



AFCI Fire SHF1

Tight buffer
Fire resistant
Armoured
SHF1, UV
DNV

Application

Robust, tight buffered and armoured cable for direct connection to terminal equipments. The cable is flexible, has a small outer diameter, and an excellent mechanical resistance and rodent protection. For ship-, offshore and ground use. The cable is Fire resistant (IEC 60331-25), operational up to 830°C, 180 min. if exposed to fire.



Construction Fiber

Fibertype	OM1, OM2, OM3, OM4, OM5 or OS2
Fiber tube	Tight buffer
Strength member	Reinforced fibreglass yarns (WB)
Inner jacket	SHF1
Fire resistant barrier	Mica tape
Armour	Galvanized steel wire braid (GSWB) alternatives: Tinned Cu wire braid (TCWB) Bronze wire braid (BWB)
Outer Jacket	Black SHF1 UV-resistant
Diameter	See table
Weight	See table

Specifications fiber

Temperature range	-40 – +90 [°C]
Temperature range flexible	-20 – +60 [°C]
Temperaturerange at inst.	-40 – +90 [°C]
Crush resistance	1500 [N/10cm] (IEC 60794-1-21 E3)
Impact resistance	2 [J] (IEC 60794-1-21 E4)
Torsion	20 cycles, 4 cores @ 45 [N]
Cable bend	Mandrel 5 turn, 3 cycles, T: -40°C
Bending radius flexible	20 [x outer diam.]
Bending radius installed	12.5 [x outer diam.]



Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1 & IEC 60754-2
Flame resistance	IEC 60332-3-22
Flame retardant	IEC 60332-1-2
Fire resistant	IEC 60331-25 (Up to 830°C, 180 min.)
Smoke emission	IEC 61034-1 & IEC 61034-2
UV-resistant	ISO 4892-2-A: 720hours
DoP No.:	DOP02300

No. of fibres	Tens. load installed [N]	Outer diam. [mm]	Weight [kg/km]
2	1000	9.4 ± 0.5	100
4	1000	9.7 ± 0.5	104
6	1200	9.9 ± 0.5	116
8	1200	11.1 ± 0.5	142
12	1500	11.9 ± 0.5	167

Updated

Date	Rev.	Description
10.03.2025	1	Additional info