

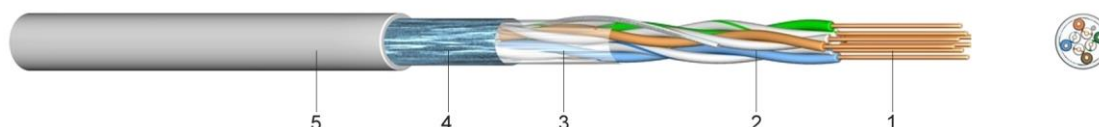


LAN 200 (F/UTP)

Data Transmission Cable for Local Networks with Overall Shielding, CAT 5e

Application:

In the horizontal wiring as an installation cable for the transfer in cable canals as well as in pipes within telecommunication installations and data systems.
Area of application: IEEE 802.3:10 Base T, 10 Base T Ethernet, 100 Base T, 1000 Base T, FDDI, ISDA, ATM



Construction:

- 1 solid bare copper
- 2 core insulation of polyvinylchloride (PVC)
- 3 layer of plastic foil
- 4 overall shielding of aluminium foil with a tinned drain wire \varnothing 0,5mm
- 5 outer sheath of polyvinylchloride (PVC) grey or halogen-free polymer compound, orange,

special colours on enquiry

Standards:

CAT 5e, ETIA-EIA 568 A 5
ISO/IEC 11801, EN 50173, EN 50288-2-1
PVC : IEC 332-1, DIN VDE 0472 part 804 type B
FRNC : IEC 332-1 and 3, IEC 754-2, IEC 1034-2
IEC 708-1 (core identification)

Technical data:

Temperature range	moved		0°C till +60°C	Bending rad. under tension	8,0 x \varnothing
Loop impedance		[Ohm/100m]	19	Bending rad. no tension	4,0 x \varnothing
Capacity	max.	[nF/km]	50		
Nom. Velocity of propagation	NVP nom.		71,0		
Attenuation	1-100 MHz	[Ohm]	100,0 +/- 15		
Coupling resistance	1-100 MHz	[mOhm/m]	10		
Capacity coupling (f=800 Hz)	K<100	[pF/100m]	15		
Insulation resistance		[GOhm/km]	>5		
Test voltage at 50 Hz		[V _{AC}]	1000		



Frequency [MHz]	Line attenuation α [dB/100m]		Next [dB] α_{NN}		ACR [dB]		ELFEXT [dB] α_{ELFEXT}		Return Loss R _L [dB]	
	nom.*	min. CAT 5e	nom.*	min. CAT 5e	nom.*	min. CAT 5e	nom.*	min. CAT 5e	nom.*	min. CAT 5e
1	1,9	2,1	68,3	65,3	66,4	63,2	64,8	64,0	21	20,0
4	3,9	4,1	59,3	56,3	55,4	52,2	52,8	52,0	24	23,0
10	6,3	6,5	53,3	50,3	47,0	43,8	44,8	44,0	26	25,0
16	8,1	8,3	50,3	47,3	42,2	39,0	41,0	40,0	26	25,0
20	9,1	9,3	48,8	45,3	39,2	36,0	39,0	38,0	26	25,0
31,25	11,3	11,7	45,9	42,9	34,6	31,2	35,0	34,0	24,6	23,6
62,5	16,5	17,0	41,4	38,4	24,9	21,3	29,2	28,0	22,5	21,5
100	21,0	22,0	38,3	35,3	17,3	13,3	25,3	24,0	21,2	20,1
125	22,8	24,9	37,3	34,3	14,5	9,4	23,3	22,0	20,4	19,4
200	27,0	-	35,3	-	8,3	-	20,9	-	19,0	-

* Category 5 - Values per ISO / IEC 11801, EN 50173, EN 50288-2-1

* Category 5 - Values per TIA / EIA - 568-A-5

Number of pairs and nominal dimensions AWG Nr.	from stock	Copper figure kg/km	Overall diameter appr.mm	Calorific potential kWh / m	Tensile force N	Weight appr. kg / km
4 x 2 x AWG 24 PVC	●	18	6,0	0,12	80	41
4 x 2 x AWG 24 FRNC	●	18	6,0	0,12	80	41
2 x(4x2x x AWG 24) PVC	●	36	12,0x6,0	0,24	160	82