

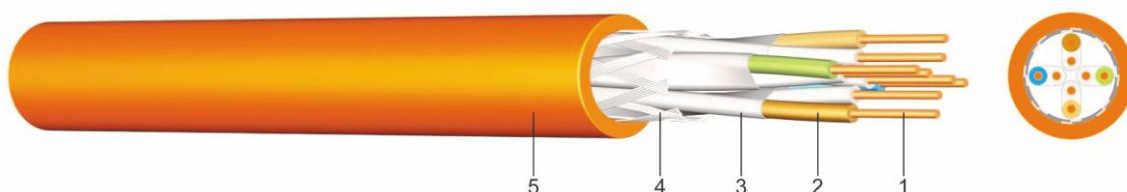


LAN 1000 (S/FTP Pimf)

Data Transmission Cable for Local Networks with Pair Wise Screening and Overall Shielding Category 7

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: ISDA, B-ISDA, IEEE 802.3 10 Base T Ethernet, IEEE 802.3 100 Base T Ethernet, IEEE 802.5 Token Ring CCDI (FDDI at Cu), Gigabit-Ethernet, ATM, DQDB, Video



Construction:

- 1 solid bare copper, \varnothing 0,57mm
- 2 core insulation of foam-skin polyethylene
- 3 pair wise screen of plastic laminated aluminium foil
- 4 braid of tinned copper wires
- 5 outer sheath of polyvinylchloride (PVC) yellow or halogen-free polymer compound orange

Standards:

EN 50288-4-1
IEC 332-1, 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]	14,5	Bending rad. no tension	4,0 x \varnothing
Capacity	max.	[nF/100m]	45		
Nom. Velocity of propagation	NVP nom.		78,0		
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]	150		
Insulation resistance		[GOhm/m]	>5		
Test voltage at 50 Hz		[V _{Ac}]	700		



Frequency [MHz]	Line attenuation α [dB/100m]		Next [dB] α_{NN}		ACR [dB]		ELFEXT [dB] α_{ELFEXT}		Return Loss R _L [dB]	
	nom.*	max. CAT 7	nom.*	min. CAT 7	nom.*	min. CAT 7	nom.*	min. CAT 7	nom.*	min. CAT 7
1	1,95	2,1	100	78	100	75	100	78	24	-
4	3,5	3,6	100	78	100	75	100	78	30	23,1
10	5,6	5,8	100	78	100	75	100	78	35	27,1
16	7,1	7,3	100	78	100	75	100	71,2	36	25,7
20	8,0	8,2	100	78	100	75	92	69,3	30	25,0
31,25	9,6	10,1	100	78	100	75	90	64	30	23,6
62,5	14,2	14,5	95	75,1	97	74	85	58	30	21,5
100	18,0	18,5	90	75,4	95	72,4	82	55,3	30	20,1
155	22,6	23,2	88	72,5	93	69,5	80	51,5	28	18,8
200	26,2	26,8	84	69,9	89	67,5	75	48	27	17,3
300	32,0	32,7	82	68,2	85	65,2	70	45,8	27	17,3
600	45,0	47,1	75	63,7	75	60,7	64	39,7	21	17,3
900	55,7	56,0	68	61,0	74	58,4	56	37	19	17,3
1000	60,0	61,9	65	60,4	73	57,4	48	35,3	18	15,1

* Category 7 – Values per ISO / IEC 11801, EN 50173

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 23 FRNC	●	31	8,0	0,16	190	74
2 x(4 x 2x AWG 23) FRNC	●	62	16,0x8,0	0,32	380	148