

CAT6 U/UTP Unshielded Twisted Pair LSOH

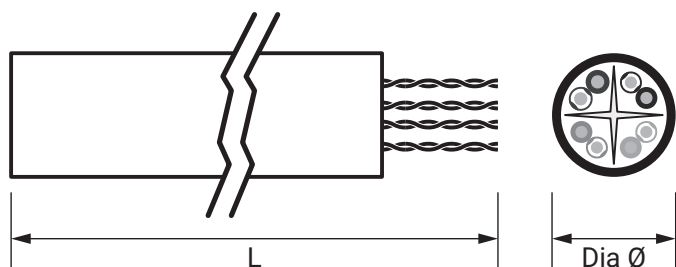
Product Ref: **EM02.102**

Technical Features:

- Designed for optimal support of high-speed data Protocols delivering 1 Gbps performance
- Euroclass/ CPR rating: D_{ca}
- 250 MHz performance
- 305m fast feed, snag free box
- Box numbering table on front of box
- 305 to 1 metre marking helps to reduce waste
- 23 AWG soft plain copper

Product Specification

Category	CAT6
Colour	Violet
Compliance	UKCA, CE
Conductor	Solid Bare Copper
Conductor Insulation	HDPE
Euroclass/ CPR rating	D _{ca}
Minimum Bending Radius	10 x Overall Diameter
No of Cores	8
Number of Pairs	4
Operating Temperature Range	-20 to +60°C
Outer Sheath Material	PVC LSOH
Shielded / Unshielded	Unshielded
Weight	14.500kg/km
Diameter Ø	6.3mm
Length	305m



Errors and omissions excepted (E&OE). All information is subject to change without notice and is correct at the time of print. Refer to issue number and date below.

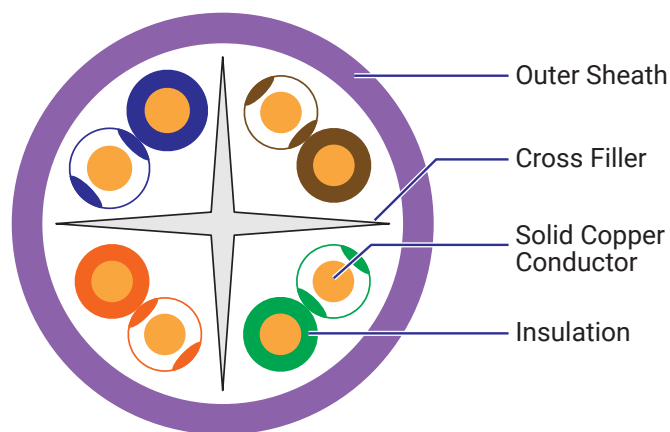
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Cable Construction:

Outer Sheath		Conductor	
Material	PVC LSOH	Material	Solid Bare Copper
Thickness	0.6mm	Diameter Ø	0.574 ± 0.008mm Ø 23 AWG
Diameter Ø	6.3 ± 0.3mm	Insulation	HDPE
		Insulation Diameter Ø	1.01 ± 0.05mm



Physical Characteristics:

Conductor		Insulation		Outer Sheath	
Elongation ratio	Tensile strength	Elongation ratio	Tensile strength	Elongation ratio	Tensile strength
≥15%	≥10MPa	≥125%	≥10MPa	≥10MPa	≥125%

Electrical Characteristics:

Impedance	Insulation Resistance	DC resistance	Dielectric Strength
1-250MHz 100±15 (Ohms)	≥5000MΩkm	20°C: ≤93.8 (Ohms/Km)	DC 2500V 2S

Performance Characteristics:

Frequency (MHz)	Return Loss (dB)	IL (dB / 100m)	DOP (ns/100m)	DELAY SKEW (ns/100m)	NEXT (dB)	PS NEXT (dB)	ACR-F (db / 100m)	PSACR-F (dB / 100m)
1	20	2.0	570	45	74.3	72.3	67.8	64.8
4	23	3.8	552	45	65.3	63.3	55.8	52.8
8	24.5	5.3	547	45	60.8	58.8	49.7	46.7
10	25	6.0	545	45	59.3	57.3	47.8	44.8
16	25	7.6	543	45	56.2	54.2	43.7	40.7
20	25	8.5	543	45	54.8	52.8	41.8	38.8
25	24.3	9.5	541	45	53.3	51.3	39.8	36.8
31.25	23.6	10.7	540	45	51.9	49.9	37.9	34.9
62.50	21.5	15.4	539	45	47.4	45.4	31.9	28.9
100	20.1	19.8	538	45	44.3	42.3	27.8	24.8
200	18.0	29.0	537	45	39.8	37.8	21.8	18.8
250	17.3	32.8	536	45	38.3	36.3	19.8	16.8

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