

LEONI SeaLine® arctic

Cables for extreme cold conditions



Advantages at a glance

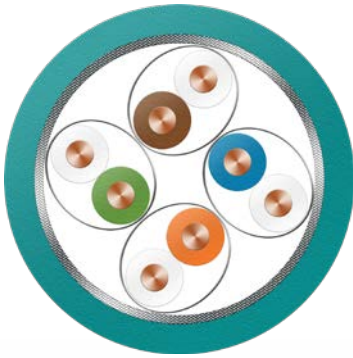
- Cables with low temperature behaviour down to -65°C
- Cables can be installed for example in ice breakers, container vessels, tankers or expedition cruise liners
- Cables are suitable for installation inside and outside

The ship travel route between Europe and Asia through the Arctic ocean increases. Because of the very low temperatures during the shipping period, the cables have to withstand extreme cold weather conditions. LEONI develops Ethernet cables with a temperature behaviour down to -65°C . These cables can be installed in all types of ships e.g. in ice breakers, container vessels, tankers or expedition cruise liners. The cables are suitable for installation inside and outside the vessels.

The cables have a SHF1 outer jacket according to the standard IEC 60092-360 and is suitable for standard data transmission as well as for PoE-application up to PoE++ . SHF2 jacket material (acc. to IEC 60092-360) or mud resistant material (acc. to NEK 606 for offshore applications) are also possible.

All these Ethernet cables are approved by the classification society DNV with the categories 6, 6A and 7.

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| Technical data | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conductor | Bare copper wire (23/1 AWG) Ø 0.6 mm (0.024 in) Insulation of foamed Polyethylene (PE) with skin Ø 1.43 mm (0.056 in) |
| Core | 2 wires twisted to a pair Alulminate foil overlapped, applied longitudinally 4 screened pairs |
| Overall shield | Shield braiding of tinned copper wires |
| Jacket | Thermoplastic copolymer (FRNC) Ø (8.7 ±0.4) mm (0.343 ±0.016 in dia) |
| Characteristics | Data transmission rate Cat 7 according to IEC 61156-5 Oil resistant acc. to IEC 60811-2-1 (4 hours / 70 °C) SHF 1 Flame retardant acc. to IEC 60332-1-2 Flame retardant acc. to IEC 60332-3-22 (Cat. A) |
| Approvals | DNV approved – further approvals for marine and offshore applications are possible |
| Type designation | 02YSCH 4X2X0.6 / 1.43-100 PIMF TQ |
| Order no. | L45467-J416-C1036 |
| <p>The same designs are available ▶ with conductor design AWG 22/1 and AWG 24/1 ▶ with data transmission rates Cat 6A, Cat 6, Cat 5e and Cat 5</p> | |