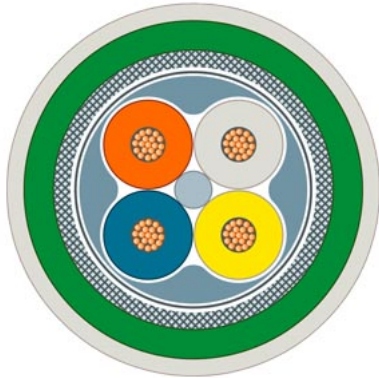


### product description



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

Industrial Ethernet FastConnect TP robust food GP cable 2x2 (PROFINET Type C), TP installation cable for use in the food beverages and tobacco industry, 4-core CAT5E, sold by the meter, delivery length max. 1000 m, Minimum order quantity: 20 m.

### suitability for use

Cable with FEP jacket (fluorinated plastic, perfluoroethylene propylene) for use in the food, beverages and tobacco industries (IP65/67/69 resistant, EHEDG approval). Line is water-repellent, weather-proof, resistant to microbes, and extremely resistant to many cleaning agents and disinfectants (such as hypochlorite, chlorine dioxide, peroxyacetic acid, and quaternary ammonium cations).

### cable designation

2YY(ST)CY6Y 2X2X0.75/1.55 LI VZN

### electrical data

attenuation factor per length	
<ul style="list-style-type: none"> <li>at 10 MHz / maximum</li> <li>at 100 MHz / maximum</li> </ul>	<p>0.095 dB/m</p> <p>0.32 dB/m</p>
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>	5 %
near-end crosstalk per length	
<ul style="list-style-type: none"> <li>at 1 MHz ... 100 MHz</li> </ul>	0.353 dB/m
transfer impedance per length / at 10 MHz	80 mΩ/m
loop resistance per length / maximum	120 mΩ/m
operating voltage	
<ul style="list-style-type: none"> <li>RMS value</li> </ul>	80 V
NVP value in percent	63 %

### 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"> <li>of AWG22 insulated conductor</li> </ul>	0.75 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>	<p>0.75 mm</p> <p>1.56 mm</p> <p>4 mm</p> <p>6.5 mm</p>
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> </ul>	<p>polyethylene (PE)</p> <p>PVC</p>

<ul style="list-style-type: none"> <li>of cable sheath</li> </ul>	PVC/FEP; FEP transparent
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> <li>with multiple bends / minimum permissible</li> <li>with continuous bending</li> </ul>	26 mm 52 mm 100 mm
number of bending cycles	500000; Acceleration 4 m/s <sup>2</sup>
number of torsion cycles / with torsion by ± 180° on 1 m cable length	1000000
tensile load / maximum	150 N
weight per length	72 kg/km
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>during installation</li> <li>note</li> </ul>	-40 ... +80 °C -40 ... +80 °C -40 ... +80 °C -40 ... +80 °C 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	
<ul style="list-style-type: none"> <li>to mineral oil</li> <li>to grease</li> <li>to water</li> </ul>	oil resistant according to IEC 60811-404 (7x24h/90°C) Conditional resistance resistant
radiological resistance / to UV radiation	resistant
<b>product features, product functions, product components / general</b>	
product feature	
<ul style="list-style-type: none"> <li>halogen-free</li> <li>silicon-free</li> </ul>	No Yes
wire length / for Industrial Ethernet	
<ul style="list-style-type: none"> <li>with 100BaseTX</li> </ul>	85 m
<b>standards, specifications, approvals</b>	
UL/ETL listing / 300 V Rating	Yes; c(ETL)us 3047254, CMG FT4 75°C, (ETL)us PLTC-ER, SUN RES, OIL RES I or E130266 AWM 22162 AWM I A/B 80°C 600V
UL/ETL style / 600 V Rating	No
certificate of suitability	
<ul style="list-style-type: none"> <li>EAC approval</li> <li>CE marking</li> <li>RoHS conformity</li> <li>for hygienic design</li> </ul>	Yes Yes Yes EHEDG, Installation and layout of the cables must fulfil the requirements of EHEDG published in the Guidelines Doc. 13 'Hygienic Design of open equipment for processing food' and Doc. 44 'Hygienic Design Principles for food factories' to be accessible for cleaning. Also connections must be easily cleanable by using EHEDG certified cable glands or connectors.
standard for structured cabling	Cat5e
Marine classification association	
<ul style="list-style-type: none"> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> <li>French marine classification society (BV)</li> <li>Det Norske Veritas (DNV)</li> <li>Germanische Lloyd (GL)</li> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> </ul>	No No No No No No No
reference code	
<ul style="list-style-type: none"> <li>according to IEC 81346-2</li> <li>according to IEC 81346-2:2019</li> </ul>	WG WGB
<b>further information / internet-Links</b>	

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#### Internet-Link

- 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

<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>

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10/30/2021 