



## UTP/Cat6 SWA/LSZH

<b>Part No:</b>	91043
<b>Applications:</b>	A local area network (LAN) is a computer network that interconnects computers within a limited area such as a residence, school, laboratory, university campus or office building. EN 50575:2016 CPR Class Eca
<b>Construction:</b>	4x2x23AWG HDPE/LSZH/SWA/LSZH UTP 4 pairs cable - Category 6 - 500MHz – SWA Armoured – LSZH Sheath
<b>Formation:</b>	4 Pairs
<b>Section:</b>	23 AWG
<b>Conductor:</b>	AWG Plain annealed copper wire, Solid
<b>Insulation</b>	High Density Polyethylene - HDPE
<b>Colour Code:</b>	A - Blue, White/Blue, B - Orange, White/Orange, C - Green, White/Green, D - Brown, White/Brown
<b>Wrapping:</b>	At least 1 layer of plastic tape 0,023 mm
<b>Inner sheath:</b>	Thermoplastic Low Smoke, Halogen Free – LSZH
<b>Armour:</b>	Galvanized Steel Wires
<b>Outer sheath:</b>	Thermoplastic Low Smoke, Halogen Free - LSZH – Black
<b>Fire propagation:</b>	Test on single cable – IEC 60332-1 Test on bunched cables IEC 60332-3
<b>Smoke Density</b>	IEC 61034
<b>Amount of halogen</b>	acc. to IEC 60754-1 & EN 50267-1 : ZERO
<b>Acidity (ph value) and conductivity:</b>	IEC 60754-2
<b>Sunlight resistance</b>	UL 1581 section 1200
<b>Construction Reference Standard:</b>	ISO/IEC11801
<b>Type of Cable:</b>	Data cable
<b>Low Voltage Directive</b>	2014/35/UE
<b>Other References:</b>	- TIA/EIA-568-C.2
<b>Conductor Cross-section</b>	Nom 23AWG
<b>Impedance</b>	100 +/- 15 Ω
<b>Conductor resistance at 20°C</b>	9,5 Ω/100m
<b>Delay Shew at 20°C</b>	ns/100m < 45
<b>Temperature Range:</b>	
<b>During Operation</b>	-30° C up to +80°C
<b>During Installation</b>	-5° C up to +50°C

MHz	RL ≥ dB	ATT ≤ dB	NEXT ≥ dB	DELAY ≤ ns	PSNEXT ≥ dB	ELFEXT ≥ dB	PSELFEXT ≥ dB
1	20	-	74.3	570	72.3	67.8	64.8
4	23	3.8	65.3	552	63.3	55.8	52.8
8	24.5	5.3	60.8	546.7	58.8	49.7	46.7
10	25	5.9	59.3	545.4	57.3	47.8	44.8
16	25	7.5	56.2	543	54.2	43.7	40.7
20	25	8.4	54.8	542.1	52.8	41.8	38.8
25	24.3	9.4	53.3	541.2	51.3	39.8	36.8
31.25	23.6	10.5	51.9	540.44	49.9	37.9	34.9
62.5	21.5	15.0	47.4	538.6	45.4	31.9	28.9
100	20.1	19.1	44.3	537.6	42.3	27.8	24.8
200	18	27.6	39.8	536.5	37.8	21.8	18.8
250	17.3	31.1	38.3	536.3	36.3	19.8	16.8

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