

Semi Tight Tube 0.9 mm

Design Type I-VH Indoor Cable

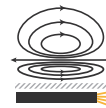
Properties

- Metal free indoor cable
- Jelly free, dry design
- High flexibility and light weight
- Halogen free and non-corrosive fire gases
- Low fire load for high safety requirements



Cable Construction

- | | |
|--------------------------|------------------|
| 1 Fiber | SM or MM (250 μ) |
| 2 Semi Tight Buffer Tube | 900μ LSZH |



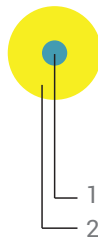
All Dielectric Construction



Compact and Flexible



All Dry Materials



Optical Characteristics and Physical Properties

Fiber Type		SM	OM1	OM2	OM3	OM4
Jacket Color		Yellow	Orange	Orange	Aqua	Violet
Core Diameter (μm)		9.0 ±0.5	62.5 ±2.5	50 ±2.5	50 ±2.5	50 ±2.5
Cladding Diameter (μm)		125 ±5.0	125 ±5.0	125 ±5.0	125 ±5.0	125 ±5.0
Primary Coating Diameter (μm)		245 ±10	245 ±10	245 ±10	245 ±10	245 ±10
Attenuation (max. in cable) (dB/km)	@1310 nm	≤ 0.40	-	-	-	-
	@1550 nm	≤ 0.30	-	-	-	-
	@850 nm	-	≤ 3.4	≤ 3.0	≤ 3.0	≤ 3.0
	@1300 nm	-	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0
Bandwidth (overfilled)	@850 nm	-	200 Mhz*km	500 Mhz*km	1500 Mhz*km	3500 Mhz*km
	@1300 nm	-	500 Mhz*km	500 Mhz*km	500 Mhz*km	500 Mhz*km
Serial Ethernet 1 Gigabit	@850 nm	-	-	-	1000 meters	1040 meters
	@1300 nm	-	-	-	600 meters	600 meters
Serial Ethernet 10 Gigabit	@850 nm	-	-	-	300 meters	550 meters
	@1300 nm	-	-	-	300 meters	300 meters

Mechanical and Environmental Properties

Test	Test Conditions	Value	Unit	Method
Tube Diameter	-	0.9	mm	IIEC 60811-203
Approx. Weight	-	0.8	kg/km	-
Max. Tensile Strength	During installation	20	N	IEC 60794-1-2 E1
	In service	10		
Min. Bending Radius	During installation	25	mm	IEC 60794-1-2 E11
	In service	25		
Crush Resistance	Short term	1000	N/dm	IEC 60794-1-2 E3
	Long term	500		
Impact Resistance	Wp=0.74J	3	impact	IEC 60794-1-2 E4
Kink Resistance	r=5mm		passed	IEC 60794-1-2 E10
Torsion	360°, length=1000mm, F=5N	3	cycles	IEC 60794-1-2 E7
Temperature Range	During installation	-10 to +50	°C	IEC 60794-1-22 F12
	In service	-25 to +75		
	In storage	-40 to +75		

Cable Coding System

I - 01 - SB - 9 - H - A2 - YE

Type	Fiber Count	Cable Type	Diameter	Sheath	Fiber Type	Color
Indoor: I	1 Fiber: 01	Semi Tight: SB	0.9 mm: 9	LSZH: H	SM G.657 A2: A2 SM G.657 B3: B3 MM G.651 OM1: M1 MM G.651 OM2: M2 MM G.651 OM3: M3 MM G.651 OM4: M4	Yellow: YE A2 Yellow: YE B3 Orange: OR M1 Orange: OR M2 Aqua: AQ M3 Violet: VI M4