



GIGA-STAR Cat. 6 4x2x23/1 AWG U/FTP FR-LSZH

Part Number: **PLU030201**

Applications: Indoor use, fixed installations, High bandwidth digital applications with low BER, High data rates

General Construction: The cable contains 4 individually foil-shielded twisted pairs (U/FTP), cabled together with a drain conductor and jacketed with FR-LSZH compound.

Outer Jacket Material: FR-LSZH

Outer Diameter: 7.3 mm nom.

Weight: 50 kg/km



Design & Materials

Conductor Material:	Bare Copper
Conductor Size:	23 AWG
Conductor Construction:	Solid
Insulation Material:	SFS PO
Insulation O.D.:	1.31 mm nom.
Color code:	Per TIA/EIA 568-B
Conductor Color Code:	White x Blue, White x Orange, White x Green, White x Brown
Ind. Shield Material:	Aluminum/Polyester Foil
Ind. Shield Design:	Aluminum face outwards
Overall Drain-wire Material:	Tinned Copper
Overall Drain-wire size:	0.41 mm
Total number of wires:	8
Outer Jacket Color:	See TELDOR Jacket Code
Marking:	Teldor Standard, Per request

Standards

Standards:	IEC 61156, ISO/IEC 11801, TIA/EIA-568, RoHS 2002/95/EC
Flamability Rating:	IEC 60332-1, UL 1581 VW-1

Teldor Cables & Systems Ltd. ("Teldor") reserves the right to make changes to the products described in this catalog without prior notice. Teldor does not assume any liability which may occur due to the use of the products described herein. The information contained in this catalog is the proprietary property of Teldor, and may not be used, reproduced or disclosed to others, in whole or in part, without the written authorization of Teldor.

Electrical Properties:

Cat. 6 Screened-Pair Horizontal Cables *

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**

Performance

Frequency Range:	1 - 250 MHz
Impedance:	100 Ω
Coupling Attenuation:	Type II
DC Resistance:	73 Ω/km nom.
Max. Resistance Unbalance:	2 %
Capacitance Unbalance:	1.2 pF/m max.
Velocity of Propagation:	80 % nom.
Propagation Delay Skew:	35 ns/100m max.
Dielectric Strength:	700 V/minute
Dielectric Strength to Shield:	700 V/minute
Min. Insulation Resistance :	5 GΩ •km
Max. Tensile Strength - Short Term:	150 N
Min. Bend Radius:	70 mm
Max. Operating Temperature:	+70 °C
Min. Operating Temperature:	-40 °C

Prepared By	Revised By	Version Num	Modified on
Jacob Ben Ary	Jacob Ben Ary	1.5	23-04-2009

Teldor Cables & Systems Ltd. ("Teldor") reserves the right to make changes to the products described in this catalog without prior notice. Teldor does not assume any liability which may occur due to the use of the products described herein. The information contained in this catalog is the proprietary property of Teldor, and may not be used, reproduced or disclosed to others, in whole or in part, without the written authorization of Teldor.