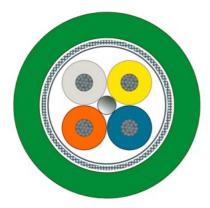
SIEMENS

Data sheet 6XV1870-2F

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.

| cable designation wire length vire length old by the meter old old by the meter old on the standard the the the meter old by the o | suitability for use | Continuous motion control when using robots |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------|
| electrical data attenuation factor per length 0.81 dB/m • at 10 MHz / maximum 0.41 dB/m impedance 0.41 dB/m • 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 0.5 dB/m transfer impedance per length / at 10 MHz 100 mD/m loop resistance per length / at 10 MHz 120 mD/m loop resistance per length / maximum 120 mD/m operating voltage 8 8 V • RMS value 80 V NVP value in percent 77 % mechanical data Veriapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires type of electrical conrection / FastConnect No core diameter • of AlWG22 insulated conductor 0.76 mm outer diameter • of inner conductor 0.76 mm • of the wire insulation 1.5 mm • of cable sheath 0.2 mm symmetrical tolerance of the outer diameter / of cable sheath polyethylene (PE) • of the wire insulation of data wires white/yell | cable designation | 02YS C11Y 1x4x0,75/1,5-100 LI VZN FRNC GN SF/UTP |
| attenuation factor per length at 1 to MHz / maximum at 1 to MHz / maximum o.41 dB/m impedance at 1 thz 100 MHz relative symmetrical tolerance of the characteristic impedance at 1 MHz 100 MHz relative symmetrical tolerance of the characteristic impedance at 1 MHz 100 MHz 5 % near-end crosstalk per length oliver length / at 10 MHz 100 mC/m loop resistance per length / at 10 MHz loop resistance per length / maximum operating voltage RMS value NVP value in percent 77 % mechanical data number of electrical cores 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 of inner conductor outer diameter of inner conductor of the wire insulation of othe wire insulation of cable sheath symmetrical tolerance of the outer diameter / of cable sheath material of the wire insulation of cable sheath purk (PE) PUR (TPE-U) color of the linual factor in the single bend / minimum permissible 32.5 mm | wire length | sold by the meter |
| at 10 MHz / maximum at 100 MHz / maximum o. 41 dB/m impedance at 1 MHz 100 MHz relative symmetrical tolerance of the characteristic impedance at 1 MHz 100 MHz relative symmetrical tolerance of the characteristic impedance at 1 MHz 100 MHz for at 1 MHz 100 MHz transfer impedance per length at 1 MHz 100 MHz transfer impedance per length / at 10 MHz loop resistance per length / maximum operating voltage RMS value NVP value in percent reschanical data number of electrical cores 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 of fAWG22 insulated conductor outer diameter of inner conductor of the wire insulation of cable sheath symmetrical tolerance of the outer diameter / of cable sheath material of the wire insulation of cable sheath pulk (TPE-U) color of the insulation of data wires with single bend / minimum permissible 32.5 mm | electrical data | |
| impedance • at 1 MHz 100 MHz relative symmetrical tolerance • of the characteristic impedance at 1 MHz 100 MHz near-end crosstalik per length • at 1 MHz 100 MHz transfer impedance per length / at 10 MHz transfer impedance per length / at 10 MHz tolop resistance per length / at 10 MHz tolop resistance per length / maximum operating voltage • RNS value 80 V NVP value in percent mochanical data number of electrical cores 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 • of AWG22 insulated conductor out diameter • of inner conductor • of the wire insulation • of cable sheath symmetrical tolerance of the outer diameter / of cable sheath material • of the wire insulation • of cable sheath pulk (TPE-U) color • of the insulation of data wires • of faragina and in the wire insulation • of cable sheath bending radius • with single bend / minimum permissible 32.5 mm | attenuation factor per length | |
| impedance ■ at 1 MHz 100 MHz relative symmetrical tolerance ■ of the characteristic impedance at 1 MHz 100 MHz near-end crosstalk per length ■ at 1 MHz 100 MHz transfer impedance per length / at 100 mΩ/m loop resistance per length / at 100 MHz loop resistance per length / maximum operating voltage ■ RMS value NVP value in percent number of electrical cores 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 ■ of AWG22 insulated conductor of the wire insulation of cable sheath symmetrical tolerance of the outer diameter / of cable sheath polyethylene (PE) of of the insulation of data wires of cable sheath of cable sheath pur (TPE-U) color with single bend / minimum permissible at 100 Ω Shem 100 Ω 100 | • at 10 MHz / maximum | 0.081 dB/m |
| e at 1 MHz 100 MHz relative symmetrical tolerance • of the characteristic impedance at 1 MHz 100 MHz near-end crosstalk per length • at 1 MHz 100 MHz transfer impedance per length / at 10 MHz tloop resistance per length / maximum operating voltage • RMS value NVP value in percent number of electrical cores design of the shield Coverapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires type of electrical connection / FastConnect No core diameter • of AWG22 insulated conductor outer diameter • of inner conductor • of the wire insulation of cable sheath symmetrical tolerance of the outer diameter / of cable sheath material • of the wire insulation • of cable sheath polyethylene (PE) PUR (TPE-U) color • of cable sheath pending radius • with single bend / minimum permissible 32.5 mm | • at 100 MHz / maximum | 0.41 dB/m |
| relative symmetrical tolerance • of the characteristic impedance at 1 MHz 100 MHz near-end crosstalk per length • at 1 MHz 100 MHz transfer impedance per length / at 10 MHz tolo mQ/m loop resistance per length / at 10 MHz 0.5 dB/m transfer impedance per length / at 10 MHz 100 mQ/m operating voltage • RNS value 80 V NVP value in percent 77 % mechanical data number of electrical cores 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 • of AWG22 insulated conductor of the wire insulation • of cable sheath symmetrical tolerance of the outer diameter / of cable sheath material • of the wire insulation • of cable sheath pulk (TPE-U) color • of the line line line and wires • of cable sheath pulk (TPE-U) color • of the insulation of data wires • of cable sheath percent of the line line line wire insulation • of cable sheath pulk (TPE-U) color • of the insulation of data wires • of cable sheath percent of the line line line line line line line lin | impedance | |
| of the characteristic impedance at 1 MHz 100 MHz near-end crosstalk per length • at 1 MHz 100 MHz transfer impedance per length / at 10 MHz loop resistance per length / at 10 MHz loop resistance per length / maximum operating voltage • RMS value • RMS value | • at 1 MHz 100 MHz | 100 Ω |
| near-end crosstalk per length • at 1 MHz 100 MHz transfer impedance per length / at 10 MHz 100 mΩ/m loop resistance per length / maximum operating voltage • RMS value NVP value in percent 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 • of AWG22 insulated conductor of the wire insulation • of cable sheath symmetrical tolerance of the outer diameter / of cable sheath material • of the wire insulation • of the insulation • of the insulation • of the insulation • of cable sheath PUR (TPE-U) color • of the insulation of data wires • of cable sheath green bending radius • with single bend / minimum permissible 32.5 mm | relative symmetrical tolerance | |
| at 1 MHz 100 MHz transfer impedance per length / at 10 MHz loop resistance per length / maximum operating voltage • RMS value NVP value in percent number of electrical cores 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 • of AWG22 insulated conductor outer diameter • of inner conductor • of the wire insulation • of cable sheath symmetrical tolerance of the outer diameter / of cable sheath material • of the wire insulation • of the insulation • of the wire insulation • of cable sheath PUR (TPE-U) color • of the insulation of data wires • of cable sheath pure (PE) PUR (TPE-U) color • of the insulation of data wires • of cable sheath pure (PE) • of white/yellow/blue/orange • of white/yellow/blue/orange • of white/yellow/blue/orange • of white yellow/blue/orange • of white yellow/blue/orange • of white yellow/blue/orange | • of the characteristic impedance at 1 MHz 100 MHz | 5 % |
| transfer impedance per length / at 10 MHz loop resistance per length / maximum operating voltage • 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 • of AWG22 insulated conductor outer diameter • of inner conductor • of the wire insulation • of cable sheath symmetrical tolerance of the outer diameter / of cable sheath material • of the wire insulation • of cable sheath of cable sheath of the insulation • of cable sheath purk (TPE-U) color • of the insulation of data wires • of cable sheath green bending radius • with single bend / minimum permissible 32.5 mm | near-end crosstalk per length | |
| loop resistance per length / maximum 120 mΩ/m operating voltage 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 0 of AWG22 insulated conductor 0.76 mm outer diameter 0 of inner conductor 0.76 mm of the wire insulation 1.5 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 wire insulation of data wires white/yellow/blue/orange of cable sheath green bending radius with single bend / minimum permissible 32.5 mm | • at 1 MHz 100 MHz | 0.5 dB/m |
| operating voltage • RMS value NVP value in percent mechanical data number of electrical cores 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 • of AWG22 insulated conductor outer diameter • of inner conductor • of the wire insulation • of cable sheath symmetrical tolerance of the outer diameter / of cable sheath material • of the wire insulation • of the insulation of data wires • of cable sheath DUR (TPE-U) bending radius • with single bend / minimum permissible 32.5 mm | transfer impedance per length / at 10 MHz | 100 mΩ/m |
| RMS value NVP value in percent 77 % mechanical data number of electrical cores 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 of AWG22 insulated conductor oter diameter of inner conductor of the wire insulation of cable sheath symmetrical tolerance of the outer diameter / of cable sheath naterial of the wire insulation of the wire insulation of the wire insulation of the insulation of data wires of the insulation of data wires of the insulation of data wires of cable sheath symmetrical tolerance of the outer diameter / of cable sheath polyethylene (PE) of cable sheath pur (TPE-U) color of the insulation of data wires white/yellow/blue/orange of cable sheath bending radius with single bend / minimum permissible 32.5 mm | loop resistance per length / maximum | 120 mΩ/m |
| NVP value in percent mechanical data number of electrical cores 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 of AWG22 insulated conductor outer diameter of inner conductor of the wire insulation of cable sheath symmetrical tolerance of the outer diameter / of cable sheath material of the wire insulation of the insulation of the insulation of data wires white/yellow/blue/orange green bending radius with single bend / minimum permissible 32.5 mm | operating voltage | |
| number of electrical cores 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 of AWG22 insulated conductor outer diameter of inner conductor of the wire insulation of cable sheath symmetrical tolerance of the outer diameter / of cable sheath material of the wire insulation of cable sheath PUR (TPE-U) color of the insulation of data wires of cable sheath bending radius with single bend / minimum permissible 32.5 mm | RMS value | 80 V |
| number of electrical cores 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 of AWG22 insulated conductor outer diameter of inner conductor of the wire insulation of cable sheath symmetrical tolerance of the outer diameter / of cable sheath material of the wire insulation of cable sheath PUR (TPE-U) color of the insulation of data wires of cable sheath bending radius with single bend / minimum permissible 4 Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires No Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires No Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires No Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires No Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires No Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires No Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires No Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires No Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires No Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires No Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires No Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires Overlapped aluminum-clad foil, sheathed conductor Overlapped aluminum-clad foil sheathed conductor O | NVP value in percent | 77 % |
| design of the shield Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires type of electrical connection / FastConnect No outer diameter of inner conductor of the wire insulation of cable sheath symmetrical tolerance of the outer diameter / of cable sheath material of the wire insulation of cable sheath PUR (TPE-U) color of cable sheath green bending radius with single bend / minimum permissible Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires No Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires No No 0.76 mm 0.76 mm 0.76 mm 0.5 mm PUR (PE) PUR (TPE-U) color white/yellow/blue/orange green | mechanical data | |
| type of electrical connection / FastConnect No core diameter of AWG22 insulated conductor outer diameter of inner conductor of the wire insulation of cable sheath symmetrical tolerance of the outer diameter / of cable sheath of the wire insulation polyethylene (PE) of cable sheath color of the insulation of data wires of cable sheath pure (TPE-U) color of the insulation of data wires of cable sheath preen white/yellow/blue/orange green bending radius with single bend / minimum permissible 32.5 mm | number of electrical cores | 4 |
| core diameter of AWG22 insulated conductor outer diameter of inner conductor of the wire insulation of cable sheath symmetrical tolerance of the outer diameter / of cable sheath material of the wire insulation of cable sheath PUR (TPE-U) color of the insulation of data wires of cable sheath green bending radius with single bend / minimum permissible 0.76 mm 0.77 mm 0.7 | design of the shield | |
| of AWG22 insulated conductor outer diameter of inner conductor of the wire insulation of cable sheath of cable sheath symmetrical tolerance of the outer diameter / of cable sheath of the wire insulation of the wire insulation of cable sheath of the wire insulation of the insulation of cable sheath PUR (TPE-U) color of the insulation of data wires of cable sheath green bending radius with single bend / minimum permissible 32.5 mm | type of electrical connection / FastConnect | No |
| outer diameter • of inner conductor • of the wire insulation • of cable sheath symmetrical tolerance of the outer diameter / of cable sheath material • of the wire insulation • of cable sheath polyethylene (PE) • of cable sheath PUR (TPE-U) color • of the insulation of data wires • of cable sheath bending radius • with single bend / minimum permissible 32.5 mm | core diameter | |
| of inner conductor of the wire insulation of cable sheath for cable sheath symmetrical tolerance of the outer diameter / of cable sheath of the wire insulation of the wire insulation of cable sheath PUR (TPE-U) color of the insulation of data wires of cable sheath bending radius with single bend / minimum permissible 0.76 mm 0.2 mm polyethylene (PE) PUR (TPE-U) white/yellow/blue/orange green | of AWG22 insulated conductor | 0.76 mm |
| of the wire insulation of cable sheath symmetrical tolerance of the outer diameter / of cable sheath material of the wire insulation polyethylene (PE) of cable sheath PUR (TPE-U) color of the insulation of data wires of cable sheath green bending radius with single bend / minimum permissible 32.5 mm | outer diameter | |
| of cable sheath symmetrical tolerance of the outer diameter / of cable sheath material of the wire insulation of cable sheath PUR (TPE-U) color of the insulation of data wires of cable sheath bending radius with single bend / minimum permissible 6.5 mm 6.5 mm 0.2 mm PUR (PE) PUR (TPE-U) white/yellow/blue/orange green | of inner conductor | 0.76 mm |
| symmetrical tolerance of the outer diameter / of cable sheath material of the wire insulation polyethylene (PE) PUR (TPE-U) color of the insulation of data wires white/yellow/blue/orange of cable sheath green bending radius with single bend / minimum permissible 32.5 mm | of the wire insulation | 1.5 mm |
| material of the wire insulation polyethylene (PE) purity (TPE-U) color of the insulation of data wires white/yellow/blue/orange of cable sheath green bending radius with single bend / minimum permissible 32.5 mm | of cable sheath | 6.5 mm |
| of the wire insulation of cable sheath PUR (TPE-U) color of the insulation of data wires of cable sheath green bending radius with single bend / minimum permissible pur (TPE-U) white/yellow/blue/orange green 32.5 mm | symmetrical tolerance of the outer diameter / of cable sheath | 0.2 mm |
| of cable sheath PUR (TPE-U) color of the insulation of data wires white/yellow/blue/orange of cable sheath green bending radius with single bend / minimum permissible 32.5 mm | material | |
| color • of the insulation of data wires white/yellow/blue/orange • of cable sheath green bending radius • with single bend / minimum permissible 32.5 mm | of the wire insulation | polyethylene (PE) |
| of the insulation of data wires of cable sheath bending radius with single bend / minimum permissible 32.5 mm | of cable sheath | PUR (TPE-U) |
| of cable sheath green bending radius with single bend / minimum permissible | color | |
| bending radius • with single bend / minimum permissible 32.5 mm | of the insulation of data wires | white/yellow/blue/orange |
| • with single bend / minimum permissible 32.5 mm | of cable sheath | green |
| | bending radius | |
| • with multiple bends / minimum permissible 65 mm | with single bend / minimum permissible | 32.5 mm |
| | with multiple bends / minimum permissible | 65 mm |

| number of bending cycles | Not suitable for garland usage |
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| 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 | 54 Ng/Mili |
| ambient temperature | |
| during operation | -40 +80 °C |
| during operation during storage | -40 +80 °C |
| during storage during transport | -40 +80 °C |
| during transport 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 | 200 |
| • to mineral oil | oil resistant according to IEC 60811-2-1 (7x24h/90°C) |
| • to grease | Conditional resistance |
| • to water | conditional resistance |
| radiological resistance / to UV radiation | resistant |
| product features, product functions, product components / gen | |
| product features, product functions, product components / gen- | |
| · | Yes |
| halogen-free silicon-free | Yes |
| wire length / for Industrial Ethernet | 160 |
| with 100BaseTX | 75 m |
| | 75 111 |
| standards, specifications, approvals | Vacal III. Chida 24404 |
| UL/ETL listing / 300 V Rating | Yes; UL Style 21161 |
| UL/ETL style / 600 V Rating | No |
| certificate of suitability | Voc |
| EAC approval CE positions | Yes Yes |
| CE marking Paul S conformity | Yes |
| RoHS conformity chanderd for attrictured cabling | |
| standard for structured cabling Marine classification association | Cat5e |
| | Ma |
| American Bureau of Shipping Europe Ltd. (ABS) Freech marine classification assists (RM) | No |
| French marine classification society (BV) Pat Nearly Veritor (DNV) | No |
| Det Norske Veritas (DNV) Correspisable Head (CL) | No |
| Germanische Lloyd (GL) Lloyde Register of Chinains (LDC) | No |
| Lloyds Register of Shipping (LRS) Ninnen Kajii Kuskai (NK) | No |
| Nippon Kaiji Kyokai (NK) Poloki Poloki Statkov (NRS) | No No |
| Polski Rejestr Statkow (PRS) | No |
| reference code | WO |
| according to IEC 81346-2 according to IEC 81346-3:2010 | WG |
| according to IEC 81346-2:2019 further information / interest links | WGB |
| 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 to website: CAX-Download-Ma | https://www.siemens.com/cax |
| to website: Industry Online Support | https://support.industry.siemens.com |
| security information | |
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Approvals / Certificates

General Product Approval

Test Certificates

Manufacturer Declaration



Declaration of Conformity





Special Test Certificate

Environment Industrial Communication

<u>Confirmation</u> <u>PROFINET</u>

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