



Cat 6A FTP LSZH Cable

BATT Part No:	77094
Construction	
Conductor:	AWG 23/1, bare
Insulation:	SFS-PE
Diameter:	1.12± 0.02mm
Colour code:	IEC 708-1
Jacket:	Halogen free compound
Shielding:	Plastic laminated aluminium foil
Wrapping:	Halogen free compound
Colour:	Orange
Diameter:	7.5 ± 0.2mm
Mechanical data	
Temperature range:	Fixed: -20°C to +60°C During installation: 0°C to 50°C
Bending radius:	8 x diameter during insulation 4 x diameter fixed
Max tractive force:	100N
Electrical Data	
Loop resistance:	Max 150Ohm/km
Insulation resistance:	Min 5 GOhm x km at +20°C
Operating capacity:	Nom. 45 nF/km
Char impedance at 100MHz:	100 Ohm ± 5 Ohm
Test voltage:	700V / AC
Velocity of propagation:	App 0.74c
Signal term:	Max. 480 ns/100m
Running time difference:	<25ns / 100m
Screening attenuation to 500 MHz:	>40dB
Transfer impedance:	<50 mOhm/m at 1MHz <100 mOhm/m att 10MHz <200 mOhm/m att 30MHz
Applications:	IEEE 802.3: Ethernet 10Base-T; Fast Ethernet 100Base-T, Gigabit Ethernet 1000Base-T, 10GBase-T, ISDN, FDDI, ATM
Chemical Properties:	IEC 60811-2-1; VDE 0473 T.811-2-1 (IRM 902, 168h bei 90°C)
Standards:	ISO-IEC 11801 2.Ausgabe; IEC 61156-5 Ed.3.0; EN 50173; EN 50288-1-1; EN 50288-10; TIA/EIA-568-B.2-10. EN60332-1; EN 60332-3; EN61034; EN 50267; IEC 60754-2; IEC 61034

Transmission Performance

F in MHz	Attenuation (dB/100m) nom.	NEXT (dB) nom.	ACR (dB/100m) nom.	ELFEXT (dB/100m) nom.	RL (dB) nom.
1	1.7	85	83	90	24
4	3.3	80	77	80	27
10	5.2	75	70	73	30
16	6.7	70	63	68	30
20	7.5	68	61	66	30
31.25	9.4	66	57	63	30
62.5	13.4	64	51	59	30
100	17.0	62	45	54	28
155	20.9	57	36	52	25
200	23.8	55	31	48	24
250	26.3	53	27	47	23
350	31.6	51	19	44	22
400	33.4	50	17	41	21
500	38.3	48	10	38	20