

Hybrid Bus Cable 2x0.75mm² SF/UTP + 3x2.5mm² + 1x0.75mm² LSZH-SHF1 <DNV-GL Approved>



Application

CAN Bus communication, MODBUS Communication, EIA-RS485 applications Maritime Environment, Offshore Installations, Power and Signal Applications.

Cable Design

Screened Pair

Conductor	Stranded Tinned Copper wire (16x0.25 mm) 0.75 mm
Insulation	Cellular PO [Ø 3,56 mm nom.]
Formation	2 cores twisted to a pair (Orange / White)
Shield	Helically applied Aluminium foil, 100% coverage

Power Conductors

Conductor	Stranded Tinned Copper wire (49x0.25 mm) 2.5 mm
Insulation	XLPE [Ø 3,20 mm nom.]
Identification	Blue, Brown, Yellow/Green
Dielectric Strength	1000 V/minute

Earth Conductor

Conductor	Stranded Tinned Copper wire (24x0.2 mm) 0.75 mm
Insulation	XLPE [Ø 2,30 mm nom.]
Identification	Yellow/Red
Dielectric Strength	1000 V/minute

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Lay up

Centre	All elements are cabled together
Tape	non-woven tape wrapped
Braid	Tinned copper wire braid

Outer Jacket

	FR-LSZH SHF-1
Colour	Green
Thickness	1,1 mm nom.
Diameter	Ø 13,50 mm

Performance

Frequency Range		1-20	MHz
Impedance		100-120	Ohm
Max. DC Resistance	0,75mm ²	27	Ohm/km @ 20 °C
Max. DC Resistance	2,50mm ²	8,5	Ohm/km @ 20 °C
Max. Resistance Unbalance		2	%
Dielectric Strength		700	V/minute
Dielectric Strength to Shield		700	V/minute
Min. Insulation Resistance		5	GΩ • km
Voltage Rating		600	V
Min. Bend Radius		130	mm
Max. Operating Temperature		+80	°C
Min. Operating Temperature		-35	°C
UV Resistance		Yes	
Weight		240	kg/km

(*) cable voltage rate is 600 V, however the cable is not intended to be used for mains power supply.

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Standards

Applicable Standards	DNV-GL certified, IEC 60092-360, IEC 60092-350, IEC 60092-359, RoHS 3 2015/863/EU
Flammability Rating	IEC 60332-1, IEC 60332-3 , IEC 60754-1/2, IEC 61034-1/2, UL 1581 VW-1, UL CMG

Specification

Part Number	Type
AMC1575-HYB325-UAZF1	Armada® CanBus 2x0.75 mm ² SF/UTP + 3x2.5 mm ² + 1x0.75 mm ² LSZH-SHF1 <DNV-GL Approved>