

**SERIES**  
**77000**

## Profinet data transmission cables



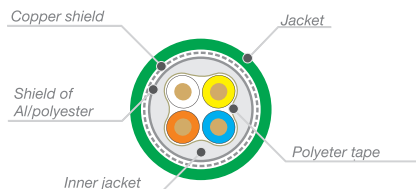
Fixed application



### 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 fixed 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 S/FTP Cat.5e
Conductor	Rigid bare copper 1x0,64 mm
Insulation	TKblend®-L
Conductors	Twisted (White, Blue, Yellow, Orange)
Taping	Polyester tape
Internal jacket	PVC compound
Shield	Aluminum/polyester tape and tinned copper braid, nom. coverage 85%
Jacket	PVC compound, oil-resistant, flame-retardant and UV-resistant. RAL 6018 green color
Temperature range	-30°C, +80°C
Voltage rating	300 V
Max DC resistance	56,40 Ω/km
Characteristic impedance	100 Ω
Capacitance	52 pF/m
Dielectric strength	1500 Vac x 1 min (cond. - shield)
Bending radius	8 x cable outer diameter
Standards of construction	Flame res.: IEC 60332-1-2, UL 1581 par. 1090, 1100 (FT2)   Oil res.: IEC 60811-2-1, EN 50363-4-1 type TM5, ASTM IRM902   UV res.: UL 1581 par. 1200   Other: IEC 61156-5, EN 50288-2-1, UL 758, CSA AWM I/II, A/B, cURus AWM Style 20601 or 2464
Standards of use	ANSI/NFPA 79, UL 508a, CSA C22.1 (CE Code), CSA C22.2 No.286, Style 20601 or 2464

### Marking

TEKIMA 77010 "PROFINET" – CE (1x4x0,34) mm<sup>2</sup> 80°C 300 V IEC 60332-1-2 – c(UR)us E314444 AWM Style 20601 (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 [mm <sup>2</sup> ]	Num. conductors x Size [AWG]	Diameter [mm (inch)]	Weight [kg/km (lb/mft)]
CVFD0001_77010_VE	[1X(4X0,35)]	[1X(4X22)]	6,5 (0.256)	74 (50)