

## CAT6a F/FTP Shielded

Twisted Pair External Duct Black 305m

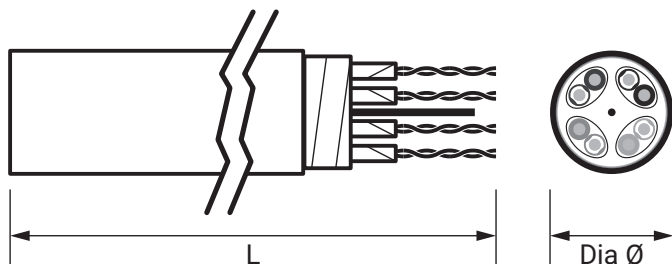
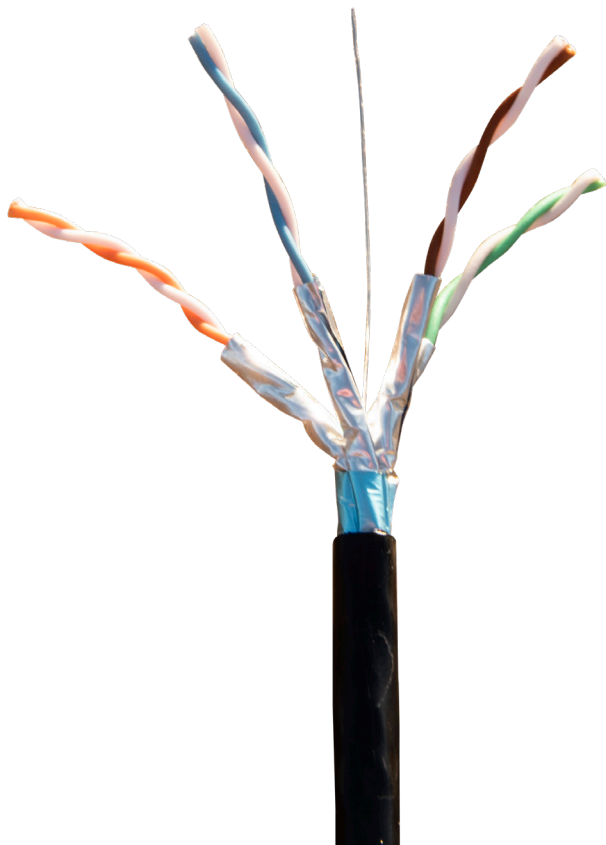
Product Ref: **EM02.204**

### Technical Features:

- Solid conductor 4 pair FTP cable
- Conforms and is compliant to the enhanced performance CAT6a specification
- Euroclass/CPR rating: F<sub>ca</sub>
- Power sum compliant
- 305m drum
- 305 to 1 metre marking helps to reduce waste
- UV resistant, duct grade and weatherproof
- Double sheathed for extra protection

## Product Specification

Category	CAT6a
Colour	Black
Compliance	UKCA, CE
Conductor	Solid Bare Copper
Conductor Insulation	HDPE
Euroclass/CPR rating	F <sub>ca</sub>
No of Cores	8
Number of Pairs	4
Operating Temperature Range	-20 to +60°C
Outer Sheath Material	PE
Shielded / Unshielded	Shielded
Weight	14.000kg
Diameter Ø	7.35mm
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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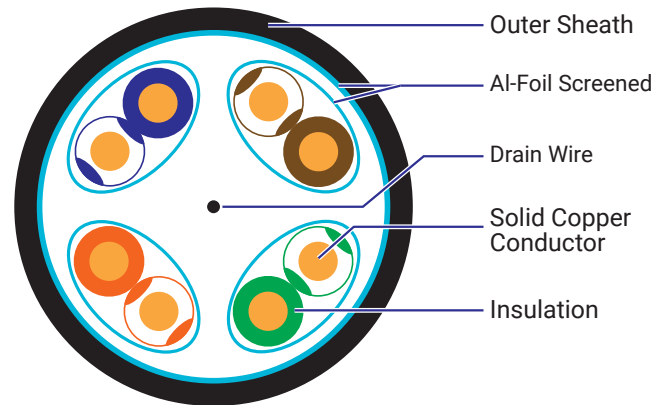
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### Cable Construction:

Outer Sheath		Conductor	
Material	PE	Material	Solid Bare Copper
Thickness	0.6mm	Diameter Ø	1.4 ± 0.005mm Ø
Diameter Ø	7.35 ± 0.3mm	Insulation	HDPE
Shielding		Thickness	0.57 ± 0.005mm
Material	Al-Foil Screened		



### Physical Characteristics:

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