



Fiber Optic Cables

ALPA®

Armoured ALPA® Optical Cable

Indoor and outdoor, flame retardant, LSZH or PVC, loose tube, Armored SWA (Steel wires Armor), SWB (Steel wires Braid) or CST (Corrugated Steel Tape).

APPLICATION

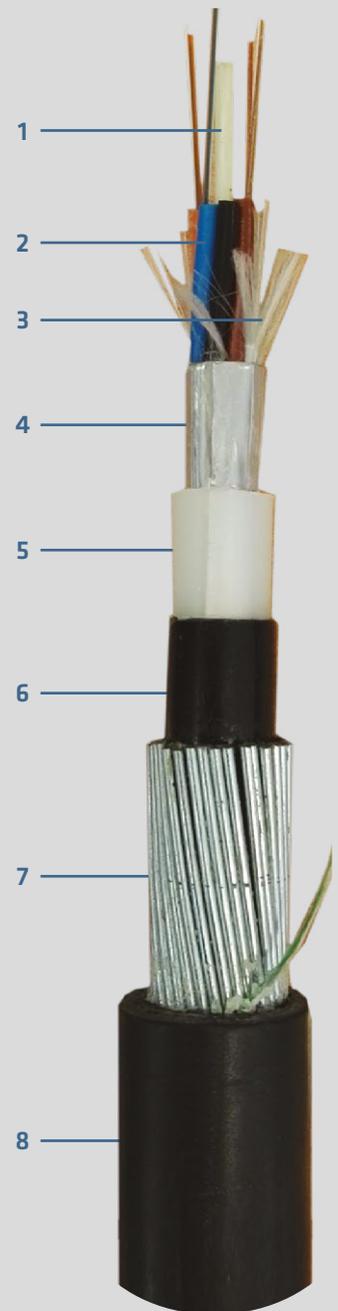
The cable is specially designed for harsh environments. The internationally known multilayer inner sheath ALPA® construction: Aluminium/HDPE/PA (nylon) withstands aggressive constituents and fluids, providing huge benefits for installing Fiber optic in OGP environments.

STANDARDS & APPROVALS

- IEC/EN 60794** Optical Fibre Cables (test procedures)
- IEC 60794-1-2-E1** Optical Fibre Cables (test procedures)
Tensile Performance
- IEC 60794-1-2-E3** Optical Fibre Cables (test procedures)
Abrasion
- IEC 60794-1-2-E4** Optical Fibre Cables (test procedures)
Crush
- IEC 60794-1-2-E7** Optical Fibre Cables (test procedures)
Torsion
- IEC 60794-1-2-E11** Bend
- IEC 60332-1** Flame Retardance
- IEC 60332-3** Fire retardance
- IEC 60811** Electrical and optical fibre cables - Test methods for materials
- IEC 60754-1 & 60754-2** Halogen free properties
- IEC 61034-1 & 61034-2** Smoke emission properties
- IEC 60794-1-2-F5B** Water penetration
- IEC 60068-2-5** Solar radiation

DESIGN & CONSTRUCTION

- 1 CENTRAL STRENGTH MEMBER**
Glass fibre reinforced plastic (FRP)
- 2 FIBER**
Multimode or singlemode fibers colored per TIA/EIA 598
Fibers are protected in gel-filled loose tubes stranded around a central strength member to ensure optimum performance and long life
- 3 SUBUNIT STRENGTH MEMBER**
Aramid yarn, waterblocking elements (dry core)
- 4 MOISTURE BARRIER**
Aluminium copolymer tape longitudinally folded
- 5 SUBUNIT JACKET**
Inner sheath HPDE jacket
- 6 JACKET**
Polyamide jacket
- 7 ARMOR**
Armored SWA (Steel wires Armour), SWB (Steel wires Braid) or CST (Corrugated Steel Tape)
- 8 SHEATH**
Afumex® Low smoke, zero halogen, Flame Retardant and Heat & Oil and UV Resistant. Or PVC flame retardant, and Heat & Oil and UV resistant





Oil & Gas - Cable Solutions

Pipelines & LNG - Onshore

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PERFORMANCES/RATINGS

FIRE BEHAVIOUR



IEC 60332-1
IEC 60332-3

CHEMICAL RESISTANCE



VERY GOOD

IMPACTS



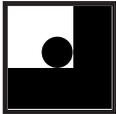
GOOD

SMOKE DENSITY, CORROSIVITY AND TOXICITY



LOW EMISSION

INSTALLATION METHOD



Above Ground

INSTALLATION METHOD



Directly buried installation

LEAD



Lead Free

QUALITY & TESTING

Prysmian has a built-in multi-step quality assurance program, covering the production process from cable design and raw material purchases to final inspection and testing documentation.

The ISO 9001 quality system of Prysmian Group (together with ISO 14001 and OHSAS 18001) has been assessed, approved and is currently audited by SGS.

This product information sheet is provided for reference only. Please consult the factory or your representative to confirm all engineering information or refer to the related catalogues available in the local countries website.

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Prysmian
Group



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TECHNICAL DATA

NUMBER OF FIBRES	CONSTRUCTION	OUTER DIAMETER (mm)	WEIGHT (kg/km)	TENSILE STRENGTH*
2	1x2	18,0	510	7000
4	1x4	18,0	510	7000
12	1x12	18,0	510	7000
24	2x12	18,0	510	7000
30	5x6	18,0	510	7000
36	3x12	18,0	510	7000
48	4x12	18,0	510	7000
60	5x12	18,0	510	7000
64	5x12+1x4	18,0	510	7000
72	6x12	18,0	510	7000
96	8x12	19,6	590	7000
144	12x12	23,4	850	7000

COLOUR CODE

TUBE	COLOUR	FIBRE	COLOUR
1	Blue	1	Blue
2	Orange	2	Orange
3	Green	3	Green
4	Brown	4	Brown
5	Slate	5	Slate
6	White	6	White
7	Red	7	Red
8	Black	8	Black
9	Yellow	9	Yellow
10	Violet	10	Violet
11	Pink	11	Pink
12	Aqua	12	Aqua

The outer standard sheath is black color. Other colors available.

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