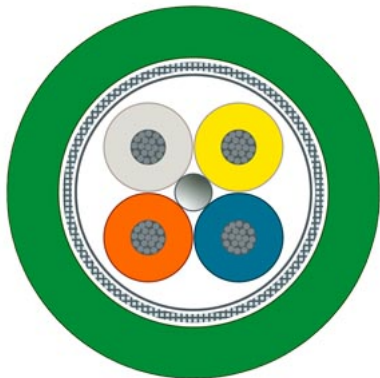


product description



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




Industrial Ethernet TP Torsion Cable, 2x2 (PROFINET Type C), TP installation cable, 4-core, shielded Cat5e, for use in highly flexible applications (torsion), sold by the meter, delivery length max. 1000 m, minimum order quantity 20 m.

suitability for use	Continuous motion control when using robots
cable designation	02YS C11Y 1x4x0,75/1,5-100 LI VZN FRNC GN SF/UTP
electrical data	
attenuation factor per length <ul style="list-style-type: none">at 10 MHz / maximumat 100 MHz / maximum	0.081 dB/m 0.41 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	5 %
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	100 mΩ/m
loop resistance per length / maximum	120 mΩ/m
operating voltage <ul style="list-style-type: none">RMS value	80 V
NVP value in percent	77 %
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	No
core diameter <ul style="list-style-type: none">of AWG22 insulated conductor	0.76 mm
outer diameter <ul style="list-style-type: none">of inner conductorof the wire insulationof cable sheath	0.76 mm 1.5 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 insulationof cable sheath	polyethylene (PE) PUR (TPE-U)
color <ul style="list-style-type: none">of the insulation of data wiresof cable sheath	white/yellow/blue/orange green
bending radius <ul style="list-style-type: none">with single bend / minimum permissiblewith multiple bends / minimum permissible	32.5 mm 65 mm
number of bending cycles	Not suitable for garland usage

number of torsion cycles / with torsion by $\pm 180^\circ$ on 1 m cable length	5000000
tensile load / maximum	130 N
weight per length	54 kg/km
ambient conditions	
ambient temperature <ul style="list-style-type: none"> during operation during storage during transport during installation note 	-40 ... +80 °C -40 ... +80 °C -40 ... +80 °C -20 ... +60 °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"> to mineral oil to grease to water 	oil resistant according to IEC 60811-2-1 (7x24h/90°C) Conditional resistance conditional resistance
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 	Yes Yes
wire length / for Industrial Ethernet <ul style="list-style-type: none"> with 100BaseTX 	75 m
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; UL Style 21161
UL/ETL style / 600 V Rating	No
certificate of suitability <ul style="list-style-type: none"> EAC approval CE marking RoHS conformity 	Yes Yes Yes
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) 	No No No No No No No
reference code <ul style="list-style-type: none"> according to IEC 81346-2 according to IEC 81346-2:2019 	WG WGB
further information / internet links	
internet link <ul style="list-style-type: none"> to website: Selection guide for cables and connectors to web page: selection aid TIA Selection Tool to web page: SiePortal to website: Image database to website: CAX-Download-Manager to website: Industry Online Support 	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax 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. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit

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Approvals / Certificates

General Product Approval			Test Certificates		
Manufacturer Declaration	 EG-Konf.	Declaration of Conformity		 CCC	Special Test Certificate

Environment	Industrial Communication
Confirmation	PROFINET

last modified:

8/8/2024 