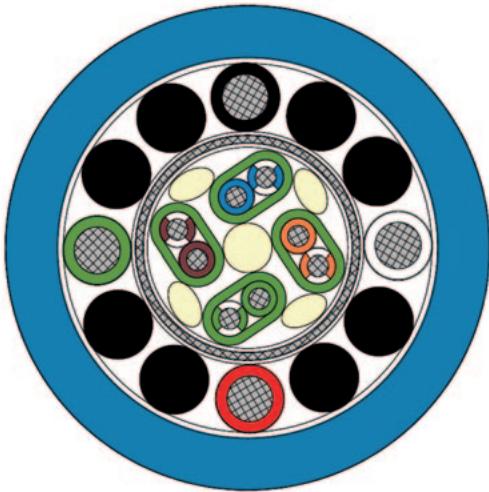


# Cables for marine technology

## Special CATLine CAT6

flexible, halogen-free Ethernet cable



OPERATING  
DEPTH

up to 6.000 metres

### Construction:

Conductor:	24 AWG: silver-plated copper strands, fine wires 18 AWG: tinned copper strands, fine wires
Insulation:	FEP
Colour code:	24 AWG: blue-white/blue, orange-white/orange, green-white/green, brown-white/brown 18 AWG: black, white, red, green
Stranding:	24 AWG: pairwise
Inner sheath:	SABIX®
Stranding:	24 AWG: sheathed pairs stranded in a specially adjusted layer, wrapped with alu/PETP foil
Screen:	24 AWG: tinned copper braiding, optical coverage approx. 85%
Stranding:	core: (4x2x24AWG)Cat.6 wrapped with PETP foil. Outer layer: cores 18 AWG wrapped with non-woven tape
Sheath material:	PUR
Sheath colour:	sky blue (RAL 5015)
Marking:	SAB BRÖCKSKES · D-VIERSEN · Special CATLine Cat.6 (4x2x24AWG)Cat.6 + 4x18AWG <SAB Article no.> CE <SAB ID no.>

Abmessung mm <sup>2</sup>	outer-ø approx. mm	copper figure kg/km	cable weight in salt water ≈ kg/km	cable weight in air ≈ kg/km	ohmic resistance at 20 °C max. Ω/km
(4x2xAWG24) Cat.6 + 4xAWG18	14,0	82,8	76	235	AWG24: 85 AWG18: 21

Other dimensions and colours are possible on request.

### Technical data:

Operating voltage	Testing voltage	Temperature range
AWG18: 600 V AWG24: 250 V	AWG24 AWG18 core/core: 1500 V 2500 V core/screen: 1200 V 2500 V	fixed laying: -50°C/+90°C flexible application: -40°C/+90°C

Min. bending radius	Chemical resistance	Absence of harmful substances
fixed laying: 130 mm flexible application: 130 mm	good against acids, alkalines, solvents, hydraulic liquids etc.	acc. to RoHS directive of the European Union

Application	REACH	Data transmission
suitable for EtherCAT and EtherNET/IP applications	The product does not contain any SVHC (Substance of Very High Concern) acc. to REACH Regulation (EC no. 1907/2006)	Characteristic impedance 100 Ω ± 15 Ω. The element (4x2x26AWG) fulfills the transmission requirements with reference to EN 50288-5-2 (Cat.6 acc. to EN 50173)

- high tensile strength
- high tear strength
- high abrasion resistance
- high notch resistance
- high shear strength
- very good oil resistance
- good resistance against UV rays, ozone and vapours and resistant to water

