

DeviceNet™

THICK Cable for Permanent Installation (LSZH)

Cable Design

Data Pair 1x2x18awg

Conductor	Stranded tinned copper wire (19/0,25mm) 18awg	Ø 1,30 mm
Insulation	Foamed Polyethylene (PE) with skin	Ø 3,80 mm
Pair	2 insulated conductors twisted to a pair, WH/BU	
Screen	Alulamine foil overlapped	

Power Pair 1x2x15awg

Conductor	Stranded tinned copper wire (19/0,34mm) 15awg	Ø 1,70 mm
Insulation	Polyethylene (PE)	Ø 2,70 mm
Pair	2 insulated conductors twisted to a pair, RD/BK	
Screen	Alulamine foil overlapped	

Core

Central Element Stranded tinned copper drain wire Ø,86mm (19/0.24mm)

1 Pair 1x2x18awg screened

1 Pair 1x2x15awg screened

Fillers Fillers in interstices

Braid Tinned copper wire braid, 70% coverage Ø 8,60 mm

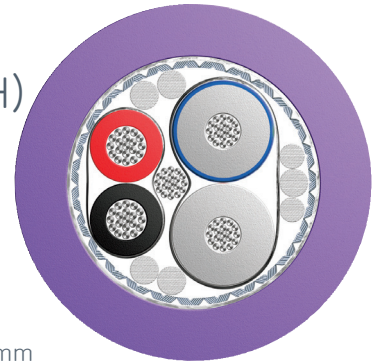
Outer Jacket LSZH (Low Smoke Zero Halogen), Violet Ø 12,20 ± 0,30 mm

Flammability Rating

- Flame retardant acc. to IEC 60332-1-2
- Fire retardant acc. to IEC 60332-3-24
- Smoke Density acc. to IEC61034

Specification

Part Number	Type
DVC-1518-UAZH	DeviceNet thick cable for permanent installation (LSZH), 2x18AWG + 2x15AWG



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Electrical Data @ 20°C

Conductor Resistance	Data pair	≤	22,6	Ohm/km
Conductor Resistance	Power pair	≤	11,7	Ohm/km
Capacitance (1 kHz wire/wire)	Data pair	≈	39,8	nF/km
Characteristic Impedance (1 MHz)	Data pair		120±12	Ohm
Signal Run Time	Data pair	≤	4,46	ns/m
Capacity Unbalanced to ground	Data pair	≤	3937	pF/km
Operating Voltage (peak)		≤	300	V
Insulation Resistance		≥	200	MOhm*km
Test Voltage (wire/wire/screen 50Hz)		=	2000	V
Attenuation	125 MHz		0,42	dB/100m
Attenuation	500 MHz		0,81	dB/100m
Attenuation	1000 MHz		1,31	dB/100m

Mechanical & Thermal Characteristics

Permissible temperature range			-25 ~ +80	°C
Min. Bending radius allowed	repeated		10	x Ø
Min. Bending radius allowed	single		5	x Ø
Weight (approx.)			189	kg/km

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