Breakout Cable up to 24 Fibers

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

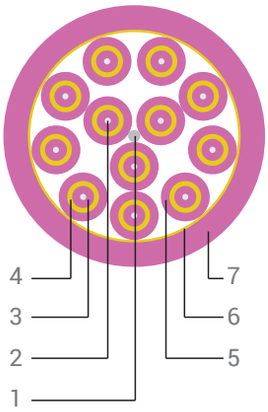
Properties

- Metal free indoor 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
- Jacket material in accordance with UL 94V-0

B2ca CPR

Cable Construction

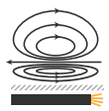
1	**Central Strength Member**	FRP
2	**Fiber**	SM or MM (250 µ)
3	**Semi-Tight Buffer Tube**	900µ LSZH
4	**Strength Member**	Swellable Aramid Yarn
5	**Inner Jacket**	LSZH
6	**Strength Member**	Swellable Aramid Yarn
7	**Outer Jacket**	LSZH - FR, UV Resistant



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
Sub-unit Diameter	-	All types	2.0	mm	-
Approx. Cable Diameter - Weight	-	2F	7.2 - 46	mm - kg/km	-
		4F	7.2 - 48		
		6F	8.5 - 70		
		12F	10.7 - 105		
		24F	14.2 - 195		
Max. Tensile Strength	During installation / In service	2F	1300/600	N	IEC 60794-1-2 E1
		4F	1300/600		
		6F	1800/1000		
		12F	2000/1000		
		24F	3000/1500		
Min. Bending Radius	During installation	All types	15xD	mm	IEC 60794-1-2 E11
	In service		10xD		
Crush Resistance	Short term	All types	7500	N/dm	IEC 60794-1-2 E3
	Long term		2000		
Impact Resistance	Wp=2,21 J	All types	50	impact	IEC 60794-1-2 E4
Water Penetration	L=1m, 24 h, p<1m		passed		IEC 60794-1-2 F5A
Temperature Range	During installation	All types	-10 to +60	°C	IEC 60794-1-22 F12
	In service		-25 to +70		
	In storage		-40 to +70		

Combustion Properties

Property	Test Conditions	Type	Result	Method
Euroclass CPR Level	-	All types	B2ca, s1a, d0, a1	-
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 - B20 - 107 - T9H - M4 - H - H - VT - B2ca

Type	Fiber Count	Cable Type	Diameter	Buffer Type	Fiber Type	Sheath Mat.	Sheath Mat.	Color
Indoor: I	2 Fibers: 02 4 Fibers: 04 6 Fibers: 06 12 Fibers: 12 24 Fibers: 24	Breakout 2mm: B20	7.2 mm: 72 8.5 mm: 85 10.7 mm: 107 14.2 mm: 142	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	LSZH: H	Yellow: YE A2 Yellow: YE B3 Orange: OG M1 Orange: OG M2 Aqua: AQ M3 Violet: VT M4