

## CAT6A UTP 23 AWG COPPER CABLES

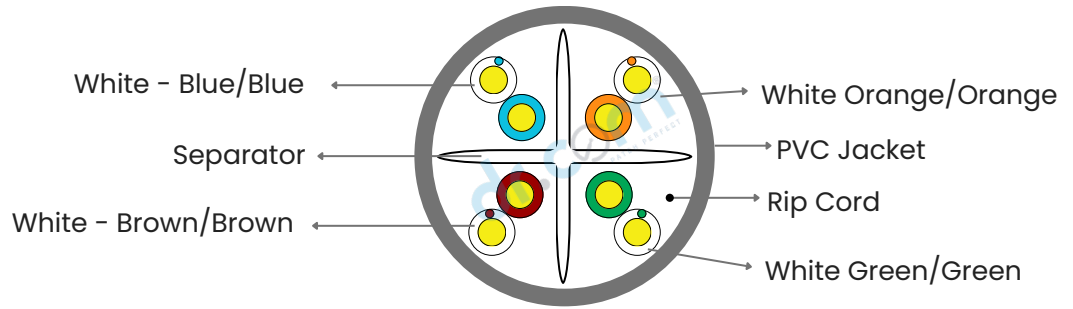
### Key Features

- **Standards Compliant:** Provides stable electrical performance and meets ANSI/TIA-568.2-D, IEC 61156, and ISO/IEC 11801 standards.
- **Durable Sheath:** Features a robust outer sheath with high tensile and compressive strength to reduce damage during installation and project execution.
- **High-Temperature Tested:** Delivers reliable performance in the Fluke 90-meter permanent link test while operating continuously at temperatures up to 50°C.
- **PoE Tested:** Ensures excellent performance in the Fluke 100-meter channel test under continuous 57 V / 1 A DC power load (PoE).
- **Pure Copper Conductor:** Uses solid bare copper conductors with lower resistance for improved electrical properties and superior transmission performance.



\*Images are for representation purpose only.

# CAT6A UTP 23 AWG PVC CABLE

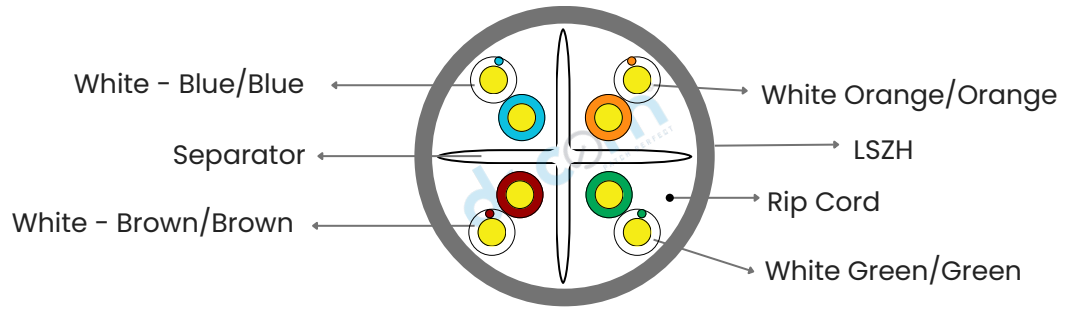


## Specification

Model   Part No	DR-CAT6A_U/UTP-CU23_PV		
Category	CAT 6A		
Reference Standard	ANSI/TIA 568-C.2 Cat 6A, ISO/IEC 11801 EA		
Conductor	Material	Solid-Bare Copper (99.95%)	
	Diameter	23AWG	
Insulation	Material	HDPE	
	Diameter	1.00 ± 0.05 mm	
Sheath	Thickness	0.55 ± 0.05 mm	
	Diameter	6.6 ± 0.50 mm	
	Material	PVC	
	Color	Grey (* Custom Colors Available)	
Rip-cord	Yes		
Separator	Yes		
Electrical Characteristics (20°C)	1.0-500.0 MHz impedance	100 ± 15 Ω @ ≤ 250 MHz, 100 ± 22Ω @ ≥ 250 MHz	
	1.0-500.0 MHz delay skew	≤ 45 ns/100 m	
	DC resistance	≤ 7.22 Ω/100 m	
	DC conductor resistance unbalance	≤ 4.0%	
	Ambient temperature	-20°C to 75°C (-4°F to 167°F)	
	Operating voltage	72 V	
Physical Properties	Cable length	305 ± 0.5 m	100 ± 0.5 m
	Package dimension	381 mm (W) × 381 mm (H) × 241 mm (D)	260 mm (W) × 260 mm (H) × 108 mm (D)
	Weight	13.5 kg Approx	4.4 kg Approx
	Packing	Coil	Coil
* Custom Lengths Available.			

# CAT6A UTP 23 AWG

## LSZH CABLE

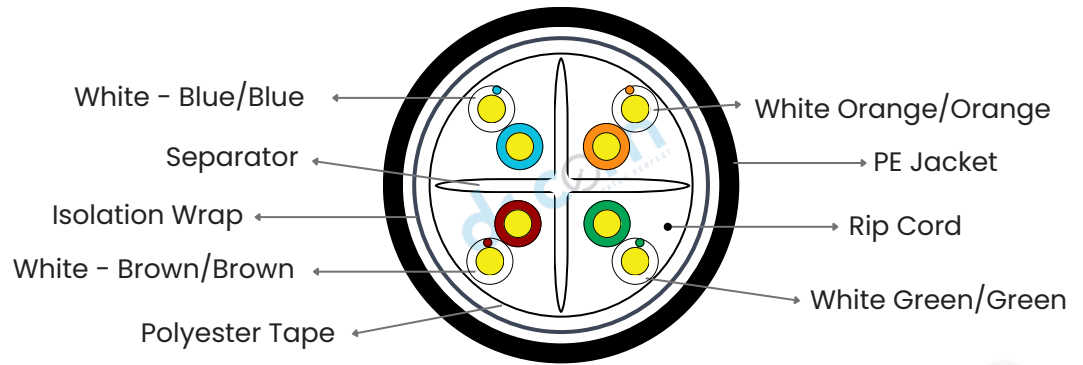


## Specification

Model   Part No	DR-CAT6A_U/UTP-CU23_LS	
Category	CAT 6A	
Reference Standard	ANSI/TIA 568-C.2 Cat 6A, ISO/IEC 11801 EA	
Conductor	Material	Solid-Bare Copper (99.95%)
	Diameter	23AWG
Insulation	Material	HDPE
	Diameter	1.00 ± 0.05 mm
Sheath	Thickness	0.55 ± 0.05 mm
	Diameter	6.6 ± 0.50 mm
	Material	LSZH
	Color	Custom Colors Available
Rip-cord	Yes	
Separator	Yes	
Electrical Characteristics (20°C)	1.0-500.0 MHz impedance	100 ± 15 Ω @ ≤ 250 MHz, 100 ± 22Ω @ ≥ 250 MHz
	1.0-500.0 MHz delay skew	≤ 45 ns/100 m
	DC resistance	≤ 7.22 Ω/100 m
	DC conductor resistance unbalance	≤ 4.0%
	Ambient temperature	-20°C to 75°C (-4°F to 167°F)
	Operating voltage	72 V
	Physical Properties	Cable length
Package dimension		381 mm (W) × 381 mm (H) × 241 mm (D)
Weight		12.5 kg Approx
Packing		Spool

\* Custom Lengths Available.

# CAT6A UTP 23 AWG PE OUTDOOR CABLE

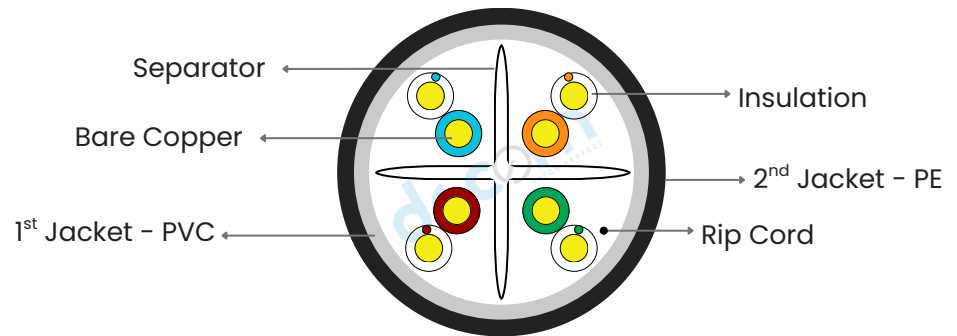


## Specification

Model   Part No	DR-CAT6A_U/UTP-CU23_PE		
Category	CAT 6A		
Reference Standard	ANSI/TIA 568-C.2 Cat 6A, ISO/IEC 11801 EA		
Conductor	Material	Solid-Bare Copper (99.95%)	
	Diameter	23AWG	
Insulation	Material	HDPE	
	Diameter	1.00 ± 0.05 mm	
Sheath	Thickness	0.55 ± 0.05 mm	
	Diameter	6.6 ± 0.50 mm	
	Material	PE	
	Color	Black (* Custom Colors Available)	
Rip-cord	Yes		
Separator	Yes		
Electrical Characteristics (20°C)	1.0-500.0 MHz impedance	100 ± 15 Ω @ ≤ 250 MHz, 100 ± 22 Ω @ ≥ 250 MHz	
	1.0-500.0 MHz delay skew	≤ 45 ns/100 m	
	DC resistance	≤ 7.22 Ω/100 m	
	DC conductor resistance unbalance	≤ 4.0%	
	Ambient temperature	-20°C to 75°C (-4°F to 167°F)	
	Operating voltage	72 V	
Physical Properties	Cable length	305 ± 0.5 m	100 ± 0.5 m
	Package dimension	381 mm (W) × 381 mm (H) × 241 mm (D)	260 mm (W) × 260 mm (H) × 108 mm (D)
	Weight	12 kg Approx	3.9 kg Approx
	Packing	Coil	Coil
* Custom Lengths Available.			

# CAT6A UTP 23 AWG

## DOUBLE JACKETED CABLE



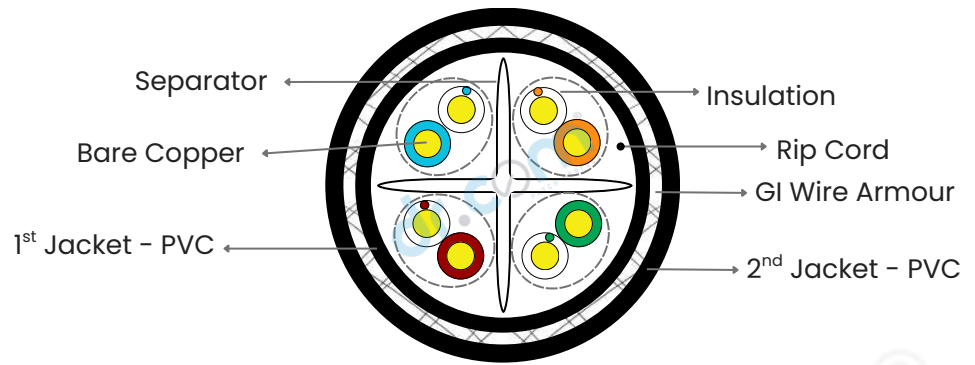
## Specification

Model   Part No	DR-CAT6A_U/UTP-DC-CU23_PE	
Category	CAT 6A	
Reference Standard	ANSI/TIA 568-C.2 Cat 6A, ISO/IEC 11801 EA	
Conductor	Material	Solid-Bare Copper (99.95%)
	Diameter	23AWG
Insulation	Material	HDPE
	Diameter	1.00 ± 0.05 mm
Sheath	Thickness	0.55 ± 0.05 mm
	Diameter	8 ± 0.50 mm
	Material	1 <sup>st</sup> Jacket - PVC 2 <sup>nd</sup> Jacket - PE
	Color	Black (* Custom Colors Available)
Rip-cord	Yes	
Separator	Yes	
Electrical Characteristics (20°C)	1.0-500.0 MHz impedance	100 ± 15 Ω @ ≤ 250 MHz, 100 ± 22Ω @ ≥ 250 MHz
	1.0-500.0 MHz delay skew	≤ 45 ns/100 m
	DC resistance	≤ 7.22 Ω/100 m
	DC conductor resistance unbalance	Max 5%
	Ambient temperature	-20°C to 75°C (-4°F to 167°F)
	Operating voltage	72 V
	Physical Properties	Cable length
Package dimension		381 mm (W) × 381 mm (H) × 241 mm (D)
Weight		17 kg Approx
Packing		Spool

\* Custom Lengths Available.

# CAT6A UTP 23 AWG

## ARMoured CABLE



## Specification

Model   Part No	DR-CAT6A_U/UTP-ARM-CU23_PV	
Category	CAT 6A	
Reference Standard	ANSI/TIA 568-C.2 Cat 6A, ISO/IEC 11801 EA	
Conductor	Material	Solid-Bare Copper (99.95%)
	Diameter	23AWG
Insulation	Material	HDPE
	Diameter	1.00 ± 0.05 mm
Sheath	Thickness	0.55 ± 0.05 mm
	Diameter	10.5 ± 0.50 mm
	Material	1 <sup>st</sup> Jacket - PVC 2 <sup>nd</sup> Jacket - PVC
	Color	Black (* Custom Colors Available)
Rip-cord	Yes	
Separator	Yes	
Electrical Characteristics (20°C)	1.0-500.0 MHz impedance	100 ± 15 Ω @ ≤ 250 MHz, 100 ± 22Ω @ ≥ 250 MHz
	1.0-500.0 MHz delay skew	≤ 45 ns/100 m
	DC resistance	≤ 7.22 Ω/100 m
	DC conductor resistance unbalance	Max. 5%
	Ambient temperature	-20°C to 75°C (-4°F to 167°F)
	Operating voltage	72 V
Physical Properties	Cable length	305 ± 0.5 m
	Package dimension	381 mm (W) × 381 mm (H) × 241 mm (D)
	Weight	48 kg Approx
	Packing	Spool

\* Custom Lengths Available.

## Technical Performance (Fluke 90-meter permanent link)

FREQ (MHz)	ATT (20 °C) ≤ (dB)	RL ≥(dB)	NEXT ≥(dB)	PS NEXT ≥(dB)	EL FEXT ≥(dB)	PS EL FEXT ≥(dB)	Phase delay ≤(ns)
1	2.10	20.0	74.3	72.3	67.8	64.8	570
4	3.78	23.0	65.3	63.3	55.8	52.8	552
8	5.32	24.5	60.8	58.8	49.7	46.7	547
10	5.95	25.0	59.3	57.3	47.8	44.8	545
16	7.55	25.0	56.2	54.2	43.7	40.7	543
20	8.47	25.0	54.8	52.8	41.8	38.8	542
25	9.40	24.3	53.3	51.3	39.8	36.8	541
31.25	10.50	23.6	51.9	49.9	37.9	34.9	540
62.5	15.00	21.5	47.4	45.4	31.9	28.9	539
100	19.80	20.1	44.3	42.3	27.8	24.8	538
200	28.98	18.0	39.8	37.8	21.8	18.8	537
250	32.85	17.3	38.3	36.3	19.8	16.8	536
350	34.3	16.8	37.1	35.1	18.3	15.3	536
450	40.1	15.9	35.3	33.3	15.8	12.8	536
500	45.3	15.2	33.8	31.8	13.8	10.8	536

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

### Manufacturing Units

Plot No. 67 & 70, Damanganga Industrial Park-II, New Survey  
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