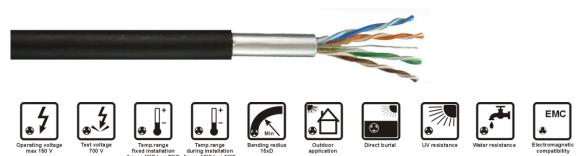
TECHNOKABEL[®]



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TECHNODATA LAN-T11 kat.6 4x2x0,57 mm

LOCAL AREA NETWORK CABLES



APPLICATIONS

TECHNODATA LAN-T11 kat.6 4x2x0,57 mm cables are intended for multimedia computer networks (data, sound and HDTV transmission), applied in industrial and other dedicated networks sensitive to electromagnetic interferences.

The cables are also applied in computer networks of increased binary transfer where simultaneous transmission in both directions in all 4 symmetrical circuits is used (full duplex, Gigabit Ethernet technique).

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 0.57 mm (23 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 on cross-shaped filler,
- 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-T11-FOR kat.6 4x2x0,57 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.

KP297A1507





ISO 9001:2008

TECHNODATA LAN-T11 kat.6 4x2x0,57 mm

CHARACTERISTICS

Characteristic impedance Mutual capacitance of any pair	$100\pm15~\Omega$	Shielding impedance at 10 MHz, maximum	100 mΩ/m		
at 1 kHz, approximate	50 nF/km	DC loop resistance at 20°C, maximum	188 Ω/km		
Capacitance unbalance of any pair to ground at 1 kHz, max.	1600 pF/km	Resistance unbalance of any			
Insulation resistance, minimum	5000 MΩ·km	pair of conductors, max.	2 %		
Operating voltage	150 V	Phase delay dispersion of symmetrical circuits	45 ns/100 m		
Voltage test	700 V rms	Phase delay T	534+36/√f ns/100 m		
Velocity of propagation	65 %				
Return loss, minimum at f=4÷10 MHz at f=10÷20 MHz at f=20÷100 MHz Minimum shielding attenuation at the frequency	20+5 lg(f) dB 25 dB 25-7 lg(f/20) dB	Operating temperature range during operation during installation	from - 40 to + 70°C from -10 to + 50°C		
		Minimum bending radius	15 x cable diameter		
	23-7 ig(i/20) db	Reference standards	PN-EN 50288-5-1, IEC 61156-5 ISO/IEC 11801, TIA/EIA 568 A		
f=30 ÷ 250 MHz	40 dB				

Frequency MHz	Attenuation loss, maximum dB/100m	Near end cros	ss-talk between pair dB	Far end cross-talk between pairs, minimum dB		
		NEXT	PSNEXT	ACR	ELFEXT	PSELFEXT
1	2.1	66.0	64.0	64.0	66.0	64.0
4	3.8	65.3	63.3	61.0	58.0	55.0
10	6.0	59.3	57.3	53.0	50.0	47.0
16	7.6	56.2	54.2	49.0	45.9	43.0
20	8.5	54.8	52.8	41.3	44.0	41.0
31.25	10.8	51.9	49.9	41.0	40.1	37.1
62.50	15.5	47.4	45.4	32.0	34.1	31.1
100	19.9	44.3	42.3	24.0	30.0	27.0
155	25.3	41.4	39.4	16.0	26.2	23.2
200	29.1	39.8	37.8	11.0	24.0	21.0
250	33.0	38.3	36.3	5.0	22.0	19.0

C E = 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.)	ght	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				mm	mm	kg/km	kg/km
0024 019	LAN-T11	4 x 2 x 0,57	9.9	22.2	98		0502 002	LAN-T11-FOR	4 x 2 x 0,57	11.9	22.2	147

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