

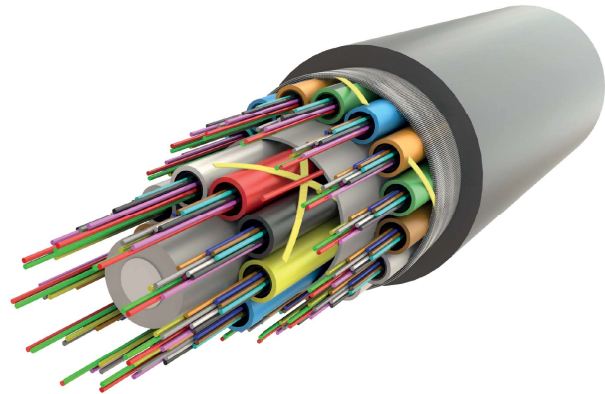
## Multi Loose Tube Non-Metallic Armoured Cable | Up to 288 Fibers

Design Type AT-DQ(ZN)B2Y



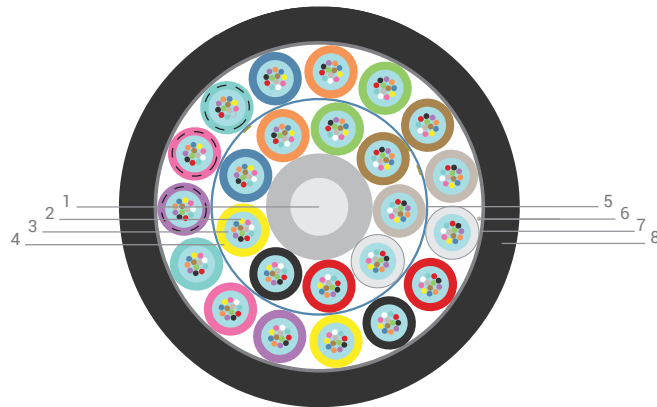
### Properties

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



### Cable Construction

1	Central Strength Member	FRP
2	Fiber	Single-mode or Multi-mode
3	Tube Filling Material	Thixotropic Gel
4	Loose Tube	PBT
5	Water Blocking	Tape & Yarn
6	Ripcord	Polyester
7	Strength Member	Swellable Glass Yarn
8	Outer Jacket	UV Resistant PE



### Identification

Print Color/Method	Black / Ink-Jet	(length marking 1 m intervals)
Sub-Unit Identification	Tube Coloring and Fiber Coloring; According to coloring code (ANSI/TIA-598 )	
Cable Printing	Manufacturer name, fiber count, fiber type, product code, cable type, date, meter marking	

### Optical Characteristics and Physical Properties

Fiber Type	SM	OM2	OM3	OM4
Core Diameter (µm)	9.0 ±0.5	50 ±2.5	50 ±2.5	50 ±2.5
Cladding Diameter (µm)	125 ±5.0	125 ±5.0	125 ±5.0	125 ±5.0
Max. Attenuation (in cable) (dB/km)	≤ 0.40 @1310 nm ≤ 0.30 @1550 nm	≤ 3.0 @850 nm ≤ 1.0 @1300 nm	≤ 3.0 @850 nm ≤ 1.0 @1300 nm	≤ 3.0 @850 nm ≤ 1.0 @1300 nm
Bandwidth (overfilled)	-	500 Mhz*km @850 nm 500 Mhz*km @1300 nm	1500 Mhz*km @850 nm 500 Mhz*km @1300 nm	3500 Mhz*km @850 nm 500 Mhz*km @1300 nm
Serial Ethernet	-	-	1000 meters @850 nm	1040 meters @850 nm
1 Gigabit	-	-	600 meters @1300 nm	600 meters @1300 nm
Serial Ethernet	-	-	300 meters @850 nm	550 meters @850 nm
10 Gigabit	-	-	300 meters @1300 nm	300 meters @1300 nm

## Mechanical and Environmental Properties

Test	Test Conditions	Value				Unit	Method
		2-6 Tubes	8 Tubes	12 Tubes	24 Tubes		
Tube Count	-	2-6 Tubes	8 Tubes	12 Tubes	24 Tubes		
Fiber Count in Each Sub-unit	-	up to 12	up to 12	up to 12	up to 12	-	-
Sub-unit Diameter	-	2.3	2.3	2.3	2.3	mm	IEC 60811-203
Cable Diameter	-	10.4	11.8	15	17.5	mm	IEC 60811-203
Approx. Weight	-	85	110	170	230	kg/km	-
Max. Tensile Strength	During installation	4000	4000	4000	4000	N	IEC 60794-1-2 E1
	In service	2300	2300	2300	2300		
Min. Bending Radius	During installation	150	180	230	250	mm	IEC 60794-1-2 E11
	In service	200	240	300	350		
Crush Resistance	Short term	2200				N/dm	IEC 60794-1-2 E3
	Long term	1100					
Impact Resistance	Wp=10J, R:30cm	3				impact	IEC 60794-1-2 E4
Temperature Range	During installation	-10 to +50				°C	IEC 60794-1-22 F12
	In service	-30 to +70					
	In storage	-40 to +70					

## Combustion Properties

Property	Test Conditions	Result	Method
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

## Packaging

Tube Counts	Reel Capacity	Reel Measurement	Weight
2-6 Tubes	4km	80x120x120cm	370kg
8 Tubes	4km	80x140x140cm	475kg
12 Tubes	4km	80x160x160cm	720kg
24 Tubes	4km	118x160x160cm	1050kg

## Ordering Codes

Codes	Description
AT-DQ(ZN)B2Y-4x...-BK-10.4	MLT, 4 Tubes, Gel-Filled, Dry Core, Non-Metallic Armoured, SJ
AT-DQ(ZN)B2Y-6x...-BK-10.4	MLT, 6 Tubes, Gel-Filled, Dry Core, Non-Metallic Armoured, SJ
AT-DQ(ZN)B2Y-8x...-BK-11.8	MLT, 8 Tubes, Gel-Filled, Dry Core, Non-Metallic Armoured, SJ
AT-DQ(ZN)B2Y-12x...-BK-15.0	MLT, 12 Tubes, Gel-Filled, Dry Core, Non-Metallic Armoured, SJ
AT-DQ(ZN)B2Y-24x...-BK-17.5	MLT, 24 Tubes, Gel-Filled, Dry Core, Non-Metallic Armoured, SJ

\*Each tube fiber capacity is 12

\*Available fiber types are G652.D, G657.A1, G657.A2, G651.OM2, G651.OM3, G651.OM4

\*Sample Code: AT-DQ(ZN)B2Y-4x12-2D-BK-10.4