

Oil & Gas - Cable Solutions

Exploration & Production - Offshore

Fiber Optic Cables

AICI-I/O/RM-W

Armoured and Flame retardant optical fibre cable, AICI - code F104 NEK TS 606:2016 (available also in MUD protected version).

Indoor and outdoor. Flame Retardant halogen free. Loose Tube.

APPLICATION

Optical cable for industrial environments.

The cable is suitable for both indoor and outdoor installation. The outer sheath is made from black UV-stabilized and weather resistant material which is SHF1 classified, and may be exposed for shorter periods to fluids such as diesel and mineral oils. The resistance to these fluids is according to IEC60811-404. The cable is reinforced with a steel wire braiding between the two sheaths.

Strength elements of glass yarn around the cable core allow easy installation of long

lengths. The 0.9 mm tight buffer is easy to strip allowing fast and reliable splicing and connector mounting. Each fibre is colour coded for easy identification. The outer sheath is marked to show fibre type and cable type.

Also available in Mud Resitant version: in this case, an additional outer sheath is added to improve protection.

STANDARDS & APPROVALS

IEC/EN 60794 Optical Fibre Cables (test procedures)

IEC 60794-1-21-E1 Tensile Performance

IEC 60794-1-21-E3 Abrasion

IEC 60794-1-21-E4 Crush IEC 60794-1-21-E7 Torsion

IEC 60794-1-21-E8 Flexing

IEC 60794-1-2-E11 Bend

IEC 60794-1-21-F1 Temperature Cycling

IEC 60794-1-21-F5B Water penetration

IEC 60332-1 Flame Retardance

IEC 60332-3-22 or 24 Fire retardance

IEC 60811-404 Electrical and optical fibre cables -Test methods for materials - Test in oil

NEK 606:2016 Design guidelines for Mud Resistant cables for offshore installations

IEC 60754-1 & 60754-2 - Halogen free properties **IEC 61034-1 & 61034-2** Smoke emission properties

Det Norske Veritas (DNV)

DESIGN & CONSTRUCTION

SECONDARY COATED FIBRE

Tight buffered fibers (0,9mm)

WATER SWELLABLE MATERIAL

For longitudinal watertightness of the cable core

GLASS YARN

Tensile strength elements

INNER JACKET

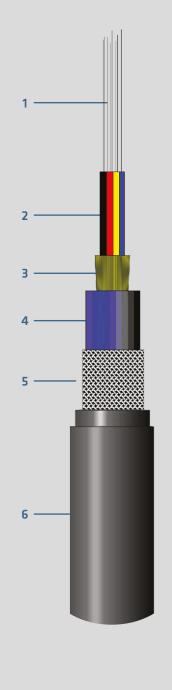
Inner LSHF sheath

ARMOURING

Galvanized steel wire braid (GSWB)

SHEATH

SHF1





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PERFORMANCES/RATINGS





CHEMICAL RESISTANCE



IMPACTS







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

Weight and dimensions

F104 type

NUMBER OF FIBRES	SECONDARY COATING (mm)	OUTER DIAMETER (mm)	WEIGHT (kg/km)	TENSILE STRENGTH* [Inst./oper.] (N)
4	0,9	9.0	98	700/250
8	0,9	9.8	132	800/350
12	0,9	10.7	150	1200/500
24	0,9	12.5	202	1700/750

MUD Protected version

NUMBER OF FIBRES	SECONDARY COATING (mm)	OUTER DIAMETER (mm)	WEIGHT (kg/km)	TENSILE STRENGTH* [inst./oper.] (N)	
4	0,9	11.0	140	700/250	
8	0,9	11.8	177	800/350	
12	0,9	12.7	200	1200/500	
24	0,9	14.5	250	1700/750	

FIBRE NO.	С	OLOUR	FIBRE NO.	COLO	UR	FIBRE NO.	COLOUR
1	White		9	Violet		17	Blue + marker
2	Red		10	Turquise		18	Grey + marker
3	Yellow		11	Orange		19	Brown + marker
4	Green		12	Pink		20	Light Blue + marker
5	Blue		13	White + marker		21	Violet + marker
6	Grey		14	Red + marker		22	Turquise + marker
7	Brown		15	Yellow + marker		23	Orange + marker
8	Black		16	Green + marker		24	Pink + marker

Standard colour of outer sheath is black.

We reserve the right to alter this specification without notice.

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