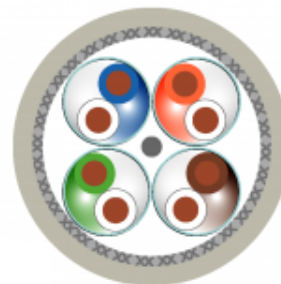


## Cat6 4PR x 23AWG S/FTP LSZH-SHF1

**Part Number:** **SHIPCAT6SCR**

<b>Applications:</b>	Offshore installations, Maritime Environment, Indoor use, fixed installations, High data rates, Ships, High speed & Light craft
<b>General Construction:</b>	Category 6, S/FTP, SHF1 marine type cable constructed with 4 individually foil-shielded twisted pairs with solid conductors, cabled together, overall braid-shield and jacketed. The cable is certified by DNV / DNV-GL FILE NO. E-13122 and by ABS FILE NO. 14-GE1164406-1.
<b>Outer Jacket Material:</b>	FR-LSZH
<b>Outer Diameter:</b>	7.9 mm nom.
<b>Weight:</b>	70 kg/km



### Design & Materials

#### Detailed Construction:

(\*) Cable outer jacket is black, for other optional colors please contact marketing personal.

<b>Conductor Material:</b>	Annealed Bare Copper
<b>Conductor Size:</b>	23 AWG
<b>Conductor Construction:</b>	Solid
<b>Insulation Material:</b>	Cellular PO
<b>Insulation O.D.:</b>	1.38 mm nom.
<b>Conductor unit identification:</b>	Solid Color
<b>Color code:</b>	Per TIA/EIA 568-B
<b>Ind. Shield Material:</b>	Aluminum/Polyester Foil
<b>Ind. Shield Design:</b>	Helically applied Aluminum foil, 100% coverage
<b>Conductor unit lay-up:</b>	Pairs
<b>Overall Shield Design:</b>	Braid
<b>Overall Braid Material:</b>	Annealed Tinned Copper
<b>Braid Coverage:</b>	55 % nom.
<b>Overall Drain-wire Material:</b>	Annealed Tinned Copper
<b>Overall Drain-wire size:</b>	0.41 mm
<b>Overall Drain-wire Construction:</b>	Solid
<b>Total number of conductors:</b>	8
<b>Outer Jacket Color:</b>	Black
<b>Marking:</b>	Per request,

### Standards

<b>Applicable Standards:</b>	IEC 60092-359, IEC 60092-350, IEC 61156-5, IEEE 802.3at (PoE+), ISO/IEC 11801, RoHS-2 2011/65/EU
<b>Flamability Rating:</b>	IEC 60332-1, IEC 60332-3-22, IEC 60332-3, IEC 60754-2, IEC 61034-1/2, UL 1581 VW-1

## Electrical Properties:

Freq. MHz	Attenuation dB/100m 20°C		PS NEXT Loss dB		NEXT Loss dB		RL dB		PS ELFEXT dB		ELFEXT dB	
	Typical Value	Cat. 6	Typical Value	Cat. 6	Typical Value	Cat. 6	Typical Value	Cat. 6	Typical Value	Cat. 6	Typical Value	Cat. 6
1	2.0	2.8	90.0	72.3	93.0	75.3	22.0	20.0	90.0	65.0	93.0	68.0
4	3.7	3.8	85.0	63.3	88.0	66.3	25.0	23.0	90.0	53.0	93.0	56.0
10	5.7	6.0	85.0	57.3	88.0	60.4	28.0	25.0	80.0	45.0	83.0	48.0
20	8.1	8.5	85.0	52.8	88.0	55.8	28.0	25.0	80.0	39.0	83.0	42.0
30	10.0	10.5	85.0	50.1	88.0	53.1	27.0	23.8	70.0	35.5	73.0	38.5
100	19.0	19.9	80.0	42.3	83.0	45.3	24.0	21.1	63.0	25.0	66.0	28.0
150	23.6	24.9	80.0	39.7	83.0	42.7	22.0	18.8	60.0	21.5	63.0	24.5
200	27.7	29.1	80.0	37.8	83.0	40.8	21.0	18.0	58.0	19.0	61.0	22.0
250	31.4	33.0	77.0	36.3	80.0	39.3	20.0	17.3	55.0	17.0	58.0	20.0

\*Supplied cables meet the minimum Cat. 6 transmission requirements as per IEC 61156-5 Ed. 2



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## Performance

<b>Frequency Range:</b>	1 - 250 MHz
<b>Impedance:</b>	100 Ω
<b>Transfer Impedance:</b>	Grade 1
<b>Coupling Attenuation:</b>	Type I
<b>DC Resistance:</b>	73 Ω /km nom.
<b>Max. Resistance Unbalance:</b>	2 %
<b>Capacitance Unbalance:</b>	1.2 pF/m max.
<b>Velocity of Propagation:</b>	78 % nom.
<b>Propagation Delay Skew:</b>	25 ns/100m max.
<b>Dielectric Strength:</b>	700 V/minute
<b>Dielectric Strength to Shield:</b>	700 V/minute
<b>Min. Insulation Resistance :</b>	5 GΩ •km
<b>Tensile Strength - Short Term:</b>	130 N max.
<b>Min. Bend Radius:</b>	80 mm
<b>Max. Operating Temperature:</b>	+ 85 °C
<b>Min. Operating Temperature:</b>	- 40 °C
<b>UV resistance:</b>	Yes