

Technical Specification

Cable Type : Tight Coated Simplex Indoor F/O Cable

Türksat ürün Kodu : TKS-FOM-56

PHYSICAL DESCRIPTION

- 1 fiber tight coated simplex fiber optic cable,
- Tight is made of halogen free flame retardant compound,
- Aramid yarns as strength elements,
- Outer jacket is made of halogen free flame retardant compound,

Basic Optical Fiber	SM ITU-T G657 B3
Number of fibers	1
Color of fiber	RAL 3020 Red
Tight coating	RAL 9010 White HFFR compound (900µm)
Strength elements	Aramid yarns
Outer jacket	Turquoise HFFR compound, thickness nominal 0.4±0.1 mm
Surface marking	As per customer request
Approx. Overall Diameter *	2.6±0.1mm.

Mechanical and Environmental Properties

Physical tests	Conditions	Standard
Tensile Strength	400 N (during installation) 200 N (during operation)	IEC 60794-1-2 E1
Crush Resistance	400 N/10cm (during installation) 200 N/10cm (during operation)	IEC 60794-1-2 E3
Impact Resistance	3 N R:10mm	IEC 60794-1-2 E4
Repeated Bending	r = 25mm/0.25 kg , 50 cycles r = 30mm/1kg	IEC 60794-1-2 E6
Kink Test	Bending radius = 7.5 mm	IEC 60794-1-2-E10
Temperature Cycling	-30 to +70 °C	IEC 60794-1-2 F1
Fire Resistance	According to IEC 60332-1-2	IEC 60332-1-2
Operation Temperature	-25 to +70 °C	
Storage and Transportation Temperature	-25 to +70 °C	
Installation Temperature	-10 to +60 °C	
Approx.Net weight*	7.8* kg/km	

*:Tolerance is ±10%

SM FIBER ITU-T G 657 B3 Ultra Bend İnsensitive	
PROPERTIES	SPECIFIED VALUES
Attenuation (max)	0.35 dB/km (1310 nm) 0.22 dB/km (1550 nm)
MFD	8.8±0.4 μm (1310 nm)
Cladding diameter	125±0.4μm
Core/Clad Concentricity error (max)	0.5 μm
Cladding non-circularity (max)	% 0.7
Coating diameter	245±5 μm
Cut Off Wavelength	≤1260nm
Macro bending Attenuation : (1 turn on a 5 mm radius mandrel)	≤ 0.15 dB @1550 nm

NOTE (If any):

