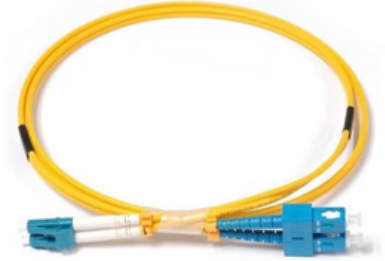
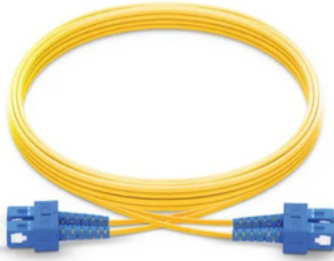


MAIN STRUCTURE



DESCRIPTION:

Insheild offers wide range of patch cords design and manufacturing for demanding LAN and Telecom application. It comprises of singlemode OS1 (9/125um) and OS2. Both ends are terminated with a high-performance hybrid or single type connector comprising of a SC, ST, FC, LC, MTRJ, E2000 connector in simplex and duplex.

FEATURES

- High quality performance and Environmental stability
- 100% factory transmission tested as per ANSI/TIA-568-C.3
- Cable Outer Jackets are available in Riser (OFNR),
- Low Smoke Zero Halogen (LSZH, Plenum (OFNP)).
- Available in Singlemode OS1(9/125) and OS2
- Available fiber cable diameters: 0.9mm, 2.0mm, 3.0mm
- The connectors boot color indicate fiber type and application
- End-face geometry and quality superior than IEC and Telcordia standards.
- Standard color is yellow other color available upon request.
- RoHS and REACH materials compliant.

APPLICATION

- Datacenter applications
- Telecommunication networks
- LAN, MAN and WAN application
- Data processing networks
- CATV - Cable television
- Fiber-To-The-Home (FTTH)
- Premises distribution

STANDARDS

- ANSI/TIA-568-C.3
- ISO/IEC 11801 2nd Ed
- ITU-T G.651D compliant
- EN 50173
- IEC 61754-20

STANDARD COLOR CODE



TECHNICAL SPECIFICATION

Technical Parameters		VALUE/VALUE RANGE				
Connector Types		ST	LC	SC	FC	MTRJ
Insertion Loss (Typical dB)		≤0.3	≤0.3	≤0.3	≤0.3	≤0.3
Return Loss dB	PC	≥40	≥40	≥40	≥40	≥40
	UPC	≥50	≥50	≥50	≥50	≥50
	APC	≥60	≥60	≥60	≥60	≥60
Repeatability		<0.1dB	<0.1dB	<0.1dB	<0.1dB	<0.1dB
Cable type		Simplex or Duplex Zipcord				
Cable jacket characteristics		Cable, metal-free Zero-halogen				
Fiber type		Singlemode (9/125) - OS1/OS2				
Fiber class		IN52D (OS1,OS2), IN55, IN57A1/A2, IN57B2				
Operating Temperature °C		-20 °C to +70°C/+85°c				
Storage Temperature °C		-40 °C to +85°C				
Cable Outer jacket characteristics		Riser (OFNR), Low Smoke Zero Halogen (LSZH), Plenum (OFNP).				
Jacket Color (Single Mode: OS1 & OS2)		Yellow				
Strength Member		Aramid Yarn				
Polishing plug (A)		UPC, PC,APC				
Cable Diameter		0.9mm, 1.6mm, 2.0mm, 3.0mm				
Connector Color		9/125µm Singlemode - PC/UPC- Blue & APC- Green				

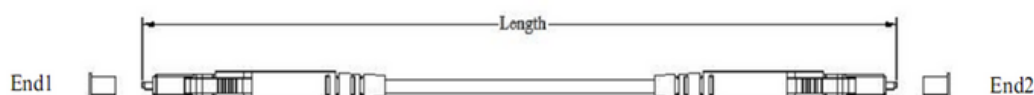
Fiber Type	Max. Attenuation(dB/km)	
Wavelength	1310nm	1550nm
OS1 9/125µm	≤0.34	≤0.20
OS2 9/125µm	≤0.34	≤0.24

ENVIRONMENTAL & MECHANICAL DATA

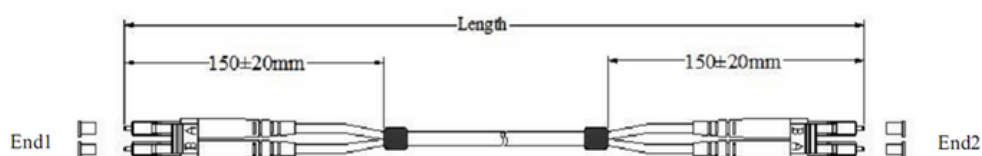
Parameters	Value/Value Range	Conformance
Endurance	500 cycles(0.2 dB max increase), 1000mate/demate cycles	IEC 61300-2-2
Vibration	Frequency: 10 to 55Hz, Amplitude: 0.75mm	IEC 61300-2-1
Cable retention	100N (patch cable)	IEC 61300-2-4
Strength of coupling mechanism	80N for 2 to 3mm cable	IEC 61300-2-6
Cable torsion	15N for 2 to 3mm cable	IEC 61300-2-5
Fall	10 drops, 1m drop height	IEC 61300-2-12
Static lateral load	1N for 1h	IEC 61300-2-42
Cold	-25°C, 96h duration	IEC 61300-2-17
Dry heat	+70°C, 96h duration	IEC 61300-2-18
Change of temperature	-25°C to +70°C, 12 cycles	IEC 61300-2-22
Humidity	+40°C at 93%, 96h duration	IEC 61300-2-19
Operating Temp.	-20 °C to +70°C/+85°C	
Storage Temp.	-40 °C to +85°C	

TECHNICAL DRAWING

1. LC 2.0MM&3.0MM SIMPLEX PATCH CORD



2. LC 2.0MM&3.0MM DUPLEX PATCH CORD



ORDERING INFORMATION

SINGLE MODE PATCH CORDS- LC, SC, FC, ST, MTRJ, E2000.

Cable Type	OS1 (9/125)	OS2 (9/125)
FO Patch Cords LC-UPC TO LC-UPC Singlemode 9/125 Duplex, LSZH, 1M	IN-DX24OS1L2L2001	IN-DX24OS2L2L2001
FO Patch Cords LC-UPC TO LC-UPC Singlemode 9/125 Duplex, LSZH, 2M	IN-DX24OS1L2L2002	IN-DX24OS2L2L2002
FO Patch Cords LC-UPC TO LC-UPC Singlemode 9/125 Duplex, LSZH, 3M	IN-DX24OS1L2L2003	IN-DX24OS2L2L2003
FO Patch Cords LC-UPC TO LC-UPC Singlemode 9/125 Duplex, LSZH, 5M	IN-DX24OS1L2L2005	IN-DX24OS2L2L2005
FO Patch Cords LC-APC TO LC-APC Singlemode 9/125 Simplex, LSZH, 1M	IN-SX24OS1L3L3001	IN-SX24OS2L3L3001
FO Patch Cords LC-APC TO LC-APC Singlemode 9/125 Simplex, LSZH, 2M	IN-SX24OS1L3L3002	IN-SX24OS2L3L3002
FO Patch Cords LC-APC TO LC-APC Singlemode 9/125 Simplex, LSZH, 3M	IN-SX24OS1L3L3003	IN-SX24OS2L3L3003
FO Patch Cords LC-APC TO LC-APC Singlemode 9/125 Simplex, LSZH, 5M	IN-SX24OS1L3L3005	IN-SX24OS2L3L3005
FO Patch Cords LC-APC TO LC-APC Singlemode 9/125 Simplex, LSZH, 10M	IN-SX24OS1L3L3010	IN-SX24OS2L3L3010
FO Patch Cords LC-APC TO SC-APC Singlemode 9/125 Simplex, LSZH, 1M	IN-SX24OS1L3S3001	IN-SX24OS2L3S3001
FO Patch Cords LC-APC TO SC-APC Singlemode 9/125 Simplex, LSZH, 2M	IN-SX24OS1L3S3002	IN-SX24OS2L3S3002
FO Patch Cords LC-APC TO SC-APC Singlemode 9/125 Simplex, LSZH, 3M	IN-SX24OS1L3S3003	IN-SX24OS2L3S3003
FO Patch Cords LC-APC TO SC-APC Singlemode 9/125 Simplex, LSZH, 5M	IN-SX24OS1L3S3005	IN-SX24OS2L3S3005
FO Patch Cords LC-APC TO SC-APC Singlemode 9/125 Simplex, LSZH, 10M	IN-SX24OS1L3S3010	IN-SX24OS2L3S3010
FO Patch Cords SC-APC TO SC-APC Singlemode 9/125 Simplex, LSZH, 1M	IN-SX24OS1S3S3001	IN-SX24OS2S3S3001
FO Patch Cords SC-APC TO SC-APC Singlemode 9/125 Simplex, LSZH, 2M	IN-SX24OS1S3S3002	IN-SX24OS2S3S3002
FO Patch Cords SC-APC TO SC-APC Singlemode 9/125 Simplex, LSZH, 3M	IN-SX24OS1S3S3003	IN-SX24OS2S3S3003
FO Patch Cords SC-APC TO SC-APC Singlemode 9/125 Simplex, LSZH, 5M	IN-SX24OS1S3S3005	IN-SX24OS2S3S3005
FO Patch Cords SC-APC TO SC-APC Singlemode 9/125 Simplex, LSZH, 10M	IN-SX24OS1S3S3010	IN-SX24OS2S3S3010
FO Patch Cords SC-APC TO LC-APC Singlemode 9/125 Simplex, LSZH, 1M	IN-SX24OS1S3L3001	IN-SX24OS2S3L3001
FO Patch Cords SC-APC TO LC-APC Singlemode 9/125 Simplex, LSZH, 2M	IN-SX24OS1S3L3002	IN-SX24OS2S3L3002
FO Patch Cords SC-APC TO LC-APC Singlemode 9/125 Simplex, LSZH, 3M	IN-SX24OS1S3L3003	IN-SX24OS2S3L3003
FO Patch Cords SC-APC TO LC-APC Singlemode 9/125 Simplex, LSZH, 5M	IN-SX24OS1S3L3005	IN-SX24OS2S3L3005
FO Patch Cords SC-APC TO LC-APC Singlemode 9/125 Simplex, LSZH, 10M	IN-SX24OS1S3L3010	IN-SX24OS2S3L3010

ORDERING GUIDE

Make	Patch Cords	Outer Jacket	Cable Dia	Fiber Type	Connector -A	Polish	Connector -B	Polish	Length
Insheild	SX: Simplex	1: PVC	1: 0.9mm	OS1	S: SC	1: PC	S: SC	1: PC	01m: 001
	DX: Duplex	2: LSZH	2: 1.6mm	OS2	T : ST	2: UPC	T : ST	2: UPC	02m: 002
		3: PE	3: 2.0mm		F : FC	3: APC	F : FC	3: APC	03m: 003
			4: 3.0mm		L: LC		L : LC		05m: 005
					M : MTRJ		M : MTRJ		10m: 010
					E : E2000		E : E2000		15m: 015
									20m: 020

