

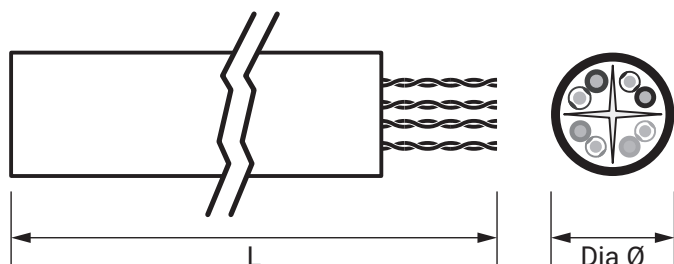
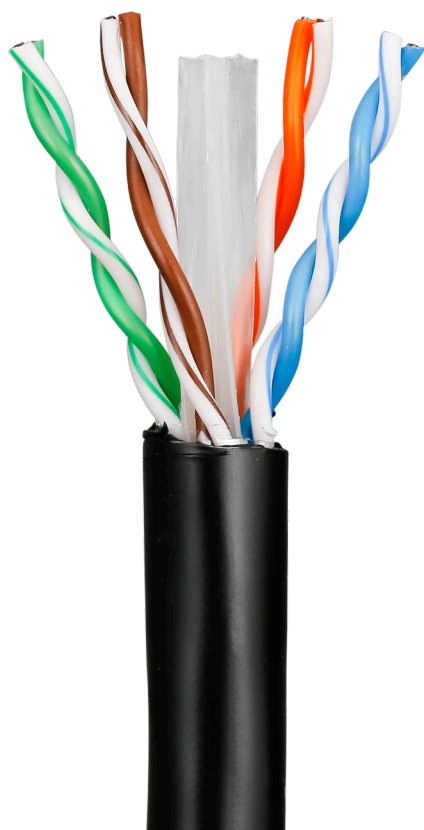
## CAT6 U/UTP Unshielded

### Twisted Pair External Duct Black 305m

Product Ref: **EM02.104**

#### Technical Features:

- Designed for optimal support of high-speed data Protocols delivering 1 Gbps performance
- Euroclass/CPR rating: F<sub>ca</sub>
- 250 MHz performance
- 305m drum
- 305 to 1 metre marking helps to reduce waste
- 23 AWG soft plain copper
- UV resistant, duct grade and weatherproof
- Double sheathed for extra protection



## Product Specification

Category	CAT6
Colour	Black
Compliance	UKCA, CE
Conductor	Solid Bare Copper
Conductor Insulation	HDPE
Euroclass/CPR rating	F <sub>ca</sub>
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	PE
Shielded / Unshielded	Unshielded
Weight	4.051kg
Diameter Ø	6.5mm
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.

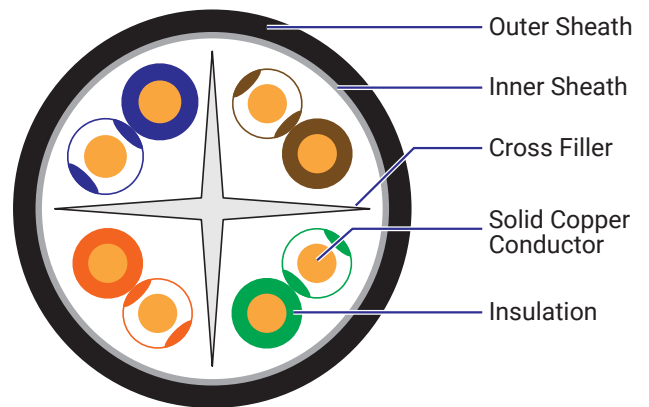
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**CAT6 U/UTP Unshielded**

Twisted Pair External Duct Black 305m

Product Ref: **EM02.104****Cable Construction:**

Outer Sheath		Conductor	
Material	PE	Material	Solid Bare Copper
Thickness	0.6mm	Diameter Ø	1.01 ± 0.05mm Ø
Diameter Ø	6.5 ± 0.3mm	Insulation	HDPE
Inner Sheath		Thickness	0.22 ± 0.05mm
Material	PET		
Shield	---		

**Physical Characteristics:**

Conductor	Insulation		Outer Sheath	
Elongation ratio	Tensile strength	Elongation ratio	Tensile strength	Elongation ratio
≥15%	≥9.7MPa	≥350%	≥75%	≥75%

**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	2.1	570	45	74	72	67.8	65.8
4	23	3.9	552	45	65	63	55.7	52.7
10	25	6.1	545	45	59	57	47.8	44.8
16	25	7.6	543	45	56	54	43.7	40.7
20	25	8.5	542	45	55	53	41.7	38.7
31.25	23.6	10.7	540	45	52	50	37.9	34.9
62.50	21.5	15.4	538	45	47	45	31.8	28.8
100	20.1	20.3	537	45	44	42	27.8	24.8
200	18.0	29.5	536	45	39	37	21.7	18.7
250	17.3	33.3	537	45	38	36	19.8	16.8

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