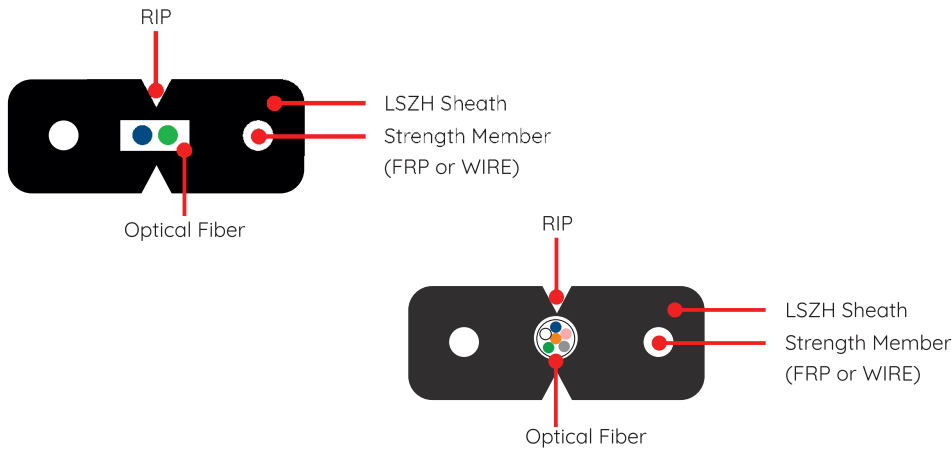


2/4 Core Single Mode Drop Cable – FTTH Indoor

Ritchfield Single Mode FTTH Drop Fibre Cables offer reliable high-speed connectivity for residential and business applications. They ensure seamless performance, easy installation, and durability. Ideal for internet, IPTV, VoIP, cloud services, online gaming, smart homes, remote work, e-learning, and security systems.



Cross-sectional Drawing of cable



Characteristics

Items	Parameter
Core Concentricity Error	≤0.6μm
Cladding Non-Circularity	≤1.0%
Primary Coating Diameter	250±15μm
Coating - Cladding Concentricity Error	≤12.5μ
Cable Weight	8kg/km
Cable Diameter	3.1*2.0MM
Fiber Range	2/4 Core
Fiber Type	G657A, G657B or G652D

Standards

ITU.T G.652D / G.657A/B

IEC 60332-1-2, IEC 60754-1,2 & IEC 61034-2



Specifications

Fibre Style	Conditions	Specified Values	Units
Optical Characteristics ITU-G.657A1			
Attenuation	1310nm	≤0.35	[dB/km]
	1383nm(after H ₂ aging)	≤0.35	[dB/km]
	1460nm	≤0.25	[dB/km]
	1550nm	≤0.21	[dB/km]
	1625nm	≤0.23	[dB/km]
Attenuation vs. Wavelength Max. a Diffeence	1285-1330nm, in reference to 1310nm	≤0.03	[dB/km]
	1525-1575m, in reference to 1550nm	≤0.02	[dB/km]
Dispersion Coefficient	1285-1341nm	-3.5 to 3.5	[ps/nm.km)]
	1550nm	≤18	[ps/nm.km)]
	1625nm	≤22	[ps/nm.km)]
Zero Dispersion Wavelength (λ_0)	--	1300-1324	[nm]
Zero Dispersion Slope (δ_0)	--	≤0.092	[ps/nm. ² km)]
Typical Value	--	0.086	[ps/nm. ² km)]
Maximum Individual Fiber	--	≤0.1	[ps/√km)]
PMD Link Design Value (M=20, Q=0.01%)	--	≤0.06	[ps/√km)]
	Typical Value	--	0.04
Cable Cutoff wavelength (λ_{cc})	--	≤1260	[nm]
Mode Field Diameter (MFD)	1310nm	8.4 - 9.2	[μm]
	1310nm	8.4 - 9.2	[μm]
	1550nm	9.3 - 10.3	[μm]

Geometric Characteristics

Characteristic	Specified Value	Unit
Cladding diameter	125.0 ± 0.7	μm
Cladding Non-circularity	≤0.7	%
Coating diameter	235 - 245	μm
Coating-Cladding concentricity error	≤12.0	μm
Coating Non-circularity	≤6.0	%
Core-Cladding concentricity error	≤0.5	μm
Curl(radius)	≥4	m

Environmental Characteristics

Fiber Style	Conditions	Specified Values	Units
1310nm, 1550nm & 1625nm			
Temperature Dependence Induced Attenuation	-60°C to +85°C	≤0.5	dB/km
Temperature-Humidity Cycling Induced Attenuation	-10°C to +85°C, 98% RH	≤0.5	dB/km
Watersoak Dependence Induced Attenuation	23°C for 30 Days	≤0.5	dB/km
Damp Heat Dependence Induced Attenuation	85°C and 85% RH, for 30 Days	≤0.5	dB/km
Dry Heat Aging	85°C for 30 Days	≤0.5	dB/km

Mechanical Specifications

Fiber Style	Conditions	Specified Values	Units
Proof Test	-	≥9.0	[N]
	-	≥1.0	[%]
	-	≥100	[kpsi]
Macro-bend Induced Loss	10 Turns Around a Mandrel of 15 mm Radius 1550 nm	≤0.25	[dB]
	10 Turns Around a Mandrel of 15 mm Radius 1625 nm	≤1.0	[dB]
	1 Turns Around a Mandrel of 10 mm Radius 1550 nm	≤0.75	[dB]
	1 Turns Around a Mandrel of 10 mm Radius 1625 nm	≤1.5	[dB]
Coating Strip Force	Typical Average Force	1.5	[N]
	peak force	1.3-8.9	[N]
Dynamic Fatigue Parameter (n_d)	-	≥20	-

Color Code of the Fibre

Each fiber can be identifiable throughout the length of the drop wire cable in accordance with the following color sequence (in accordance with EIA/TIA-598-A).

Fiber Colors

No.	1	2	3	4
Color	Blue	Orange	Green	Brown

Technical Parameters

Fibre Count	OD (nm)	Tensile Strength		Crush Resistance (N/100MM)		Bending Radius (nm)	
		Short-Term	Long-Term	Short-Term	Long-Term	Short-Term	Long-Term
2 Core	3.0±0.1*2.0±0.1	200	100	1000	500	20D	15D
4 Core	3.0±0.1*2.0±0.1	200	100	1000	500	20D	15D
Storage/Working temperature(°C)		-20°C - +60°C					

Ordering Information

Part Number	Product Description
RF2-02FTSMIN-LZ	2 Core FTTH Indoor Drop Cable, 09/125um Single mode, LSZH Sheath
RF2-04FTSMIN-LZ	4 Core FTTH Indoor Drop Cable, 09/125um Single mode, LSZH Sheath