

SureLAN® 6 U/UTP DataGuard® (SWA)

Cable Design *4x2x23/1awg U/UTP*

Conductor	Solid bare copper wire (23/1awg)
Insulation	Polyethylene (PE)
Core identification	WHBU/BU - WHOG/OG - WHGN/GN - WHBN/BN
Assembly	2 cores twisted to a pair
Core	4 pairs with X-Filler
Central Element	Cross separator
Inner Jacket	LSZH FireFighter®
Diameter	Ø 6,50 mm
Colour	Ivory
Armour	DataGuard® Steel Wire Armour (SWA)
Outer Jacket	LSZH FireFighter®
Diameter	Ø 11.40 ± 0.50 mm
Colour	Black

Application

Unscreened data transmission cable for 350MHz. Usable for high quality requirements, all current data-services as well as Gigabit-Ethernet. Installation is easy because of a central element (cross) no individual shield is required. Usable for: 10Base-T; 100Base-T; 1000Base-T; CDDI/TPDDI; ISDN; ATM 155 Mbit/s, TP-PMD 125 Mbit/s, Token Ring 4/16 Mbit/s, analogue telephony.

Acc. to ISO/IEC 110801 2nd.ed., EN 50173-1, TIA/EIA 568-B.2, EN 50288-6-1, IEC 61156-5.



Electrical Data at 20°C

Conductor Loop resistance	≤ 19 Ω/100m
Insulation Resistance	≥ 5 GΩ x km
Operating Capacitance (nom.)	50 nF/km
Capacitance unbalance (nom.)	≤ 150 pF/100m
Rel. Velocity of Propagation	67 %
Characteristic Impedance at 1-100 MHz	100 ± 15 Ω
Characteristic Impedance at 100-250 MHz	100 ± 22 Ω
Test Voltage	700 V - AC
Guaranteed Cat6 Performance Length	65 Metres

Frequency (MHz)	Attenuation (dB/100m)		NEXT (dB)		ACR (dB/100m)	Return Loss (dB)	
	Nom.	Max. Cat 6	Nom.	Min. Cat 6	Nom.	Nom.	Min. Cat 6
1	1.8	[2.1]	92	66	90.2	24	[20.0]
4	3.4	3.8	83	65	79.6	27	23.1
10	5.3	6.0	78	60	72.7	30	25.0
16	6.8	7.6	72	56	65.2	30	25.0
20	7.7	8.5	71	55	63.3	30	25.0
31.25	9.9	10.8	68	52	58.1	30	23.6
62.5	13.7	15.5	64	47	50.3	30	21.5
100	17.8	19.9	62	44	44.2	30	20.1
155	22.0	22.5	58	41	36.0	28	18.8
200	25.3	29.2	56	40	30.7	26	18.0
250	28.2	33.0	54	38	25.8	25	17.3
300	31.8	-	53	-	21.2	23	-
350	33.9	-	50	-	16.1	22	-

The performance data given are typical measured values

Specification

Part Number	Type	Colour	Calorific Potential <i>MJ/km</i>
145001	DataGuard® (SWA)	Black	360