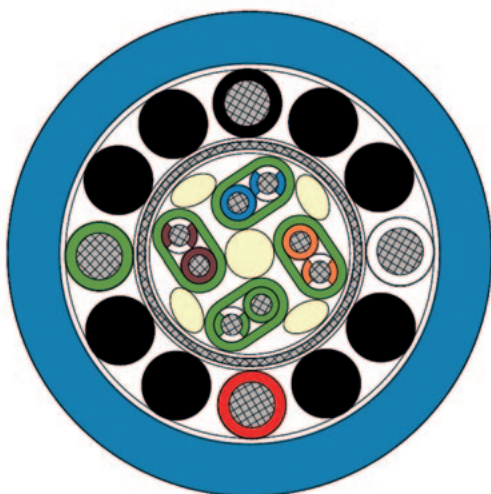


## Special CATLine CAT6

flexible, halogen-free Ethernet cable



**OPERATING  
DEPTH  
up to 6.000 metres**

### Construction:

<b>Conductor:</b>	24 AWG: silver-plated copper strands, fine wires 18 AWG: tinned copper strands, fine wires
<b>Insulation:</b>	FEP
<b>Colour code:</b>	24 AWG: blue-white/blue, orange-white/orange, green-white/green, brown-white/brown 18 AWG: black, white, red, green
<b>Stranding:</b>	24 AWG: pairwise
<b>Inner sheath:</b>	SABIX®
<b>Stranding:</b>	24 AWG: sheathed pairs stranded in a specially adjusted layer, wrapped with alu/PETP foil
<b>Screen:</b>	24 AWG: tinned copper braiding, optical coverage approx. 85%
<b>Stranding:</b>	core: (4x2x24AWG)Cat.6 wrapped with PETP foil. Outer layer: cores 18 AWG wrapped with non-woven tape
<b>Sheath material:</b>	PUR
<b>Sheath colour:</b>	sky blue (RAL 5015)
<b>Marking:</b>	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

### Technical data:

Other dimensions and colours are possible on request.

Operating voltage	Testing voltage	Temperature range
AWG18: 600 V AWG24: 250 V	core/core: AWG24 1500 V AWG18 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) fulfils 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

