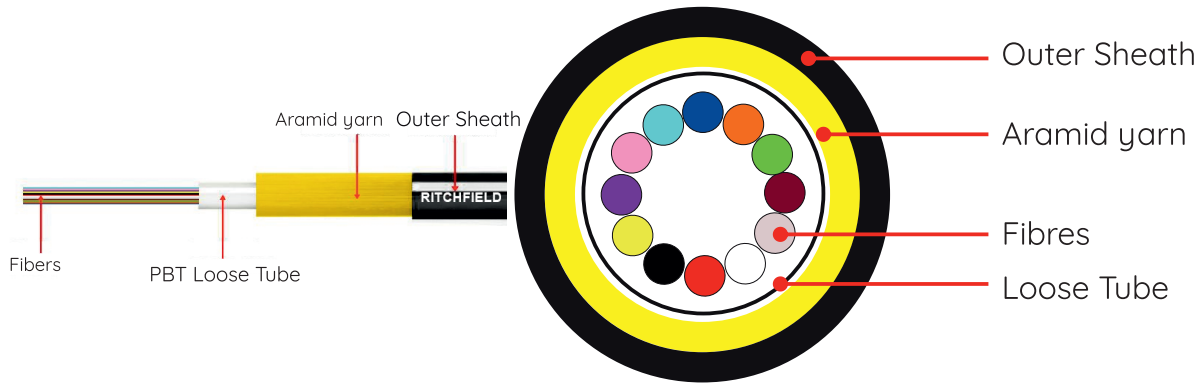


# Central Loose Tube Indoor-Outdoor FO Cable



## Ⓢ Application

- Designed for indoor/outdoor installation
- Can be installed conveniently and operated easily.
- Suitable for telecommunication usage
- FTTx & Telecommunications Networks
- Cable TV and security applications
- Telemetry applications

## Ⓢ Characteristics

- Loose tube jelly filled for superior fiber protection
- Loose Tube construction provides environmental protection
- UV or moisture resistant for outdoor application
- Colored coded fibers and binders for quick and easy identification during installation
- Very lightweight and flexible design allows for easy installation
- High quality outer sheath
- Inner aramid yarn protection
- Fibre core:2-12

## Fiber Colors

No.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Grey	White

No.	7	8	9	10	11	12
Color	Red	Black	Yellow	Voilet	Pink	Aqua

## Cable Specification

Cable Dimension	2-12 crore	8.0 ± 0.3mm
Fiber type	Single mode / Multi Mode	
Outer Sheath	Color : Black Material : LSZH/PE	
Internal reinforcement	Aramid yarn / fiber glass	

## The Properties of Optical Fibre

Fiber Style	Unit	SM	MM 50/125	MM 62.5/125
Condition	nm	1310/1550	850/1300	850/1300
Attenuation	dB/km	≤ 0.36/0.23	≤ 3.0/1.0	≤ 3.0/1.0
Dispersion	1310 nm	Ps/(nm*km)	.....	.....
	1550 nm	Ps/(nm*km)	.....	.....
Bandwidth	850 nm	MHZ.KM	≥ 400	≥ 160
	1300 nm	MHZ.KM	≥ 800	≥ 500
Zero dispersion wavelength	nm	≥1302≤	.....	.....
Zero dispersion slope	nm	≤0.091	.....	.....
PMD Maximum Individual Fiber		≤0.2	.....	.....
PMD Design Link Value	Ps/(nm <sup>2</sup> *km)	≤0.08	.....	.....
Fiber cutoff wavelength λ <sub>c</sub>	nm	≥1180≤	.....	.....
Cable cutoff wavelength λ <sub>cc</sub>	nm	≤1260	.....	.....
MFD	1310 nm	um	9.2 ± 0.4	.....
	1550 nm	um	10.4 ± 0.8	.....
Numerical Aperture(NA)		.....	0.200 ± 0.015	0.275 ±
Step (mean of bidirectional measurement)	dB	≤0.05	≤0.10	≤0.10
Irregularities over fiber length and point discontinuity	dB	≤0.05	≤0.10	≤0.10
Difference backscatter coefficient	dB/km	≤0.03	≤0.08	≤0.10
Attenuation uniformity	dB/km	≤0.01	.....	.....
Core diameter	um		50 ± 1.0	62.5 ± 2.5
Cladding diameter	um	60.0 ± 0.1	60.0 ± 0.1	60.0 ± 0.1
Cladding non-circularity	%	≤1.0	≤1.0	≤1.0
Coating diameter	um	242 ± 7	242 ± 7	242 ± 7
Coating/chaffinch concentrically	um	≤12.0	≤12.0	≤12.0
Coating non circularity error	%	≤6.0	≤6.0	≤6.0
Core/cladding concentricity error	um	≤0.6	≤1.5	≤1.5
Curl(radius)	um	≤4	.....	.....

## Geometric Characteristics

Characteristic	Data	Unit
Cladding roundness	≤ 0.7	%
Cladding diameter	125 ± 1	µm
Coating diameter	242 ± 5	µm
Non-circularity of coating	≤ 5	%
Coating/package concentricity error	≤ 10.0	µm
Core/package concentricity error	≤ 0.6	µm
The warpage (radius)	≥ 4	m

## Environmental Characteristics

Item	Parameter
Crush Resistance	Short Term 1000(N/100mm)
	Long Term 300(N/100mm)
Temperature Range (°C)	Installation -40~+50
	Transport&Storage -40~+60
	Operation -40~+60
Minimum Bending	Short Term 20D mm
	Long Term 10D mm

## Standard Compliance

Telcordia GR-20 | RUS 7 CFR 1755.900 (REA PE-90) | ICEA S 87-640

## Fibre Compliance

Temperature Cycling	IEC60794-1-2-F2
Tensile Strength Crush	IEC60794-1-2-E1A
Impact	IEC60794-1-2-E3
Repeated Bending	IEC60794-1-2-E4
Torsion	IEC60794-1-2-E6
Kink	IEC60794-1-2-E7
Cable Bend	IEC60794-1-2-E10
Cool Bend	IEC60794-1-2-E11

## Ordering Information

Part Number	Product Description
RF2-02CLSMIO-<JT>	2 Core Central Loose tube Indoor / Outdoor Cable, 09/125um Single mode, <Jacket Type>
RF2-04CLSMIO-<JT>	4 Core Central Loose tube Indoor / Outdoor Cable, 09/125um Single mode, <Jacket Type>
RF2-06CLSMIO-<JT>	6 Core Central Loose tube Indoor / Outdoor Cable, 09/125um Single mode, <Jacket Type>
RF2-08CLSMIO-<JT>	8 Core Central Loose tube Indoor / Outdoor Cable, 09/125um Single mode, <Jacket Type>
RF2-012CLSMIO-<JT>	12 Core Central Loose tube Indoor / Outdoor Cable, 09/125um Single mode, <Jacket Type>
RF2-02CLM1IO-<JT>	2 Core Central Loose tube Indoor / Outdoor Cable, 62.5/125um OM1 Multi-Mode, <Jacket Type>
RF2-04CLM1IO-<JT>	4 Core Central Loose tube Indoor / Outdoor Cable, 62.5/125um OM1 Multi-Mode, <Jacket Type>
RF2-06CLM1IO-<JT>	6 Core Central Loose tube Indoor / Outdoor Cable, 62.5/125um OM1 Multi-Mode, <Jacket Type>
RF2-08CLM1IO-<JT>	8 Core Central Loose tube Indoor / Outdoor Cable, 62.5/125um OM1 Multi-Mode, <Jacket Type>
RF2-12CLM1IO-<JT>	12 Core Central Loose tube Indoor / Outdoor Cable, 62.5/125um OM1 Multi-Mode, <Jacket Type>
RF2-02CLM2IO-<JT>	2 Core Central Loose tube Indoor / Outdoor Cable, 50/125um OM2 Multi-Mode, <Jacket Type>
RF2-04CLM2IO-<JT>	4 Core Central Loose tube Indoor / Outdoor Cable, 50/125um OM2 Multi-Mode, <Jacket Type>
RF2-06CLM2IO-<JT>	6 Core Central Loose tube Indoor / Outdoor Cable, 50/125um OM2 Multi-Mode, <Jacket Type>
RF2-08CLM2IO-<JT>	8 Core Central Loose tube Indoor / Outdoor Cable, 50/125um OM2 Multi-Mode, <Jacket Type>
RF2-12CLM2IO-<JT>	12 Core Central Loose tube Indoor / Outdoor Cable, 50/125um OM2 Multi-Mode, <Jacket Type>
RF2-02CLM3IO-<JT>	2 Core Central Loose tube Indoor / Outdoor Cable, 50/125um OM3 Multi-Mode, <Jacket Type>
RF2-04CLM3IO-<JT>	4 Core Central Loose tube Indoor / Outdoor Cable, 50/125um OM3 Multi-Mode, <Jacket Type>
RF2-06CLM3IO-<JT>	6 Core Central Loose tube Indoor / Outdoor Cable, 50/125um OM3 Multi-Mode, <Jacket Type>
RF2-08CLM3IO-<JT>	8 Core Central Loose tube Indoor / Outdoor Cable, 50/125um OM3 Multi-Mode, <Jacket Type>
RF2-12CLM3IO-<JT>	12 Core Central Loose tube Indoor / Outdoor Cable, 50/125um OM3 Multi-Mode, <Jacket Type>
RF2-02CLM4IO-<JT>	2 Core Central Loose tube Indoor / Outdoor Cable, 50/125um OM4 Multi-Mode, <Jacket Type>
RF2-04CLM4IO-<JT>	4 Core Central Loose tube Indoor / Outdoor Cable, 50/125um OM4 Multi-Mode, <Jacket Type>
RF2-06CLM4IO-<JT>	6 Core Central Loose tube Indoor / Outdoor Cable, 50/125um OM4 Multi-Mode, <Jacket Type>
RF2-08CLM4IO-<JT>	8 Core Central Loose tube Indoor / Outdoor Cable, 50/125um OM4 Multi-Mode, <Jacket Type>
RF2-12CLM4IO-<JT>	12 Core Central Loose tube Indoor / Outdoor Cable, 50/125um OM4 Multi-Mode, <Jacket Type>

JT=Jacket Type PV-PVC / LZ-LSZH / PE-PE / FV-FRPVC / FZ-FRLSZH