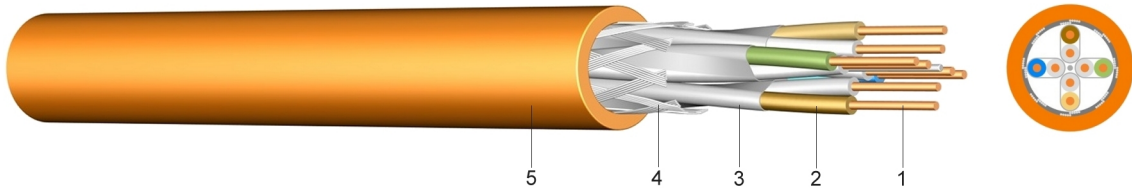


LAN 600
(S/FTP Pimf)

Data Transmission Cable for Local Networks with Pair Wise Screening and Overall Shielding according to a Draft of Category 7

Application:

This installation cable is suitable for horizontal laying in cable ducts and conduits in telecommunications and data transmission systems.
Useable for: ISDN , B-ISDN, IEEE 802.3 10 Base T Ethernet, IEEE 802.3 100 Base T Ethernet, IEEE 802.5 Token Ring, CDDI (FDDI on Cu), Gigabit-Ethernet , ATM, DQDB, Video.



Construction:

- 1 solid bare copper, \varnothing 0,55mm or 0,64mm
- 2 core insulation of foam-skin polyethylene
- 3 pair wise shielding of plastic-laminated aluminium foil with a tinned drain wire \varnothing 0,4
- 4 braid of tinned copper wires
- 5 outer sheath of polyvinylchloride (PVC) grey or halogen-free polymer compound, orange

Standards:

EN 50288-4-1
IEC 332-1 , IEC 54-2, 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]	50		
Nom. Velocity of propagation	NVP nom.		77,0		
Attenuation	1-100 MHz	[Ohm]	100,0 +/- 25		
Coupling resistance	1-100 MHz	[mOhm/m]	< 10		
Capacity coupling (f=800 Hz)	K<100	[pF/100m]	1500		
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	1,9	2,0	85	80	83,1	78,1	80	78	24	-
4	3,4	3,6	85	80	81,6	76,4	80	78	24	23,1
10	5,5	5,7	85	80	79,5	74,3	76	74	26	25,0
16	7,0	7,2	85	80	78,0	72,8	72	70	26	25,0
20	7,8	8,1	85	80	77,2	71,9	70	68	26	25,0
100	18,2	18,5	77	72,4	58,8	53,9	56	54	21	20,1
155	22,8	23,4	75	69,6	52,2	46,2	53	51	20	18,8
200	26,0	26,8	74	67,9	48,0	41,4	50	48	19	17,3
300	32,0	33,3	70	65,3	38,0	32,0	46	44	19	17,3
600	47,0	48,9	65	60,8	18,0	11,9	40	38	19	17,3

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

Number of pairs and nominal dimensions AWG Nr.	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 PVC	42,2	7,5	0,17	190	68
4 x 2 x AWG 23 FRNC	42,2	7,5	0,17	190	68
4 x 2 x AWG 23 earth-laying,bk	42,2	7,5	0,17	190	68
2 x(4 x 2 x AWG 23) PVC	84,5	15,0x7,5	0,34	380	136
2 x(4 x 2 x AWG 23) FRNC	84,5	15,0x7,5	0,34	380	136