

Product type designation
Product description

IE FC TP Flexible Cable GP 2 x 2 (Type B)
Flexible bus cable (4-core), sold by the meter, unassembled
SIMATIC NET, IE FC FLEXIBLE CABLE, GP 2X2 (PROFINET TYP
B) TP INSTALLATION CABLE W. FLEXIBLE CORES, PROFINET
TYPE B, 4-WIRE, SHIELDED, CAT 5, SOLD BY THE M, MAX.
CONSIGNMENT: 1000 M, MIN. ORDERING QUANTITY: 20 M

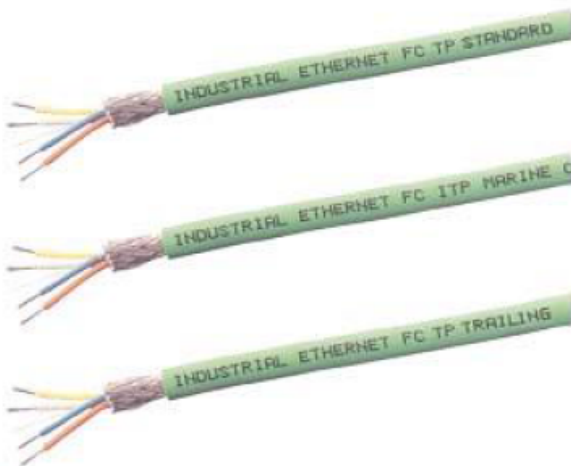


Figure similar

| | |
|--------------------------------------------------------|-------------------------------------------|
| Suitability for use | For occasionally moved machine parts |
| Cable designation | 2YY (ST) CY 2x2x0,75/1,5-100 LI GN SF/UTP |
| Electrical data | |
| Damping ratio per length | |
| • at 10 MHz / maximum | 0.06 dB/m |
| • at 100 MHz / maximum | 0.21 dB/m |
| Impedance | |
| • at 1 MHz ... 100 MHz | 100 Ω |
| Relative symmetrical tolerance | |
| • of the characteristic impedance at 1 MHz ... 100 MHz | 15 % |
| Near-end crosstalk per length | |
| • at 1 MHz ... 100 MHz | 0.5 dB/m |
| Transfer impedance per length / at 10 MHz | 20 mΩ/m |
| Loop resistance per length / maximum | 120 mΩ/m |
| Operating voltage | |

| | |
|----------------------|-------|
| • RMS value | 100 V |
| NVP value in percent | 66 % |

Mechanical data

| | |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Number of electrical cores | 4 |
| Design of the shield | Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires |
| Type of electrical connection / FastConnect | Yes |
| Core diameter | |
| • of AWG22 core | 0.75 mm |
| Outer diameter | |
| • of inner conductor | 0.75 mm |
| • of the wire insulation | 1.5 mm |
| • of the inner sheath of the cable | 3.9 mm |
| • of cable sheath | 6.5 mm |
| Symmetrical tolerance of the outer diameter / of cable sheath | 0.2 mm |
| Material | |
| • of the wire insulation | PE |
| • of the inner sheath of the cable | PVC |
| • of cable sheath | PVC |
| Color | |
| • of the insulation of data wires | white/yellow/blue/orange |
| • of cable sheath | green |
| Bending radius | |
| • with single bend / minimum permissible | 32.5 mm |
| • with multiple bends / minimum permissible | 52 mm |
| Tensile load / maximum | 150 N |
| Weight per length | 68 kg/km |

Permitted ambient conditions

| | |
|-------------------------------------------|--------------------------------------------------------------------------|
| Ambient temperature | |
| • during operation | -25 ... +75 °C |
| • during storage | -25 ... +75 °C |
| • during transport | -25 ... +75 °C |
| • during installation | -10 ... +60 °C |
| • Note | Electrical properties measured at 20 °C, tests according to DIN VDE 0472 |
| Burning behavior | flame resistant according to UL 1685 (CSA FT 4) |
| Chemical resistance | |
| • to mineral oil | oil resistant according to IEC 60811-404 (7x24h/90°C) |
| • to grease | Conditional resistance |
| • to water | conditional resistance |
| Radiological resistance / to UV radiation | resistant |

Product properties, functions, components / general

| | |
|---------------------------------------|------|
| Product feature | |
| • halogen-free | No |
| • silicon-free | Yes |
| Wire length / for Industrial Ethernet | |
| • with 100BaseTX | 85 m |

Standards, specifications, approvals

| | |
|-------------------------------------------------|----------------------------------------------|
| UL/ETL listing / 300 V Rating | Yes; c(UL)us, CMG / PLTC / Sun Res / OIL RES |
| UL/ETL style / 600 V Rating | No |
| Certificate of suitability | |
| • CE marking | Yes |
| • RoHS conformity | Yes |
| Standard for structured cabling | Cat5e |
| Marine classification association | |
| • American Bureau of Shipping Europe Ltd. (ABS) | No |
| • Bureau Veritas (BV) | No |
| • Det Norske Veritas (DNV) | No |
| • Germanische Lloyd (GL) | No |
| • Lloyds Register of Shipping (LRS) | No |
| • Nippon Kaiji Kyokai (NK) | No |
| • Polski Rejestr Statkow (PRS) | No |