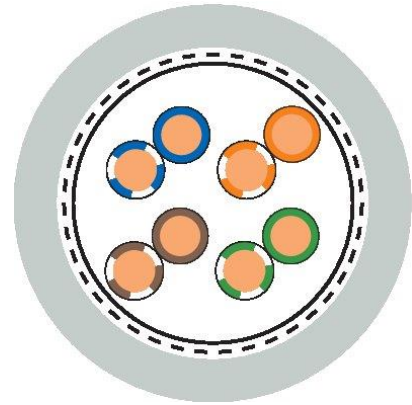


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| 2170951 | DATA SHEET |  |
| Valid from: 01.05.2018 | ETHERLINE® LAN 200 Cat.5e SF/UTP | |

Description

ETHERLINE® LAN 200 Cat.5e SF/UTP is an installation cable for structured horizontal cabling. These cables are ideal for LAN data transmission in all Ethernet (IEEE 802.3) applications up to 1000 Base-T. IEC 61156-5/ISO/IEC 11801, EN 50173-1, EIA/TIA 568C.2



General characteristics

| | | |
|--------------------------|--|-------------------------------|
| Conductor | Solid bare copper wire, AWG 24/1 | |
| Insulation | solid polyethylene | |
| Core identification code | Pair 1: white/blue – blue | Pair 2: white/orange – orange |
| | Pair 3: white/green – green | Pair 4: white/brown – brown |
| Stranding | two cores stranded to pairs | |
| Screening | aluminum laminated polyester foil <u>above:</u> | |
| Outer sheath | braiding of tinned copper wires PVC compound outer Ø: approx. 6.3 mm color: grey, similar to RAL 7035 | |

Mechanical characteristics

| | |
|--|---|
| Minimum bending radius | at installation: 4 x cable Ø fixed installation: 8 x cable Ø |
| Permissible temperature range | at installation: 0 °C up to +50 °C fixed installation: -20 °C up to +60 °C |
| Flame propagation | flame retardant acc. to IEC 60332-1-2 |
| Classification of fire behaviour acc. to EU Regulation 305/2011 (CPR) | Eca (acc. to EN13501-6 and EN50575) |

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| Creator: TOST/PDC Released: HAPF/PDC | Document: DB2170951EN Version: 01 | Page 1 of 2 |
|---|--------------------------------------|-------------|

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| 2170951 | DATA SHEET |  |
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Electrical characteristics

| | |
|--------------------------|--------------------------------|
| DC-Resistance (loop) | max. 176.0 Ω/km |
| Insulation resistance | min. 5 GΩ x km |
| Mutual capacitance | nom. 50 nF/km at 1 kHz |
| Characteristic impedance | nom. 100 Ω acc. to IEC 61156-5 |
| Operating peak voltage | 100 V (not for power purposes) |
| velocity of propagation | approx. 0.69 c |
| Test voltage | core/core: 700 V |

Transmission properties

Transmission properties acc. to IEC 61156-5 for Category Cat.5e:

| f [MHz] | Attenuation [dB/100m] | | PS NEXT [dB] | | EL FEXT [dB] | | Return Loss [dB] | |
|--------------|--------------------------|---------|-----------------|---------|-----------------|---------|---------------------|---------|
| | standard | typical | standard | typical | standard | typical | standard | typical |
| 1* | 2.1 | 1.9 | 65 | 83 | 64 | 83 | 20.0 | 31 |
| 4 | 4.1 | 3.7 | 56 | 73 | 52 | 71 | 23.0 | 33 |
| 10 | 6.5 | 5.7 | 50 | 71 | 44 | 63 | 25.0 | 37 |
| 16 | 8.3 | 7.5 | 47 | 68 | 40 | 59 | 25.0 | 27 |
| 31,25 | 11.7 | 10.5 | 43 | 63 | 34 | 55 | 23.6 | 38 |
| 62,5 | 17.0 | 15.0 | 38 | 57 | 28 | 49 | 21.5 | 33 |
| 100 | 22.0 | 19.1 | 35 | 49 | 24 | 47 | 20.1 | 28 |
| 155 | - | 23.2 | - | 45 | - | 41 | - | 25 |
| 200 | - | 25.5 | - | 41 | - | 37 | - | 22 |

* Extract of normative minimum requirements

Standard

| | |
|--------------|--|
| EU-Directive | Dangerous and forbidden substances acc. to RoHS directive (2011/65/EU) are not allowed to the manufacturing. |
|--------------|--|

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| Creator: TOST/PDC Released: HAPF/PDC | Document: DB2170951EN Version: 01 | Page 2 of 2 |
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