

product description



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

Industrial Ethernet FC TP flexible cable, GP 2x2 (PROFINET Type B), TP installation cable with flexible cores, PROFINET type B, 4-core, shielded, CAT 5e, sold by the meter, delivery unit max. 2500 m minimum order quantity 20 m.

suitability for use	For occasionally moved machine parts
cable designation	2YY (ST) CY 2x2x0,75/1,5-100 LI GN SF/UTP
wire length	sold by the meter
electrical data	
attenuation factor per length - at 10 MHz / maximum - at 100 MHz / maximum	0.06 dB/m 0.21 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	20 mΩ/m
loop resistance per length / maximum	120 mΩ/m
operating voltage RMS value	80 V
NVP value in percent	69 %
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 - 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 - of the wire insulation - of the inner sheath of the cable - of cable sheath	polyethylene (PE) PVC PVC
color - of the insulation of data wires - of cable sheath	white/yellow/blue/orange green
bending radius	

• with single bend / minimum permissible	32.5 mm
• with multiple bends / minimum permissible	52 mm
tensile load / maximum	150 N
weight per length	68 kg/km
ambient conditions	
ambient temperature	
• during operation	-25 ... +75 °C
• during storage	-25 ... +75 °C
• during transport	-25 ... +75 °C
• during installation	-10 ... +60 °C
• note	Electrical properties measured at 20 °C, tests according to DIN VDE 0472
fire behavior	flame resistant according to UL 1685 (CSA FT 4)
class of burning behaviour / according to EN 13501-6	Eca
chemical resistance	
• to mineral oil	oil resistant according to IEC 60811-404 (7x24h/90°C)
• to grease	Conditional resistance
• to water	conditional resistance
radiological resistance / to UV radiation	resistant
product features, product functions, product components / general	
product feature	
• halogen-free	No
• silicon-free	Yes
wire length / for Industrial Ethernet	
• with 100BaseTX	85 m
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; c(ETL)us, CMG / (ETL)us PLTC / Sun Res / OIL RES
UL/ETL style / 600 V Rating	Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2
certificate of suitability	
• EAC approval	Yes
• CE marking	Yes
• RoHS conformity	Yes
standard for structured cabling	Cat5e
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	No
• French marine classification society (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
reference code	
• according to IEC 81346-2	WG
• according to IEC 81346-2:2019	WGB
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	0.92 kg
• during manufacturing	0.83 kg
• during operation	0.02 kg
• after end of life	0.07 kg
further information / internet links	
internet link	
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks.

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Approvals / Certificates

General Product Approval	Environment
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[Manufacturer Declaration](#)



[Declaration of Conformity](#)



[Confirmation](#)

Environment	Industrial Communication
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last modified: 2/20/2025