



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

Batt Part Number:	54283
Applications:	Offshore installations, Maritime Environment, High bandwidth digital applications with low BER, Indoor use, fixed installations, Ships, High speed & Light craft
General Construction:	4 Un-shielded Twisted Pairs cabled together and overall dual layer jacketed.
Outer Jacket Material:	FR-LSZH
Outer Diameter:	7.7 mm nom.
Weight:	65 kg/km
Conductor Material:	Annealed Tinned Copper
Conductor Size:	23 AWG
Conductor Construction:	Stranded
Insulation Material:	PO
Insulation O.D.:	1.06 mm nom.
Conductor unit identification:	Solid/stripe
Colour code:	Per TIA/EIA568-B
Inner Jacket Material:	LLDPE
Inner Jacket Colour:	Natural
Total number of conductors:	8
Standards	
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
Frequency Range:	1 - 100 MHz
Impedance:	100 Ω
Coupling Attenuation:	Type III
Max. DC Resistance :	73 Ω /km@20°C
Max. Resistance Unbalance:	2 %
Capacitance:	50 pF/m
Capacitance Unbalance:	1.2 pF/m max.
Propagation Delay Skew:	35 ns/100m max.
Dielectric Strength:	700 V/minute
Min. Insulation Resistance :	5 G Ω •km
Tensile Strength - Short Term:	90 N max.
Min. Bend Radius:	50 mm
Max. Operating Temp:	+85 °C
Min. Operating Temp:	-40 °C
UV resistance:	Yes

Freq. MHz	Attenuation dB/100m 20°C Typical Value	PS NEXT Loss dB Typical Value	NEXT Loss dB Typical Value	RL dB Typical Value	PS ELFEXT dB Typical Value	ELFEXT dB Typical Value
1	2.0	68.3	71.3	22.0	64.0	67.0
4	3.9	59.3	62.3	25.0	52.0	55.0
10	6.2	53.3	56.3	28.0	44.0	47.0
20	8.8	48.8	51.8	28.0	38.0	41.0
30	10.9	46.1	49.1	27.0	35.0	38.0
60	15.8	41.6	44.6	24.0	28.0	31.0
100	21.0	38.3	41.3	22.0	24.0	27.0