Mini Breakout Cable up to 24 Fibers

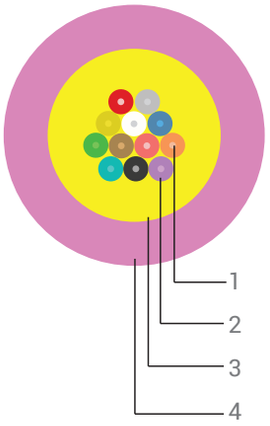
Design Type **IT-V(ZN)H Indoor**

Properties

- Metal free indoor and outdoor cable
- Completely dry design
- For direct connector assembly
- High flexibility and light weight
- Halogen free and non-corrosive fire gases
- Low fire load for high safety requirements

Cable Construction

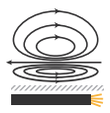
1	**Fiber**	SM or MM (250 µ)
2	**Tight Buffer Tube**	900µ LSZH
3	**Strength Member**	Aramid
4	**Outer Jacket**	LSZH



Perfect for Cord Manufacture

All Dry Materials

Compact and Flexible



All Dielectric Construction

Sheath Marking

Print Color/Method	Black / Ink-Jet	(length marking 1 m intervals)
Cable Printing	Manufacturer name, fiber count, fiber type, product code, cable type, date, meter marking	

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	@1310 nm	≤ 0.40	-	-	-	-
(max. in cable)	@1550 nm	≤ 0.30	-	-	-	-
(dB/km)	@850 nm	-	≤ 3.4	≤ 3.0	≤ 3.0	≤ 3.0
	@1300 nm	-	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0
Bandwidth	@850 nm	-	200 Mhz*km	500 Mhz*km	1500 Mhz*km	3500 Mhz*km
(overfilled)	@1300 nm	-	500 Mhz*km	500 Mhz*km	500 Mhz*km	500 Mhz*km
Serial Ethernet	@850 nm	-	-	-	1000 meters	1040 meters
1 Gigabit	@1300 nm	-	-	-	600 meters	600 meters
Serial Ethernet	@850 nm	-	-	-	300 meters	550 meters
10 Gigabit	@1300 nm	-	-	-	300 meters	300 meters

Mechanical and Environmental Properties

Test	Test Conditions	Type	Value	Unit	Method
Tight Diameter	-	All types	0.9	mm	IEC 60811-203
Approx. Cable Diameter - Weight	-	4 Fibers 6 Fibers 8 Fibers 12 Fibers 24 Fibers	4.6 - 16 5.2 - 20 5.8 - 31 6.5 - 42 8.0 - 55	mm - kg/km	IEC 60811-203
Max. Tensile Strength	During Installation In Service	All types	800 500	N	IEC 60794-1-2 E1
Min. Bending Radius	During Installation In Service	All types	15xD 10xD	mm	IEC 60794-1-2 E11
Crush Resistance	Short Term Long Term	All types	4000 1500	N/dm	IEC 60794-1-2 E3
Impact Resistance	Wp=2.21J	All types	100	Impact	IEC 60794-1-2 E4
Repeated Bending	r=40mm, weight=1kg r=50mm, weight=1kg	4 Fibers 6-24 Fibers	1000 2000	cycles	IEC 60794-1-2 E6
Temperature Range	During installation In service In storage	All types	-10 to +50 -20 to +70 -25 to +70	°C	IEC 60794-1-22 F1

Combustion Properties

Property	Test Conditions	Type	Value	Unit	Result	Method
Fire Load	-	4 FO 6 FO 8 FO 12 FO 24 FO	0.4 0.7 0.9 1.1 1.7	Mj/m	-	-
Fire Propagation	On a vertical single cable	All types	-	-	passed	IEC 60332-1-2
Smoke Density	-	All types	-	-	passed	IEC 61034-2
Halogen Acid Gas	Jacket material	All types	-	-	passed	IEC 60754-1
Degree of Acidity	Jacket material	All types	-	-	passed	IEC 60754-2

Cable Coding System

I - 12 - RI - 65 - T9H - M4 - H - VT

Type	Fiber Count	Cable Type	Diameter	Buffer Type	Fiber Type	Sheath Mat.	Color
Indoor: I	4 Fiber: 04 6 Fiber: 06 8 Fiber: 08 12 Fiber: 12 24 Fiber: 24	Riser: RI	4.6 mm: 46 5.2 mm: 52 5.8 mm: 58 6.5 mm: 65 8.0 mm: 80	S-Tight 900µm: S9H Tight 900µm: T9H	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	LSZH: H	Yellow: YE A2 Yellow: YE B3 Orange: OG M1 Orange: OG M2 Aqua: AQ M3 Violet: VT M4