SERIES 73100

DeviceNet data communication cables
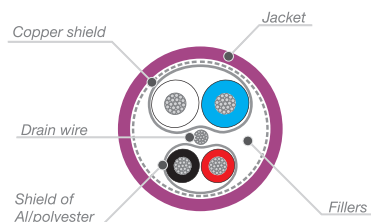
Dynamic application

DeviceNet™

RoHS

Use

The DeviceNet field BUS cable for mobile installation has been planned for the mobile application connection of industrial equipment and is normally installed on cable holder chains, even with great length (continuous motion on Cartesian axis). The cable is made of two couples of conductors, the first one for power supply with red and black conductors, the second one for the signal with blue and white conductors. The range of cables includes the Trunk cable used for the main lines of the DeviceNet network, and the Drop cablke connecting the devices to the main line through a derivation. The polyuretan jacket grants very good mechanical performances and a very good resistance to the most used industrial oils and fluids.

Information. An additional UL certified cut-to-length service is carried out on request ("Processed Wire").

Copper shield
Jacket
Drain wire
Shield of Al/polyester
Fillers

Technical data

Characteristics	Value/property
Conductor	Drop type: signal conductor 19x0,13 mm (0,25 mm^2), power conductor 19x0,16 mm (0,35 mm^2)
Insulation	TKblend®-L
Conductors	Twisted, black/red colors (power), blue/white (signal)
Shield	Aluminum/polyester tape on pairs (coverage 100%), overall tinned copper braid, nom. coverage 65%. Drain wire 22/19 AWG.
Jacket	Polyuretan, oil-resistant and flame-resistant and halogen, free. Desina RAL 4001 violet color
Temperature range	-40°C, +80°C
Voltage rating	300 V
Max DC resistance	78,0 Ω/km (data), 54,0 Ω/km (power)
Characteristic impedance	120 Ω
Capacitance	40 nF/km @ 800 Hz
Dielectric strength	2000 V x 1 min (cond. - shield)
Bending radius	10 x cable outer diameter
Speed	180 m/min
Acceleration	5 m/s^2
Standards of construction	Flame res.: IEC 60332-1, UL 1581, CSA FT2	Oil res.: IEC 60811-2-1, ICEA S-82-552, ASTM-oil-1	Other: EN 50267-2-1, IEC 60754-1-2, NEK 606, VDE 0472 par. 1, VDE 0282/10, UL 758, CSA AWM I/II A/B, cURus AWM Style 20978
Standards of use	ANSI/NFPA 79, UL 508a, CSA C22.1 (CE Code), CSA C22.2 No.286, Style 20978

Marking

TEKIMA 73130 "DEVICENET" – CE ((2x0,25)+(2x0,35)) mm^2 80°C 300 V IEC 60332-1 – c(UR)us E314444 AWM Style 20978 ((2x24)+(2x22)) AWG 80°C 300 V AWM Class I/II A/B FT2 – 120 Ohm – (prod.reference) = (metric) =

Coding and dimensions

Code	Num. conductors x Size [mm^2]	Num. conductors x Size [AWG]	Type	Diameter [mm (inch)]	Weight [kg/km (lb/mft)]
CVFD0001_73130_D3	[(2x0,25)+(2x0,35)]	[(2x24)+(2x22)]	Drop	6,9 (0.272)	68 (46)