



## Oil & Gas - Cable Solutions

### Exploration & Production - Offshore

# Low Voltage & Control Cables

## IEC - Marine FPSO

### Cu/XLPE/LSZH/TCWB or GSWB/LSZH 0,6/1 kV

Low Voltage cables, fire retardant, low smoke, halogen free. Armoured.  
Available also in Fire Resistant version.

#### APPLICATION

Low Voltage & Control cables are used for fixed installations on ships and offshore platforms in a wide range of power supply and control applications. Prysmian offers a wide range of LV & Control cables with diverse design options depending on the reference standards and customer requirements.

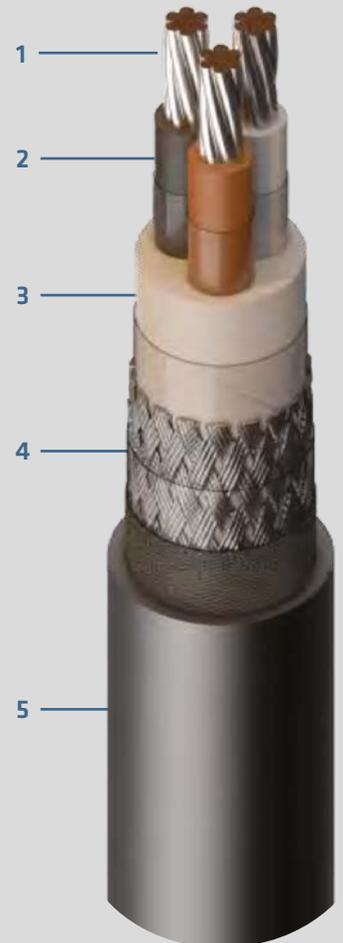
#### STANDARDS & APPROVALS

- IEC 60092-350** Design guidelines
- IEC 60092-352** Choice and installation of electric cables
- IEC-60092-353** Design guidelines
- IEC 60092-360** Insulating and sheathing materials
- IEC 60332-1-2** Flame retardance
- IEC-60332-3-22** Fire retardance
- IEC-60754-1** Halogen free properties
- IEC-61034-2** Smoke emission properties

Det Norske Veritas-Germanischer Lloyd (DNV-GL)  
American Bureau of Shippings (ABS)  
Lloyds Register of Shipping (LRS)  
Bureau Veritas (BV)  
RINa (Registro Italiano Navale)

#### DESIGN & CONSTRUCTION

- 1 CONDUCTOR**  
**Cu**  
Tinned (or plain) annealed copper conductor according to IEC 60228 cl. 2 (or cl.5 on request)
- 2 INSULATION**  
**XLPE**  
HF-XLPE according to IEC 60092-351  
thickness according to IEC 60092-353
- 3 BEDDING/INNER SHEATH**  
**LSZH**  
Halogen free thermoplastic compound,SHF1 according to IEC 60092-360
- 4 ARMOURING**  
**TCWB**  
Tinned copper wire braid  
or **GSWB**  
Galvanized steel wire braid
- 5 OUTER SHEATH**  
**LSZH**  
Halogen free thermoplastic compound,SHF1 according to IEC 60092-360





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### PERFORMANCES/RATINGS

#### FIRE BEHAVIOUR



IEC 60332-1-2  
IEC 60332-3-22

#### CHEMICAL RESISTANCE



VERY GOOD

#### IMPACTS



GOOD

#### SMOKE DENSITY, CORROSIVITY AND TOXICITY



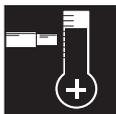
LOW EMISSION

#### MIN. PERMISSIBLE AMBIENT TEMPERATURE DURING LAYING



-5 °C

#### MAX OPERATING TEMPERATURE



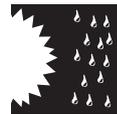
+90 °C

#### SHORT CIRCUIT TEMPERATURE



+250 °C

#### UV RESISTANCE



GOOD

### 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