

FRC Fibre Optic Cable SHF1
DNV-GL Certified No: TAE00004AX



Application

A highly flame retardant, universal loose tube fibre optic cable for use where resistance to fire is needed for critical systems. This cable can be installed indoors & outdoors where mechanical strength is not required. Marine & offshore approval from DNV (TAC TAE00004AX).

Cable Design

Loose tube	loose tube filled with thixotropic gel
No. of Cores	2, 4, 6, 8, 12, 16 or 24
Fire Barrier	Mica tape wrapped over loose tube
Strength member	Waterblocking E-Glass Yarns
Outer Jacket:	LSZH SHF-1 or SHF-2

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Standards

Applicable Standards:	DNV-GL Certified No: TAE00004AX, IEC 60794-1-21/22, IEC 60794, RoHS 3 2015/863/EU
Flammability Rating:	EN 50267-2-2, IEC 60331-25, IEC 60331 FE 90, IEC 60332-3, IEC 60754-1, IEC 60754-2, IEC 61034-1/2
Installation:	Guidelines as per IEC TR 62691

Performance

Max. Installation Tensile Load :	1500 N max.
Max. Residual Tension (MRS) :	900 N max.
Impact Resistance:	10 N*m
Impact Resistance:	3 cycles
Max. Crush Resistance:	400 N/cm
Min. Bend Radius for Installation:	20xD mm
Min. Bend Radius for Operation:	10xD mm
Repeated Bending:	25 cycles
Torsion (L= 125 x d):	10 cycles
Drip Test:	80 °C
Max. Operating Temperature:	+70 °C
Min. Operating Temperature:	-40 °C
Max. Installation Temperature:	+50 °C
Min. Installation Temperature:	-10 °C
Max. Storage Temperature:	+70 °C
Min. Storage Temperature:	-40 °C
UV Resistance:	Yes
Waterblocking:	Yes

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Specification

Part Number	N° of Fibres	Tube Diameter [mm]	Cable Diameter [mm nom.]	Weight [kg/km]
AMO-02*-FRC***	2	2,1	6,50	55
AMO-04*-FRC***	4	2,1	6,50	55
AMO-06*-FRC***	6	2,1	6,50	55
AMO-08*-FRC***	8	2,1	6,50	55
AMO-12*-FRC***	12	2,1	6,50	55
AMO-16*-FRC***	16	2,1	6,50	55
AMO-24*-FRC***	24	2,1	6,50	55

* denotes fibre type required : OM1=62.5/125 OM1 | OM2 = 50/125 OM2 | OM3 = 50/125 OM3 | OM4 = 50/125 OM4 | SMF = 9/125

*** denotes outer jacket type : ZF1 (SHF1) or ZF2 (SHF2)

e.g. 24 core single mode 9/125 with SHF1 type jacket = AMO-24SMF-FRCZF1