



SIMATIC NET,
IE FC TP FOOD CABLE GP 2X2,
(PROFINET TYPE C) TP-INSTALLATION CABLE FOR USE
IN FOOD AND BEVERAGE INDUSTRY,
4-WIRE CAT5E, SOLD BY THE METER,
MAX. CONSIGNMENT 1000 M,
MIN. ORDER QUANTITY: 20 M

Acceptability for application

Food and beverages industry

Electrical data

Damping ratio per length	
• at 10 MHz / maximum	0.063 dB/m
• at 100 MHz / maximum	0.213 dB/m
Impedance	
• for frequency range 1 MHz ... 100 MHz	100 Ω
Relative symmetrical tolerance	
• of the surge impedance at 1 MHz ... 100 MHz	5 %
Near-end crosstalk per length	
• at 1 MHz ... 100 MHz	0.5 dB/m
Transfer impedance / at 10 MHz	10 mΩ/m
Loop resistance per length / maximum	120 Ω/km
Operating voltage	
• RMS value	100 V
percentage NVP value	66 %

Mechanical data

Number of electrical wires	4
Design of shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tinned copper wires
Design of the electrical connection / FastConnect	Yes

Core diameter	
• of the AWG22 core	0.75 mm
Outer diameter	
• of the inner conductor	0.75 mm
• of the wire insulation	1.5 mm
• of the inner sheath of the cable	3.9 mm
• of the cable sheath	6.5 mm
Symmetrical tolerance of outer diameter / of cable sheath	0.2 mm
Material	
• of the wire insulation	PE
• of the inner sheath of the cable	FRNC
• of the cable sheath	PE
Color	
• of the insulation of data wires	white / yellow / blue / orange
• of the cable sheath	Black
Bending radius	
• with single bend / minimum permissible	20 mm
• with multiple bends / minimum permissible	49 mm
Traction stress / maximum	150 N
Weight per length	55 kg/km
Permitted ambient conditions	
Ambient temperature	
• during operating	-40 ... +75 °C
• during storage	-50 ... +75 °C
• during transport	-50 ... +75 °C
• during installation	-20 ... +60 °C
• Comment	Electrical characteristics measured at 20 °C, tests according to DIN VDE 0472
Burning behaviour	inflammable
Chemical resistance	
• to mineral oil	oil resistant according to IEC 60811-2-1 (4 h / 70°C)
• to grease	Conditional resistance
• to water	Conditional resistance
Radiological resistance / to UV radiation	Resistant
Product properties, functions, components / general	
Product feature	
• halogen-free	Yes
• silicon-free	Yes
Cable length	
• with 100BaseTX / for Industrial Ethernet	85 m

Standards, specifications, approvals

UL/ETL listing / with 300 V rating	No
UL/ETL style / with 600 V rating	No
Verification of suitability	
• CE mark	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

letzte Änderung:

Aug 4, 2014