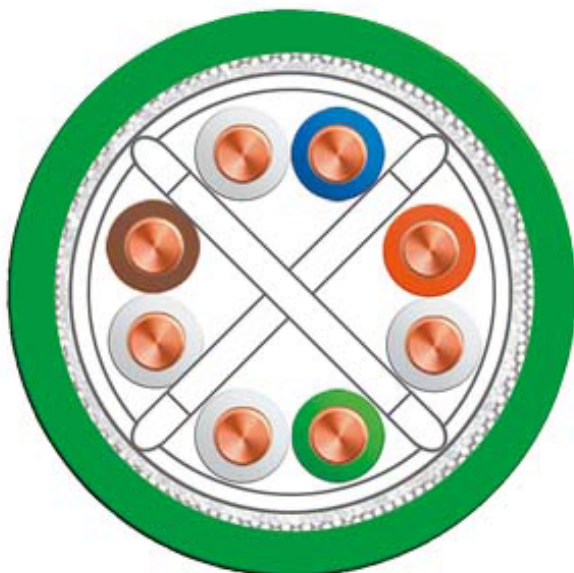


Product type designation

Product description

IE FC TP Standard Cable GP 4x2 (AWG 22)

Standard bus cable (8-core), sold by the meter, unassembled
SIMATIC NET, IE FC TP STANDARD CABLE 4X2, TP
INSTALLATION CABLE, CAT6 F. CONNECTION TO FC RJ45
MODULAR OUTLET, AWG22 SOLD BY THE METER, MAX.
CONSIGNMENT: 1000 M MIN. ORDER QUANTITY: 20 M



Suitability for use	Standard cable with rigid cores for fast, permanent installation
Cable designation	2YH (ST) C 4X2X0.64/1.25-100 GN 4x2xAWG22

Electrical data

Damping ratio per length	
• at 10 MHz / maximum	0.06 dB/m
• at 100 MHz / maximum	0.19 dB/m
• at 250 MHz / maximum	0.33 dB/m
Impedance	
• at 1 MHz ... 100 MHz	100 Ω
Near-end crosstalk per length	
• at 1 MHz ... 250 MHz	0.383 dB/m
Transfer impedance per length / at 10 MHz	10 m Ω /m
Loop resistance per length / maximum	118 m Ω /m
Insulation resistance coefficient	5000 G Ω ·m
Operating voltage	
• RMS value	100 V
NVP value in percent	68 %

Mechanical data	
Number of electrical cores	8
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	0.64 mm
Outer diameter	
• of inner conductor	0.64 mm
• of the wire insulation	1.25 mm
• of the inner sheath of the cable	7.6 mm
• of cable sheath	9.6 mm
Symmetrical tolerance of the outer diameter / of cable sheath	0.3 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/blue, white/orange, white/green, white/brown
• of cable sheath	green
Bending radius	
• with single bend / minimum permissible	38 mm
• with multiple bends / minimum permissible	80 mm
Tensile load / maximum	180 N
Weight per length	104 kg/km

Permitted ambient conditions	
Ambient temperature	
• during operation	-40 ... +80 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C
• during installation	-40 ... +80 °C
Burning behavior	flame resistant according to IEC 60332-1
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	No
• silicon-free	Yes

Wire length / for Industrial Ethernet	
• with 100BaseTX	90 m
• with 1000BaseT	90 m

Standards, specifications, approvals

UL/ETL listing / 300 V Rating	Yes; c(UL)us, CMG, Sun Res
UL/ETL style / 600 V Rating	No
Certificate of suitability	
• CE marking	Yes
• RoHS conformity	Yes
Standard for structured cabling	Cat6
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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