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|---|---|
|   | IE GROUND CABLE 2X2 GROUND CABLE 4-WIRE SHIELDED,<br>SOLD BY THE METER MAX. CONSIGNMENT 1000 M MIN.<br>ORDER QUANTITY: 20 M                                     |
| Acceptability for application                             | Standard cable with rigid cores for fast installation   |
| <b>Electrical data</b>                                    |   |
| Damping ratio per length                                  |   |
| • at 10 MHz / maximum                                     | 0.063 dB/m  |
| • at 100 MHz / maximum                                    | 0.213 dB/m  |
| Impedance   |   |
| • for frequency range 1 MHz ... 100 MHz                   | 100 Ω   |
| Relative symmetrical tolerance                            |   |
| • of the surge impedance at 1 MHz ... 100 MHz             | 5 %   |
| Near-end crosstalk per length                             |   |
| • at 1 MHz ... 100 MHz                                    | 0.5 dB/m  |
| Transfer impedance / at 10 MHz                            | 10 mΩ/m   |
| Loop resistance per length / maximum                      | 124 Ω/km  |
| Operating voltage   |   |
| • RMS value   | 100 V   |
| percentage NVP value                                      | 64 %  |
| <b>Mechanical data</b>                                    |   |
| Number of electrical wires                                | 4   |
| Design of shield  | Overlapped aluminum-clad foil, sheathed in a braided screen of tinned copper wires  |
| Design of the electrical connection / FastConnect         | Yes   |
| Core diameter   |   |
| • of the AWG22 core                                       | 0.64 mm   |
| Outer diameter  |   |
| • of the inner conductor                                  | 0.64 mm   |
| • of the wire insulation                                  | 1.5 mm  |
| • of the inner sheath of the cable                        | 4 mm  |
| • of the cable sheath                                     | 9 mm  |
| Symmetrical tolerance of outer diameter / of cable sheath | 0.2 mm  |
| Outer diameter / of the cable sheath / Note               | Cable diameter > 6.5 mm due to additional PE protective jacket.<br>Cable can only be connected in the RJ45/M12 connector after stripping the protective jacket. |
| Material  |   |

|  |  |
|--|--|
| • of the wire insulation                                   | PE   |
| • of the inner sheath of the cable                         | PVC  |
| • of the cable sheath                                      | PVC  |
| <b>Color</b>   |  |
| • of the insulation of data wires                          | white / yellow / blue / orange   |
| • of the cable sheath                                      | Black  |
| <b>Bending radius</b>                                      |  |
| • with single bend / minimum permissible                   | 80 mm  |
| • with multiple bends / minimum permissible                | 80 mm  |
| <b>Traction stress / maximum</b>                           | 150 N  |
| <b>Weight per length</b>                                   | 97 kg/km   |
| <b>Permitted ambient conditions</b>                        |  |
| <b>Ambient temperature</b>                                 |  |
| • during operating   | -40 ... +70 °C   |
| • during storage   | -40 ... +70 °C   |
| • during transport   | -40 ... +70 °C   |
| • during installation                                      | -5 ... +50 °C  |
| • Comment  | Electrical characteristics measured at 20 °C, tests according to EN50288-2-1 |
| <b>Burning behaviour</b>                                   | inflammable  |
| <b>Chemical resistance</b>                                 |  |
| • to mineral oil   | Conditional resistance   |
| • to grease  | Conditional resistance   |
| • to water   | Resistant  |
| <b>Radiological resistance / to UV radiation</b>           | Resistant  |
| <b>Product properties, functions, components / general</b> |  |
| <b>Product feature</b>                                     |  |
| • halogen-free   | No   |
| • silicon-free   | Yes  |
| <b>Cable length</b>  |  |
| • with 100BaseTX / for Industrial Ethernet                 | 100 m  |
| <b>Standards, specifications, approvals</b>                |  |
| UL/ETL listing / with 300 V rating                         | No   |
| UL/ETL style / with 600 V rating                           | No   |
| <b>Verification of suitability</b>                         |  |
| • CE mark  | Yes  |
| • RoHS conformity  | Yes  |
| <b>Standard for structured cabling</b>                     | Cat5e  |
| <b>Marine classification association</b>                   |  |
| • American Bureau of Shipping Europe Ltd. (ABS)            | No   |

- Bureau Veritas (BV)
- Det Norske Veritas (DNV)
- Germanische Lloyd (GL)
- Lloyds Register of Shipping (LRS)
- Nippon Kaiji Kyokai (NK)
- Polski Rejestr Statkow (PRS)

No  
No  
No  
No  
No  
No

**letzte Änderung:**

Jul 25, 2014