



## Oil & Gas - Cable Solutions

### Pipelines & LNG - Onshore

# Fiber Optic Cables

## Headrow™

### Headrow™ heavy duty cables

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

#### APPLICATION

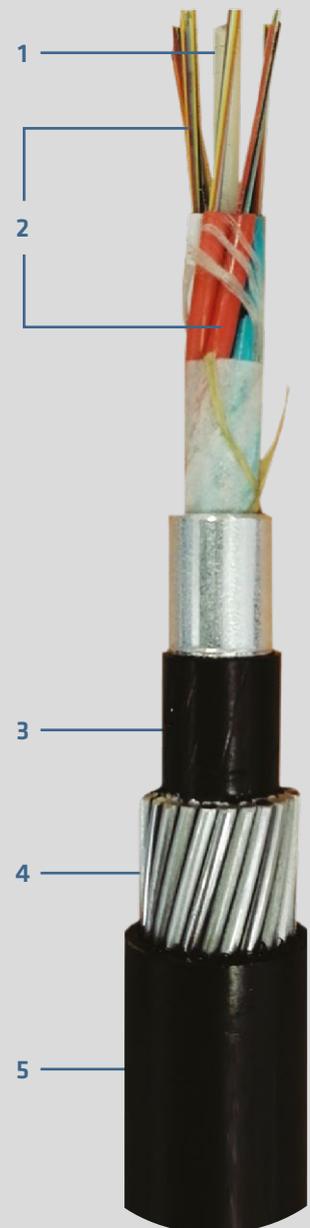
Headrow™ guarantees the strength and durability needed for the most extreme conditions like aggressive chemical compounds of Oil and Gas industries, subaqua environments or downhole applications.

#### 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

- CENTRAL STRENGTH MEMBER**  
Glass fibre reinforced plastic (FRP) (Multitube) or Monotube
- 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
- JACKET**  
Flame Retardant, heat & oil resistant PVC
- ARMOR**  
None, Simple or double Steel wire armor (SWA) with/without bitumen, Corrugated Steel Tape (combination of different armors is possible)
- SHEATH**  
Different materials and colours as per project necessities





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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



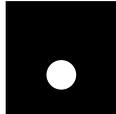
LOW EMISSION

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.

CONTACT INFO:  
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**Prysmian**  
Group



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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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