

AIAI Breakout S

Breakoutcable

4 - 24 single fiber members

Galvanized steel wire braid

SHF1

DNV

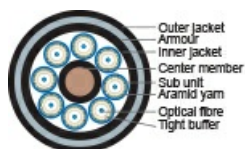
Application

The separate fibers are tight buffered with aramid yarn and jacketed with numbered LSZH material. An inner jacket and a galvanized steel wire braid represent a further common protection for the fibers. AIAI Breakout S is designed for 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 $\varnothing = 2$ mm, blue, numbered
Assembling	Assembled in concentric layer with syntetic tape around a central member
Inner jacket	Black LSZH compound
Armour	Galvanized steel wire braid $\geq 85\%$ optical cover
Jacket	Black SHF1 UV-resistant
Diameter	See table
Weight	See table
Jacket marking	AIAI breakout armoured - FIBER OPTIC CABLE - [Fibre type and no. of fibres] - IEC 60332-3-22 - Lot No + meter marking



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	1500 [N] ($\Delta\alpha$ reversible) IEC 60794-1-2-E1
Crush resistance	5000 [N/10cm] ($\Delta\alpha$ reversible) IEC 60794-1-2-E3
Impact resistance	5 [J] ($\Delta\alpha$ reversible) IEC 60794-1-2-E4
Torsion	± 1 turns/m acc. to IEC 60794-1-2E11
Bending radius	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
Certification	DNV



An alternative to steel wire armour is aramide yarn protection, AIAI Breakout A, or AIAI Breakout, which has no extra protection.

Number of fibre	Diam. inner jacket [mm]	Diam. outer jacket [mm]	Weight [kg/km]
4	7	11	180
6	8	12	200
8	8.5	13.5	230
12	12	16	300
16	11.5	15.5	290
24	14.5	19.0	450

Updated

Date	Rev.	Description
23.04.2018	1	Construction
April 2019	2	Additional technical information