

Patch Cords & Pigtails

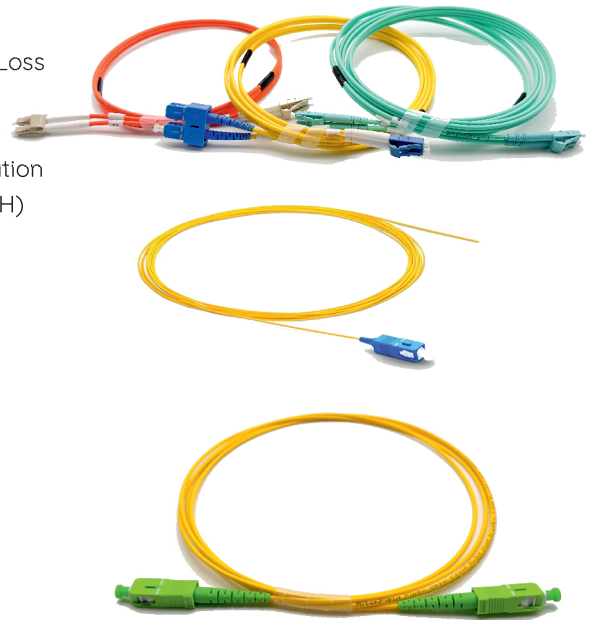
The Ritchfield Patchcord & Pigtails are high-quality, reliable, and versatile fiber optic cable components designed to meet the demanding connectivity needs of modern data centers, telecommunications networks, and various industrial applications. These patchcords and pigtails offer seamless and efficient data transmission, ensuring maximum performance and minimal signal loss.

Application

- Data Centers
- Telecommunication Networks
- LAN (Local Area Network) Connectivity
- Gigabit Ethernet & Beyond
- Broadcasting and Audio-Visual Systems
- CCTV and Security Systems
- Industrial Automation and Control

Key Attributes & Benefits

- High-Quality Construction
- Low Insertion Loss and Return Loss
- Multiple Connector Options
- Wide Range of Fiber Types
- Color-Coded for Easy Identification
- Low Smoke Zero Halogen (LSZH) Jacket
- Plug-and Play Installation
- High Data Transfer Rates
- Wide Operating Temperature Range
- Cost-Effective Solution
- Standard:
 - Telcordia, GR-326-CORE,
 - IEC standards



Specifications

Item	Single	Multimode
Insertion Loss	≤0.2dB	≤0.2dB
Return Loss	UPC≥55dB	UPC≥35dB
Repeatability	≤0.1dB	≤0.1dB
Durability	≤0.2dB typical change 1000 mating	≤0.2dB typical change 1000 mating
Interchangeability	≤0.1dB	≤0.1dB
Tensile Strength	>15kg	>15kg
Operating Temperature	-40°C to +75°C	-40°C to +75°C
Mechanical Vibration	Insertion loss, 0.2db Return loss 60db	Insertion loss, 0.2db Return loss 35db
Thermal cycling (loss variation)	Insertion loss, 0.2db Return loss 60db	Insertion loss, 0.2db Return loss 35db
Impact Resistance	Load 500N for 1.6mm cable, 3 times. Insertion loss, 0.2db Return loss 60db	Load 500N for 1.6mm cable, 3 times. Insertion loss, 0.2db Return loss 35db
Thermal Aging	-40°C to +75°C	-40°C to +75°C
Humidity	+65°C to -10°C humidity 95% RH at maximum temperature, constant temperature 90 hours at limit temperature, 10 cycles	+65°C to -10°C humidity 95% RH at maximum temperature, constant temperature 90 hours at limit temperature, 10 cycles

Optical Characteristics

Attenuation	1310 nm	<0.35	[dB/km]	
	1383 nm (after H ₂ - Aging)	<0.35	[dB/km]	
	1460 nm	<0.25	[dB/km]	
	1490 nm	<0.23	[dB/km]	
	1550 nm	<0.21	[dB/km]	
	1625 nm	<0.23	[dB/km]	
Attenuation vs. Wavelength	1285-1330 nm	<0.03	[dB/km]	
Max. a difference	1525-1575 nm	<0.02	[dB/km]	
Dispersion coefficient	1285 - 1340 nm	>-3.0 < 3.0	[ps/(nm.km)]	
	1550 nm	<18	[ps/(nm.km)]	
	1625 nm	<22	[ps/(nm.km)]	
Zero dispersion wavelength		1300-1324	[nm]	
Zero dispersion slope		<0.090	[ps/(nm ² .km)]	
Typical value		0.086	[ps/(nm ² .km)]	
PMD				
Maximum Individual Fibre		<0.2	[ps/(√km)]	
Typical Value		0.04	[ps/(√km)]	
Link Design value (M=20, Q=0.01%)		<0.1	[ps/(√km)]	
Cable Cutoff wavelength λ_c		<1260	[nm]	
Mode field diameter (MFD)	1310 nm	9.0 ± 0.4	[μm]	
	1550 nm	10.0 ± 0.5	[μm]	
Effective group index of refraction (N _{off})	1310 nm	1.466		
	1550 nm	1.467		
Point Discontinuities	1310 nm	<0.05	[dB]	
	1550 nm	<0.05	[dB]	
Attenuation (dB/km)	850 nm		≤2.3	
	1300 nm		≤0.6	
		MaxBand® - OM2*	MaxBand® - OM2*	
OFL bandwidth (MHz.km)	850 nm	≥700	≥1500	≥3500
	1300 nm	≥500	≥500	≥500
Effective Modal bandwidth @ 850nm (MHz.km)		≥950	≥2000	≥4700
Application support distance on				
10 Gigabit Ethernet SX	850 nm (m)	150	300	550
Gigabit Ethernet SX	850 nm (m)	750	1000	1100
Gigabit Ethernet LX	1300 nm (m)	600	600	600

40 & 100 Gigabit Ethernet	850 nm (m)	100	550
DMD Specification		See note 1	
Numerical Aperture		0.200 ± 0.015	
Group Refractive Index	850 nm	1.482	
	1300 nm	1.477	
Zero Dispersion Wavelength (nm)		1295-1320	
Zero Dispersion Slope (ps/(nm ² .km))	1295 - 1300 nm	≤ 0.001 * (λ ₀ - 1190)	
	1300 - 1320 nm	≤ 0.11	
Macrobending induced loss	850 nm	≤ 0.50	
100 turns @ 30mm radius	1300 nm	≤ 0.50	

RF2A	Product Type		Mode		Connector 1		Connector 2		Cable Type		Length																									
	PC Pigtail	PT Patch Cord	SM	M	FC	LC	SC	ST	E2	FA	LA	SA	TA	EA	MT	ME	MF	XX	3D	2D	3P	2P	0S	3S	2S	3N	2N	FD	ES	LT	1	1.5	2	3	5	10
			09/125 μm Single Mode		FC	LC	SC	ST	E2	FA	LA	SA	TA	EA	MT	ME	MF	XX	2 FIBER 3MM Zipcord Riser	2 FIBER 2MM Zipcord Riser	2 FIBER 3MM Zipcord Plenum	2 FIBER 2MM Zipcord Plenum	Simplex 900 μm	Simplex 3mm Riser	Simplex 2mm Riser	Simplex 3mm Plenum	Simplex 2mm Plenum	Flat Duplex	Easy Strip	Loose Tube	1	1.5	2	3	5	10
			62.5/125 μm Multi Mode OM1		LC	LC	SC	ST	E2	FA	LA	SA	TA	EA	MT	ME	MF	XX	2 FIBER 3MM Zipcord Riser	2 FIBER 2MM Zipcord Riser	2 FIBER 3MM Zipcord Plenum	2 FIBER 2MM Zipcord Plenum	Simplex 900 μm	Simplex 3mm Riser	Simplex 2mm Riser	Simplex 3mm Plenum	Simplex 2mm Plenum	Flat Duplex	Easy Strip	Loose Tube	1	1.5	2	3	5	10
			50/125 μm Multi Mode OM2		SC	SC	SC	ST	E2	FA	LA	SA	TA	EA	MT	ME	MF	XX	2 FIBER 3MM Zipcord Plenum	2 FIBER 2MM Zipcord Plenum	2 FIBER 3MM Zipcord Plenum	2 FIBER 2MM Zipcord Plenum	Simplex 900 μm	Simplex 3mm Riser	Simplex 2mm Riser	Simplex 3mm Plenum	Simplex 2mm Plenum	Flat Duplex	Easy Strip	Loose Tube	1	1.5	2	3	5	10
			50/125 μm Multi Mode OM3		ST	ST	SC	ST	E2	FA	LA	SA	TA	EA	MT	ME	MF	XX	2 FIBER 2MM Zipcord Plenum	2 FIBER 2MM Zipcord Plenum	2 FIBER 3MM Zipcord Plenum	2 FIBER 2MM Zipcord Plenum	Simplex 900 μm	Simplex 3mm Riser	Simplex 2mm Riser	Simplex 3mm Plenum	Simplex 2mm Plenum	Flat Duplex	Easy Strip	Loose Tube	1	1.5	2	3	5	10
			50/125 μm Multi Mode OM4		E2	E2000	SC	ST	E2	FA	LA	SA	TA	EA	MT	ME	MF	XX	2 FIBER 2MM Zipcord Plenum	2 FIBER 2MM Zipcord Plenum	2 FIBER 3MM Zipcord Plenum	2 FIBER 2MM Zipcord Plenum	Simplex 900 μm	Simplex 3mm Riser	Simplex 2mm Riser	Simplex 3mm Plenum	Simplex 2mm Plenum	Flat Duplex	Easy Strip	Loose Tube	1	1.5	2	3	5	10

