

Power & data cable

Type 4622



Construction characteristics

Power conductor	1.00 mm ² bare copper conductor insulated with PE (2 each)
Shielded twisted pair	0.22 mm ² bare copper conductor insulated with PE 2 conductors twisted together with a tinned copper drain wire, aluminium/polyester foil and a PE sheath (1 each)
Shielded twisted pair	0.22 mm ² bare copper conductor insulated with PE 2 conductors twisted together with a tinned copper drain wire and an aluminium/polyester foil (5 each)
Shield	Tinned copper braid, coverage 85%
Outer jacket	Polyurethane jacket. Colour blue
European directives	Cable is conform to The European REACH Regulation 1907/2006/ EC and RoHS Directive 2011/65/EU
Halogen free	Acc. to IEC60754

Mechanical characteristics

Diameter	12.00 mm ±0.40 mm
Weight in air	200 kg/km nom
Weight in seawater	110 kg/km nom
Min. bending radius, static	80 mm
Min. bending radius, dynamic	120 mm
Depth rating	3,000 m

Electrical characteristics

Operating voltage	600 V DC for 1.00 mm ² conductor 24 V DC for 0.22 mm ² conductor
Test voltage	3,000 V DC for 1 min for 1.00 mm ² conductor 1,500 V DC for 1 min for 0.22 mm ² conductor
Conductor resistance	≤ 20.0 Ω/km for 1.00 mm ² conductor ≤ 96.2 Ω/km for 0.22 mm ² conductor

Insulation resistance	$\geq 100 \text{ M}\Omega \times \text{km}$ (cond - cond) $\geq 50 \text{ M}\Omega \times \text{km}$ (cond - shield) $\geq 10 \text{ M}\Omega \times \text{km}$ (shield - shield)
Capacitance	85 pF/m for 0.22 mm ² pair
Impedance	60 \pm 5 Ω at 1-10 MHz for 0.22 mm ² pair
Attenuation	10.0 dB/100 m at 1 MHz 25.0 dB/100 m at 10 MHz