SIEMENS

Data sheet 6XV1840-2AH10

product description



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

Industrial Ethernet FC TP Standard cable, GP 2x2 (PROFINET Type A), TP installation cable for connection to IE FC RJ45 2x2, for universal use, 4-core, shielded CAT 5E, sold by the meter, delivery unit max. 4000 m minimum order quantity 20 m.

| suitability for use | Standard cable with rigid cores for fast installation | |
|---|--|--|
| cable designation | 2YY (ST) CY 2x2x0,64/1,5-100 GN SF/UTP | |
| electrical data | | |
| attenuation factor per length | | |
| • at 10 MHz / maximum | 0.052 dB/m | |
| • at 100 MHz / maximum | 0.195 dB/m | |
| impedance | | |
| • at 1 MHz 100 MHz | 100 Ω | |
| relative symmetrical tolerance | | |
| • of the characteristic impedance at 1 MHz 100 MHz | 15 % | |
| near-end crosstalk per length | | |
| • at 1 MHz 100 MHz | 0.5 dB/m | |
| transfer impedance per length / at 10 MHz | 10 mΩ/m | |
| loop resistance per length / maximum | 115 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 | 0.64 mm | |
| outer diameter | | |
| • of inner conductor | 0.64 mm | |
| • of the wire insulation | 1.5 mm | |
| of the inner sheath of the cable | 3.9 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 inner sheath of the cable | PVC | |
| of cable sheath | PVC | |
| color | | |
| of the insulation of data wires | white/yellow/blue/orange | |
| of cable sheath | green | |
| bending radius | | |
| • with single bend / minimum permissible | 19.5 mm | |
| | | |

| with multiple bends / minimum permissible | 49 mm |
|---|---|
| tensile load / maximum | 150 N |
| weight per length | 61 kg/km |
| ambient conditions | |
| ambient temperature | |
| during operation | -40 +75 °C |
| during storage | -40 +75 °C |
| during conage during transport | -40 +75 °C |
| during installation | -40 +60 °C |
| • note | Electrical properties measured at 20 °C, tests according to DIN VDE 0472 |
| fire behavior | flame resistant according to IEC 60332-3-24 (Category C) and 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 60811-2-1 (4 h / 70°C) |
| • to grease | Conditional resistance |
| • to water | conditional resistance |
| radiological resistance / to UV radiation | resistant |
| product features, product functions, product components / gene | eral |
| product feature | |
| • halogen-free | No |
| • silicon-free | Yes |
| wire length / for Industrial Ethernet | |
| with 100BaseTX | 100 m |
| standards, specifications, approvals | |
| UL/ETL listing / 300 V Rating | Yes; c(ETL)us / CMG / (ETL)us PLTC/ ITC / Sun 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 |
| further information / internet links | |
| internet link | |
| to website: Image database | https://www.automation.siemens.com/bilddb |
| to website: Industry Online Support | https://support.industry.siemens.com |
| security information | |
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General Product Approval

Test Certificates

Manufacturer Declaration



Declaration of Conformity





Special Test Certificate

| other | Environment | Industrial Communication | |
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| Manufacturer Declara- tion | Confirmation | PROFINET | |
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