

## Cat. 6 4x2x23 AWG U/FTP FR-PVC

**Part Number:** **8301204129**

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

**General Construction:** The cable contains 4 individually foil-shielded Twisted Pairs (U/FTP), cabled together and protected by an outer jacket .

**Detailed Schematic:**

**Outer Jacket Material:** FR-PVC

**Outer Diameter:** 7.2 mm nom.

**Weight:** 50 kg/km



### Design & Materials

<b>Conductor Material:</b>	Annealed Bare Copper
<b>Conductor Size:</b>	23 AWG
<b>Conductor Construction:</b>	Solid
<b>Insulation Material:</b>	SFS PO
<b>Insulation O.D.:</b>	1.31 mm nom.
<b>Color Code:</b>	Per TIA/EIA 568-B
<b>Conductor Color Code:</b>	White x Blue, White x Orange, White x Green, White x Brown
<b>Ind. Shield Material:</b>	Aluminum/Polyester Foil
<b>Ind. Shield Design:</b>	Aluminum face outwards
<b>Drain-wire 1 Material:</b>	Annealed Tinned Copper
<b>Drain-wire 1 Construction:</b>	Solid
<b>Drain-wire 1 size mm.:</b>	0.41 mm
<b>Total number of conductors:</b>	8
<b>Outer Jacket Color:</b>	Light Gray
<b>Marking:</b>	Per request

### Standards

<b>Applicable Standards:</b>	ISO/IEC 11801-1, TIA/EIA-568
<b>Flammability Rating:</b>	IEC 60332-1, UL 1581 VW-1

## 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

<b>Frequency Range:</b>	1 - 400 MHz
<b>Impedance:</b>	100 Ω
<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>Propagation Delay Skew:</b>	35 ns/100m max.
<b>Dielectric Strength:</b>	700 V/minute
<b>Min. Insulation Resistance :</b>	5 GΩ•km
<b>Min. Bend Radius:</b>	35 mm
<b>Max. Operating Temperature:</b>	+70 °C
<b>Min. Operating Temperature:</b>	-40 °C

Prepared By	Revised By	Version Num	Modified on
Jacob Ben Ary	Jacob Ben Ary	2.3	13-01-2012

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