



AIAI Breakout A

Breakoutcable

2 - 12 single fiber members

Aramid protection (armour)

SHF1, UV

DNV

Application

The separate fibers are tight buffered with aramid yarn and jacketed with blue numbered LSZH material. An inner common jacket is protected by a layer of aramid yarn which protects the fibers against mechanical and heat impact, as well as rodent attacks. It is designed for safe communication and data transmission in shipboard- and offshore installations close to electrical machinery and power lines. It is also well suited for harsh industrial environments.



Construction Fiber

Fiber tube	Tight buffer aramid yarn Ø = 2 mm blue numbered
Assembling	Assembled in concentric layer with syntetic tape around a FRP central membe
Inner jacket	Black LSZH compound
Armour	Aramid yarn , double layer
Jacket	Black SHF1 UV-resistant
Diameter	See table
Weight	See table

Specifications fiber

Fiber type	Single mode 9/125, Multimode 50/125 or 62,5/125
Temperature range	-40 – +70 [°C]
Temperaturerange at inst.	-10 - +70 [°C]
Tensile strength	2000 [N] (Δα reversible) IEC 60794-1-2-E1
Crush resistance	4000 [N/10cm] (Δα reversible) IEC 60794-1-2-E3
Impact resistance	10 [J] (Δα reversible) IEC 60794-1-2-E4
Torsion	± 1 turns/m to IEC 60794-1-2E11
Bending radius flexible	15 [x outer diam.]
Bending radius installed	10 [x outer diam.]



Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1 & IEC 60754-2
Flame resistance	IEC 60332-3-22 Cat.A
Flame retardant	IEC 60332-1-2
Weather resistant	IEC 60794-1-2
Smoke emission	IEC 61034-1 & IEC 61034-2
UV-resistant	ISO 4892-2-A: 720hours
Certification	DNV

NEK Breacoutcable is also available with Steel wire armour, AIAI Breakout Armoured or without armour, AIAI Breakout.



Number of fibre	Nom.thickness [mm]	Nom.diameter [mm]	Weight [kg/km]
2	1.0	8.3 ± 0.3	70
4	1.0	8.3 ± 0.3	70
6	1.0	9.2 ± 0.3	90
8	1.0	11.2 ± 0.3	127
12	1.2	13.5 ± 0.3	194

Updated

Date	Rev.	Description
24.04.2018	1	Construction
April 2019	2	Additional technical information
16.12.2024	3	Additional information
01.09.2026	4	Adjusting weight and outer diam.