



AIAI Fire SHF1

Tight buffer
Fire resistant
Armoured, dielectric
SHF1, UV

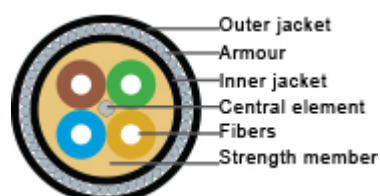
Application

Tough universal fibercable for indoor and outdoor use in offshore as well as onshore applications. The cable is rodent resistant and can be buried directly in the ground as well as in ducts. The cable is totally dielectric and fire resistant. Fire resistant; operational up to 830°C, 180 min. if exposed to fire



Construction Fiber

Tight buffer fiber	2 - 12
Central element	GRP : ≤ 4 fibers: no ≥ 6 fibers: yes
Waterblock	Reinforced fiberglass yarns
Colorcode fiber	TIA 598
Inner jacket	LSZH compound
Armour	Fibreglass braid
Outer Jacket	Black SHF1



Specifications fiber

Temperature range	-40 – +70 [°C] (IEC 60794-1-22 F1)
Crush resistance	1500 [N/10cm] (IEC 60794-1-21 E3)
Bending radius	20 [x outer diam] (IEC 60794-1-21 E11)



Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1 & IEC 60754-2
Flame resistance	IEC 60332-3
Flame retardant	IEC 60332-1
Fire resistant	IEC 60331-25 (180 min: 830°C)
Smoke emission	IEC 61034-2
UV-resistant	ISO 4892-2-A: 720hours
CPR classification	Dca-s2,d1,a1
DoP No.:	DOP02302

No. fibres	Tensile load perm / inst [N]	Outer diam. [mm]	Weight [kg/km]
2	1000	9.4 ± 0.3	96
4	1000	9.7 ± 0.3	101
6	1200	9.9 ± 0.3	107
8	1200	11.1 ± 0.3	138
12	1500	11.9 ± 0.3	161

Updated

Date	Rev.	Description
10.03.2025	1	Additional info