

CAT6 UTP 23 AWG COPPER CABLES

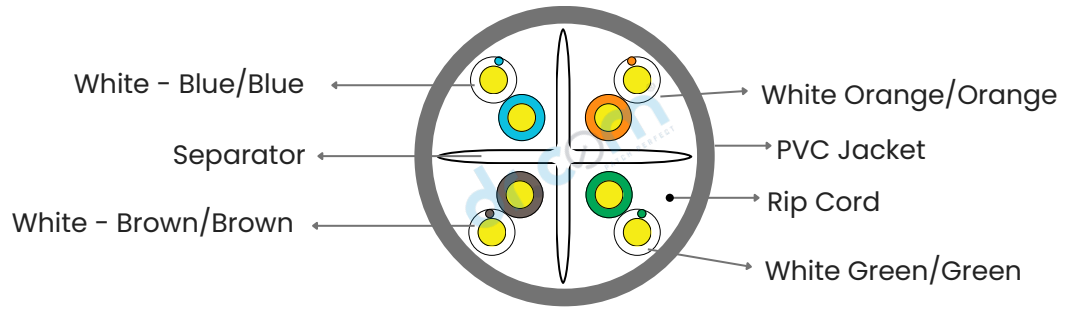
Key Features

- **Standards Compliant:** Provides stable electrical performance and complies with ANSI/TIA-568.2-D, IEC 61156, and ISO/IEC 11801 standards.
- **High-Strength Sheath:** Built with strong mechanical properties and high tensile and compressive strength to reduce 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 50°C.
- **Fluke 100 m PoE Tested:** Proven reliable 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 superior electrical characteristics and transmission performance.



CAT6 UTP 23 AWG

PVC CABLE

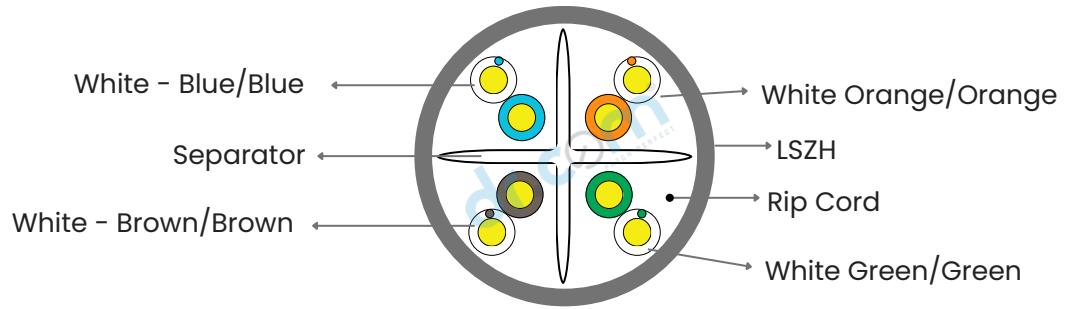


Specification

Model Part No	DR-CAT6_U/UTP-CU23_PV		
Category	CAT 6		
Reference Standard	ISO/IEC11801, ANSI/TIA-568.2-D		
Conductor	Material	Solid-Bare Copper (99.95%)	
	Size	23AWG	
Insulation	Material	HDPE	
	Diameter	1.02 ± 0.05 mm	
Sheath	Thickness	0.55 ± 0.05 mm	
	Diameter	6.20 ± 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	
	1.0-500.0 MHz delay skew	≤ 45 ns/100 m	
	DC resistance	≤ 7.75 Ω/100 m	
	DC conductor resistance unbalance	≤ 4.0%	
	Operating Storage temperature	-20°C to 75°C (-4°F to 167°F)	
	Operating voltage	57 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 kg Approx	4.6 kg Approx
	Packing	Coil	Coil
		* Custom Lengths Available.	

CAT6 UTP 23 AWG

LSZH CABLE



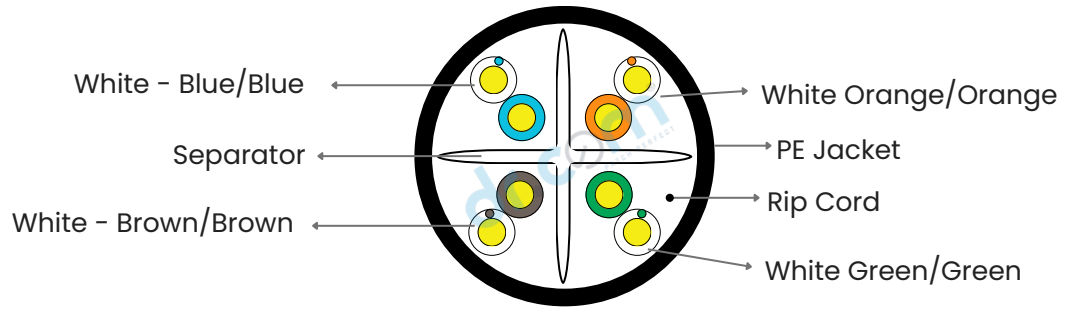
Specification

Model Part No	DR-CAT6_U/UTP-CU23_LS	
Category	CAT 6	
Reference Standard	ISO/IEC11801, ANSI/TIA-568.2-D	
Conductor	Material	Solid-Bare Copper (99.95%)
	Size	23AWG
Insulation	Material	HDPE
	Diameter	1.02 ± 0.05 mm
Sheath	Thickness	0.55 ± 0.05 mm
	Diameter	6.20 ± 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
	1.0-500.0 MHz delay skew	≤ 45 ns/100 m
	DC resistance	≤ 7.75 Ω/100 m
	DC conductor resistance unbalance	≤ 4.0%
	Operating Storage temperature	-20°C to 75°C (-4°F to 167°F)
	Operating voltage	57 V
	Physical Properties	Cable length
Package dimension		381 mm (W) × 381 mm (H) × 241 mm (D)
Weight		12 kg Approx
Packing		Spool

* Custom Lengths Available.

CAT6 UTP 23 AWG

PE OUTDOOR CABLE

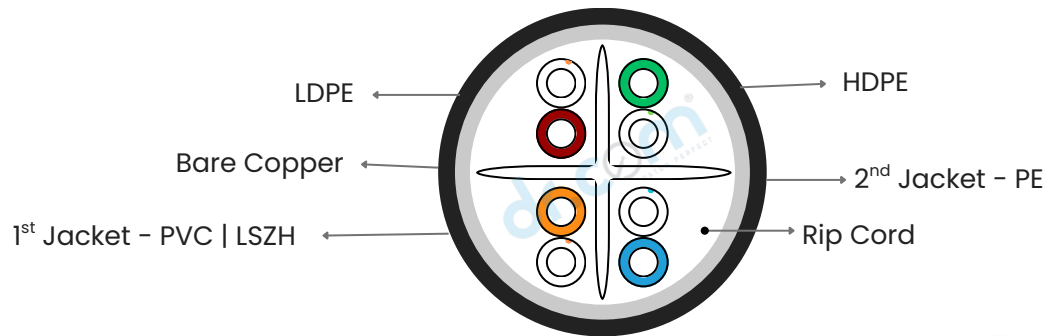


Specification

Model Part No	DR-CAT6_U/UTP-CU23_PE		
Category	CAT 6		
Reference Standard	ISO/IEC11801, ANSI/TIA-568.2-D		
Conductor	Material	Solid-Bare Copper (99.95%)	
	Size	23AWG	
Insulation	Material	HDPE	
	Diameter	1.02 ± 0.05 mm	
Sheath	Thickness	0.55 ± 0.05 mm	
	Diameter	6.20 ± 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	
	1.0-500.0 MHz delay skew	≤ 45 ns/100 m	
	DC resistance	≤ 7.75 Ω/100 m	
	DC conductor resistance unbalance	≤ 4.0%	
	Operating Storage temperature	-20°C to 75°C (-4°F to 167°F)	
	Operating voltage	57 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	11.5 kg Approx	3.7 kg Approx
	Packing	Coil	Coil
		* Custom Lengths Available.	

CAT6 UTP 23 AWG

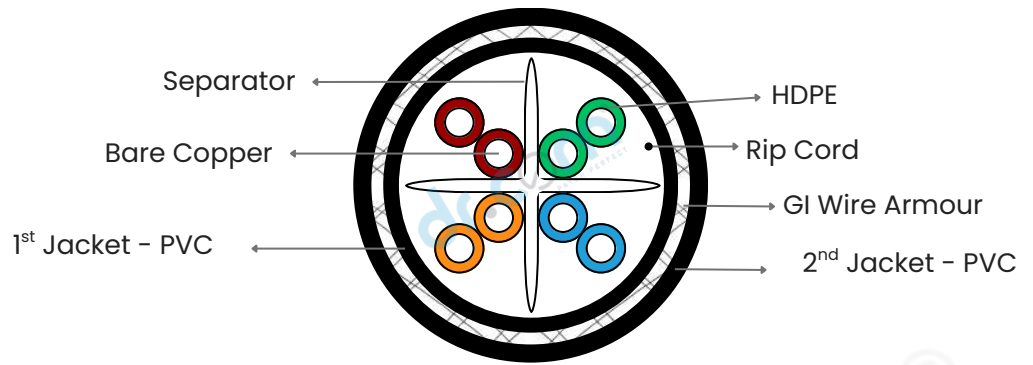
DOUBLE JACKETED CABLE



Specification

Model Part No	DR-CAT6_U/UTP-DJ-CU23_PE	
Category	CAT 6	
Reference Standard	ISO/IEC11801, ANSI/TIA-568.2-D	
Conductor	Material	Solid-Bare Copper (99.95%)
	Size	23AWG
Insulation	Material	HDPE
	Diameter	1.02 ± 0.05 mm
Sheath	Thickness	0.55 ± 0.05 mm
	Diameter	7.5 ± 0.50 mm
	Material	1 st Jacket - PVC LSZH 2 nd 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
	1.0-500.0 MHz delay skew	≤ 45 ns/100 m
	DC resistance	≤ 7.75 Ω/100 m
	DC conductor resistance unbalance	≤ 4.0%
	Operating Storage temperature	-20°C to 75°C (-4°F to 167°F)
	Operating voltage	57 V
Physical Properties	Cable length	305 ± 0.5 m
	Package dimension	381 mm (W) × 381 mm (H) × 241 mm (D)
	Weight	16.5 kg Approx
	Packing	Spool
* Custom Lengths Available.		

CAT6 UTP 23 AWG ARMoured CABLE



Specification

Model Part No	DR-CAT6_U/UTP-ARM-CU23_PV	
Category	CAT 6	
Reference Standard	ISO/IEC11801, ANSI/TIA-568.2-D	
Conductor	Material	Solid-Bare Copper (99.95%)
	Size	23AWG
Insulation	Material	HDPE
	Diameter	1.02 ± 0.05 mm
Sheath	Thickness	0.55 ± 0.05 mm
	Diameter	10 ± 0.50 mm
	Material	1 st Jacket - PVC 2 nd 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
	1.0-500.0 MHz delay skew	≤ 45 ns/100 m
	DC resistance	≤ 7.75 Ω/100 m
	DC conductor resistance unbalance	Max. 5%
	Operating Storage temperature	-20°C to 75°C (-4°F to 167°F)
	Operating voltage	57 V
Physical Properties	Cable length	305 ± 0.5 m
	Package dimension	381 mm (W) × 381 mm (H) × 241 mm (D)
	Weight	45 kg Approx
	Packing	Spool

* Custom Lengths Available.

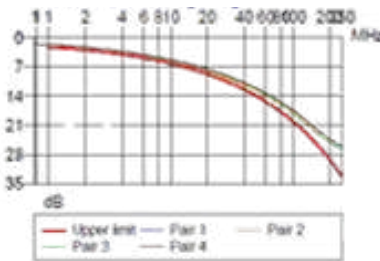
Requirements & Test Results

Capacitance

C [nF/100m]	
Upper limit	5.60
Lower limit	4.00
1-2	4.98
2-3	4.55
3-4	4.89
4-1	4.81

E [pF/100m]	
Upper limit	330
Lower limit	-330
1-2	0
2-3	170
3-4	225
4-1	3

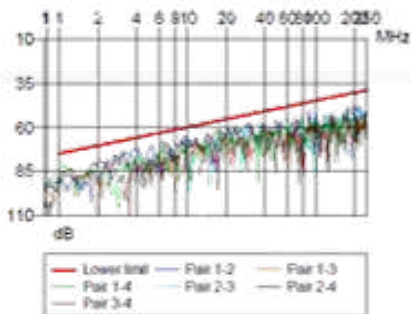
Attenuation [dB]



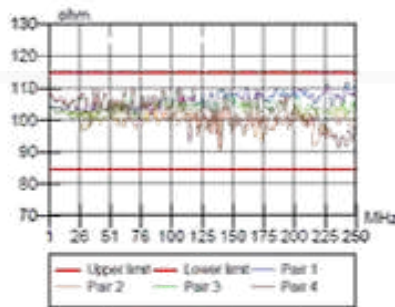
Attenuation Worst Case [dB]

Pair	Worst case	Value	Freq.
1	0.39	1.63	1.00
2	0.36	1.66	1.00
3	0.29	2.24	1.68
4	0.35	1.68	1.00

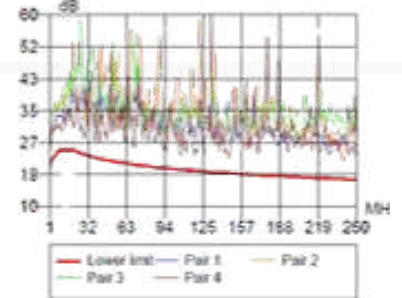
NEAR END XT [dB]



Impedance



RL [dB]



NEAR Worst Case [dB]

Pair	Worst case	Value	Freq.
1-2	5.09	64.79	9.40
1-3	6.79	63.10	15.82
1-4	5.88	61.72	17.01
2-3	6.33	60.76	21.12
2-4	5.86	60.38	20.82
3-4	7.31	69.18	6.75

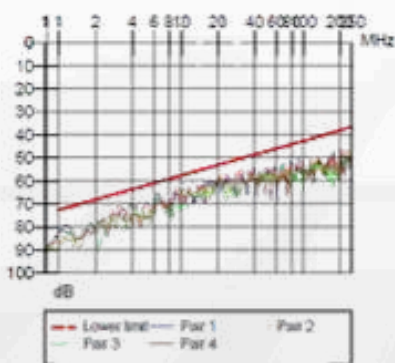
Impedance Statistics

Pair	Minimum	Freq. of min	Maximum	Freq. of max
1	100.01	40.65	111.57	242.52
2	90.36	139.09	109.02	107.94
3	99.32	37.53	107.47	203.27
4	90.73	140.34	111.26	0.77

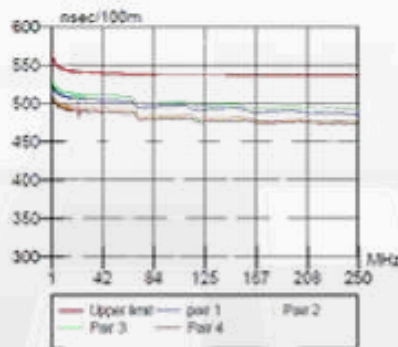
RL Worst Case [dB]

Pair	Worst case	Value	Freq.
1	5.97	23.37	243.15
2	4.62	22.08	238.78
3	7.87	30.76	40.03
4	3.58	23.45	107.94

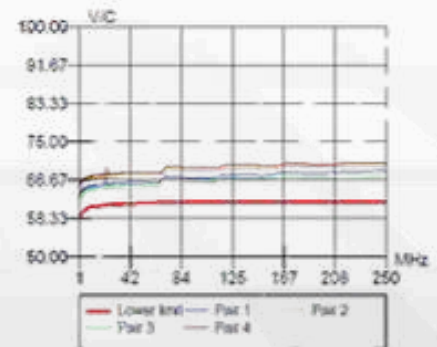
NEXT POWERSUM [dB]



Phase Delay [nsec]



Propagation Speed



NEXT POWERSUM Statistics

Pair	Worst case	Value	Freq.
1	5.46	65.70	6.37
2	4.76	57.09	21.43
3	7.04	59.47	21.12
4	6.24	54.62	39.32

Phase Delay Statistics

Pair	Worst case	Value	Freq.
1	34.83	503.76	61.54
2	47.03	491.52	62.44
3	29.74	508.84	61.54
4	50.80	487.92	58.09

Propagation Speed Statistics

Pair	Worst case	Value	Freq.
1	4.24	66.24	66.16
2	5.79	64.29	1.00
3	3.58	65.57	65.21
4	6.32	64.82	1.00

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	2.03	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	9.51	24.3	53.3	51.3	39.8	36.8	541
31.25	10.67	23.6	51.9	49.9	37.9	34.9	540
62.5	15.38	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

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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