

CanBus 1x2x0.5 mm² SF/UTP
LSZH



Cable Design

Conductor	Stranded tinned copper wire 19/0,20mm (20awg) 0,5mm ²
Insulation	Cellular PO Ø 2,50 mm nom.
1° Layer	2 wires twisted to a Pair (Red/Blue) with fillers
Tape	Plastic tape overlapped
Screen	Alulaminare foil overlapped
Braid	Tinned copper wire braid, 85% coverage
Outer Jacket	FR-LSZH SHF-1 or XL-HFFR SHF-2
Outer Jacket Colour	Black or Violet
Overall Diameter	Ø 7,40 mm nom.

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Standards

Applicable Standards	DNV-GL certified, IEC 60092-359, IEC 60092-350, IEC 60811-2-1, RoHS-2 2011/65/EU
Flammability Rating	IEC 60332-1, IEC 60332-3-22, IEC 60754-1/2, IEC 61034-1/2, UL 1581 VW-1

Electrical Data @ 20°C

Conductor resistance	≤	44	Ohm/km
Insulation resistance	≥	5	GOhm*km
Capacitance (1 kHz)	≈	36	nF/km
Characteristic Impedance	1	MHz	120±18 Ohm
Surface transfer impedance of screen	30	MHz	≤ 250 mOhm/m
Relative velocity of propagation	≈	80	%
Operating voltage	≤	300	V
Test voltage (wire/wire/screen rms 50Hz 1 min)		2000	V

Frequency (MHz)	0,1	1	5	10	20
Attenuation typ. Value (dB/100m)	0,3	1,1	2,8	3,9	5,7

Mechanical & Thermal Characteristics

Permissible temperature range		-30 ~ +80	°C
Min. Bending radius allowed	single	4	x Ø
Min. Bending radius allowed	repeated	8	x Ø

Voltage rate is 300 V, however the cable is not intended to be used for mains power supply.

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Specification

Part Number	Sheath Type	Colour
AMC150-UAZF1-01	SHF1	Black
AMC150-UAZF1-09	SHF1	Violet
AMC150-UAZF2-01	SHF2	Black
AMC150-UAZF2-09	SHF2	Violet