

**SERIES**  
**75200**

# Industrial Ethernet data transmission cables Cat.6



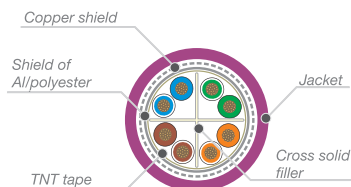
Dynamic application



## Use

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 thermoplastic polyurethane (TPU) 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.<br>4 pairs cable (White/Blue+ Blue),<br>(White/Orange+Orange), (White/Green+Green),<br>(White/Brown+Brown)  |
| Taping                    | Non-woven tape  |
| Shield                    | Aluminum/polyester tape and tinned copper braid,<br>nom. coverage 85%   |
| Jacket                    | Polyurethane halogen free and UV-resistant. Violet color.   |
| Temperature range         | -30°C, +80°C (dynamic); -40°C, +80°C (fixed)  |
| Voltage rating            | 1000 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)<br>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 Oil 1   UV res.: UL 1581 par. 1200   Other: VDE 0472 par.1, NEK 606, VDE 0282/10, EN 50267-2-1, IEC 60754-1, EN 50267-2-2, IEC 60754-2, IEC 61156-6, EN 50288-5-2, EN 50173-1, ISO/IEC 11801, UL 758, cURus AWM Style 21576 |
| Standards of use          | ANSI/NFPA 79, UL 508a, CSA C22.1 (CE Code), CSA C22.2 No.286, Style 21576   |

## Marking

TEKIMA 75220 "Industrial Ethernet" SF/UTP CAT.6 – CE (4x2x0,15) mm<sup>2</sup> 80°C IEC 60332-1-2 – c(UR)us E314444 AWM Style 21576 (4x2x26) AWG 80°C 1000 V AWM Class I/II A/B FT2 – (prod.reference) = (metric) =

## Coding and dimensions

| Code              | Num. conductors<br>x Size [mm <sup>2</sup> ] | Num. conductors<br>x Size [AWG] | Diameter<br>[mm (inch)] | Weight<br>[kg/km (lb/mft)] |
|-------------------|--|---------------------------------|-------------------------|----------------------------|
| CVFD0001_75220_D3 | [4x(2x0,15)]                                 | [4x(2x26)]                      | 7,2 (0.283)             | 64 (43)                    |