

Product type designation

Product description

IE FC TP Food Cable 2 x 2 (Type C)

Flexible bus cable (4-core), sold by the meter, unassembled
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. CONSEIGNMENT 1000 M, MIN. ORDER QUANTITY: 20 M



Suitability for use

Food and beverages industry

Cable designation

2YH (ST) C2Y 2X2X0,75/1,5-100 LI SF/UTP

Electrical data

Damping ratio per length

- at 10 MHz / maximum 0.063 dB/m
- at 100 MHz / maximum 0.213 dB/m

Impedance

- at 1 MHz ... 100 MHz 100 Ω

Relative symmetrical tolerance

- of the characteristic impedance at 1 MHz ... 100 MHz 5 %

Near-end crosstalk per length

- at 1 MHz ... 100 MHz 0.5 dB/m

Transfer impedance per length / at 10 MHz

10 m Ω /m

Loop resistance per length / maximum

120 m Ω /m

Operating voltage

- RMS value 100 V

NVP value in percent	66 %
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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 <ul style="list-style-type: none"> • of AWG22 core 	0.75 mm
Outer diameter <ul style="list-style-type: none"> • of inner conductor • of the wire insulation • of the inner sheath of the cable • of cable sheath 	0.75 mm 1.5 mm 3.9 mm 6.5 mm
Symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm
Material <ul style="list-style-type: none"> • of the wire insulation • of the inner sheath of the cable • of cable sheath 	PE FRNC PE
Color <ul style="list-style-type: none"> • of the insulation of data wires • of cable sheath 	white/yellow/blue/orange Black
Bending radius <ul style="list-style-type: none"> • with single bend / minimum permissible • with multiple bends / minimum permissible 	20 mm 49 mm
Tensile load / maximum	150 N
Weight per length	55 kg/km

Permitted ambient conditions

Ambient temperature <ul style="list-style-type: none"> • during operation • during storage • during transport • during installation • Note 	-40 ... +75 °C -50 ... +75 °C -50 ... +75 °C -20 ... +60 °C Electrical properties measured at 20 °C, tests according to DIN VDE 0472
Burning behavior	flammable
Chemical resistance <ul style="list-style-type: none"> • to mineral oil • to grease • to water 	oil resistant according to IEC 60811-2-1 (4 h / 70°C) Conditional resistance conditional resistance
Radiological resistance / to UV radiation	resistant

Product properties, functions, components / general

Product feature	
• halogen-free	Yes
• silicon-free	Yes
Cable length / for Industrial Ethernet	
• with 100BaseTX	85 m

Standards, specifications, approvals

UL/ETL listing / 300 V Rating	No
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

Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

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