



Cat 6A UTP LSZH Cable

BATT Part No:	54277
Construction	
Conductor:	AWG 23/1, bare
Insulation:	PE
Diameter:	1.0 ± 0.02mm
Colour code:	IEC 708-1
Jacket:	Halogen free compound
Colour:	Orange
Diameter:	6.5 ± 0.2mm
Mechanical data	
Temperature range:	Fixed: -20°C to +60°C During installation: 0°C to 50°C
Bending radius:	9 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. 50 nF/km
Char impedance at 100MHz:	100 Ohm ± 5 Ohm
Test voltage:	700V / AC
Velocity of propagation:	App 0.67c
Signal term:	Max. 510 ns/100m
Running time difference:	<20ns / 100m
Coupling attenuation to 1000 MHz:	>45dB
Applications:	IEEE 802.3: Ethernet 10Base-T; Fast Ethernet 100Base-T, Gigabit Ethernet 1000Base-T, 10GBase-T IEEE 802.5: ISDN; FDDI, ATM; Cable Sharing IEEE 802.3at: PoE geeignet
Chemical Properties:	RoHS 2002/95/EG; IEC 60811-2-14 (IRM 902, 4h bei 70°C)
Standards:	EN 50288-6-1; eN 50173; ISO/IEC 11801 2 Ausgabe; IEC 61156-5; E DIN IEC 61156-5 01-08; TIA/EIA 568-B-10 Draft 5.0; EN 60332-1; EN 61034; EN 50267; IEC 60754-2; IEC 61034

Transmission Performance

F in MHz	Attenuation (dB/100m) nom.	NEXT (dB) nom.	PSANEXT (dB) nom.	ACR (dB/100m) nom.	ELFEXT (dB/100m) nom.	RL (dB) nom.
1	1.8	87	67	85	85	25
4	3.5	76	67	72	72	28
10	5.5	72	67	66	63	30
16	6.9	70	67	63	60	30
20	7.8	68	67	60	58	30
31.25	9.9	66	67	56	54	30
100	18.0	63	62.5	45	43	30
155	22.1	60	59.6	38	40	30
200	25.3	57	58	32	38	29
300	31.8	55	55.3	23	36	28
400	35.7	54	53.5	18	35	27
500	39.8	53	52	13	34	26

Whilst BATT CABLES plc endeavours to ensure the information on the website, specification sheets and all other technical information is accurate, the information is for guidance only and it is subject to change without notice or liability. Batt Cables Plc is not responsible for the consequences of any inadequacies, inaccuracies or other deficiencies contained therein. When selecting cable accessories, please note that the actual cable dimensions may vary due to manufacturing tolerances.