

Mini Breakout Cable 2 Fibers

Design Type U-V(BN)H Universal 4.8 mm

Properties

- Metal free indoor and outdoor cable
- Completely dry design
- Water swellable glass yarn strength member
- Rodent protected with glass armour
- For direct connector assembly
- For vertical applications
- High flexibility and light weight
- Halogen free and non-corrosive fire gases
- Low fire load for high safety requirements
- LSZH - FR, UV Resistant Outer Jacket

Cable Construction

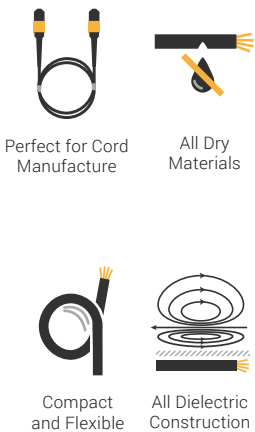
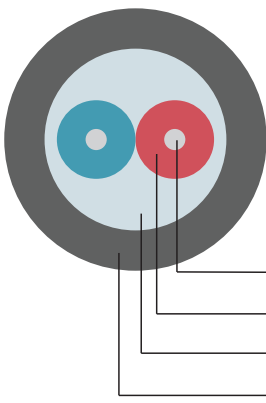
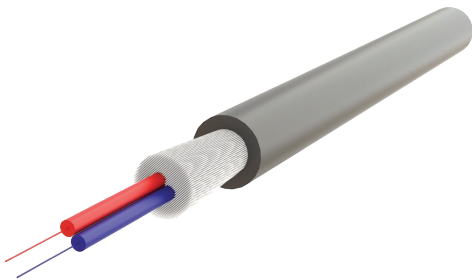
1 Fiber	SM or MM (250 µ)
2 Tight Buffer Tube	900µ LSZH
3 Strength Member	Swellable Glass Yarn
4 Outer Jacket	LSZH - FR, UV Resistant

Sheath Marking

Print Color/Method	White / 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		Black	Black	Black	Black	Black
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	@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	Value	Unit	Method
Tight Diameter	-	0.9	mm	IEC 60811-203
Cable Diameter	-	4.8 ±0.1	mm	IEC 60811-203
Approx. Cable Weight	-	27	kg/km	-
Max. Tensile Strength	During Installation	800	N	IEC 60794-1-2 E1
	In Service	500		
Min. Bending Radius	During Installation	100	mm	IEC 60794-1-2 E11
	In Service	70		
Crush Resistance	ShortTerm	4000	N/dm	IEC 60794-1-2 E3
	LongTerm	1500		
Water Penetration	h=1m, 24 h, l=3m	passed	-	IEC 60794-1-2 F5B
Temperature Range	During installation	-40 to +70		IEC 60794-1-22 F1
	In service	-40 to +75	°C	
	In storage	-40 to +75		

Combustion Properties

Fiber Type	Test Conditions	Value	Unit	Result	Method
Fire Load	-	0.46	Mj/m	-	-
Fire Propagation	On a vertical single cable	-	-	passed	IEC 60332-1-2
Smoke Density	-	-	-	passed	IEC 61034-2
Halogen Acid Gas	Jacket material	-	-	passed	IEC 60754-1
Degree of Acidity	Jacket material	-	-	passed	IEC 60754-2

Cable Coding System

U - 02 - RI - 48 - S9H - M2 - H - BK							
Type	Fiber Count	Cable Type	Diameter	Buffer Type	Fiber Type	Sheath Mat.	Color
Universal: U	2 Fibers: 02	Riser: RI	4.8 mm: 48	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	Black: BK A2 Black: BK B3 Black: BK M1 Black: BK M2 Black: BK M3 Black: BK M4