



LAN Cable, Category 6, UTP

An essential item CAT6 cable is the most commonly used transmission medium in general cabling systems.



Essential Stock

- 305m (1000ft) reel
- Blue or Grey colour
- Hassle free easy pull box



Range

- Residential
- Commercial
- Industrial



Applications

- Network Installations
- CCTV



Confidence

- Quality Material
- Warranty and Support

COMMUNICATION CABLE

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FEATURES:

- Power over Ethernet
- High purity oxygen-free copper conductor
- Customised PVC outer sheath
- CE CPR Eca flame retardant class certified
- Hassle free easy pull box
- 10 year warranty

Model	Colour
CAT6305-BL	Blue
CAT6305-GY	Grey



Technical Specifications

Conductor	Oxygen-free copper (99.97% purity) 0.53mm ± 0.01mm diameter
Insulation	HDPE material 0.21mm Min. average thickness 0.95mm ± 0.1mm diameter
Insulation Colour	4 pairs: Blue, white/blue Orange, white/orange Green, white/green Brown, white/brown
Separator	PE material Translucent 4.5 x 0.4mm
Rip Cord	Polyester material, 500D
Sheath	PVC material 0.5mm Min. average thickness 6.0mm ± 0.3mm Blue or Grey colour

Environmental Specifications

Shrinkage of Insulation	< 5%
Colour Migration Resistance of Insulation	No migration
Sheath Tensile Strength and Elongation at Break after Aging	≥ 12.5 MPa, ≥ 100%
Low Temperature Bending Test	No cracking after the test
Heat Shock Test	No cracking after the test
Operating Temperature	-20°C to +60°C (-4°F to 140°F)
Installation Temperature	0°C to +50°C (32°F to 122°F)
Storage Temperature & Humidity	-10°C to +40°C (14°F to 104°F) < 60% (RH)

Electrical Specifications

Max. DC Resistance of a Single Conductor	8.7Ω/100m
Min. Insulation Resistance	5000MΩ•km
Max. DC Resistance Unbalance	2% (pair intra), 4% (pairs inter)
Dielectric Strength	No breakdown with 1KV DC for 1 minute

Transmission Specifications

Characteristic Impedance	100 ± 15Ω
Near End Cross Talk	≥ 39.30 dB/100m @ 250 MHz
Max. Attenuation	34.8 dB/100m @ 250 MHz
Return Loss	≥ 17.3 dB/100m @ 250 MHz

Mechanical Specifications

Tensile Strength	Sheath ≥ 13.5 MPa, Insulation ≥ 16 MPa
Elongation at Break	Sheath ≥ 150%, Insulation ≥ 300%
Installation Bending Radius	> 8 times of outer cable ø
Conductor Elongation at Break	≥ 10%

Standards Compliance

Vertical Fire Propagation Test	Comply with IEC 60332-1-2
Executive Standards Certification	Q/DXJ067-2019, EN50575-2014 CPR Eca, RCM

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DIMENSIONS:

Cable Length: 305m / 1000ft

Size: 32 x 31 x 25cm

Gross Weight: 16kg

Net Weight: 15kg

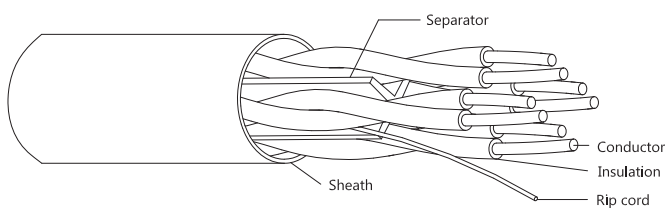
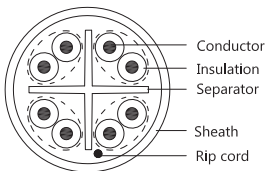
EASY PULL BOX FEATURES:

Tear-away access slot

Cable end holding spot

Sturdy heavy-duty board

Dual carry handles



Transmission Characteristics (100m at 20°C) (328.08ft at 68°F)

Frequency (MHz)	Phase Delay ≤ ns	IL ≤ dB	TCL ≥ dB*	EL TCT ≥ dB*	NEXT ≥ dB	PS NEXT ≥ dB	EL FEXT ≥ dB	PS EL FEXT ≥ dB	RL ≥ dB	Delay skew ≤ ns	Zc(Ω)
1	n/s	n/s	50.0	35.0	n/s	n/s	n/s	n/s	n/s	n/s	n/s
4	552.0	4.0	44.0	23.0	66.3	63.3	56.0	53.0	23.0	45.0	100±15
8	547.0	5.6	41.0	16.9	61.8	58.8	49.9	46.9	24.5	45.0	100±15
10	545.0	6.4	40.0	15.0	60.3	57.3	48.0	45.0	25.0	45.0	100±15
16	543.0	8.1	38.0	10.9	57.2	54.2	43.9	40.9	25.0	45.0	100±15
20	542.0	9.0	37.0	9.0	55.8	52.8	42.0	39.0	25.0	45.0	100±15
25	541.0	10.1	36.0	7.0	54.3	51.3	40.0	37.0	24.3	45.0	100±15
30*	540.6	11.0	35.2	5.5	53.1	50.1	38.5	35.5	23.8	45.0	100±15
31.25	540.0	11.3	35.1	n/s	52.9	49.9	38.1	35.1	23.6	45.0	100±15
62.5	539.0	16.3	32.0	n/s	48.4	45.4	32.1	29.1	21.5	45.0	100±15
100	538.0	21.0	30.0	n/s	45.3	42.3	28.0	25.0	20.1	45.0	100±15
200	537.0	30.7	27.0	n/s	40.8	37.8	22.0	19.0	18.0	45.0	100±15
250	536.0	34.8	26.0	n/s	39.3	36.3	20.0	17.0	17.3	45.0	100±15

Note: Executive standard for the above parameters: Q/DXJ067-2019

"n/s" = Not specified

* = Unless otherwise customer stated the test results default to not shown in test report but comply with standard

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