

Stranded Loose Tube Non-metallic Strength Member Armored Cable



Part Number

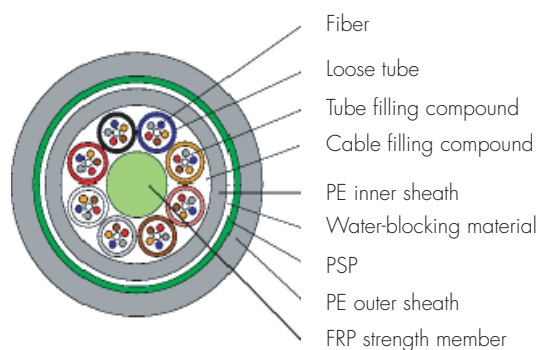
D1-OLTA-NN- Xn

NN: Fiber Number

Xn: Fiber Type (For Example ~06 is 62.5/125 m; 05 is 50/125 m; 09 is 9/125 m)

Description

The fibers, 250 m, are positioned in a loose tube made of a high modulus plastic, The tubes are filled with a water-resistant filling compound. A Fiber Reinforced Plastic (FRP) locates in the center of core as a non-metallic strength member. The tubes (and fillers) are stranded around the strength member into a compact and circular core. Then the cable core is covered with a thin polyethylene (PE) inner sheath, which is filled with jelly to protect it from water ingress. A layer of water-blocking material is applied around the cable core to prevent water ingress. After corrugated steel tape armor is applied, the cable is completed with a PE outer sheath.



Characteristics

- Good mechanical and temperature performance
- High strength loose tube that is hydrolysis resistant
- Special tube filling compound ensure a critical protection of fiber - Crush resistance & flexibility
- The following measures are taken to ensure the cable watertight;
 - * Single Fiber Reinforced Plastic as the central strength member
 - * Loose tube filling compound
 - * 100 % cable core filling
 - * PSP enhancing moisture-proof
 - * Water-blocking material

Optical Characteristic

		G.652	G.655	50/125m μ	62.5/125 m μ
Attenuation (+20° C)	@850nm			≤ 3.0dB/km	≤ 3.0dB/km
	@1300nm			≤ 1.0dB/km	≤ 1.0dB/km
	@1310nm	≤ 0.36dB/km	≤ 0.40dB/km		
	@1550nm	≤ 0.22dB/km	≤ 0.23dB/km		
Bandwidth	@850nm			≥500 MHz.km	≥200 MHz.km
	@1300nm			≥1000 MHz.km	≥600MHz.km

Mechanical Characteristic

Part Number (increased by 2 fibers)	Fiber Count	Tubes	Fillers	Cable Diameter mm	Cable Weight kg/km	Bending Radius Dynamic/Static mm	Tensile Strength Long/Short N	Crush Resistance Long/Short N/100mm
D1-OLTA-4~6-Xn	4~6	1	7	15.6	230	156/312	1000/3000	300/1000
D1-OLTA-8~12-Xn	8~12	2	6	15.6	230	156/312	1000/3000	300/1000
D1-OLTA-14~18-Xn	14~18	3	5	15.6	230	156/312	1000/3000	300/1000
D1-OLTA-20~24-Xn	20~24	4	4	15.6	230	156/312	1000/3000	300/1000
D1-OLTA-26~30-Xn	26~30	5	3	15.6	230	156/312	1000/3000	300/1000
D1-OLTA-32~36-Xn	32~36	6	2	15.6	230	156/312	1000/3000	300/1000
D1-OLTA-38~42-Xn	38~42	7	1	15.6	230	156/312	1000/3000	300/1000
D1-OLTA-44~48-Xn	44~48	8	0	15.6	230	156/312	1000/3000	300/1000

Storage, Transport, Operating Temperature - 20° C ~ + 60° C