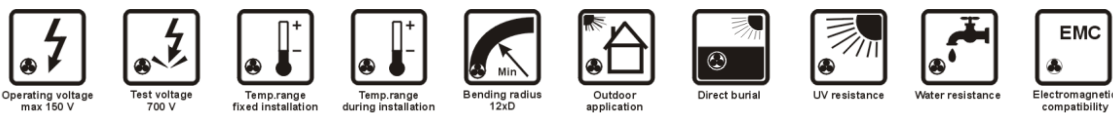
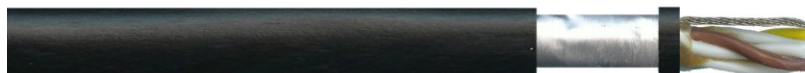


**TECHNODATA LAN-T1 2x2x0,75 mm<sup>2</sup> - 10 MHz**

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**LOCAL AREA NETWORK CABLES****APPLICATIONS**

**TECHNODATA LAN-T1 2x2x0,75 mm<sup>2</sup>** cable is intended for industrial and other dedicated networks sensitive to electromagnetic interferences.

Moisture barrier is made of plastic laminated aluminium tape longitudinally applied over a cable core and bonded to polyethylene (PE) cable sheath. The cable core is filled with petro-gel to protect the cable against moisture penetration along the cable.

Sheathing polyethylene (PE) is halogen free and UV radiation and weather resistant, however, it is not self-extinguishing and flame retardant.

The cable is suitable for outdoor installations, laying in ducts and direct earth burial.

**CONSTRUCTION**

- flexible, multiwire conductors, stranded of bare annealed copper wires, cross-section 0.75 mm<sup>2</sup>, meeting requirements of class 5 per PN-EN 60228,
- foam-skin polyethylene (PE) insulation coloured: white and blue, white and orange,
- insulated conductors twisted into pairs,
- pairs laid-up into a cable core,
- cable core filled-up with petro-gel and wrapped in a polyester tape,
- moisture barrier and additional cable shielding made of a plastic laminated aluminium tape and a drain wire under the tape longitudinally applied over the cable core,
- black polyethylene (PE) cable sheath.

**AVAILABLE UPON REQUEST**

**TECHNODATA LAN-T1n 2x2x0,75 mm<sup>2</sup>** - cable intended for suspension on poles. The cable is integrated with a steel rope by an 8 shape polyethylene (PE) common sheath.

**TECHNODATA LAN-T1-FOR 2x2x0,75 mm<sup>2</sup>** - cables with additional covering which is then made of special oil-resistant, self-extinguishing PVC of higher oxygen index. Cables are dedicated for indoor installations and in locations where oil-resistant and flame retardant is required.

**TECHNODATA LAN-T1 2x2x0,75 mm<sup>2</sup> - 10 MHz**

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**CHARACTERISTICS**

|  |            |  |                            |
|--|------------|--|----------------------------|
| Characteristic impedance                                   | 100 ± 15 Ω | Shielding impedance at 10 MHz, maximum               | 10 mΩ/m                    |
| Mutual capacitance of any pair at 1 kHz, approximate       | 56 nF/km   | DC loop resistance at 20°C, maximum                  | 52 Ω/km                    |
| Capacitance unbalance of any pair to ground at 1 kHz, max. | 1600 pF/km | Resistance unbalance of any pair of conductors, max. | 3 %                        |
| Insulation resistance, minimum                             | 150 MΩ·km  | Operating temperature range during operation         | from - 40 to + 70°C        |
| Operating voltage  | 150 V      | during installation                                  | from -10 to + 50°C         |
| Voltage test   | 700 V rms  | Minimum bending radius                               | 12 x cable diameter        |
| Velocity of propagation                                    | 65 %       | Reference standards                                  | PN-EN 50173, ISO/IEC 11801 |
| Return loss, minimum at f=1÷10 MHz                         | 23 dB      |  |                            |
| Minimum shielding attenuation at the frequency f=1÷200 MHz | 75 dB      |  |                            |

| Frequency MHz | Attenuation loss, maximum dB/100m | Near end cross-talk for cable length ≥ 100 m minimum dB |
|---------------|-----------------------------------|---|
| 1.0           | 1.3                               | 41.3  |
| 2.0           | 1.8                               | 36.8  |
| 4.0           | 2.6                               | 32.3  |
| 6.0           | 3.2                               | 29.6  |
| 8.0           | 3.7                               | 27.8  |
| 10.0          | 4.3                               | 26.3  |

**CE = the cable meets requirements of the low voltage directive 2014/35/EU**

| Product No. | Number of pairs (x 2) x conductor cross-section | Cable outer diameter (appr.) | Copper index | Cable weight (appr.) |
|-------------|---|------------------------------|--------------|----------------------|
|             | mm <sup>2</sup>                                 | mm                           | kg/km        | kg/km                |
| 0024 010    | 2 x 2 x 0,75                                    | 11.4                         | 33.2         | 116                  |

**TECHNOKABEL S.A. reserves the right to change specifications without prior notice.**