

Cat.6 U/UTP <250 MHz>

DataGuard® Armoured (SWA) LSZH

Application

DataGuard® Armoured (SWA) 250 MHz Unscreened data transmission cable for high quality requirements, backward compatible with current data-services as well as Gigabit-Ethernet.



Cable Design

Conductor	Solid Bare copper wire Ø 1/0,57mm
Insulation	SPE Ø 1,06 ± 0,13 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs cabled with cross separator (spline)
Inner Jacket	LSZH FireFighter® : Ø 7,10 ± 0,20 mm
Armour	DataGuard® Steel Wire Armour (SWA) 0,8 mm x 29
Seperator	Polyester tape
Outer Jacket	LSZH FireFighter® : Ø 11,20 ± 0,50 mm

Standards

Test Standards	TIA/EIA-568-B and IEC/ISO 11801
Flammability Rating	IEC 60332-1, IEC 60754-1/2, IEC 61034

Colour Code Chart

Pair	Colour
1	Blue + White/Blue
2	Orange + White/Orange
3	Green + White/Green
4	Brown + White/Brown



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Electrical Data @ 20°C

Max.Conductor DC Resistance		8,0 Ohm/100m
Min.Insulation DC Resistance		200 MOhm *km
Rated Temperature		60° C
Test Voltage		1000 V
Impedance	1-100Hz	100 ± 15 Ohm
Impedance	100-250Hz	100 ± 22 Ohm

Transmission Characteristics

Frequency (MHz)	Attenuation @ 20°C (dB/100m ± 15%)	NEXT (dB)	Return Loss (dB)
1	2	74,3	20
4	3,8	65,3	23
10	6	59,3	25
16	7,6	56,2	25
20	8,5	54,8	25
31,25	10,7	51,9	23,6
62,5	15,4	47,4	21,5
100	19,8	44,3	20,1
200	29	39,8	18
250	32,8	38,3	17,3

Specification

Part Number	Type
145001	SureLAN6 23/1awg 4pair U/UTP <250 MHz> DataGuard® Armoured (SWA) LSZH

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