

SERIES
71140

High performances Profibus data communication cables

Dynamic application



UL US



RoHS

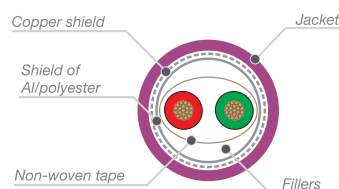
CE UK CA



Use

Field BUS cable planned for mobile installation on a cable holder chain, even with great length (continuous motion on Cartesian axis). The double shielding (electrostatic and electromagnetic) makes it suitable for environments with electromagnetic compatibility (EMC) problems. The special polyurethane jacket grants very good mechanical performance, a very good abrasion resistance and a very good resistance to the most common industrial oils and fluids.

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



Technical data

Characteristics	Value/property
Conductor	Flexible copper strand 19X0,13 mm (0,25 mm ²)
Insulation	TKblend®-L
Conductors	Twisted, green/red colors
Taping	Non-woven tape
Shield	Aluminum/polyester tape and tinned copper braid, nom. coverage 85%
Jacket	Polyurethane, oil-resistant and flame-resistant, halogen-free, Desina RAL 4001 violet color
Temperature range	-10°C, +80°C
Voltage rating	300 V
Max DC resistance	72,5 Ω/km
Max DC loop resistance	145,0 Ω/km
Characteristic impedance	150 Ω
Capacitance	29 nF/km @ 800 Hz
Dielectric strength	1500 V x 1 min (cond./cond. - cond./shield)
Bending radius	10 x cable outer diameter
Speed	180 m/min
Acceleration	3 m/s ²
Standards of construction	Flame res.: IEC 60332-1, CSA FT1 Oil res.: IEC 60811-2-1, ASTM-oil-1 Other: VDE 0472 par. 1, VDE 0282/10, NEK 606, EN 50267-2-1, IEC 60754-1-2, UL 758, CSA AWM I/II A/B, cURus AWM Style 20233
Standards of use	ANSI/NFPA 79, UL 508a, CSA C22.1 (CE Code), CSA C22.2 No.286, Style 20233

Marking

TEKIMA 71140 "PROFIBUS" – CE (1x2x0,25) mm² 80°C 300 V IEC 60332-1 – c(UR)us E314444 AWM Style 20233 (1x2x24) AWG 80°C 300 V AWM Class I/II A/B FT1 – 150 Ohm – (prod.reference) = (metric) =

Coding and dimensions

Code	Num. conductors x Size [AWG]	Num. conductors x Size [mm ²]	Diameter [mm (inch)]	Weight [kg/km (lb/mft)]
CVFD0001_71140_D3	(1x2x24)	(1x2x0,25)	7,9 (0.311)	65 (44)