

# CAT5E & CAT6 NETWORK CABLE

GUARANTEED QUALITY AND CONSISTENCY



Essential to any IP networking infrastructure, Vista supplies a range of Cat5e and Cat6, 4 pair UTP cable, comprising of high quality, solid copper cores to ensure that industry standard network cable lengths can be achieved before additional repeaters or switches are required.

The Cat5e UTP cable has 4 pairs, each with a precise differing number of twists along the length to minimise the cross talk between the pairs and is suitable for use on Gigabit (1000BASE-T) networks.

Cat6 cable also has 4 individually twisted pairs, however it includes an internal separator to reduce cross talk even further between the pairs and is suitable for using on 10-Gigabit (10GBASE-T). Both Cat5e and Cat6 cables are suitable for use with cameras that require Power over Ethernet (PoE).

Available in lengths of 305 and 500m, the cable is constructed with either a PVC or LSZH (Low Smoke, Zero Halogen) for internal use or Duct grade (PE) sheath for external applications. Regardless of cable type, all have unique identifiers printed along the length including batch and type, with metres remaining for convenience.

## Key Features:

### Cat5e & Cat6 options

With 2 options available, use Cat5e for Gigabit ethernet networks (1000BASE-T), with Cat6 cable being suitable for use on up to 10-Gigabit networks (10GBASE-T)

### Reduced cross talk

Cat5e and Cat6 have 4 unshielded twisted pairs (UTP) of solid copper core. Cat6 has an additional internal cable separator, further reducing any cross talk, ensuring networking distances can be achieved in accordance with ANSI TIA/EIA 568

### UV resistant

Duct cable can be laid in external areas exposed to daylight, without deterioration or break-up over time

### Low, Smoke, Zero Halogen

Designed for use in confined spaces or low ventilation areas, this cable is designed to minimise toxic fumes, should it become burnt

### Consistency of specification

All cables carry a unique identifier, along with Vista branding, showing batch, date of manufacture and metres remaining in the box or on the drum

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TECHNICAL SPECIFICATION

Type	CAT5e			CAT6
	PVC	LSZH	DUCT	LSZH
CONDUCTOR / CORE				
Length	305m (±1.5)		500m (±2.5)	305m (±1.5)
Material Ø (mm)	Solid copper 0.48			Solid copper 0.55
Insulation type	HDPE			
Insulation Ø (mm)	0.87 (±0.03)			0.98 (±0.03)
Colours (4 pair)	White-Blue/Blue, White-Orange/Orange, White-Green/Green, White-Brown/Brown			
Core pair separator	No			Yes
SHEATH				
Material	PVC	LSZH	PE	LSZH
Thickness (mm)	0.50 (±0.05)			0.55 (±0.05)
External Ø (mm)	4.9 (±0.4)	5 (±0.4)	5.3 (±0.4)	6.2 (±0.4)
Surface	Clean, Frap, Satiation			
Printing letter height (mm)	3 (±0.3)			
Printing colour	Black	Black	White	Black
Printing interval	1m (inc type, batch number, approvals)			
Rip cord	Yes			
SHEATH PHYSICAL PROPERTIES				
BEFORE AGING				
Tensile strength (Mpa)	≥13.5	≥10	≥10	≥10
Elongation (%)	≥150	≥125	≥350	≥125
AFTER AGING (AGING PERIOD 100°C X 24H X 7 DAYS)				
Tensile strength (Mpa)	≥12.5	≥8	≥8	≥8
Elongation (%)	≥125	≥100	≥100	≥100
Cold bend (-20±2°C ×4h)	No visible cracks			
ELECTRICAL CHARACTERISTICS				
Impedance (Ω)	1-100MHz: 100±15			1-250MHz: 100±15
Delay Shew (ns/100m)	1-100MHz: ≤45			1-250MHz: ≤45
DC Resistance (Ω/100m)	max 11.0		max 11.5	max 9.5
DC Conductor Resistance Unbalance (%)	max 5.0			
PACKAGING				
Packing	Cardboard box		Wooden reel	Cardboard box (with reel)
Box dimensions cm (WxHxD)	20 x 35 x 35		N/A	21 x 40.5 x 40.5

Models In This Range

- 0480540

CAT5e/UTP/305/PVC/GREY

305m CAT5e cable, Grey PVC sheath
- 0480560

CAT5e/UTP/305/LSZH/VIOLET

305m CAT5e cable, Violet LSZH sheath
- 0480570

CAT5e/UTP/305/LSZH/WHITE

305m CAT5e cable, White LSZH sheath
- 0480580

CAT5e/UTP/305/DUCT/BLACK

305m CAT5e cable, Black Duct sheath
- 0480590

CAT5e/UTP/500/DUCT/BLACK

500m CAT5e cable, Black Duct sheath
- 0480620

CAT6/UTP/305/LSZH/VIOLET

305m CAT6 cable, Violet LSZH sheath

Associated Products

- 0571780

RJ45 Cat5

crimp connectors 100pc
- 0658850

CRIMP TOOL

with RJ45 Die



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DS - CAT5e/CAT6-Cable - Version 2