

Cables for marine technology

Li2YC11Y

Data cable with PUR outer sheath and overall copper screen for deep-sea use



OPERATING DEPTH
up to **3.000 metres**

Construction:	
Conductor:	bare copper strands, fine wires
Insulation:	PE
Colour code:	white, red, green, orange, blue, white-black, black
Stranding:	in layers, PE sheathed aramid strain relief as core
Wrapping:	non-woven tape
Screen:	tinned copper braiding, optical coverage approx. 85%
Wrapping:	non-woven tape
Sheath material:	PUR, low adhesion
Sheath colour:	black (RAL 9005)
Marking:	SAB BRÖCKSKES · D-VIERSEN · Li2YC11Y 7x0,50 mm ² and current meter marking

no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% 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
7 x 0,50	0,18	10,0	59,5	44	124	39,0

Other dimensions and colours are possible on request.

Technical data:

Peak operating voltage	Testing voltage	Temperature range	Min. bending radius	Insulation resistance
750 V	core/core: 3000 V core/screen: 3000 V	fixed laying: -40/+70 °C flexible application: -40/+70 °C	fixed laying: 70 mm flexible application: 100 mm	core/core: ≥ 10000 MΩ x 1000 m core/screen: ≥ 100 MΩ x 100 m
Halogen-free	Oil resistance	Chemical resistance	Resistances	Min. tensile strength of aramid strain relief
acc. to IEC 60754-1 + VDE 0482-754-1	very good - PUR, TPU acc. to EN 50363-10-2 + DIN VDE 0207-363-10-2	good against acids, alkalines, solvents, hydraulic liquids etc.	good resistance against UV rays, ozone and vapours as well as resistant to fresh and salt water	3600 N

Absence of harmful substances
acc. to RoHS directive of the European Union

- + high tensile strength
- + high tear strength
- + high abrasion resistance
- + high notch resistance
- + high shear strength