

CAT5E UTP COPPER CABLES

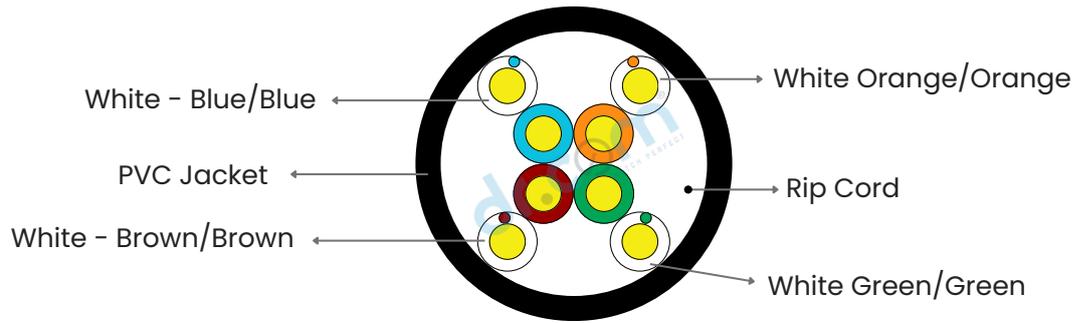
Key Features

- **Standards Compliant Performance:** Provides stable electrical performance and meets ANSI/TIA-568.2-D and ISO/IEC 11801 standards.
- **Pure Copper Conductor:** Constructed with solid bare copper conductors offering lower resistance, improved electrical characteristics, and enhanced transmission performance.
- **UV-Resistant PE Jacket:** Equipped with a PE outer jacket that protects the cable from long-term damage caused by UV sunlight exposure.
- **High-Strength Sheath:** Designed with strong mechanical properties and high tensile and compressive strength to minimize damage during installation and project execution.
- **Fluke 90 m High-Temp Tested:** Delivers excellent performance in the Fluke 90-meter permanent link test while operating continuously at temperatures up to 50°C.
- **Fluke 100 m PoE Tested:** Ensures reliable performance in the Fluke 100-meter channel test under continuous 57 V / 1 A DC power load (PoE).



CAT5E UTP 25 AWG

PVC CABLE

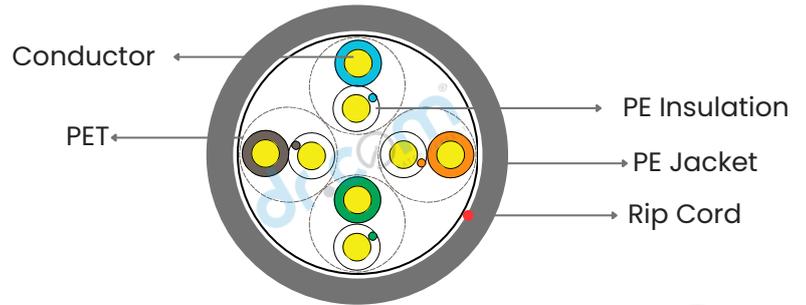


Specification

Model	DR-CAT5E_U/UTP-CU25_PV	
Category	CAT 5E	
Reference Standard	ISO/IEC11801, ANSI/TIA-568.2-D	
Conductor	Material	Solid-Bare Copper (99.95%)
	Diameter	0.450 ± 0.005 mm
Insulation	Material	HDPE
	Diameter	0.82 ± 0.05 mm
Sheath	Thickness	0.50 ± 0.05 mm
	Diameter	4.7 ± 0.4 mm
	Material	PE
	Color	Black
Rip-cord	Yes	
Separator	Yes	
Electrical Characteristics (20°C)	1.0-500.0 MHz impedance	100 ± 15 Ω
	1.0-500.0 MHz delay skew	≤ 45 ns/100 m
	DC resistance	≤ 11.7 Ω/100 m
	DC conductor resistance unbalance	≤ 5.0%
	Ambient temperature	-20°C to 75°C (-4°F to 167°F)
	Operating voltage	≤ 60 V
	Physical Properties	Cable length
Package dimension		381 mm (W) × 381 mm (H) × 241 mm (D)
Weight		8.4 kg Approx
Packing		Coil

CAT5E UTP 24 AWG

PE OUTDOOR CABLE



Specification

Model	DR-CAT5E_U/UTP-CU24_PE	
Category	CAT 5E	
Reference Standard	ISO/IEC11801, ANSI/TIA-568.2-D	
Conductor	Material	Solid-Bare Copper (99.95%)
	Diameter	0.50 ± 0.01 mm
Insulation	Material	HDPE
	Diameter	0.88 ± 0.03 mm
Sheath	Thickness	0.55 ± 0.03 mm
	Diameter	5.0 ± 0.3 mm
	Material	PVC
	Color	Gray
Rip-cord	Yes	
Separator	Yes	
Electrical Characteristics (20°C)	1.0-500.0 MHz impedance	100 ± 15 Ω
	1.0-500.0 MHz delay skew	≤ 45 ns/100 m
	DC resistance	≤ 9.38 Ω/100 m
	DC conductor resistance unbalance	≤ 2.0%
	Ambient temperature	-20°C to 75°C (-4°F to 167°F)
	Operating voltage	≤ 60 V
	Physical Properties	Cable length
Package dimension		381 mm (W) × 381 mm (H) × 241 mm (D)
Weight		8.2 kg Approx
Packing		Coil

Technical Performance (100m)

FREQ (MHz)	ATT (20 °C) ≤ (dB)	NEXT ≥(dB)	RL ≥(dB)	PS NEXT ≥(dB)	EL FEXT ≥(dB)	PS EL FEXT ≥(dB)	Phase delay ≤(ns)
1	2.0	65.3	20.0	62.3	63.8	60.8	570
4	4.0	56.3	23.0	53.3	52.0	49.0	552
8	5.8	51.8	24.5	48.8	45.9	42.9	547
10	6.5	50.3	25.0	47.3	44.0	41.0	545
16	8.2	47.2	25.0	44.2	39.9	36.9	543
20	9.3	45.8	25.0	42.8	38.0	35.0	542
25	10.4	44.3	24.3	41.3	36.0	33.0	541
31.25	11.7	42.9	23.6	39.9	34.1	31.1	540
62.5	17.0	38.4	21.5	35.4	28.1	25.1	539
100	22.0	35.3	20.1	32.3	24.0	21.0	538

Cable complies to Fluke 90-meter permanent link Alien cross talk as per ANSI/TIA 568.2-D Standard

Manufacturing Units

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