

product description



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

Industrial Ethernet FastConnect TP robust Standard GP cable 2x2 (PROFINET Type A), TPE protective jacket, fixed installation for connection to FC RJ45 plug and FC outlet RJ45, for universal use, 4-core, shielded Cat5e, sold by the meter, delivery unit max. 2000 m minimum order quantity 20 m .

suitability for use	Standard cable with rigid cores for fast installation
cable designation	2YH (ST) C99Y 2x2x0,64/1,5-100 GN SF/UTP
<b>electrical data</b>	
attenuation factor per length <ul style="list-style-type: none"><li>at 10 MHz / maximum</li><li>at 100 MHz / maximum</li></ul>	0.065 dB/m 0.22 dB/m
impedance <ul style="list-style-type: none"><li>at 1 MHz ... 100 MHz</li></ul>	100 Ω
relative symmetrical tolerance <ul style="list-style-type: none"><li>of the characteristic impedance at 1 MHz ... 100 MHz</li></ul>	15 %
near-end crosstalk per length <ul style="list-style-type: none"><li>at 1 MHz ... 100 MHz</li></ul>	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"><li>RMS value</li></ul>	80 V
NVP value in percent	69 %
<b>mechanical data</b>	
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"><li>of AWG22 insulated conductor</li></ul>	0.64 mm
outer diameter <ul style="list-style-type: none"><li>of inner conductor</li><li>of the wire insulation</li><li>of the inner sheath of the cable</li><li>of cable sheath</li></ul>	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"><li>of the wire insulation</li><li>of the inner sheath of the cable</li><li>of cable sheath</li></ul>	polyethylene (PE) FRNC TPE (FR-TPE)
color <ul style="list-style-type: none"><li>of the insulation of data wires</li><li>of cable sheath</li></ul>	white/yellow/blue/orange green
bending radius <ul style="list-style-type: none"><li>with single bend / minimum permissible</li></ul>	26 mm

• with multiple bends / minimum permissible	52 mm
tensile load / maximum	150 N
weight per length	59 kg/km
<b>ambient conditions</b>	
ambient temperature	
• during operation	-40 ... +75 °C
• during storage	-40 ... +75 °C
• during transport	-40 ... +75 °C
• during installation	-20 ... +60 °C
• note	Electrical properties measured at 20 °C, tests according to DIN VDE 0472
fire behavior	flame resistant according to IEC 60332-1-2
class of burning behaviour / according to EN 13501-6	Eca
chemical resistance	
• to mineral oil	oil resistant according to DIN EN 50290-2-22 (VDE 0819), (7x24h/90°C), UL13 Sec.40 (96h/100°C)
• to grease	Conditional resistance
• to water	conditional resistance
radiological resistance / to UV radiation	resistant
<b>product features, product functions, product components / general</b>	
product feature	
• halogen-free	No
• silicon-free	Yes
wire length / for Industrial Ethernet	
• with 100BaseTX	100 m
<b>standards, specifications, approvals</b>	
UL/ETL listing / 300 V Rating	Yes; c(ETL)us, CM, PLTC, SUN RES
UL/ETL style / 600 V Rating	No
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
<b>further information / internet links</b>	
internet link	
• to web page: selection aid TIA Selection Tool	<a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a>
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to website: Information and Download Center	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
• to website: Selection guide for cables and connectors	<a href="https://sie.ag/2QdlxcP">https://sie.ag/2QdlxcP</a>
• to website: Image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
• to website: CAX-Download-Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

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