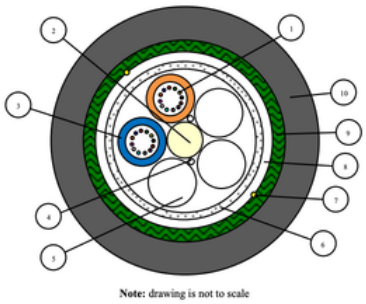
12 Core SM Outdoor Armor Loose Tube FO Cable

OUTDOOR, STEEL TAPE ARMOURED, LOOSE TUBE FO CABLE A-DQ(ZN)(SR)2Y 12(1x12) G50/125



RS461120

Loose tube, outdoor, corrugated steel tape armoured FO cables suitable for drawing or air-blown installation in plastic cable ducts, laying on open or protected trenches or even for direct buried installation in the ground. They are protected against longitudinal moisture penetration through dry, swellable elements. The corrugated steel tape offers the most efficient and flexible protection against rodents.

Highlights

Component	Description
Optical Fiber	Coloured glass fiber
Central Strength Member (CSM)	Dielectric glass fiber reinforced plastic (FRP)
Loose Tube	PBT tube filled with jelly compound
Water Blocking Element	Swellable polyester yarns, longitudinally applied
Filler Elements	Natural polymer compound
Reinforcing Elements	Glass yarn layer with water-blocking coating
Ripcord	Aramid yarn with sufficient tensile strength
Wrapping	Water-blocking tape, longitudinally applied with overlap
Armouring	Corrugated steel tape, PE coated on both sides, longitudinally applied with overlap
Outer Jacket	Black UV-resistant HDPE

Color Coding

Fiber colours per tube											
1	2	3	4	5	6	7	8	9	10	11	12
					white						
Loose tube colours											
1	2	3	4	5	6	7	8	9	10	11	12
					white						
Note: Other fiber and / or tube colour coding can be provided if requested.											

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Technical Data

Parameter	Specification
No. of Fibers	12
No. of Loose Tubes	1
No. of Fibers per Tube	12
No. of Filler Elements	3
Steel Tape Thickness (PE–Steel–PE), Nominal (mm)	0.05 / 0.155 / 0.05
Outer Sheath Thickness, Nominal (mm)	1.5
Cable Overall Diameter, Nominal (mm)	12
Cable Weight, Nominal (kg/km)	130

Parameter	Tested According to	Specified Value	Acceptance Criteria
Tensile Strength (short term – installation)	IEC 60794-1-21 E1	12–48F: 3000 N96F: 4000 N	Δα < 0.05 dB reversible, fiber strain < 0.33%
Crush Resistance (short term)	IEC 60794-1-21 E3	2000 N / 10 cm	Δα < 0.05 dB reversible, no damage
Impact Resistance	IEC 60794-1-21 E4	10 N·m, 3 impacts, R = 30 mm	Δα < 0.05 dB reversible, no damage
Torsion	IEC 60794-1-21 E7	±180°, 5 cycles, 50 N	Δα < 0.05 dB reversible, no damage
Bending (static)	IEC 60794-1-21 E11	R = 15 × D, 5 turns, 3 cycles	Δα < 0.05 dB reversible, no damage
Repeated Bending (dynamic)	IEC 60794-1-21 E6	R = 20 × D, 50 N, 30 cycles	Δα < 0.05 dB reversible, no damage
Temperature Cycling	IEC 60794-1-22 F1	–30°C to +70°C	Δα < 0.05 dB/km
Water Tightness	IEC 60794-1-22 F5B	3 cm cable, 1 m water column, 24 h	No water detected with UV light