SERIES 77100

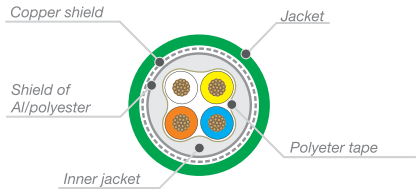
Profinet data transmission cables

Dynamic application

Use

Profinet is the Ethernet industrial standard of Profibus and Profinet association. This system employs the TCP/IP protocol permitting a real-time communication with advanced industrial devices The cable has been planned for dynamic application, it exhibits a good resistance to the mechanical stress, to the low temperatures and to the most used 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
Category	Profinet SF/UTP Cat.5e
Conductor	Bare copper 0,38 mm² (19x0,16 mm)
Insulation	TKblend®-L
Conductors	Twisted (White, Blue, Yellow, Orange)
Internal jacket	TPE
Shield	Aluminum/polyester tape and tinned copper braid, nom. coverage 85%
Jacket	PUR oil-resistant, flame-retardant and UV-resistant. RAL 6018 green color
Temperature range	-40°C, +80°C (fixed application); -20°C, +60°C (dynamic application)
Voltage rating	300 V
Max DC resistance	59,4 Ω/km
Characteristic impedance	100 Ω
Capacitance	52 pF/m
Bending radius	8 x cable outer diameter (fixed), 12 x cable outer diameter (not fixed)
Speed	180 m/min
Acceleration	3 m/s²
Standards of construction	Flame res.: IEC 60332-1, UL 1581 par. 1090 and par. 1100 (FT2) | Oil res.: IEC 60811-2-1, ICEA S-82-552, IRM 901, 902 | Other: UL 1581, IEC 61156-6, EN 50288-1, EN 50288-2-2, ISO/IEC 11801, UL 758, CSA AWM I/II A/B, cURus AWM Style 20978 or Style 20549
Standards of use	ANSI/NFPA 79, UL 508a, CSA C22.1 (CE Code), CSA C22.2 No.286, Style 20978 or Style 20549

Marking

TEKIMA 77100 “PROFINET” – CE (1x4x0,38) mm² 80°C 300 V IEC 60332-1 – c(UR)us E314444 AWM Style 20978 (1x4x22) AWG 80°C 300 V AWM Class I/II A/B FT2 – 100 Ohm – (prod.reference) = (metric) =

Coding and dimensions

Code	Num. conductors x Size [mm²]	Num. conductors x Size [AWG]	Diameter [mm (inch)]	Weight [kg/km (lb/mft)]
CVFD0001_77100_VE	[1X(4X0,38)]	[1X(4X22)]	6,7 (0.264)	63 (42)