

# VECTUS<sup>®</sup>™

## CAT5CABLE-305MO

Outdoor 305 meters UTP CAT5e Cable



### Key Features:

- 305m easy pull box
- 24AWG
- PE external grade
- Meter marked
- Premium solid core copper
- ANSI/TIA 568-c.2
- EN 50575: 2014+A1:2016
- Reaction to fire: Fca

## SPECIFICATIONS

<b>Model Number</b>	CAT5CABLE-305MO
<b>Material</b>	Bare Copper
<b>American Wire Gauge</b>	24AWG
<b>Insulation</b>	
<b>Material</b>	HDPE
<b>Mim. Average Thickness</b>	0.18 mm(0.007")
<b>Diameter</b>	0.85 mm ± 0.08 mm(0.03"± 0.003")
<b>Colour</b>	8-core, Blue, white/blue; orange, white/orange; green, white/green; brown, white/brown
<b>Rip Cord</b>	
<b>Material</b>	Polyester
<b>Specification</b>	250D

(continued)

**Wrap**

<b>Material</b>	Polyester tape (transparent)
<b>Dimension</b>	W: 12mm±2mm*T: 0.025mm±0.02mm ( W: 0.47"±0.07"*T: 0.001"±0.0007")

**Sheath**

<b>Material</b>	PE
<b>Min. Average Thickness</b>	0.48±0.03mm (0.018"±0.001")
<b>Diameter</b>	4.8 mm ± 0.03 mm(0.189"± 0.001")
<b>Colour</b>	Black
<b>Sheath printing</b>	VECTUS UTP CAT5E PE 24AWG 4PAIRS ISO/IEC 11801 ANSI/TIA 586C.2 2023/09 001m.....305m
<b>Reaction to Fire</b>	Fca

**Electrical**

<b>Max. DC Resistance of a</b>	< 108Ω/Km
<b>Min. Insulation Resistance</b>	≥50MΩ ·km/DC500V
<b>Max. DC Resistance Unbalance</b>	No breakdown with 1KV DC for 1 min
<b>Dielectric Strength</b>	No breakdown with 1KV DC for 1 min

**Transmission**

<b>Characteristic Impedance</b>	100 ± 15Ω
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**Mechanical**

<b>Installation Bending Radius</b>	>8 times of outer cable diameter
<b>Conductor Elongating at Break</b>	≥15%

**Environmental**

<b>Shrinkage of Insulation</b>	≤5%
<b>Colour Migration</b>	No migration
<b>Resistance of Insulation</b>	
<b>Low Temperature Bending Test</b>	No Cracking after the test
<b>Heat Shock Test</b>	No Cracking after the test
<b>Operation Temperature</b>	-10°C to +60°C (14°F to 140°F)
<b>Installation Temperature</b>	-5°C to +50°C (23°F to 122°F)
<b>Storage Temperature and Humidity</b>	-10°C to +40°C (14°F to 104°F), <60% (RH)

### Packaging

<b>Length</b>	305m (1000 ft) ± 1.5 m (4.92 ft)
<b>Packaging Dimensions</b>	360mm × 360mm × 205mm (14.17" × 14.17" × 8.07") (L × W × H)
<b>Packaging Method</b>	305 m (1000.66 ft) a carton one protection carton with 2 cartons inside
<b>Net Weight</b>	7kg±0.6kg (22 lb±1.32lb)
<b>Gross Weight</b>	7.5kg±0.6kg (24.20 lb±1.32lb)

### Executive Standard

<b>Executive Standard</b>	EN50575:2014+A1:2016 EN IEC62368-1:2020+A11:2020 ISO/IEC 11801 ; ANSI/TIA 568-C.2
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### Technical Performance (100m)

Frequency (MHz)	RL ≥dB	ELFEXT ≥dB	NEXT ≥dB	ATT(20°C) ≤dB	PSNEXT ≥dB	PSACR-N ≥dB	PSELFEXT ≥dB
1	25	70.9	79	2.1	74.7	72	68.6
16.6	35.7	45.9	61.5	8.9	58.8	48.2	44
31	35.4	40.9	56.3	12.1	53	44.2	38.3
62	23.6	38.4	54.3	17	50.4	35.6	35.2
100	45.9	27.9	46.8	21.7	44.6	26.3	27.7
200	31.5	22.1	51.1	30.9	47.5	12.9	21.4
250	21.6	26.1	46.6	35.5	44.9	6.3	23.8

### Dimensions (mm/inch)

