



AIAI BREAKOUT fiber optic cable, SHF1, Fire Retardant IEC60332-3-24 Cat.C



Store at: -40 to +70 °C

Install at: -10 to +50 °C, **Bend minimum:** 15 times O.D.

Operate at: -40 to +70 °C, **Bend minimum:** 10 times O.D.

Crush maximum: 1000N/100mm

Impact maximum: 5J

Design

Bare fiber : 250µm

Buffer : 900µm tight

Colour code : white

Protection : aramide yarns

Inner sheath : blue LSZH material, nominal diameter 2.0mm, each numbered for identification

Cable core : up to 24 tight buffered fibers are stranded together around a central member and wrapped by a synthetic tape.

Outer jacket : blue SHF1 UV-Resistant material, nominal thickness 1.0mm

Marking : APS Finland ww/mm - AIAI Breakout - FIBER OPTIC CABLE [Fibre type and No of fibres] - IEC 60332-3-24 - Lot No + meter marking [A]

Environmental properties and Fire Performances

Degree of acidity of gases : IEC 60754-1, IEC 60754-2 (pH value $\geq 4,3$ and Conductivity $\leq 10\mu S/mm$)

Halogen acid gas : IEC 60754-1, IEC 60754-2 (Halogen acid gas emission $\leq 0.5\%$)

Smoke Emission : IEC 61034-2, EN 50268-2 (Transmittance) $\geq 60\%$

Toxicity of evolved gas : EN 50305 9.2

Flame retardant : IEC 60332-1-2

Fire retardant : IEC 60332-3-24 Cat.C

Oil resistant : intermittent splash – permanent resistance available upon request

UV resistant : IEC60811-2-1, ASTM-D-2565-92A

Features

Fiber count	Inner jacket thickness (mm)	Inner jacket outer diameter (mm)	Outer jacket thickness (mm)	Cable Outer Diameter (mm)	Cable weight (kg/km)	Pulling tension (N)
4	0,5	2,0	1,0	6,8	45	500
6	0,5	2,0	1,0	8,8	60	1000
8	0,5	2,0	1,0	9,8	90	1500
12	0,5	2,0	1,0	12,0	150	2000
16	0,5	2,0	1,0	12,6	165	3000
24	0,5	2,0	1,0	15,0	210	4000

Ordering and delivery information

Fiber count	P/N	Packaging
4	OAIAIB04 ff 1	drum 2000m (+/-5%)
6	OAIAIB06 ff 1	drum 2000m (+/-5%)
8	OAIAIB08 ff 1	drum 2000m (+/-5%)
12	OAIAIB12 ff 1	drum 2000m (+/-5%)
16	OAIAIB16 ff 1	drum 2000m (+/-5%)
24	OAIAIB24 ff 1	drum 2000m (+/-5%)

ff = S2 for G652D, A1 for G657A1, M1 for OM1, ME for OM1+, M2 for OM2, M3 for OM3, M4 for OM4, M5 for OM5.

Other standards of reference

IEC 60092-370	Electrical installations in ships: Guidance on the selection of cables for telecommunication and data.
DNV TAP 827.50/1	Type Approval Program - Optical Fibre Cables
ABS SVR	Rules for building and classing. Steel Vessels.
ABS SMR	Rules for building and classing. Steel vessels under 90 meters.
IEC 60793	General specifications for both multimode and single-mode optical fibres
IEC 60794	general specifications for optical fibres cables

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