

product description

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

Industrial Ethernet FC TP Festoon cable 2x2 (PROFINET Type B), TP installation cable for Festoon suspension, 4-core CAT5E, sold by the meter, min. 5 million bending cycles, delivery unit max. 1000 m, minimum order quantity 20 m.



suitability for use	For continuous motion in a trailing cable, festoon mounting
cable designation	2YY (ST) CY 2x2x0,75/1,5 LI GN SF/UTP
electrical data	
attenuation factor 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	100 mΩ/m
loop resistance per length / maximum	120 mΩ/m
operating voltage	
• 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 tin-plated copper wires
type of electrical connection / FastConnect	Yes
core diameter	
• of AWG22 insulated conductor	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	polyethylene (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	<ul style="list-style-type: none"> with single bend / minimum permissible with multiple bends / minimum permissible with continuous bending 	<p>30 mm</p> <p>70 mm</p> <p>70 mm</p>
number of bending cycles		5000000; 5 million bending cycles at a bending radius of 70 mm and an acceleration of 4 m/s ²
tensile load / maximum		150 N
weight per length		68 kg/km
ambient conditions		
ambient temperature	<ul style="list-style-type: none"> during operation during storage during transport during installation note 	<p>-40 ... +75 °C</p> <p>-50 ... +75 °C</p> <p>-50 ... +75 °C</p> <p>-20 ... +60 °C</p> <p>Electrical properties measured at 20 °C, tests according to DIN VDE 0472</p>
fire behavior		flame resistant according to UL 1685 (CSA FT 4)
class of burning behaviour / according to EN 13501-6		Eca
chemical resistance	<ul style="list-style-type: none"> to mineral oil to grease to water 	<p>conditional resistance</p> <p>Conditional resistance</p> <p>conditional resistance</p>
radiological resistance / to UV radiation		resistant
product features, product functions, product components / general		
product feature	<ul style="list-style-type: none"> halogen-free silicon-free 	<p>No</p> <p>Yes</p>
wire length / for Industrial Ethernet	<ul style="list-style-type: none"> 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		Yes
certificate of suitability	<ul style="list-style-type: none"> EAC approval CE marking RoHS conformity 	<p>Yes</p> <p>Yes</p> <p>Yes</p>
standard for structured cabling		Cat5e
Marine classification association	<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>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>
reference code	<ul style="list-style-type: none"> according to IEC 81346-2 according to IEC 81346-2:2019 	<p>WG</p> <p>WGB</p>
further information / internet-Links		
Internet-Link	<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</p> <p>http://www.siemens.com/simatic-net</p> <p>https://mall.industry.siemens.com</p> <p>http://www.siemens.com/industry/infocenter</p> <p>https://sie.ag/2QdlxcP</p> <p>http://automation.siemens.com/bilddb</p> <p>http://www.siemens.com/cax</p> <p>https://support.industry.siemens.com</p>
last modified:		10/30/2021 

