

**SERIES**  
**75700**

# Industrial Ethernet CMX data transmission cables Cat.6



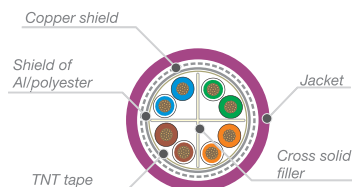
Dynamic application



## Use

UL Listed Ethernet cable produced according to UL 444. The Ethernet networks and the TCP/IP protocol are among the most widespread data communication systems of the industrial automation. These are powerful communication technologies which permit integration with the Office environment, IT functionality, Internet/Intranet, remote configuration. The cable has been planned for dynamic application and is suitable for environments with electromagnetic compatibility (EMC) problems. The special PUR jacket grants good mechanical performances, a good abrasion resistance 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").



## Technical data

Characteristics	Value/property
Category	Ethernet SF/UTP Cat.6
Conductor	0,15 mm <sup>2</sup>
Insulation	TKblend®-L
Conductors	Twisted, colored in rings or stripes. 4 pairs cable (White/Blue+ Blue), (White/Orange+Orange), (White/Green+Green), (White/Brown+Brown)
Taping	Non-woven tape
Shield	Aluminum/polyester tape and tinned copper braid, nom. coverage 85%
Jacket	Polyurethane halogen free and UV-resistant. Violet color.
Temperature range	+80°C (AWM/IEC), +75°C (CMX) -20°C (dynamic); -40°C (fixed)
Voltage rating	300 V (work 50 V)
Max DC loop resistance	290,0 Ω/km
Characteristic impedance	100 Ω
Capacitance	47 pF/m
Dielectric strength	1000 Vac x 1 min
Bending radius	6 x cable outer diameter (fixed) 8 x cable outer diameter (dynamic)
Speed	300 m/min
Acceleration	5 m/s <sup>2</sup>
Standards of construction	Flame res.: IEC 60332-1-2, UL 1581 par. 1100 (FT2), 1090   Oil res.: IEC 60811-2-1, ICEA S-82-552, ASTM IRM 901 IRM 902   UV res.: UL 1581 par. 1200   Other: VDE 0472 par.1, NEK 606, VDE 0282/10, EN 50267-2-1, IEC 60754-1, IEC 60754-1, IEC 61156-6, EN 50288-5-2, EN 50173-1, ISO/IEC 11801, UL 444, UL 758, cURus AWM Style 20549
Standards of use	UL 444 (type CMX), NFPA 70 (Art. 800), ANSI/NFPA 79, UL 508a, CSA C22.1 (CE Code), CSA C22.2 No.286, Style 20549

## Marking

TEKIMA 75720 "Industrial Ethernet" SF/UTP CAT.6 – CE (4x2x0,15) mm<sup>2</sup> 80°C IEC 60332-1-2 – c(UL)us CMX E501447 (4x2x26) AWG 75°C VW-1 or AWM Style 20549 80°C 300V AWM Class I/II A/B FT2 – (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_75720_D3	[4x(2x0,15)]	[4x(2x26)]	7,2 (0.283)	64 (43)