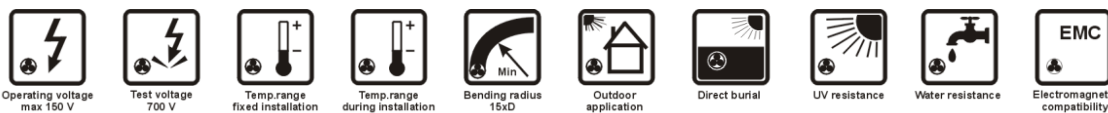


TECHNODATA LAN-T11B kat.5e 4x2x0,5 mm

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LOCAL AREA NETWORK CABLES**APPLICATIONS**

TECHNODATA LAN-T11B kat.5e 4x2x0,5 mm 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

- annealed copper single wire conductors of diameter 0.51 mm, 24 AWG,
- polyethylene (PE) insulation coloured: white-blue and blue, white-orange and orange, white-green and green, white-brown and brown,
- 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-T11n kat.5e 4x2x0,5 mm - cable intended for suspension on poles. The cable is integrated with a steel rope by an 8 shape polyethylene (PE) common sheath.

TECHNODATA LAN-T11-FOR kat.5e 4x2x0,5 mm - 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-T11B kat.5e 4x2x0,5 mm

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CHARACTERISTICS

Characteristic impedance	100 ± 15 Ω	Return loss, minimum at f=20÷100 MHz	25-7 lg(f/20) dB
Mutual capacitance of any pair at 1 kHz, approximate	50 nF/km	Minimum shielding attenuation at the frequency f=1 ÷ 200 MHz	75 dB
Capacitance unbalance of any pair to ground at 1 kHz, max.	1600 pF/km	Shielding impedance at 10 MHz, maximum	10 mΩ/m
Insulation resistance, minimum	150 MΩ·km	DC loop resistance at 20°C, maximum	188 Ω/km
Operating voltage	150 V	Resistance unbalance of any pair of conductors, max.	3 %
Voltage test	700 V rms	Operating temperature range during operation	from - 40 to + 70°C
Velocity of propagation	65 %	during installation	from -10 to + 50°C
Return loss, minimum at f=4÷10 MHz	20+5 lg(f) dB	Minimum bending radius	15 x cable diameter
Return loss, minimum at f=10÷20 MHz	25 dB	Reference standards	PN-EN 50288-2-1, IEC 61156-1 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
1	2.1	62
4	4.3	53
8	5.9	48
10	6.6	47
16	8.2	44
20	9.2	42
25	10.5	41
31.25	11.8	39
62.50	17.1	35
100	22.0	32

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

Product No.	Cable type	Number of pairs (x 2) x conductor diameter	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
		mm	mm	kg/km	kg/km
0024 014	LAN-T11B	4 x 2 x 0,5	8.7	16.9	71

Product No.	Cable type	Number of pairs (x 2) x conductor diameter	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
		mm	mm	kg/km	kg/km
0024 003	LAN-T11n	4 x 2 x 0,5	8.8 x 5.2	17.8	125

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