

product description

Standard bus cable (4-core), sold by the meter, unassembled



Industrial Ethernet FC TP Standard cable, GP 2x2 (PROFINET Type A), TP installation cable for connection to IE FC RJ45 2x2, for universal use, 4-core, shielded CAT 5E, sold by the meter, delivery unit max. 4000 m minimum order quantity 20 m.

suitability for use
cable designation

Standard cable with rigid cores for fast installation
2YY (ST) CY 2x2x0,64/1,5-100 GN SF/UTP

electrical data

attenuation factor per length	
<ul style="list-style-type: none"> at 10 MHz / maximum at 100 MHz / maximum 	0.052 dB/m 0.195 dB/m
impedance	
<ul style="list-style-type: none"> at 1 MHz ... 100 MHz 	100 Ω
relative symmetrical tolerance	
<ul style="list-style-type: none"> of the characteristic impedance at 1 MHz ... 100 MHz 	15 %
near-end crosstalk per length	
<ul style="list-style-type: none"> at 1 MHz ... 100 MHz 	0.5 dB/m
transfer impedance per length / at 10 MHz	10 mΩ/m
loop resistance per length / maximum	115 mΩ/m
operating voltage	
<ul style="list-style-type: none"> RMS value 	80 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 tinned copper wires
type of electrical connection / FastConnect	Yes
core diameter	
<ul style="list-style-type: none"> of AWG22 insulated conductor 	0.64 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 	0.64 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 	polyethylene (PE) PVC PVC
color	
<ul style="list-style-type: none"> of the insulation of data wires of cable sheath 	white/yellow/blue/orange green
bending radius	
<ul style="list-style-type: none"> with single bend / minimum permissible 	19.5 mm

<ul style="list-style-type: none"> with multiple bends / minimum permissible tensile load / maximum weight per length 	<p>49 mm 150 N 61 kg/km</p>
ambient conditions	
<p>ambient temperature</p> <ul style="list-style-type: none"> during operation during storage during transport during installation note <p>class of burning behaviour / according to EN 13501-6</p> <p>chemical resistance</p> <ul style="list-style-type: none"> to mineral oil to grease to water <p>radiological resistance / to UV radiation</p>	<p>-40 ... +75 °C -40 ... +75 °C -40 ... +75 °C -40 ... +60 °C</p> <p>Electrical properties measured at 20 °C, tests according to DIN VDE 0472</p> <p>Eca</p> <p>oil resistant according to IEC 60811-2-1 (4 h / 70°C) Conditional resistance conditional resistance resistant</p>
product features, product functions, product components / general	
<p>product feature</p> <ul style="list-style-type: none"> halogen-free silicon-free <p>wire length / for Industrial Ethernet</p> <ul style="list-style-type: none"> with 100BaseTX 	<p>No Yes</p> <p>100 m</p>
standards, specifications, approvals	
<p>UL/ETL listing / 300 V Rating</p> <p>UL/ETL style / 600 V Rating</p> <p>certificate of suitability</p> <ul style="list-style-type: none"> EAC approval CE marking RoHS conformity <p>standard for structured cabling</p> <p>Marine classification association</p> <ul style="list-style-type: none"> American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) Det Norske Veritas (DNV) Germanische Lloyd (GL) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (NK) Polski Rejestr Statkow (PRS) <p>reference code</p> <ul style="list-style-type: none"> according to IEC 81346-2 according to IEC 81346-2:2019 	<p>Yes; c(ETL)us / CMG / (ETL)us PLTC/ ITC / Sun Res Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2</p> <p>Yes Yes Yes</p> <p>Cat5e</p> <p>No No No No No No</p> <p>WG WGB</p>
further information / internet-Links	
<p>Internet-Link</p> <ul style="list-style-type: none"> to web page: selection aid TIA Selection Tool to website: Industrial communication to website: Industry Mall to website: Information and Download Center to website: Selection guide for cables and connectors to website: Image database to website: CAx-Download-Manager to website: Industry Online Support 	<p>http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter https://sie.ag/2QdlxcP http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com</p>
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