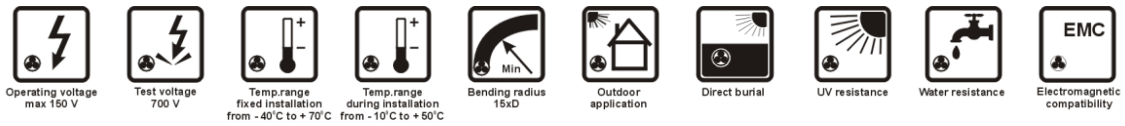
TECHNODATA LAN-T15 kat.5 4x2x0,8 mm

LOCAL AREA NETWORK CABLES



APPLICATIONS

TECHNODATA LAN-T15 kat.5 4x2x0,8 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 0.8 mm,
- 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.

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CHARACTERISTICS

Characteristic impedance	100 ± 15 Ω
Mutual capacitance of any pair at 1 kHz, approximate	50 nF/km
Capacitance unbalance of any pair to ground at 1 kHz, max.	1600 pF/km
Insulation resistance, minimum	150 MΩ·km
Operating voltage	150 V
Voltage test	700 V rms
Velocity of propagation	65 %
Return loss, minimum at f=1÷20 MHz	23 dB
Return loss, minimum at f=20÷100 MHz	23-10lg(f/20) dB

Minimum shielding attenuation at the frequency f=1 ÷ 200 MHz	75 dB
Shielding impedance at 10 MHz, maximum	10 mΩ/m
DC loop resistance at 20°C, maximum	75 Ω/km
Resistance unbalance of any pair of conductors, max.	3 %
Operating temperature range during operation during installation	from - 40 to + 70°C from -10 to + 50°C
Minimum bending radius	15 x cable diameter
Reference standards	PN-EN 50288-2-1, IEC 61156-1 ISO/IEC 11801, TIA/EIA 568 A

Frequency MHz	Attenuation loss, average dB/100m	Attenuation loss, maximum dB/100m	Near end cross-talk for cable length ≥ 100 m minimum dB
1	1.3	2.1	62
4	2.4	4.3	53
8	3.3	5.9	48
10	3.8	6.6	47
16	4.7	8.2	44
20	5.2	9.2	42
25	5.8	10.5	41
31.25	6.4	11.8	39
62.50	9.0	17.1	35
100	11.4	22.0	32

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

Product No.	Number of pairs (x 2) x conductor diameter	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm	mm	kg/km	kg/km
0024 015	4 x 2 x 0,8	11.9	39.8	144

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