



Cat. 5e 4x2x23/7 AWG U/UTP BBA LSZH-SHF1

Batt Part No:	77103
Applications:	Offshore installations, Maritime Environment, High bandwidth digital applications with low BER, Direct burial, Indoor/Outdoor use, fixed installations, Ships, High speed & Light craft
General Construction	4 Un-shielded Twisted Pairs, cabled and overall jacketed, Bronze Braid Armor (BBA) and an outer jacket. The cable comply with Category 5e standard requirements and to SHF1 marine type cable requirements
Outer Jacket Material:	FR-LSZH
Outer Diameter:	10.5 mm nom.
Weight:	170 kg/km
Conductor Material:	Annealed Tinned Copper
Conductor Size:	23 AWG
Conductor Construction:	Stranded
Insulation Material:	Solid PO
Insulation O.D.:	1.06 mm nom.
Conductor unit identification:	Solid/stripe
Inner Jacket Material:	FR-LSZH
Inner jacket thickness:	1.0 mm nom.
Inner Jacket Diameter nom.:	6.6 mm nom
Inner Jacket Colour:	Grey
Armouring:	Braided Bronze Wire
Armouring Wire Diameter:	0.3 mm
Armour Coverage min.:	90%
Total number of conductors:	8
Outer jacket thickness:	1.0mm nom
Frequency Range:	1 - 100 MHz
Impedance:	100 Ω
Coupling Attenuation:	Type II
Max. DC Resistance :	73 Ω/km@20°C
Max. Resistance Unbalance:	2%
Capacitance Unbalance:	1.2 pF/m max.
Propagation Delay Skew:	35 ns/100m max.
Dielectric Strength:	700 V/minute
Min. Insulation Resistance :	5 GΩ•km
Tensile Strength - Short Term:	200 N max.
Max. Operating Temperature:	+85 °C
Min. Operating Temperature:	-40 °C
UV resistance:	Yes
Rodent Resistance:	Yes
Applicable Standards:	DNV-GL certified, ABS certified, IEC 60092-359, IEC 60092-350, IEC 61156-6, TIA/EIA-568, RoHS-2 2011/65/EU Flammability Rating: IEC 60332-1, IEC 60332-3-22, IEC 60754-1/2, IEC 61034-1/2, UL 1581 VW-1

Performance

Freq. MHz	Attenuation dB / 100m 20°C		PS NEXT Loss dB		NEXT Loss dB		RL dB		PS ELFEXT dB		ELFEXT dB	
	Typical value	Cat 5e	Typical value	Cat 5e	Typical value	Cat 5e	Typical value	Cat 5e	Typical value	Cat 5e	Typical value	Cat 5e
1	2.0	2.1	68.3	62.3	71.3	65.3	22.0	20.0	64.0	61.0	67.0	64.0
4	3.9	4.1	59.3	53.3	62.3	56.3	25.0	23.0	52.0	49.0	55.0	52.0
10	6.2	6.5	53.3	47.3	56.3	50.3	28.0	25.0	44.0	41.0	47.0	44.0
20	8.8	9.3	48.8	42.8	51.8	45.8	28.0	25.0	38.0	35.0	41.0	38.0
30	10.9	11.5	46.1	40.1	49.1	43.1	27.0	23.8	35.0	31.5	38.0	34.5
60	15.8	16.6	41.6	35.6	44.6	38.6	24.0	21.1	28.0	25.4	31.0	28.4
100	21.0	22.0	38.3	32.3	41.3	35.3	22.0	18.8	24.0	21.0	27.0	24.0

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.

www.batt.co.uk

battindustrial.sales@batt.co.uk