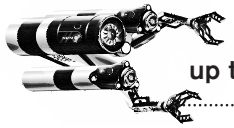
Hybrid cable

with special polymer insulation and overall aramid screen as strain relief

CE RoHS



OPERATING DEPTH
up to **300** metres

Construction:

Conductor:	bare copper strands, fine wires
Insulation:	special polymer
Colour code:	AWG 26: blue-white/blue, orange-white/orange, green-white/green, brown-white/brown 1,0 mm²: black cores with consecutive numbers 1-4, Ø 2,3 mm
Stranding:	cores AWG 26: pairwise and pairs together optimized twisted, PP foils with overlap wrapping
Screen:	(4x2xAWG 26): alu foil and tinned copper braiding, optical coverage ≥ 85 %
Stranding:	all elements twisted together optimized, swelling yarn in the fillers, non-woven tape with overlap wrapping
Screen:	tinned copper braiding, optical coverage ≥ 85 %
Inner sheath:	PUR, ultramarine blue (RAL 5002)
Strain relief element:	aramid braiding
Sheath material:	PUR
Sheath colour:	ultramarine blue (RAL 5002)
Marking:	acc. to customers requirements

Abmessung mm²	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
(4x2xAWG26) Cat.6 + 4x1,0	16,0	129,1	70	261	**AWG26:** 121,9 **1,0 mm²:** 19,5

Other dimensions and colours are possible on request.

Technical data:

Peak operating voltage	Nominal voltage	Testing voltage	Temperature range	Min. bending radius	Halogen-free	Insulation resistance
max. 90 V	Uo/U 0,6/1kV	core/core: 1000V, 1 min core/screen: 1000V, 1 min core/core: 4000V, 10 min core/screen: 4000V, 10 min	fixed laying: -20°C/+80°C flexible application: -20°C/+80°C	fixed laying: 5 x d flexible application: 10 x d	acc. to IEC 60754-1 + VDE 0482-754-1	≥ 5 GΩ x km

Chemical resistance

good against acids, alkalines, solvents, hydraulic liquids etc.

Strain relief element

Min. tensile strength: 20 kN*

*Size can't be controlled by the manufacturer. Testing is the responsibility of the user

Data transmission

Element (4x2xAWG 26)Cat.6:

Characteristic impedance 100 Ω ±10 Ω, fulfils the electrical and transmission requirements with high frequency with reference to EN 50288-5-2

Operating capacity is tested after first production

Attenuation values are tested after first production

- high tensile strength
- high tear strength
- high abrasion resistance
- high notch resistance
- high shear strength
- good seawater resistance
- good UV resistance
- good oil resistance