

Datasheet LAN 350 (F/UTP)

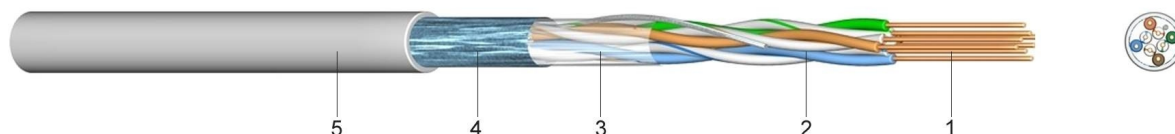
Version 1/2009

Data Transmission Cable for Local Networks with central-element and shield, Category 6

Application:

In the horizontal cabling as an installation for laying cable in cable channels and pipes inside of telecommunications equipment and data systems to 350 Mhz. Installation is very easy because of a central element (cross) no individual shield is required.

Usable for: 10Base-T, 100 Base-T, 1000 Base-T, CDDI/TPDDI, ISDN, ATM 155 Mbit/s, TP-PMD 125 Mbit/s, Token Ring 4/16 Mbit/s.



Construction:

- 1 Bare, solid copper conductor, Ø 0,55mm (AWG 24/1)
- 2 core insulation SFS Polyethylen
- 3 Aderumwicklung
- 4 plastic laminated aluminium foil
- 5 PVC-sheath or with halogen free sheath

According to:

ISO/IEC 11801 2.Edition
EN 50173-1
TIA/EIA 568-B.2
IEC 61156-5
EN 50288-5-1

Technical data:

Temperature range	moved		0 °C bis +60 °C	Bending radius	under tension	8,0 x Ø
Loop impedance		[Ohm/100m]	19	Bending radius	no tension	4,0 x Ø
Capacity	max.	[nF/100m]	50			
Nom. Velocity of propagation	NVP nom.		77,0			
Attenuation	1-100 MHz	[Ohm]	100,0 +/- 22			
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			

Frequenz [MHz]	Leitungsdämpfung α [dB/100m]		Next [dB] α_{NN}		ACR [dB]		Return Loss R_L [dB]	
	nom.*	max. CAT 6	nom.*	min. CAT 6	nom.*	min. CAT 6	nom.*	min. CAT 6
1	1,8	2,1	78	66	76,2	-	22	20,0
4	3,4	3,8	74	65	70,6	-	25	23,1
10	5,4	6,0	70	60	64,6	-	28	25,0
16	6,9	7,6	65	56	58,1	-	28	25,0
20	7,8	8,5	62	55	54,2	-	28	25,0
31,25	9,8	10,8	58	52	48,2	-	27	23,6
62,5	13,8	15,5	55	47	41,2	-	26	21,5
100	17,5	19,9	52	44	34,5	-	25	20,1
155	21,8	25,3	50	41	28,2	-	25	18,8
200	24,9	29,2	48	40	23,1	-	24	18,0
250	27,5	33,0	45	38	17,5	-	24	17,3
300	29,5	-	43	-	13,5	-	22	-
350	33,0	-	41	-	8,0	-	21	-

* Category 6 - Werte gemäß ISO / IEC 11801, EN 50173, EN 50288-2-1

* Category 6 - Werte gemäß TIA / EIA - 568-A-5

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 24 PVC	23	7,5	0,23	100	54
4 x 2 x AWG 24 FRNC	23	7,5	0,21	100	54