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HES HACILAR ELEKTRİK SANAYİ VE TİC.A.Ş.

<http://www.hes.com.tr>

FOSMXXXSLT9903

Technical Specification

Revision/Date: 01/05.12	By İ. Karadağ	Date : 15 May 2012
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Cable Type :Loose Tube, Outdoor Armored F/O Cable
HES Cable Product Number :FOSMXXXSLT9903

PHYSICAL DESCRIPTION

- 4-8-12 fibers armored outdoor fiber optic cable,
- Thixotropic jelly filled loose tube,
- Central loose tube design,
- Swellable glass yarn as strength elements,
- Outer jacket is made of medium density polyethylene,
- Ripcord is inserted for easy jackets removal.

Fiber Type	SM G652 D
Central strength member	No central strength member
Tube material	PBT (Polybutylene Terephthalate)
Color of loose tube	Natural
Color of fibers in per tube	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tube filling compound	Thixotropic jelly
Tape wrap	-
Strength elements	Swellable glass yarns
Ripcord	Aramid cord
Identification tape marking	As a customer request
Inner jacket	No inner jacket
Armor	Corrugated steel tape
Outer jacket	Black MDPE, thickness nominal 1.5±0.1 mm.
Surface marking	As a customer request

Fiber Count	Tube Outer/Inner Diameter (mm)	Cable Diameter (mm)	Cable Weigh (kg/km)
4	3.0/2.0*	9.5*	90*
8	3.0/2.0*	9.5*	90*
12	3.0/2.0*	9.5*	90*

*:Tolerance is ±10%



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Mechanical and Environmental Properties		
Physical tests	Value	Standard
Tensile Strength	1000 N	IEC 60794-1-E1
Impact Resistance	5 impacts	IEC 60794-1-E4
Crush Resistance	220 N/cm	IEC 60794-1-E3
Bend Radius (during installation)	30x cable diameter	IEC 60794-1-E11
Bend Radius (during Service)	15x cable diameter	IEC 60794-1-E11
Operation Temperature	-30 to +70 °C	IEC 60794-1-F1
Reel Marking	As a customer request	
Metal Plate at drum	As a customer request	

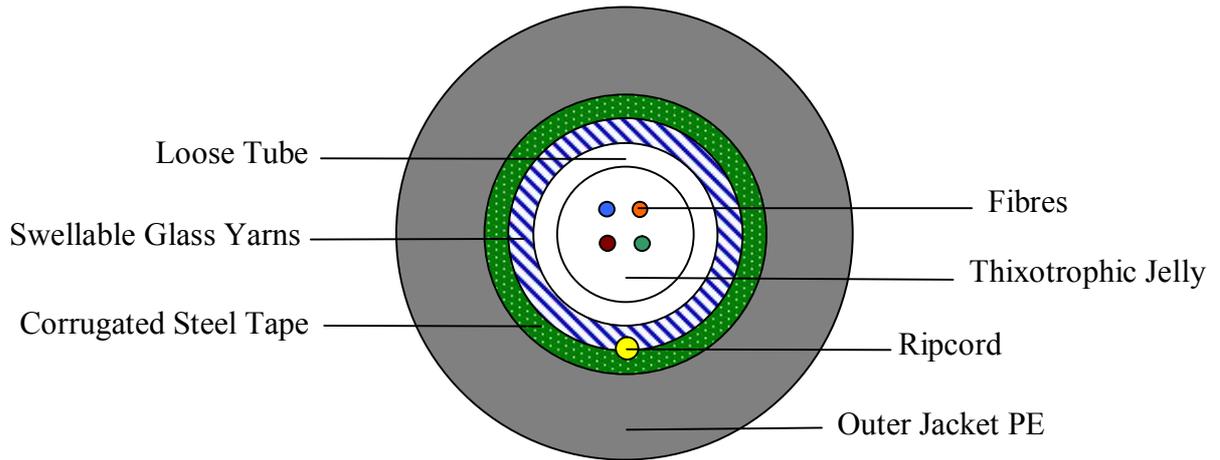
STANDARD SM FIBER ITU-T G 652 D	
PROPERTIES	SPECIFIED VALUES
Attenuation (max)	0.40 dB/km (1310 nm) 0.25 dB/km (1550 nm)
MFD	9.2±0.5 µm
Chromatic Dispersion (max)	3.5 ps/(nmxkm)(1310 nm) 18 ps/(nmxkm)(1550 nm)
Cladding diameter	125± 1µm
Core/Clad Concentricity error (max)	1 µm
Zero dispersion wavelength	1300nm≤ ≤1324nm
Cladding non-circularity (max)	%2
Coating diameter	250±15 µm
Cut Off Wavelength	≤1260nm
Proof Test	8.4 N
Proof Test strain	%1.00

NOTE (If any):

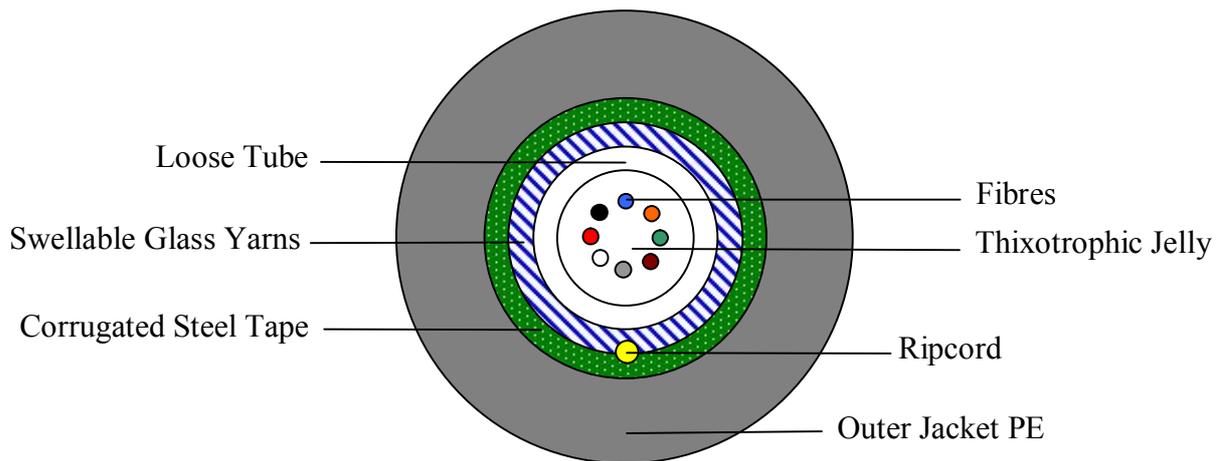


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4 fibers Cable Cross Section



8 fibers Cable Cross Section





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FOSMXXXSLT9903

12 fibers Cable Cross Section

