

Cat 6 - Ex PE black, 23AWG, 250MHz, U/UTP,  
100 m

Art. Number 155003



**CAT 6 cable, PE black, 23 AWG UTP - 100m drum.**

Unshielded CAT 6 network cable which can handle bandwidth up to 250 MHz (1000 BASE-T Ethernet) and 1000 mbps speed (short length up to 10 Gbit).

Solid bare copper inner conductor makes the cable capable of carrying Ethernet data signal over distance (with less attenuation) and more durable for a longer period.

Central pair separator improves transmission speeds by balancing the cable pair structure further.

#### Main features:

- 23 AWG solid bare copper inner conductor allows high conductivity and resistance to corrosion
- Suitable for PoE (Power over Ethernet)
- Reaction to fire: Fca, suitable for all outdoor applications
- Central pair separator maintain performance and geometry
- Max. bandwidth: 250 MHz
- Impedance: 100 Ohm
- Cable type: Round cable
- Packaging: 100m drum
- Length marked every meter
- Comply with all CAT6 standards
- CE, RoHS compliant

## Technical Specifications

### ORDER INFORMATION

EAN Number 5702661550034

### CONSTRUCTION



## Technical Specifications

Inner conductor - material	Cu
Inner conductor - dimension   mm	0.53 ±0.005 mm
Dielectric - material	Solid PE
Dielectric - dimension   mm	1.00 ±0.05 mm
Flat filler - material	PE Spline
Jacket - material	PE
Jacket – dimension   mm	6.0 ± 0.50 mm
Colour code - Pair 1	Blue / White-Blue
Colour code - Pair 2	Orange / White-Orange
Colour code - Pair 3	Green / White-Green
Colour code - Pair 4	Brown / White-Brown

### NEXT

Next @ 1 MHz   dB	74.30 dB
Next @ 4 MHz   dB	65.30 dB
Next @ 10 MHz   dB	59.30 dB
Next @ 16 MHz   dB	56.20 dB
Next @ 25 MHz   dB	53.30 dB
Next @ 31.25 MHz   dB	51.90 dB
Next @ 100 MHz   dB	44.30 dB
Next @ 200 MHz   dB	39.80 dB
Next @ 250 MHz   dB	38.30 dB

### LOSS

Attenuation (20°C/100mtr) @ 1 MHz   dB	2.00 dB
Attenuation (20°C/100mtr) @ 4 MHz   dB	3.80 dB
Attenuation (20°C/100mtr) @ 10 MHz   dB	6.00 dB
Attenuation (20°C/100mtr) @ 16 MHz   dB	7.60 dB
Attenuation (20°C/100mtr) @ 25 MHz   dB	9.50 dB
Attenuation (20°C/100mtr) @ 31.25 MHz   dB	10.70 dB
Attenuation (20°C/100mtr) @ 100 MHz   dB	19.80 dB
Attenuation (20°C/100mtr) @ 200 MHz   dB	29.00 dB
Attenuation (20°C/100mtr) @ 250 MHz   dB	32.80 dB

### RETURN LOSS

Return loss @ 1 MHz   dB	20.00 dB
Return loss @ 4 MHz   dB	23.00 dB
Return loss @ 10 MHz   dB	25.00 dB
Return loss @ 16 MHz   dB	25.00 dB
Return loss @ 25 MHz   dB	24.30 dB
Return loss @ 31.25 MHz   dB	23.60 dB
Return loss @ 100 MHz   dB	20.10 dB
Return loss @ 200 MHz   dB	18.00 dB



## Technical Specifications

Return loss @ 250 MHz | dB 17.30 dB

### ELECTRICAL

Characteristic impedance (1-100 MHz) |  $\Omega$  100  $\pm$ 15  $\Omega$

Characteristic impedance (100-250 MHz) |  $\Omega$  100  $\pm$ 20  $\Omega$

Conductor DC resistance @ 20°C | Ohm/km < 95 Ohm/km

Mutual capacity @ 1kHz | pF/m < 1500 pF/m

### OPERATIONAL

Application Outdoor

Fire Class EN 50575 (Fca)

DoP number TR0083

### MECHANICAL

Cable length | m 100 m

Minimum bending radius - single/repeated | mm 8xD mm

Colour Black

Packaging Height | m 0.117 m

Packaging Width | m 0.300 m

Packaging Depth | m 0.300 m

Packaging Volume | m<sup>3</sup> 0.011 m<sup>3</sup>

Net Weight | kg 3.300 kg

Tara Weight | kg 0.700 kg

Total Weight | kg 4.000 kg