

## Cat 7 1000 MHz Cable

<b>BATT Part No:</b>	77091
<b>Applications:</b>	IEEE 802.3: Ethernet 10Base-T ; Fast Ethernet 100Base-T ; Gigabit Ethernet 1000Base-T ; 10GBase-T IEEE 802.5 : 16 MB; ISDN ; FDDI ; ATM ; Cable sharing
<b>Conductor:</b>	Copper AWG 23/1, bare, 4 pair
<b>Insulation:</b>	SFS-PE
<b>Diameter:</b>	1.38 +/- 0.05mm
<b>Colour code:</b>	IEC 708-1
<b>Shielding Pairs:</b>	Plastic laminated aluminium foil
<b>Shielding:</b>	Copper wire 0.10
<b>Jacket:</b>	Halogen free compound
<b>Colour:</b>	Orange
<b>Diameter:</b>	7.7 +/- 0.2mm
<b>Chemical Resistance:</b>	IEC 60811-2-1 ( IRM 902, 4h at 70°C )
<b>GL Certificate No:</b>	86 747 – 10 HH
<b>Electrical Data:</b>	
<b>Loop resistance:</b>	max. 150 Ohm/km
<b>Insulation resistance:</b>	min .5 GOhm x km at +20°C
<b>Operating capacity:</b>	nom. 45nF/km
<b>Test voltage:</b>	700V/AC
<b>Char. Impedance at 100MHz:</b>	100Ohm +/- 50hm
<b>Velocity of propagation:</b>	app. 0.79c
<b>Signal Term:</b>	Max 425 ns / 100m
<b>Running time difference:</b>	<8 ns / 100m
<b>Screening attenuation at 600MHZ: &gt;100 dB</b>	>100 dB
<b>Coupling resistance:</b>	<6 mOhm/m at 1MHz <3 mOhm/m at 10MHz <3 mOhm/m at 30 MHz
<b>Mechanical Data:</b>	
<b>Temperature range:</b>	-20°C to +60°C 0°C to +50°C
<b>Bending radius:</b>	8 x diameter during installation 4 x diameter fixed
<b>Maximum tractive force</b>	120N
<b>Standards:</b>	Lloyds Marine Type Approval, EN 50288-4-1 ; EN 50173 ; ISO/IEC 11801 2. Output ; IEC 61156-5 EN 60332-1-2 ; EN 60332-3-22 ; EN 61034 ; EN 50267 ; IEC 60754-1 ; IEC 60754-2 ; IEC 61034

## Transmission Performance

F in MHz	Attenuation (dBB/100m) nom.	NEXT (dB) nom.	ACR (dB/100m) nom.	ELFEXT (dB/100m) nom.	RL (dB) nom.
1	1.7	100	98.3	95	25
4	3.2	100	96.8	93	28
10	5.2	100	94.8	92	30
16	6.5	100	93.5	91	30
20	7.3	100	92.7	90	30
31.25	9.4	100	90.6	86	30
62.5	13.6	100	86.4	82	30
100	17.0	100	83.0	77	30
155	22.2	98	75.8	73	28
200	24.3	95	70.7	70	26
300	30.2	93	62.8	67	25
400	35.2	90	54.8	64	24
500	39.1	87	47.9	62	23
600	43.5	85	41.5	60	23
800	50.0	80	30.0	56	22
900	55.2	78	21.8	53	21
1000	58.1	75	16.9	50	20