

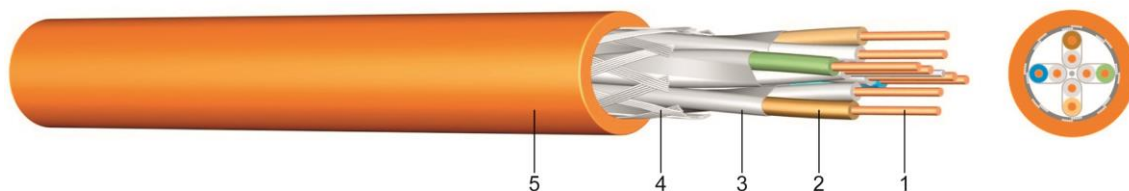


## LAN 1200 (S/FTP Pimf)

## Data Transmission Cable with Pair Wise Shielding 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,  $\varnothing$  0,55mm or 0,64mm
- 2 ..... core insulation of foam-skin polyethylene
- 3 ..... pair wise shielding of plastic laminated aluminium with a tinned drain wire ( $\varnothing$  0,4)
- 4 ..... braid of tinned copper wires
- 5 ..... outer sheath of halogen-free polymer compound, yellow or orange

### Standards:

Category 7  
EN 50288-4-1  
IEC 332-1, IEC 754-2, IEC 1034-2  
IEC 708-1 (core identification)

### Technical data:

Temperature range	moved		-20°C till +60°C	Bending rad. under tension	8,0 x $\varnothing$
Loop impedance		[Ohm/100m]	11,5	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]	150		
Insulation resistance		[GOhm/m]	>5		
Test voltage at 50 Hz		[V <sub>Ac</sub> ]	700		



Frequency [MHz]	Line attenuation $\alpha$ [dB/100m]		Next [dB] $\alpha_{NN}$		ACR [dB]		ELFEXT [dB] $\alpha_{ELFEXT}$		Return Loss R <sub>L</sub> [dB]	
	nom.*	max. CAT 7	nom.*	min. CAT 7	nom.*	min. CAT 7	nom.*	min. CAT 7	nom.*	min. CAT 7
1	2,0	-	90	78	88,0	-	85	-	23,0	-
4	3,2	3,5	90	78	86,8	-	85	75	24,0	23,0
10	5,1	5,4	90	78	84,9	-	80	71	26,0	25,0
20	6,5	6,8	90	78	83,5	-	75	65	26,0	25,0
62,5	13,4	13,7	90	78	76,6	-	65	55	23,5	22,5
100	17,0	17,5	83	76	66,0	-	61	51	22,5	21,5
200	24,5	25,3	78	71	53,5	-	55	45	21,0	20,0
300	31,1	31,5	77	69	45,9	-	51	41	20,1	19,1
600	45,0	46,3	75	64	30,0	-	45	35	18,6	17,6
900	56,9	58,3	73	62	16,1	-	42	32	17,7	16,7
1000	60,5	62,0	72	61	11,5	-	41	31	17,3	16,5
1200	67,0	69,0	70	60	3,0	-	39	29	17,3	16,1

\* 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 AWG22 FRNC	●	52	8,5	0,19	150	78
2 x(4 x 2 x AWG22)FRNC	○	104	17,0x8,5	0,38	300	156