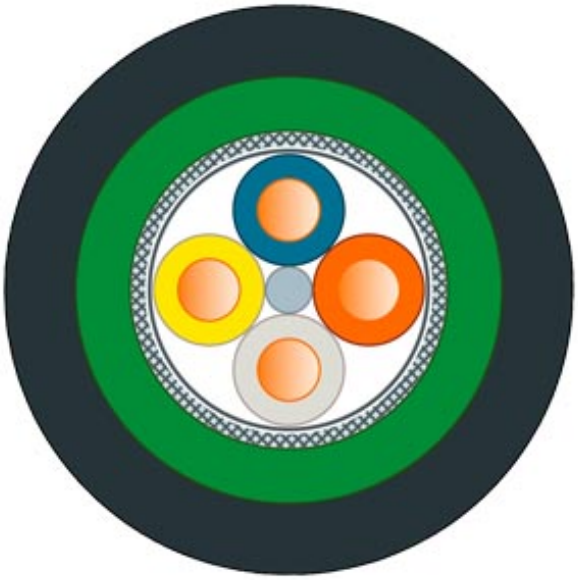
SIEMENS

## Data sheet 6XV1871-2G

**product type designation**
product description

**IE TP Ground Cable 2x2 (Type C)**
Standard bus cable (4-core), for laying underground, sold by the meter, unassembled
IE ground cable 2x2 Underground laying cable 4-core shielded Sold by the meter Delivery length max. 1000 m Minimum order 20 m



| | |
|---|---|
| suitability for use | Standard cable with rigid cores for fast installation |
| cable designation | 2YY(ST)CY2Y2x2x0.64/1.50-100 SF/UTP |
| **electrical data** | |
| damping ratio per length | |
| • at 10 MHz / maximum | 0.063 dB/m |
| • at 100 MHz / maximum | 0.213 dB/m |
| impedance | |
| • 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 | |
| • at 1 MHz ... 100 MHz | 0.5 dB/m |
| transfer impedance per length / at 10 MHz | 10 mΩ/m |
| loop resistance per length / maximum | 124 mΩ/m |
| operating voltage | |
| • RMS value | 100 V |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| | |
|---|---|
| NVP value in percent | 64 % |

| 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 core | 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 | 4 mm |
| • of cable sheath | 9 mm |
| • of cable sheath / note | Cable diameter >6.5 mm because of additional PE outer cover. Cable can only be connected to RJ45/M12 connector after outer cover is removed. |
| 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 | PE/PVC |
| color | |
| • of the insulation of data wires | white/yellow/blue/orange |
| • of cable sheath | Black |
| bending radius | |
| • with single bend / minimum permissible | 80 mm |
| • with multiple bends / minimum permissible | 80 mm |
| tensile load / maximum | 150 N |
| weight per length | 97 kg/km |

| ambient conditions | |
|---|---|
| ambient temperature | |
| • during operation | -40 ... +70 °C |
| • during storage | -40 ... +70 °C |
| • during transport | -40 ... +70 °C |
| • during installation | -5 ... +50 °C |
| • note | Electrical properties measured at 20 °C, tests according to EN50288-2-1 |
| burning behavior | inflammable |
| class of burning behaviour / according to EN 13501-6 | Fca |
| chemical resistance | |
| • to mineral oil | conditional resistance |


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| | |
|---|---|
| • to grease | Conditional resistance |
| • to water | Resistant |
| 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

| | |
|---|---|
| UL/ETL listing / 300 V Rating | No |
| UL/ETL style / 600 V Rating | No |
| 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 |
| • Bureau Veritas (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 |

## further information / internet-Links

| | |
|---|---|
| Internet-Link | |
| • to website: Selector SIMATIC NET SELECTION TOOL | http://www.siemens.com/snst |
| • to website: Industrial communication | http://www.siemens.com/simatic-net |
| • to website: Industry Mall | https://mall.industry.siemens.com |
| • to website: Information and Download Center | http://www.siemens.com/industry/infocenter |
| • to website: Image database | http://automation.siemens.com/bilddb |
| • to website: CAx Download Manager | http://www.siemens.com/cax |
| • to website: Industry Online Support | https://support.industry.siemens.com |

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