



Cat. 6 4x2x23/7 AWG U/UTP LSZH-SHF1

Batt Part No:	54284
Applications:	Offshore installations, Maritime Environment, Indoor use, fixed installations, High data rates, Ships, High speed & Light craft
General Construction	4 Un-shielded Twisted Pairs, central member, cabled and overall dual layer jacketed.
Outer Jacket Material:	FR-LSZH
Outer Diameter:	8.6 mm nom.
Weight:	80 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
Inner Jacket Material:	LLDPE
Inner Jacket Thickness:	0.4 mm nom.
Inner Jacket Diameter nom.:	7.0 mm nom
Total No of conductors:	8
Applicable Standards:	DNV-GL certified, ABS certified, IEC 60092-359, IEC 60092-350, IEC 61156-5, ISO/IEC 11801, 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
Frequency Range:	1 - 250 MHz
Impedance:	100 Ω
Coupling Attenuation:	Type III
Max. DC Resistance :	73 Ω /km@20°C
Max. Resistance Unbalance:	2 %
Capacitance Unbalance:	1.2 pF/m max.
Velocity of Propagation:	68 % nom.
Propagation Delay Skew:	35 ns/100m max.
Dielectric Strength:	700 V/minute
Min. Insulation Resistance :	5 G Ω •km
Tensile Strength - Short Term:	150 N max.
Min. Bend Radius:	65 mm
Max. Operating Temperature:	+85 °C
Min. Operating Temperature:	-40 °C
UV resistance:	Yes

Performance

Freq. MHz	Attenuation dB/100m 20oC		PS NEXT Loss dB		NEXT Loss dB		RL dB		PS ELFEXT dB		ELFEXT dB	
	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value
1	2.0	75.0	78.0	22.0	90.0	93.0	2.0	75.0	78.0	22.0	90.0	93.0
4	3.7	66.0	69.0	25.0	90.0	93.0	3.7	66.0	69.0	25.0	90.0	93.0
10	5.7	60.0	63.0	28.0	80.0	83.0	5.7	60.0	63.0	28.0	80.0	83.0
20	8.1	56.0	59.0	28.0	80.0	83.0	8.1	56.0	59.0	28.0	80.0	83.0
30	10.0	53.0	56.0	27.0	70.0	73.0	10.0	53.0	56.0	27.0	70.0	73.0
100	19.0	45.0	48.0	24.0	63.0	66.0	19.0	45.0	48.0	24.0	63.0	66.0
150	23.6	43.0	46.0	22.0	60.0	63.0	23.6	43.0	46.0	22.0	60.0	63.0
200	27.7	41.0	44.0	21.0	58.0	61.0	27.7	41.0	44.0	21.0	58.0	61.0
250	31.4	38.0	41.0	20.0	55.0	58.0	31.4	38.0	41.0	20.0	55.0	58.0