SIEMENS

Data sheet

6XV1840-2AH10

| product type designation product description |
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IE FC TP Standard Cable GP 2 x 2 (Type A)

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 length max. 4000 m minimum order 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 | 66 % |
| 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 |
| | plated copper wires |
| type of electrical connection / FastConnect | Yes |
| type of electrical connection / FastConnect core diameter | |
| | |
| core diameter | Yes |
| • of AWG22 insulated conductor | Yes |
| ore diameter • of AWG22 insulated conductor outer diameter | Yes 0.64 mm |
| core diameter • of AWG22 insulated conductor outer diameter • of inner conductor | Yes 0.64 mm 0.64 mm |
| core diameter • of AWG22 insulated conductor outer diameter • of inner conductor • of the wire insulation | Yes 0.64 mm 0.64 mm 1.5 mm |
| core diameter • of AWG22 insulated conductor outer diameter • of inner conductor • of the wire insulation • of the inner sheath of the cable | Yes 0.64 mm 1.5 mm 3.9 mm |
| core diameter • of AWG22 insulated conductor outer diameter • of inner conductor • of the wire insulation • of the inner sheath of the cable • of cable sheath symmetrical tolerance of the outer diameter / of cable | Yes 0.64 mm 0.64 mm 1.5 mm 3.9 mm 6.5 mm |
| core diameter • of AWG22 insulated conductor outer diameter • of inner conductor • of the wire insulation • of the inner sheath of the cable • of cable sheath symmetrical tolerance of the outer diameter / of cable sheath | Yes 0.64 mm 0.64 mm 1.5 mm 3.9 mm 6.5 mm |
| core diameter • of AWG22 insulated conductor outer diameter • of inner conductor • of the wire insulation • of the inner sheath of the cable • of cable sheath symmetrical tolerance of the outer diameter / of cable sheath material | Yes 0.64 mm 1.5 mm 3.9 mm 6.5 mm 0.2 mm |

| 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 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 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 | / general |
| product feature | |
| halogen-free | No |
| silicon-free | Yes |
| wire length / for Industrial Ethernet | |
| • with 100BaseTX | 100 m |
| | |
| standards, specifications, approvals | |
| standards, specifications, approvals UL/ETL listing / 300 V Rating | Yes: c(ETL)us / CMG / (ETL)us PLTC/ ITC / Sun Res |
| UL/ETL listing / 300 V Rating | Yes; c(ETL)us / CMG / (ETL)us PLTC/ ITC / Sun Res Yes: cRUus AWM 21694 AWM I A/B 60°C 600V FT2 |
| UL/ETL listing / 300 V Rating UL/ETL style / 600 V Rating | Yes; c(ETL)us / CMG / (ETL)us PLTC/ ITC / Sun Res Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2 |
| UL/ETL listing / 300 V Rating UL/ETL style / 600 V Rating certificate of suitability | Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2 |
| UL/ETL listing / 300 V Rating UL/ETL style / 600 V Rating certificate of suitability • EAC approval | Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2 Yes |
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| UL/ETL listing / 300 V Rating UL/ETL style / 600 V Rating certificate of suitability • EAC approval • CE marking • RoHS conformity | Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2 Yes Yes Yes |
| UL/ETL listing / 300 V Rating UL/ETL style / 600 V Rating certificate of suitability • EAC approval • CE marking • RoHS conformity standard for structured cabling | Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2 Yes Yes |
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