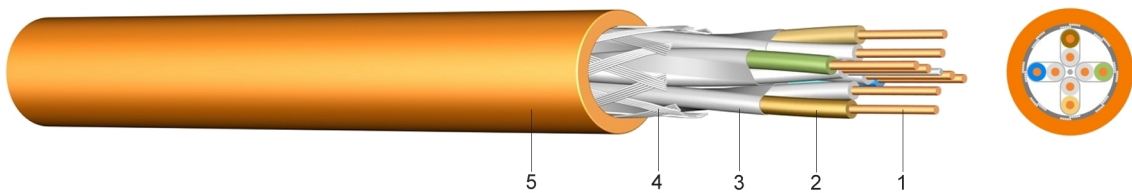


LAN 1200 (S/FTP Pimf)

Data Transmission Cable with Pair Wise Shielding and Overall Shielding, Category 7

Application:

In the horizontal wiring as an installation cable for the transfer in cable canals as well as in pipes within telecommunication installations and data systems.
Area of application: ISDA, B-ISDA, IEEE 802.3 10 Base T Ethernet, IEEE 802.3 100 Base T Ethernet, IEEE 802.5 Token Ring CCDI (FDDI at Cu), Gigabit-Ethernet, ATM, DQDB, Video



Construction:

- 1 solid bare copper, \varnothing 0,55mm or 0,64mm
- 2 core insulation of foam-skin polyethylene
- 3 pair wise shielding of plastic laminated aluminium with a tinned drain wire (\varnothing 0,4)
- 4 braid of tinned copper wires
- 5 outer sheath of halogen-free polymer compound, yellow or orange

Standards:

Category 7
EN 50288-4-1
IEC 332-1, IEC 754-2, IEC 1034-2
IEC 708-1 (core identification)

Technical data:

| | | | | | |
|------------------------------|-----------|--------------------|------------------|----------------------------|---------------------|
| Temperature range | moved | | -20°C till +60°C | Bending rad. under tension | 8,0 x \varnothing |
| Loop impedance | | [Ohm/100m] | 11,5 | Bending rad. no tension | 4,0 x \varnothing |
| Capacity | max. | [nF/100m] | 50 | | |
| Nom. Velocity of propagation | NVP nom. | | 77,0 | | |
| Attenuation | 1-100 MHz | [Ohm] | 100,0 +/- 25 | | |
| Coupling resistance | 1-100 MHz | [mOhm/m] | 10 | | |
| Capacity coupling (f=800 Hz) | K<100 | [pF/100m] | 150 | | |
| Insulation resistance | | [GOhm/m] | >5 | | |
| Test voltage at 50 Hz | | [V _{AC}] | 700 | | |

| Frequency [MHz] | Line attenuation α [dB/100m] | | Next [dB] α_{NN} | | ACR [dB] | | ELFEXT [dB] α_{ELFEXT} | | Return Loss R _L [dB] | |
|-----------------|-------------------------------------|------------|-------------------------|------------|----------|------------|-------------------------------|------------|---------------------------------|------------|
| | nom.* | max. CAT 7 | nom.* | min. CAT 7 | nom.* | min. CAT 7 | nom.* | min. CAT 7 | nom.* | min. CAT 7 |
| 1 | 2,0 | - | 90 | 78 | 88,0 | - | 85 | - | 23,0 | - |
| 4 | 3,2 | 3,5 | 90 | 78 | 86,8 | - | 85 | 75 | 24,0 | 23,0 |
| 10 | 5,1 | 5,4 | 90 | 78 | 84,9 | - | 80 | 71 | 26,0 | 25,0 |
| 20 | 6,5 | 6,8 | 90 | 78 | 83,5 | - | 75 | 65 | 26,0 | 25,0 |
| 62,5 | 13,4 | 13,7 | 90 | 78 | 76,6 | - | 65 | 55 | 23,5 | 22,5 |
| 100 | 17,0 | 17,5 | 83 | 76 | 66,0 | - | 61 | 51 | 22,5 | 21,5 |
| 200 | 24,5 | 25,3 | 78 | 71 | 53,5 | - | 55 | 45 | 21,0 | 20,0 |
| 300 | 31,1 | 31,5 | 77 | 69 | 45,9 | - | 51 | 41 | 20,1 | 19,1 |
| 600 | 45,0 | 46,3 | 75 | 64 | 30,0 | - | 45 | 35 | 18,6 | 17,6 |
| 900 | 56,9 | 58,3 | 73 | 62 | 16,1 | - | 42 | 32 | 17,7 | 16,7 |
| 1000 | 60,5 | 62,0 | 72 | 61 | 11,5 | - | 41 | 31 | 17,3 | 16,5 |
| 1200 | 67,0 | 69,0 | 70 | 60 | 3,0 | - | 39 | 29 | 17,3 | 16,1 |

* Category 7 - Values per ISO / IEC 11801, EN 50173

| Number of pairs and nominal dimensions AWG Nr. | Copper figure kg/km | Overall diameter appr.mm | Calorific potential kWh/m | Tensile force N | Weight appr. kg/km |
|---|------------------------|-----------------------------|------------------------------|--------------------|-----------------------|
| 4 x 2 x AWG22 FRNC | 49,9 | 8,5 | 0,19 | 150 | 78 |
| 2 x(4 x 2 x AWG22)FRNC | 99,8 | 17,0x8,5 | 0,38 | 300 | 156 |