

SureLAN[®] 5e F/UTP < 350 MHz > DataGuard[®] (SWA) LSZH FireFighter[®] IEC 60332-3-1

Cable Design *4x2x24awg U/UTP*

Conductor	1 x 0,51 ± 0,008 mm solid plain Copper (24awg)
Insulation	HDPE
Diameter	1,01 ± 0,05 mm
Pairs	1° Blue - White with blue stripe 2° Orange - White with orange stripe 3° Green - White with green stripe 4° Brown - White with brown stripe
Cable Stranding	4 pairs
Drain Wire	Solid tinned copper 0,40 ± 0,005 mm
Screen	Aluminium/polyester tape
Inner Jacket	LSZH FireFighter [®]
Diameter	5,70 ± 0,10 mm
Colour	Black
Filler	chalk
Inner Jacket 2°	LSZH FireFighter [®]
Diameter	7,70 ± 0,10 mm
Colour	Black
Armour	DataGuard [®] Galvanised Steel Wire Armour
diameter	28 x 0,90 mm
Outer Jacket	LSZH FireFighter [®]
Diameter	11,50 ± 0,25 mm
Colour	Black



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Electrical Data at 20°C

Impedance	1-100 MHz	100 ± 15 Ohm
Rated Temperature		75°C
DC Resistance Unbalance (max.)		2,5 %
DC Resistance 20°C		105 Ohm/km
Pair-to-Ground Capacitance Unbalance		330 pF/100m
Insulation Resistance		>5000MΩ*Km
Dielectric strength		DC 2500V 2S

Transmission Characteristics

Frequency (MHz)	RL (min.)	IL (nom.)	DOP (max.)	SKEW (max.)	NEXT (min.)	PSNEXT (min.)	ACR-F (min.)	PSACR-F (min.)
	[dB]	[dB/100m]	[ns/100m]	[ns/100m]	[dB]	[dB]	[dB/100m]	[dB/100m]
1	20	2,0	570	45	65,3	62,3	63,8	60,8
4	23	4,1	552	45	56,3	53,3	51,8	48,8
8	24,5	5,8	547	45	51,8	48,8	45,7	42,7
10	25	6,5	545	45	50,3	47,3	43,8	40,8
16	25	8,2	543	45	47,2	44,2	39,7	36,7
20	25	9,3	542	45	45,8	42,8	37,8	34,8
25	24,3	10,4	541	45	44,3	41,3	35,8	32,8
31,25	23,6	11,7	540	45	42,9	39,9	33,9	30,9
62,5	21,5	17,0	539	45	38,4	35,4	27,9	24,9
100	20,1	22,0	538	45	35,3	32,3	23,8	20,8
155	-	28,1	537	45	32	29	20	17
200	-	32,4	537	45	31	28	17,8	14,8
250	-	38,9	536	45	29	26	15,8	12,8
300	-	41	536	45	28	25	14,3	11,3
350	-	44,9	536	45	27	24	12,9	9,9