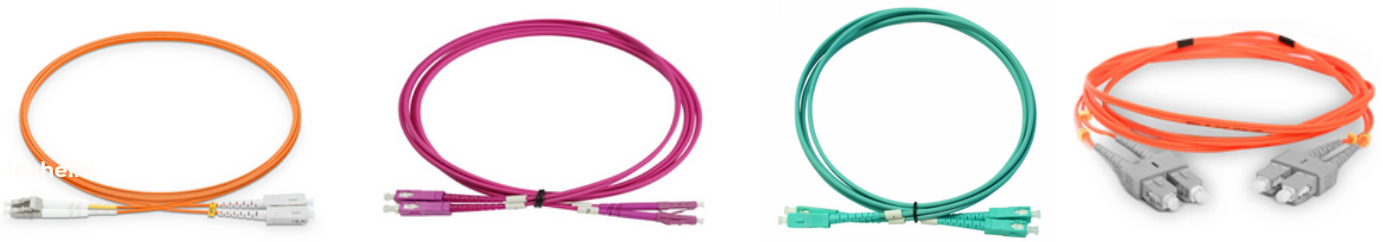


MAIN STRUCTURE



DESCRIPTION

Insheild offers wide range of patch cords design and manufacturing for demanding LAN and Telecom application. It comprises with of Multimode OM1, OM2, OM3 and OM4. 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 Multimode OM2, OM3, OM4
- Available fiber cable diameters: 0.9mm, 2.0mm, 3.0mm
- The connectors boot color indicate fiber type and application
- Standard color is Orange, Aqua, Violet 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
- Premises distribution

STANDARDS

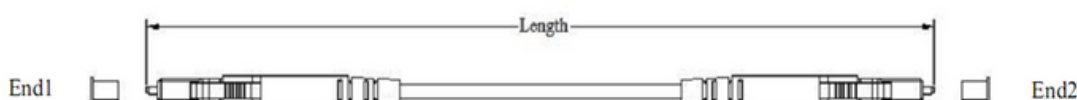
- ANSI/TIA-568-C.3
- ISO/IEC 11801 2nd Ed
- ITU-T G.651D compliant
- EN 50173
- IEC 61754-20

STANDARD COLOR CODE

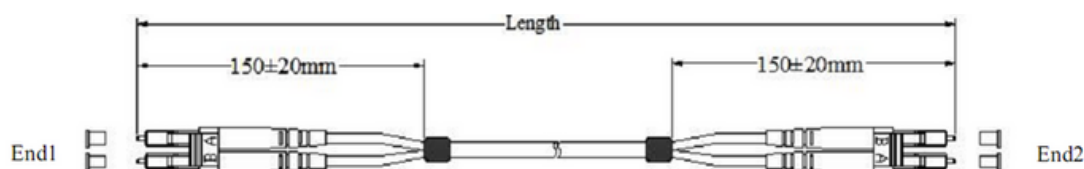


TECHNICAL DRAWING

1. LC 2.0MM&3.0MM SIMPLEX PATCH CORD



2. LC 2.0MM&3.0MM DUPLEX PATCH CORD



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	≥35	≥35	≥35	≥35	≥35
	UPC	≥40	≥40	≥40	≥40	≥40
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		Multimode				
Fiber class		OM1,OM2,OM3,OM4				
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 Colour Multimode		Orange, Aqua, Violet				
Strength Member		Aramid Yarn				
Polishing plug (A)		UPC, PC				
Cable Diameter		0.9mm, 1.6mm, 2.0mm, 3.0mm				
Connector Color		Beige				

Fiber Type	Max. Attenuation(dB/km)	
Wavelength	850nm	1300nm
OM1 62.5/125µm	≤2.7	≤0.6
OM2 50/125µm	≤2.5	≤0.7
OM3 50/125µm	≤2.3	≤0.6
OM4 50/125µm	≤2.3	≤0.6

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	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	

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	OM1	S: SC	1: PC	S: SC	1: PC	01m: 001
	DX: Duplex	2: LSZH	2: 1.6mm	OM2	T : ST	2: UPC	T : ST	2: UPC	02m: 002
		3: PE	3: 2.0mm	OM3	F : FC		F : FC		03m: 003
			4: 3.0mm	OM4	L: LC		L : LC		05m: 005
					M : MTRJ		M : MTRJ		10m: 010
					E : E2000		E : E2000		15m: 015
									20m: 020

ORDERING INFORMATION

MULTIMODE PATCH CORDS- LC, SC, FC, ST, MTRJ, E2000

Cable Type	OM1 (62.5/125)	OM2 (50/125)	OM3 (50/125)	OM4 (50/125)
FO Patch Cords LC-UPC TO LC-UPC Multimode	IN-DX24OM1L2L2001	IN-DX24OM2L2L2001	IN-DX24OM3L2L2001	IN-DX24OM4L2L2001
FO Patch Cords LC-UPC TO LC-UPC Multimode	IN-DX24OM1L2L2002	IN-DX24OM2L2L2002	IN-DX24OM3L2L2002	IN-DX24OM4L2L2002
FO Patch Cords LC-UPC TO LC-UPC Multimode	IN-DX24OM1L2L2003	IN-DX24OM2L2L2003	IN-DX24OM3L2L2003	IN-DX24OM4L2L2003
FO Patch Cords LC-UPC TO LC-UPC Multimode	IN-DX24OM1L2L2005	IN-DX24OM2L2L2005	IN-DX24OM3L2L2005	IN-DX24OM4L2L2005
FO Patch Cords LC-UPC TO LC-UPC Multimode	IN-DX24OM1L2L2010	IN-DX24OM2L2L2010	IN-DX24OM3L2L2010	IN-DX24OM4L2L2010
FO Patch Cords SC-UPC TO SC-UPC Multimode	IN-DX24OM1S2S2001	IN-DX24OM2S2S2001	IN-DX24OM3S2S2001	IN-DX24OM4S2S2001
FO Patch Cords SC-UPC TO SC-UPC Multimode	IN-DX24OM1S2S2002	IN-DX24OM2S2S2002	IN-DX24OM3S2S2002	IN-DX24OM4S2S2002
FO Patch Cords SC-UPC TO SC-UPC Multimode	IN-DX24OM1S2S2003	IN-DX24OM2S2S2003	IN-DX24OM3S2S2003	IN-DX24OM4S2S2003
FO Patch Cords SC-UPC TO SC-UPC Multimode	IN-DX24OM1S2S2005	IN-DX24OM2S2S2005	IN-DX24OM3S2S2005	IN-DX24OM4S2S2005
FO Patch Cords SC-UPC TO SC-UPC Multimode	IN-DX24OM1S2S2010	IN-DX24OM2S2S2010	IN-DX24OM3S2S2010	IN-DX24OM4S2S2010
FO Patch Cords LC-UPC TO SC-UPC Multimode	IN-DX24OM1L2S2001	IN-DX24OM2L2S2001	IN-DX24OM3L2S2001	IN-DX24OM3L2S2001
FO Patch Cords LC-UPC TO SC-UPC Multimode	IN-DX24OM1L2S2002	IN-DX24OM2L2S2002	IN-DX24OM3L2S2002	IN-DX24OM3L2S2002
FO Patch Cords LC-UPC TO SC-UPC Multimode	IN-DX24OM1L2S2003	IN-DX24OM2L2S2003	IN-DX24OM3L2S2003	IN-DX24OM3L2S2003
FO Patch Cords LC-UPC TO SC-UPC Multimode	IN-DX24OM1L2S2005	IN-DX24OM2L2S2005	IN-DX24OM3L2S2005	IN-DX24OM3L2S2005
FO Patch Cords LC-UPC TO SC-UPC Multimode	IN-DX24OM1L2S2010	IN-DX24OM2L2S2010	IN-DX24OM3L2S2010	IN-DX24OM3L2S2010
FO Patch Cords SC-UPC TO SC-UPC Multimode	IN-DX24OM1S2L2001	IN-DX24OM2S2L2001	IN-DX24OM3S2L2001	IN-DX24OM3S2L2001
FO Patch Cords SC-UPC TO SC-UPC Multimode	IN-DX24OM1S2L2002	IN-DX24OM2S2L2002	IN-DX24OM3S2L2002	IN-DX24OM3S2L2002
FO Patch Cords SC-UPC TO SC-UPC Multimode	IN-DX24OM1S2L2003	IN-DX24OM2S2L2003	IN-DX24OM3S2L2003	IN-DX24OM3S2L2003
FO Patch Cords SC-UPC TO SC-UPC Multimode	IN-DX24OM1S2L2005	IN-DX24OM2S2L2005	IN-DX24OM3S2L2005	IN-DX24OM3S2L2005
FO Patch Cords SC-UPC TO SC-UPC Multimode	IN-DX24OM1S2L2010	IN-DX24OM2S2L2010	IN-DX24OM3S2L2010	IN-DX24OM3S2L2010