



Oil & Gas - Cable Solutions

Refineries & Petrochemical - Onshore

Fiber Optic Cables

Headrow™

Headrow™ heavy duty cables

Fully configurable cable for O&G applications and/or subaqua.

APPLICATION

Headrow™ guarantees the strength and durability needed for the most extreme conditions like aggressive chemical compounds of Oil and Gas industries, subaqua environments or downhole applications.

STANDARDS & APPROVALS

IEC/EN 60794 Optical Fibre Cables (test procedures)

IEC 60794-1-2-E1 Tensile Performance

IEC 60794-1-2-E3 Abrasion

IEC 60794-1-2-E7 Torsion

IEC 60794-1-2-E11 Bend

IEC 60794-1-2-F1 Temperature Cycling

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 60794-1-2-F5B Water penetration

DESIGN & CONSTRUCTION

1 CENTRAL STRENGTH MEMBER

Glass fibre reinforced plastic (FRP) (Multitube) or Monotube

2 FIBER

Multimode or singlemode fibers colored per TIA/EIA 598

Fibers are protected in gel-filled PBC loose tubes or in a laser welded hermetically sealed stainless steel tube to ensure optimum performance and long life

SUBUNIT STRENGTH MEMBER

Aramid yarn, stainless steel tube

MOISTURE BARRIER

Waterblocking elements (dry core) or Extruded aluminum tube (optional)

SUBUNIT JACKET

Inner sheath HPDE jacket or flame retardant LSZH compound

3 JACKET

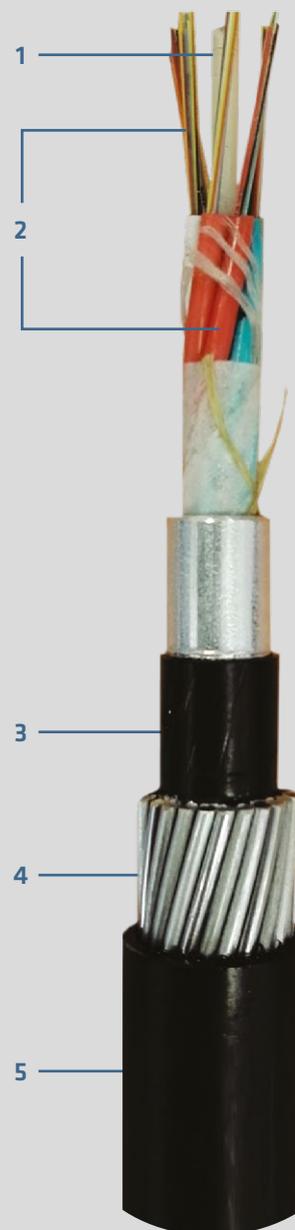
Flame Retardant, heat & oil resistant PVC

4 ARMOR

None, Simple or double Steel wire armor (SWA) with/without bitumen, Corrugated Steel Tape (combination of different armors is possible)

5 SHEATH

Different materials and colours as per project necessities



CONTACT INFO:

prysmianoilandgas@prysmiangroup.com

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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



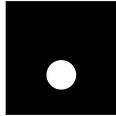
LOW EMISSION

INSTALLATION METHOD



Above Ground

INSTALLATION METHOD



Directly buried installation

LEAD



Lead Free

SUBAQUA



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	TENSILE STRENGTH	CRUSH
2	Up to 200 kN	12250 N/10cm
4	Up to 200 kN	12250 N/10cm
12	Up to 200 kN	12250 N/10cm
24	Up to 200 kN	12250 N/10cm
30	Up to 200 kN	12250 N/10cm
36	Up to 200 kN	12250 N/10cm
48	Up to 200 kN	12250 N/10cm
60	Up to 200 kN	12250 N/10cm
64	Up to 200 kN	12250 N/10cm
72	Up to 200 kN	12250 N/10cm
96	Up to 200 kN	12250 N/10cm
144	Up to 200 kN	12250 N/10cm

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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