

Gel-Filled Central Loose Tube Cable up to 24 Fibers

Design Type A-DQ(ZN)B2Y Outdoor

Properties

- Metal free outdoor cable
- Glass yarn strength member
- Ripcord for easy stripping
- Gel filled tube
- Halogen free and non-corrosive fire gases
- Low fire load for high safety requirements
- Longitudinal and transversal watertight cable

Cable Construction

1 Fiber	SM (250 μ)
2 Tube Filling Material	Thixotropic Gel
3 Loose Tube	PBT
4 Strength Member	Swellable Glass Yarn
5 Ripcord	Polyester
6 Outer Jacket	UV Resistant PE

Sheath Marking

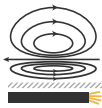
Print Color/Method	White / Ink-Jet	(length marking 1 m intervals)
Cable Printing	Manufacturer name, fiber count, fiber type, product code, cable type, date, meter marking	

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



Water Resistant



All Dielectric Construction



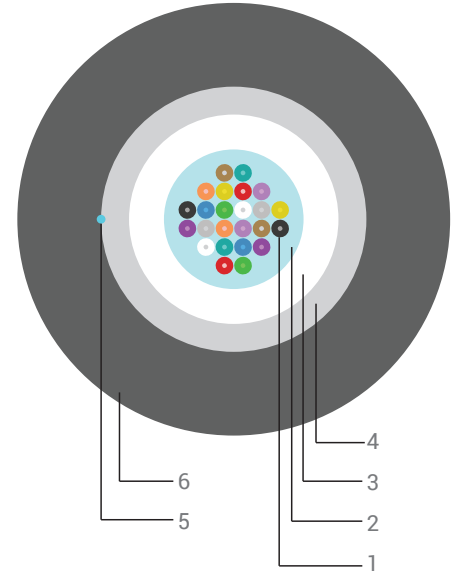
Anti-Rodent



Compact and Flexible



Flame Retardant



Mechanical and Environmental Properties

Test	Test Conditions	Value		Unit	Method
Fiber Count	-	4-12F	24F	-	-
Tube Diameter	-	2.5 ±3%	3.0 ±3%	mm	IEC 60811-203
Approx. Cable Diameter	-	5.1 ±0.2	5.8 ±0.2	mm	IEC 60811-203
Approx. Cable Weight	-	25 ±10%	28 ±10%	kg/km	
Max. Tensile Strength	During Installation (Loaded)	2000		N	IEC 60794-1-2 E1
	In Service (Unloaded)	600			
Min. Bending Radius	During Installation (Loaded), 4 turns x 3 times	25		mm	IEC 60794-1-2 E11
	In Service (Unloaded), 4 turns x 3 times	50			
Crush Resistance	Short Term	2200		N/dm	IEC 60794-1-2 E3
	Long Term	800			
Impact Resistance	Wp=10J r=300mm	3		Impact	IEC 60794-1-2 E4
Repeated Bending	r=20xD	25		cycles	IEC 60794-1-2 E6
Torsion	L=125d	passed		-	IEC 60794-1-21 E7
Water Penetration	h=1m, 48h, p < 3m	passed		-	IEC 60794-1-22 F5B
Temperature Range	During installation	-10 to +50			
	In service	-40 to +70		°C	IEC 60794-1-22 F1
	In storage	-40 to +80			

Cable Coding System

0 - 24 - CLT - 51 - DI - A2 - P - BK

Type	Fiber Count	Cable Type	Diameter	Tube Type	Fiber Type	Sheath Mat.	Color
Outdoor: O	4 Fiber: 04 6 Fiber: 06 8 Fiber: 08 12 Fiber: 12 24 Fiber: 24	Central Loose Tube: CLT	5.1 mm: 51 5.8 mm: 58	Distribution: DI	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	Polyethylene: P	Black: BK A2 Black: BK B3 Black: BK M1 Black: BK M2 Black: BK M3 Black: BK M4