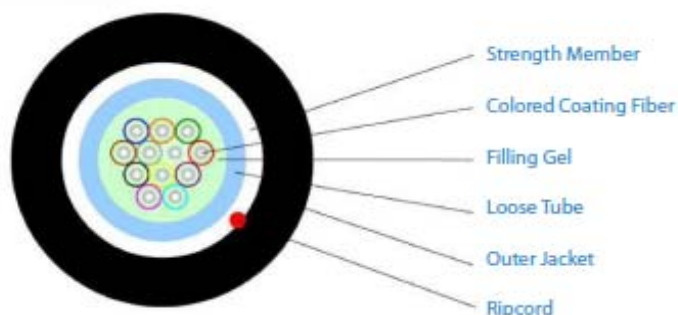




Indoor/Outdoor Loose Tube Fiber Cables

12 Core Loose Tube Indoor/Outdoor SM & MM Non-Armoured Cable

Overview



Forteq 12 Core Indoor/Outdoor Loose Tube, Glass Yarn SM & MM LSHF, Flame Retardant comply to IEC 60332-1-2, Non Armoured, Aqua, PN: IOF012MX-N, IOF012SM-N, IOF012MX-PE-N, IOF012SM-PE-N

Cable Parameters

Items		Specifications
Fiber Count		12
Coloured Coating Fiber	Dimension	250 μ m $\pm$ 15 μ m
	Colour	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Purple, Pink, Aqua
Loose Tube	Dimension	2.0mm $\pm$ 0.1mm
	Material	PBT
	Colour	Neutral
Strength Member	Material	Glass Yarn + Waterproof Yarn
Outer Jacket	Dimension	5.8mm $\pm$ 0.2mm
	Material	PE / LSZH
	Colour	Black

Mechanical and Environmental Characteristics

Items	Unit	Specifications
Tension (Long Term)	N	600
Tension (Short Term)	N	1200
Crush (Long Term)	N/10cn	300
Crush (Short Term)	N/10cn	1000
Min. Bend Radius (Dynamic)	mm	20D
Min. Bend Radius (Static)	mm	10D
Installation Temperature	°C	-20 ~ $\pm$ 60
Operating Temperature	°C	-40 ~ $\pm$ 70
Storage Temperature	°C	-40 ~ $\pm$ 70



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Fiber Parameters

No.	Items		Unit	Specification			
				G.652D	G657A1	G657A2	G657B3
1	Mode Field Diameter	1310nm	μm	9.2±0.4	9.0±0.4	8.8±0.4	8.9±0.4
		1550nm	μm	10.4±0.5	10.1±0.5	9.8±0.5	9.65±0.5
2	Cladding Diameter		μm	124.8±0.7	124.8±0.7	124.8±0.7	124.8±0.7
3	Cladding Non-Circularity		%	≤0.7	≤0.7	≤0.7	≤0.7
4	Core-Cladding Concentricity Error		μm	≤0.5	≤0.5	≤0.5	≤0.5
5	Coating Diameter		μm	245±5	245±5	245±5	245±5
6	Coating Non-Circularity		%	≤6.0	≤6.0	≤6.0	≤6.0
7	Cladding-Coating Concentricity Error		μm	≤12.0	≤12.0	≤12.0	≤12.0
8	Cable Cutoff Wavelength		nm	$\lambda_{cc} \leq 1260$	$\lambda_{cc} \leq 1260$	$\lambda_{cc} \leq 1260$	$\lambda_{cc} \leq 1260$
9	Attenuation (max.)	1310nm	dB/km	≤0.4	≤0.4	≤0.4	≤0.4
		1550nm	dB/km	≤0.3	≤0.3	≤0.3	≤0.3

No.	Items		Unit	Specification			
				OM1	OM2	OM3	OM4
1	Core Diameter		μm	62.5±2.5	50.0±2.5	50.0±2.5	50.0±2.5
2	Cladding Diameter		μm	125.0±1.0	124.8±1.0	125.0±1.0	125.0±1.0
3	Cladding Non-Circularity		%	≤1.0	≤1.0	≤1.0	≤1.0
4	Core-Cladding Concentricity Error		μm	≤1.0	≤1.0	≤1.0	≤1.0
5	Coating Diameter		μm	245±5	245±5	245±5	245±5
6	Coating Non-Circularity		%	≤6.0	≤6.0	≤6.0	≤6.0
7	Cladding-Coating Concentricity Error		μm	≤12.0	≤12.0	≤12.0	≤12.0
8	Bandwidth (min.)	850nm	MHz·km	200	200	1500	3500
		1300nm	MHz·km	500	500	500	500
9	Attenuation (max.)	850nm	dB/km	≤3.0	≤3.0	≤3.0	≤3.0
		1300nm	dB/km	≤1.0	≤1.0	≤1.0	≤1.0