

**TECHNODATA LAN-T10 kat.5 1x2x0,34c mm<sup>2</sup>****LOCAL AREA NETWORK CABLES****APPLICATIONS**

**TECHNODATA LAN-T10 kat.5 1x2x0,34c mm<sup>2</sup>** cables are intended for multimedia computer networks (data, sound and HDTV transmission), applied in 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 0.34 mm<sup>2</sup>, (7x0.25 mm),
- foam-skin polyethylene (PE) insulation coloured: yellow and black,
- insulated conductors twisted into a pair,
- pair shield incorporating an aluminium-polyester tape under a tinned copper wire braid of coverage bigger than 80%,
- moisture barrier and additional cable shielding made of a plastic laminated aluminium tape longitudinally applied over the cable core,
- black polyethylene (PE) cable sheath.

**AVAILABLE UPON REQUEST**

**TECHNODATA LAN-T10n kat.5 1x2x0,34c 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- T10-FOR kat.5 1x2x0,34c 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.

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### CHARACTERISTICS

Characteristic impedance	150 ± 15 Ω	Minimum shielding attenuation at the frequency f=1÷200 MHz	75 dB
Mutual capacitance at 1 kHz, approximate	30 nF/km	Transfer 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	114 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	Operating temperature range during installation	from -10 to + 50°C
Velocity of propagation	65 %	Minimum bending radius	12 x cable diameter
Return loss, minimum at f=1÷20 MHz	23 dB	Reference standards	PN-EN 50288-2-2, IEC 61156-1
Return loss, minimum at f=20÷100 MHz	23-10lg(f/20) dB		ISO/IEC 11801, TIA/EIA 568 A

Frequency MHz	Attenuation loss, maximum dB/100m	Near end cross-talk for cable length ≥ 100 m minimum dB
4	2.4	53
10	4.0	47
16	4.9	44
20	5.4	42
31.25	7.6	39
62.50	10.8	35
100	13.0	32

**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 009	1 x 2 x 0,34c	10.5	25.9	93

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