



Oil & Gas - Cable Solutions

Refineries & Petrochemical - Onshore

Instrumentation Cables

EN 50288-7

Cu/XLPE/IS or OS or IS+OS/LSZH/LS/LSZH/SWA/LSZH 300 V and 500 V

Instrumentation cables with Chemical Barrier. Multi-core (pairs, triads - twisted). Screened. Armoured. Flame retardant. Design option with insect repellent/rodent protection; Arctic Grade design option: all available on demand.

APPLICATION

Instrumentation cables are used to transmit digital or analogue signals for measurement or process control applications in fixed installation on onshore platforms. Prysmian offers a wide range of Instrumentation cables with diverse design options depending on the reference standards and customer requirements. On demand Prysmian can offer also instrumentation thermocouples cables.

STANDARDS & APPROVALS

EN 50288-7 Design guidelines
EN 50290-2 Series Insulation and sheathing materials
IEC 60332-1-2 Flame retardant
IEC 60332-3-24 or 22 Fire retardant

on request

IEC-60754-1 / ...-2 Halogen free properties
IEC-61034-1 / 2 Smoke emission properties

on request

CSA 22.2 n. 38/95 or IEC 60811

DESIGN & CONSTRUCTION

1 CONDUCTOR

Cu

Annealed copper wires according to cl. 2. Solid cl. 1 conductors (U) or Flexible cl. 5 conductors (F) available on demand. Tinned copper conductors (available on demand) from 0,5 to 2,5 mm² up to 50 pairs, up to 24 triples

2 INSULATION

XLPE

PE/PVC/HFFR available on demand

3 SCREEN

IS/OS/IS+OS

Individual (IS)/Overall (OS)/ Individual+Overall (IS+OS) Aluminium/polyester tape in electrical contact with tinned annealed drain wire

4 INNER COVERING

PVC or LSZH

CHEMICAL BARRIER

5 LS

Lead alloy E DRYLAM® (multilayer sheath) instead of Lead sheath available on demand

SEPARATION SHEATH

6 PVC or LSZH

ARMOURING

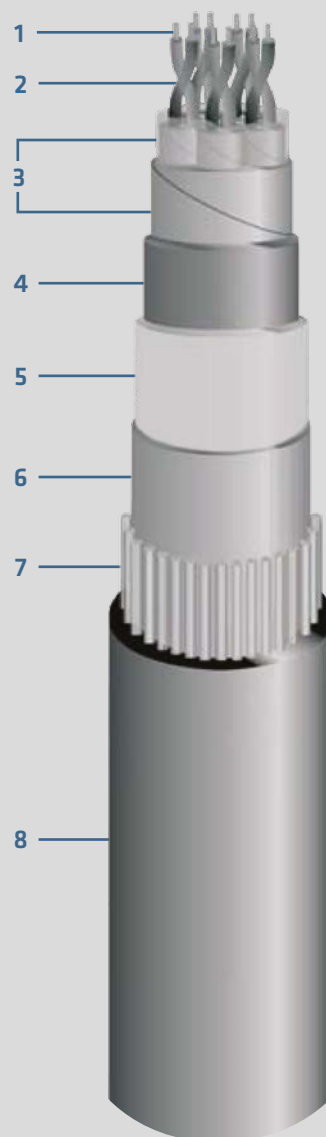
7 SWA

Galvanized steel wire (SWA) Galvanized steel braid (GSWB) or double steel tape (DSTA) available on demand

OUTER SHEATH

8 PVC or LSZH

Hydrocarbon resistant option available on demand





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PERFORMANCES/RATINGS

FIRE
BEHAVIOUR



IEC 60332-1-2
IEC 60332-3-22 or IEC 60332-3-24

CHEMICAL
RESISTANCE



EXCELLENT

IMPACTS



GOOD
EXCELLENT (armoured only)

SMOKE DENSITY,
CORROSIVITY
AND TOXICITY



LOW EMISSION
(only LSZH version)

MIN.
INSTALLATION
TEMPERATURE



-5 °C (PVC)
-15 °C (LSZH)
(-40 °C for Arctic Grade)

MAX
OPERATING
TEMPERATURE



+90 °C (XLPE)
+70 °C (PE/PVC/HFFR)

SHORT
CIRCUIT
TEMPERATURE



+250 °C (XLPE)
+160 °C (PE/PVC)

LEAD



Lead Free
(only Drylam™ option)

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