



FTP/LSZH Armoured Cat 6

BATT Part No:	91550
Conductor:	Co 0.55mm bare
Insulation:	PE
Diameter:	1.12 ± 0.02mm
Colour code:	IEC 708-1
Shielding:	Plastic laminated aluminium foil longitudinally with drain wire 0.45 tinned
Inner jacket:	Halogen free compound
Diameter over inner jacket:	8.0 ± 0.2mm
Armour:	Steel wire braid with wire 0.24
Outer jacket:	Halogen free compound
Colour:	Grey
Diameter:	11.0 ± 0.2mm
Electrical Data	
Loop resistance:	Max 190 Ohm/km
Insulation resistance:	Min 5 gOhm x km at 20°C
Operating capacity:	Nom. 50nF/km
Char. Impedance at 100MHz:	100Ohm ±5 Ohm
Test voltage:	700V/AC
Velocity of propagation:	pp. 0.67c
Signal term:	Max 480 ns/100m
Running time difference:	<25ns/100m
Screening att to 250MHz	>40dB
Coupling resistance:	<50mOhm/m bei 1MHz <100 mOhm/m bei 10MHz <200 mOhm/m bei 30Mhz
Mechanical Data	
Temperature range:	Stationary: -25°C to + 70°C Moves: -5°C to +50°C
Bending radius:	10 x diameter during installation 5 x diameter fixed
Max tractive force:	280N
Applications:	IEEE 802.3: Ethernet 10 Base-T, Fast Ethernet 100Base-T, Gigabit Ethernet 1000 Base-T, IEEE 802.5: ISDN, FDDI, ATM
Standards:	EN 50288-5-1, EN 50173, ISO/IEC 11801 2. Ausgabe, IEC 61156-5, TIA/EIA-568-B.2, EN 60332-1, EN 60332-3, EN 61034, EN 50267, IEC 60754-2, IEC 61034
Chemical resistance:	IEC 60811-2-1

F in MHz	Attenuation (dB/100m) nom	NEXT (dB) nom	ACR (dB/100m) nom	ELFEXT (dB/100m) nom	RL (dB) nom
1	1.8	85	83	90	24
4	3.4	80	77	80	27
10	5.4	75	70	73	30
16	6.9	70	63	68	30
20	7.8	68	60	66	30
31.25	9.8	66	56	63	30
62.5	13.8	64	50	59	30
100	17.5	62	44	54	28
155	21.8	57	35	52	25
200	24.9	55	30	48	24
250	27.5	53	25	47	23
350	33	50	17	44	22

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