



Oil & Gas - Cable Solutions

Refineries & Petrochemical - Onshore

Fiber Optic Cables

ALPA®

Armoured ALPA® Optical Cable

Indoor and outdoor, flame retardant, LSZH or PVC, loose tube, Armored SWA (Steel wires Armour), 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

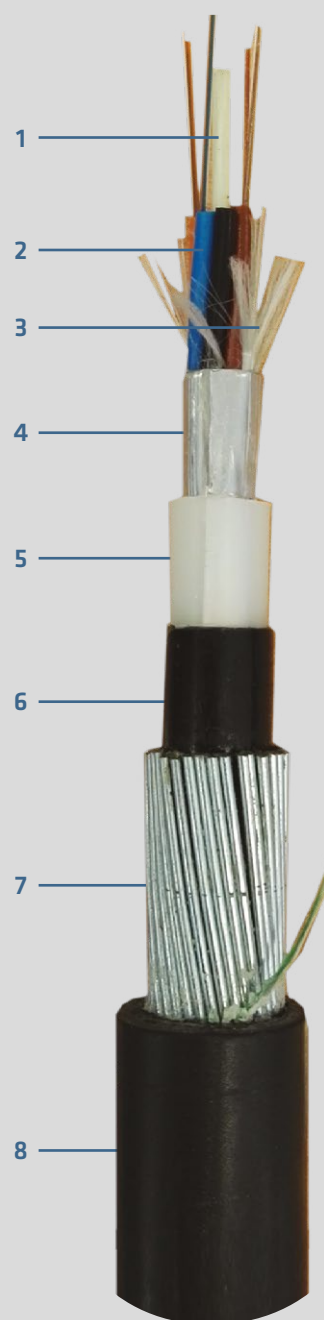
Polyamide jacket

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



CONTACT INFO:

prysmianoilandgas@prysmiangroup.com
www.prysmiangroup.com/contact-us

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Group



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PERFORMANCES/RATINGS

FIRE
BEHAVIOUR



IEC 60332-1
IEC 60332-3

CHEMICAL
RESISTANCE



VERY GOOD

IMPACTS



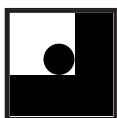
GOOD

SMOKE DENSITY,
CORROSIVITY
AND TOXICITY



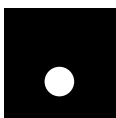
LOW EMISSION

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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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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