/125µm	≤2.3	≤0.6	-	-	≥1500	≥500	1000	600	300
OM4 50/125µm	≤2.3	≤0.6	-	-	≥3500	≥500	1000	600	550
OS1 9/125µm	-	-	≤0.34	≤0.20	-	-	-	-	-
OS2 9/125µm	-	-	≤0.34	≤0.24	-	-	-	-	-

## OPTICAL PERFORMANCE DATA

Item	Single mode			Multimode		
	PC	UPC	APC	62.5/125	50/125	50/125 10G
Insert. Loss/connector (single Fibre)	0.2dB Max. (0.15dB typ.)			0.3dB Max. (0.25dB typ.)		
Return Loss	≥ 45 dB	≥ 50 dB	≥ 60 dB	N.A		
Insert. Loss/MTRJ Connector	0.5dB Max. (0.45dB typ.)			0.5dB Max. (0.45dB typ.)		
Pull strength	≥98N	≥98N	≥98N	≥98N		

## TERMINATION SPECIFICATIONS

Geometric Specifications	
Radius of Curvature	7-25 mm
Apex Offset	0-50 µm
Radial Fibre Height	-50 to +50 nm
Angular Offset	<0.3 degrees
Fibre Roughness	0-25 nm
Ferrule Roughness	0-50 nm
End Face Defects	
Fibre Core	0 nm <sup>2</sup>
Mode field diameter	0 nm <sup>2</sup>
Ferrule contact zone	0 nm <sup>2</sup>
Testing & Inspection	100%
Epoxy	
Temperature Coeff .Tg	120
Curing Method	Out Gassed
Residual Epoxy	No Visible Epoxy Ring
Configuration Control	
Serialization	Each Cable is Serialized

# FIBRE PATCH CORD

## SC – UNIBOOT LC FIBRE PATCH CORD

SC-Uniboot LC Singlemode Patch Cord	OS1 (9/125)	OS2 (9/125)
SC/APC -Uniboot LC/UPC 1m Duplex PVC	332-130S1S3U2001	332-130S2S3U2001
SC/APC -Uniboot LC/UPC 2m Duplex PVC	332-130S1S3U2002	332-130S2S3U2002
SC/APC -Uniboot LC/UPC 3m Duplex PVC	332-130S1S3U2003	332-130S2S3U2003
SC/APC -Uniboot LC/UPC 5m Duplex PVC	332-130S1S3U2005	332-130S2S3U2005
SC/APC -Uniboot LC/UPC 10m Duplex PVC	332-130S1S3U2010	332-130S2S3U2010
SC/APC -Uniboot LC/UPC 15m Duplex PVC	332-130S1S3U2015	332-130S2S3U2015
SC/APC -Uniboot LC/UPC 20m Duplex PVC	332-130S1S3U2020	332-130S2S3U2020
SC/APC -Uniboot LC/UPC 25m Duplex PVC	332-130S1S3U2025	332-130S2S3U2025
SC/APC -Uniboot LC/UPC 30m Duplex PVC	332-130S1S3U2030	332-130S2S3U2030
SC/APC -Uniboot LC/UPC 50m Duplex PVC	332-130S1S3U2050	332-130S2S3U2050
SC/APC -Uniboot LC/UPC 1m Duplex LSZH	332-230S1S3U2001	332-230S2S3U2001
SC/APC -Uniboot LC/UPC 2m Duplex LSZH	332-230S1S3U2002	332-230S2S3U2002
SC/APC -Uniboot LC/UPC 3m Duplex LSZH	332-230S1S3U2003	332-230S2S3U2003
SC/APC -Uniboot LC/UPC 5m Duplex LSZH	332-230S1S3U2005	332-230S2S3U2005
SC/APC -Uniboot LC/UPC 10m Duplex LSZH	332-230S1S3U2010	332-230S2S3U2010

SC - Uniboot LC Multimode Patch Cord	OM1 (62.5/125)	OM2 (50/125)	OM3 (50/125)	OM4 (50/125)
SC/APC -Uniboot LC/UPC 1m Duplex PVC	332-130M1S3U2001	332-130M2S3U2001	332-130M3S3U2001	332-130M4S3U2001
SC/APC -Uniboot LC/UPC 2m Duplex PVC	332-130M1S3U2002	332-130M2S3U2002	332-130M3S3U2002	332-130M4S3U2002
SC/APC -Uniboot LC/UPC 3m Duplex PVC	332-130M1S3U2003	332-130M2S3U2003	332-130M3S3U2003	332-130M4S3U2003
SC/APC -Uniboot LC/UPC 5m Duplex PVC	332-130M1S3U2005	332-130M2S3U2005	332-130M3S3U2005	332-130M4S3U2005
SC/APC -Uniboot LC/UPC 10m Duplex PVC	332-130M1S3U2010	332-130M2S3U2010	332-130M3S3U2010	332-130M4S3U2010
SC/APC -Uniboot LC/UPC 15m Duplex PVC	332-130M1S3U2015	332-130M2S3U2015	332-130M3S3U2015	332-130M4S3U2015
SC/APC -Uniboot LC/UPC 20m Duplex PVC	332-130M1S3U2020	332-130M2S3U2020	332-130M3S3U2020	332-130M4S3U2020
SC/APC -Uniboot LC/UPC 25m Duplex PVC	332-130M1S3U2025	332-130M2S3U2025	332-130M3S3U2025	332-130M4S3U2025
SC/APC -Uniboot LC/UPC 30m Duplex PVC	332-130M1S3U2030	332-130M2S3U2030	332-130M3S3U2030	332-130M4S3U2030
SC/APC -Uniboot LC/UPC 50m Duplex PVC	332-130M1S3U2050	332-130M2S3U2050	332-130M3S3U2050	332-130M4S3U2050
SC/APC -Uniboot LC/UPC 1m Duplex LSZH	332-230M1S3U2001	332-230M2S3U2001	332-230M3S3U2001	332-230M4S3U2001
SC/APC -Uniboot LC/UPC 2m Duplex LSZH	332-230M1S3U2002	332-230M2S3U2002	332-230M3S3U2002	332-230M4S3U2002
SC/APC -Uniboot LC/UPC 3m Duplex LSZH	332-230M1S3U2003	332-230M2S3U2003	332-230M3S3U2003	332-230M4S3U2003
SC/APC -Uniboot LC/UPC 5m Duplex LSZH	332-230M1S3U2005	332-230M2S3U2005	332-230M3S3U2005	332-230M4S3U2005
SC/APC -Uniboot LC/UPC 10m Duplex LSZH	332-230M1S3U2010	332-230M2S3U2010	332-230M3S3U2010	332-230M4S3U2010

## ORDERING GUIDE

Patch Cord	Outer Jacket	Cable Dia.	Fibre Type	Connector	Polish	Connector	Polish	Length
331: Simplex	1: PVC	1:0.9mm	OM1	S: SC	1: PC	S: SC	1: PC	1m: 001
332: Duplex	2: LSZH	2:1.6mm	OM2	T: ST	2: UPC	T: ST	2: UPC	2m: 002
	3: PE	3:2.0mm	OM3	F: FC	3: APC	F: FC	3: APC	3m: 003
	4: Arm./PVC	4:3.0mm	OM4	L: LC	4: APC 8°	L: LC	4: APC 8°	5m: 005
	5: Arm./LSZH		OM5	U: Uniboot LC		U: Uniboot LC		10m: 010
			OS1	M: MTRJ		M: MTRJ		15m: 015
			OS2	E: E2000		E: E2000		20m: 020
			7A1 = G657.A1					25m: 025
			7A2 = G657.A2					30m: 030
			7B2 = G657.B2					50m: 050
			7B3 = G657.B3					
			500 = G655					