

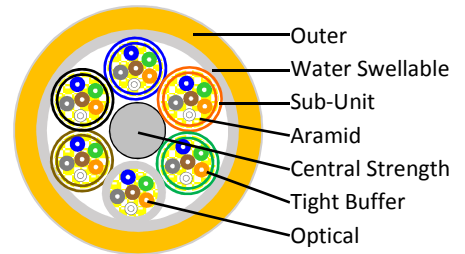


Multi-Unit Indoor Distribution Fiber Optic Cable

48 – 144 Cores

Description

The fibers, either single mode or multimode type, are positioned in a sub-unit jacket, containing water blocking Aramid yarn and 12 fibers. This multi-unit design allow sub-unit to be routed to different area/panel, ease termination and connection. A Fiber Reinforced Plastic (FRP) locates in the center of the core as a non-metallic strength member. Sub-unit are stranded around the strength member into a compact and circular cable core, thus achieving 12-144 fibers. Each fiber is mechanically reinforced with two successive sheaths of 400µm and 900µm which enables direct termination of connectors



Application

This cable is suitable for Indoor Distribution in; Fiber-to-the-desk, backbone, Data Center

Standards

ISO/IEC 11801, IEC-60793-2, ANSI/TIA 568-C.3, ITU G.651.1/G.652.D/G.657.A

Characteristics

- Accurate fiber excess length ensures good mechanical and temperature performance
- Specially designed compact structure is good at preventing loose tube from shrinking
- Crush resistance and flexibility
- Single Fiber Reinforced Plastic (FRP) used as the central strength member
- Excellent strip force stability, fiber geometrical dimension

Cable Properties

Fiber Count	No. of Sub-Unit	No. of Fillers	Cable Diameter, mm	Cable Weight, kg/km
36	6	0	14.5 ±0.5	~ 161
48	4	2	14.8 ±0.5	~ 161
72	6	0	17.5 ±0.5	~ 244
96	8	0	20.7 ±0.5	~ 351
144	12	0	24.8 ±0.5	~ 443

Part Number	Description
306-7MTxxx-a000	SM 9/125 µm Single Mode Multi-Unit Indoor Distribution, PVC Jacket, Yellow
4XG-5MTxxx-a000	OM4 50/125 µm Multimode Multi-Unit Indoor Distribution, PVC Jacket, Violet
3XG-5MTxxx-a000	OM3 50/125 µm Multimode Multi-Unit Indoor Distribution, PVC Jacket, Aqua
306-5MTxxx-a000	OM2 50/125 µm Multimode Multi-Unit Indoor Distribution, PVC Jacket, Orange
306-6MTxxx-a000	OM1 62.5/125 µm Multimode Multi-Unit Indoor Distribution, PVC Jacket, Orange

Note:

Substitute : xxx = Number of fiber core

*-a000, a = production code, subjected to change upon shipping



Fibers Colour

Fiber No.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	Blue	Orange	Green	Brown	Grey	Natural	Red	Black	Yellow	Violet	Pink	Aqua

Sub-Unit Colour

Unit No.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	Blue	Orange	Green	Brown	Grey	Natural	Red	Black	Yellow	Violet	Pink	Aqua

Physical Properties

Tensile Strength, N	Long Term	400
	Short Term	1320
Crush Resistance, N/100 mm	Long Term	500
	Short Term	1000
Bending Radius, mm	Static	10 x Outer Diameter
	Dynamic	20 x Outer Diameter
Operating Temperature	-20 °C to +60 °C	
Storage Temperature	-20 °C to +60 °C	

Optical Properties

		SM G652.D	OM4 50/125 µm	OM3 50/125 µm	OM2 50/125 µm	OM1 62.5/125 µm
Attenuation (+ 20 °C)	@ 850 nm	-	≤ 3.0 dB/km	≤ 3.0 dB/km	≤ 3.0 dB/km	≤ 3.0 dB/km
	@ 1300 nm	-	≤ 1.0 dB/km	≤ 1.0 dB/km	≤ 1.0 dB/km	≤ 1.0 dB/km
	@1310 nm	≤ 0.36 dB/km	-	-	-	-
	@1550 nm	≤ 0.22 dB/km	-	-	-	-
Bandwidth (Class B)	@ 850 nm	-	≥ 3500 MHz-km	≥ 1500 MHz-km	≥ 500 MHz-km	≥ 200 MHz-km
	@ 1300 nm	-	≥ 500 MHz-km	≥ 500 MHz-km	≥ 500 MHz-km	≥ 500 MHz-km
Effective modal bandwidth	@ 850 nm	-	≥4700	≥2000	-	-
Cable Cut-off Wavelength , λ _{cc}	≤ 1260 nm		-	-	-	-
Min bend radius	16mm	30mm	30mm	30mm	30mm	30mm