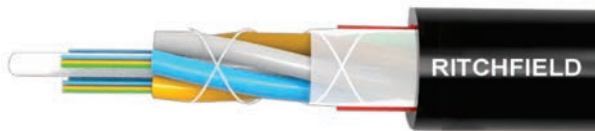
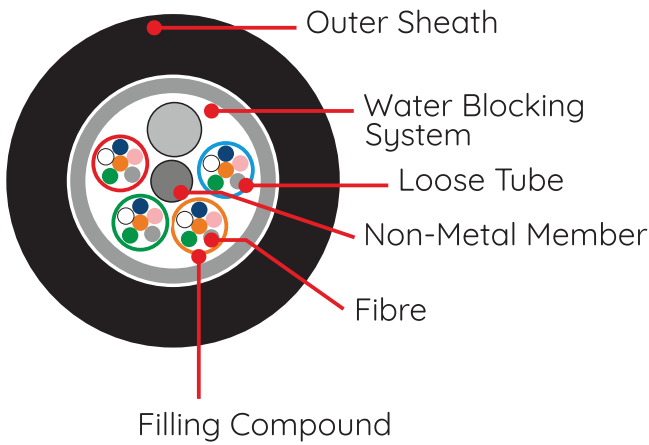


# Dielectric Loose Tube Outdoor Fiber Optic Cable

RitchField Dielectric Loose Outdoor Tube cable use multi-cores fibers in sub-unit. A fiber reinforced plastic(FRP) locates in the center of core as a non-metallic strength member. The sub-units are stranded around the core. The cable is completed with PE jacket.



## Application

- Adopted to Outdoor Distribution
- Adopted to trunk power transmission system
- Access network and local network in high electromagnetic interfering places

## Characteristics

- Non-metal strength member
- Gel-free bare fibers
- Protective loose tube

## Cable Construction

- Fiber Type - Single Mode/ Multi Mode
- Fiber Count - 144
- Tube Count - 12
- Fibers per tube - 12
- Dimension of Loose Tube: 2.5mm
- Dimension of Cable: 15.8±0.2mm

## Fibre 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

## 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)	≤ 18	.....
	1550 nm	Ps/(nm*km)	≤ 22	.....
Bandwidth	850 nm	MHZ.KM	.....	≥ 400
	1300 nm	MHZ.KM	.....	≥ 800
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, ≤133	.....	.....
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	125.0 ± 0.1	125.0 ± 0.1	125.0 ± 0.1
Cladding non-circularity	%	≤1.0	≤1.0	≤1.0
Coating diameter	um	242 ± 7	242 ± 7	242 ± 7
Coating/chaffinch concentricity error	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	.....	.....

## Environmental Characteristics

Item		Parameter
Tensile	Short Term	1500N
	Long Term	500N
Crush Resistance	Short Term	1000N
	Long Term	300N

## Ordering Information

Part Number	Product Description
RF2-144DLSMOD-PE	144 Core Dielectric Loose Tube FO Cable, 09/125um Single mode, Outdoor, PE Jacket
RF2-144DLM1OD-PE	144 Core Dielectric Loose Tube FO Cable, 62.5/125um OM1 Multi-Mode, Outdoor, PE Jacket
RF2-144DLM2OD-PE	144 Core Dielectric Loose Tube FO Cable, 50/125um OM2 Multi-Mode, Outdoor, PE Jacket
RF2-144DLM3OD-PE	144 Core Dielectric Loose Tube FO Cable, 50/125um OM3 Multi-Mode, Outdoor, PE Jacket
RF2-144DLM4OD-PE	144 Core Dielectric Loose Tube FO Cable, 50/125um OM4 Multi-Mode, Outdoor, PE Jacket