

Cat. 6 4x2x23/1 AWG U/UTP Indoor/Outdoor FR-LSZH/FR-LSZH

Part Number: **750UZ24102**

- Applications:** High bandwidth digital applications with low BER, Indoor/Outdoor use, fixed installations, Low temperature Indoor/Outdoor applications
- General Construction:** 4 Unshielded Twisted Pairs (UTP), with a special star shaped central filler cabled together and double jacketed with a special FR-LSZH compounds with a rip cord between the jackets.
- Outer Jacket Material:** FR-LSZH
- Outer Diameter:** 8.3 mm nom.
- Weight:** 79 kg/km
- Total Copper Weight:** 52.4 kg/cable km



Design & Materials

Detailed Construction:

Cable voltage rate is 300 V, however the cable is not intended to supply mains electric supply. It may be used in installations and applications where 300 V supply and equipment are installed.

Conductor Material:	Annealed Bare Copper
Conductor Size:	23 AWG
Conductor Size:	0.58 mm
Conductor Construction:	Solid
Insulation Material:	Solid PO
Insulation O.D.:	1.0 mm nom.
Conductor unit identification:	Solid/stripe
Color Code:	Per TIA/EIA 568-B
Inner Jacket Material:	LSZH
Inner Jacket Diameter nom.:	6.7 mm nom
Inner Jacket Color:	White
Outer Jacket Color:	Black
Marking:	Per request, Teldor Standard

Standards

Applicable Standards:	IEC 61156, ISO/IEC 11801-1, TIA/EIA-568, RoHS 3 2015/863/EU
Flammability Rating:	IEC 60332-1, EN 50575:2014 Dcas2d2a1 (CPR)

Electrical Properties:

Cat. 6 Un-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	75.0	72.3	78.0	75.3	22.0	20.0	90.0	65.0	93.0	68.0
4	3.7	3.8	66.0	63.3	69.0	66.3	25.0	23.0	90.0	53.0	93.0	56.0
10	5.7	6.0	60.0	57.3	63.0	60.4	28.0	25.0	80.0	45.0	83.0	48.0
20	8.1	8.5	56.0	52.8	59.0	55.8	28.0	25.0	80.0	39.0	83.0	42.0
30	10.0	10.5	53.0	50.1	56.0	53.1	27.0	23.8	70.0	35.5	73.0	38.5
100	19.0	19.9	45.0	42.3	48.0	45.3	24.0	21.1	63.0	25.0	66.0	28.0
150	23.6	24.9	43.0	39.7	46.0	42.7	22.0	18.8	60.0	21.5	63.0	24.5
200	27.7	29.1	41.0	37.8	44.0	40.8	21.0	18.0	58.0	19.0	61.0	22.0
250	31.4	33.0	38.0	36.3	41.0	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 - 400 MHz
Impedance:	100 Ω
Coupling Attenuation:	Type III
Max. DC Resistance :	72 Ω /km@20°C
Max. Resistance Unbalance:	2 %
Capacitance:	56 pF/m
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
Voltage Rating:	300 V
Min. Bend Radius:	120 mm
Max. Operating Temperature:	+70 °C
Min. Operating Temperature:	-55 °C
UV Resistance:	Yes

Prepared By	Revised By	Version Num	Modified on
Ofer Solter	Ofer Solter	1.2	09-12-2020

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