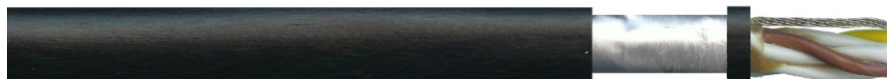


TECHNODATA LAN-T14 3x2x1,0 mm² - 10 MHz

LOCAL AREA NETWORK CABLESOperating voltage
max 150 VTest voltage
700 VTemp. range
fixed installation
from -40°C to +70°CTemp. range
during installation
from -10°C to +50°CBending radius
12xDOutdoor
application

Direct burial



UV resistance



Water resistance

Electromagnetic
compatibility**APPLICATIONS**

TECHNODATA LAN-T14 3x2x1,0 mm² 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 annealed tin-plated copper wires, cross-section 1.0 mm², meeting requirements of class 2 per PN-EN 60228,
- foam-skin polyethylene (PE) insulation coloured: white and brown, white and green, white and yellow,
- 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-T14n 3x2x1,0 mm² - cable intended for suspension on poles. The cable is integrated with a steel rope by an 8 shape polyethylene (PE) common sheath.

TECHNODATA LAN-T14-FOR 3x2x1,0 mm² - 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-T14 3x2x1,0 mm² - 10 MHz**CHARACTERISTICS**

Characteristic impedance	100 ± 15 Ω	Minimum shielding attenuation at the frequency f=1÷200 MHz	75 dB
Mutual capacitance of any pair at 1 kHz, approximate	56 nF/km	Shielding impedance at 10 MHz, maximum	10 mΩ/m
Capacitance unbalance of any pair to ground at 1 kHz, max.	1600 pF/km	DC loop resistance at 20°C, maximum	39 Ω/km
Insulation resistance, minimum	150 MΩ·km	Resistance unbalance of any pair of conductors, max.	3 %
Operating voltage	150 V	Operating temperature range during operation	from - 40 to + 70°C
Voltage test	700 V rms	during installation	from -10 to + 50°C
Velocity of propagation [%]	65 %	Minimum bending radius	12 x cable diameter
Return loss, minimum f=1÷10 MHz	23 dB	Reference standards	PN-EN 50173, ISO/IEC 11801

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	1.7	36.8
4.0	2.3	32.3
6.0	2.8	29.6
8.0	3.1	27.8
10.0	3.5	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 ²	mm	kg/km	kg/km
0024 007	3 x 2 x 1,0	13.4	59.0	178.5

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