

product description

Standard bus cable (4 wires), preferred length, not assembled

Industrial Ethernet FC TP standard cable GP TP installation cable for Connection to IE FC RJ45 2x2, for universal use, CAT 5, 1000 m.



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| suitability for use | Standard cable with rigid cores for fast installation |
| cable designation | 2YY (ST) CY 2x2x0,64/1,5-100 GN SF/UTP |
| wire length | 1000 m |
| 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 % |
| 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 |
| 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 | |

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| <ul style="list-style-type: none"> with single bend / minimum permissible | 19.5 mm |
| <ul style="list-style-type: none"> with multiple bends / minimum permissible | 49 mm |
| tensile load / maximum | 150 N |
| weight per length | 61 kg/km |
| ambient conditions | |
| ambient temperature | |
| <ul style="list-style-type: none"> during operation | -40 ... +75 °C |
| <ul style="list-style-type: none"> during storage | -40 ... +75 °C |
| <ul style="list-style-type: none"> during transport | -40 ... +75 °C |
| <ul style="list-style-type: none"> during installation | -40 ... +60 °C |
| <ul style="list-style-type: none"> 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 | |
| <ul style="list-style-type: none"> to mineral oil | oil resistant according to IEC 60811-2-1 (4 h / 70°C) |
| <ul style="list-style-type: none"> to grease | Conditional resistance |
| <ul style="list-style-type: none"> to water | 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 | No |
| <ul style="list-style-type: none"> silicon-free | Yes |
| wire length / for Industrial Ethernet | |
| <ul style="list-style-type: none"> 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 | |
| <ul style="list-style-type: none"> EAC approval | Yes |
| <ul style="list-style-type: none"> CE marking | Yes |
| standard for structured cabling | Cat5e |
| Marine classification association | |
| <ul style="list-style-type: none"> American Bureau of Shipping Europe Ltd. (ABS) | No |
| <ul style="list-style-type: none"> French marine classification society (BV) | No |
| <ul style="list-style-type: none"> Det Norske Veritas (DNV) | No |
| <ul style="list-style-type: none"> Germanische Lloyd (GL) | No |
| <ul style="list-style-type: none"> Lloyds Register of Shipping (LRS) | No |
| <ul style="list-style-type: none"> Nippon Kaiji Kyokai (NK) | No |
| <ul style="list-style-type: none"> Polski Rejestr Statkow (PRS) | No |
| reference code | |
| <ul style="list-style-type: none"> according to IEC 81346-2 | WG |
| <ul style="list-style-type: none"> according to IEC 81346-2:2019 | WGB |
| further information / internet-Links | |
| Internet-Link | |
| <ul style="list-style-type: none"> to web page: selection aid TIA Selection Tool | http://www.siemens.com/tia-selection-tool |
| <ul style="list-style-type: none"> to website: Industrial communication | http://www.siemens.com/simatic-net |
| <ul style="list-style-type: none"> to website: Industry Mall | https://mall.industry.siemens.com |
| <ul style="list-style-type: none"> to website: Information and Download Center | http://www.siemens.com/industry/infocenter |
| <ul style="list-style-type: none"> to website: Selection guide for cables and connectors | https://sie.ag/2QdlxcP |
| <ul style="list-style-type: none"> to website: Image database | http://automation.siemens.com/bilddb |
| <ul style="list-style-type: none"> to website: CAx-Download-Manager | http://www.siemens.com/cax |
| <ul style="list-style-type: none"> to website: Industry Online Support | https://support.industry.siemens.com |
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