

SERIES
71600

High performances Profibus CMX data communication cables



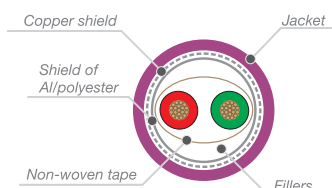
Dynamic application



Use

UL Listed field BUS cable produced according to UL 444 Standard and designed for mobile installation on a cable holder chain, even with great length (continuous motion on Cartesian axis) and for the uses specified by Art. 800 of ANSI/NFPA 70 "National Electrical Code" (NEC). 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	Polyuretane, oil-, flame- and UV-resistant. Desina RAL 4001 violet color
Temperature range	-30°C, +70°C (dynamic); -40°C, +75°C (fixed)
Voltage rating	300 V
Max DC conductor resistance	74 Ω/km
Characteristic impedance	150 Ω
Capacitance	30 nF/km @ 800 Hz
Dielectric strength	1500 V x 1 min (cond. - shield)
Bending radius	6 x cable outer diameter (fixed) 12 x cable outer diameter (dynamic)
Speed	180 m/min
Acceleration	3 m/s ²
Standards of construction	Flame res.: IEC 60332-1-2, UL 1581 par. 1080 Oil res.: IEC 60811-2-1, ASTM-oil-1, ICEA S-82-552 UV res.: UL 1581 par. 1200 Other: VDE 0472 par. 1, VDE 0282/10, NEK 606, EN 50267-2-1, EN 50267-2-2, IEC 60754-1, IEC 60754-2, UL 444
Standards of use	UL 444 (type CMX), NFPA 70 (Art. 800)

Marking

TEKIMA 71640 "PROFIBUS" – CE (1x2x0,25) mm² IEC 60332-1 – c(UL)us E501447 CMX 75°C (1x2x24) AWG VW-1 150 Ohm – (prod.reference) = (metric) =

Coding and dimensions

Code	Num. conductors x Size [mm ²]	Num. conductors x Size [AWG]	Diameter [mm (inch)]	Weight [kg/km (lb/mft)]
CVFD0001_71640_D3	(1x2x0,25)	(1x2x24)	8,2 (0.323)	72 (48)