

Cat6E UTP LAN Cable - 23 AWG

04 Pair U/UTP Category 6 PVC Sheath Networking Cable

Model: VL23UE-AWG

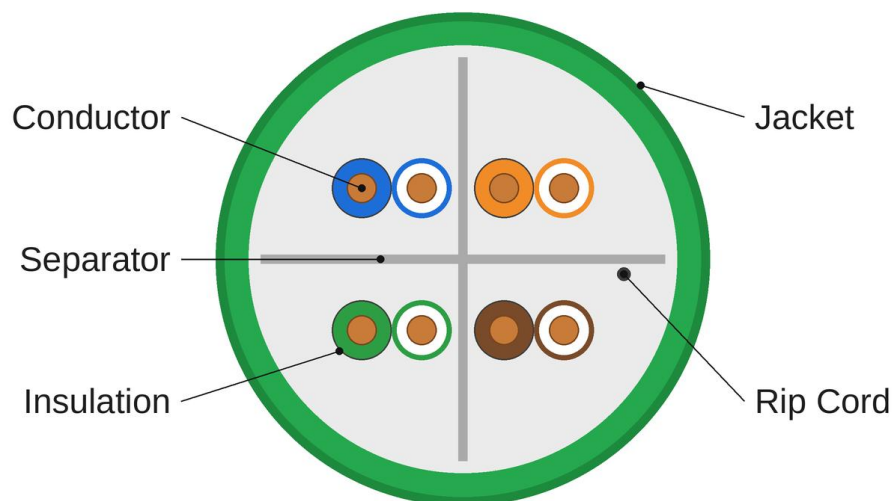


Features:

- Cat6e U/UTP, 4 pair, 23 AWG solid bare copper
- Bandwidth up to 250 MHz, 1000BASE-T ready
- PoE compatible for IP cameras and access points
- HDPE insulation for stable electrical performance
- Cross separator reduces pair-to-pair crosstalk
- Nylon rip cord for easy jacket stripping
- Green PVC sheath for easy cable identification
- Designed to meet ANSI/TIA-568-C.2 and ISO/IEC 11801 Class E
- 305 m (1000 ft) pull box packing
- RJ45 (8P8C) termination

U/UTP	Solid Cu	Ready	8P8C	Pull Box	Temp.
CAT6	23 AWG	PoE	RJ45	305m	-20/60C

Design:



Specification:

General	
Category	Cat6E (Category 6), U/UTP unshielded, 4 pair (8 conductors)
Reference Standard	ANSI/TIA-568-C.2, ISO/IEC 11801 Class E, IEC 61156
Sheath Printing	VIDEOLINE CAT 6E
Conductor	
Material	Solid bare copper
Diameter	0.573 ± 0.005 mm (23 AWG)
Quantity	8
Insulation	
Material	High-density polyethylene (HDPE)
Diameter	0.98 ± 0.05 mm
Quantity	8
Sheath	
Material	PVC
Color	Green
Thickness	0.50 ± 0.10 mm
Outer Diameter	6.0 ± 0.3 mm
Cable Structure	
Separator	Yes (cross separator)
Rip Cord	Yes (nylon)
Sheath Physical Properties	
Before Aging	Tensile strength ≥ 13.5 MPa; Elongation ≥ 150%
Aging Condition	100°C × 24 h × 7 d
After Aging	Tensile strength ≥ 12.5 MPa; Elongation ≥ 125%
Cold Bend	-20 ± 2°C × 4 h, 8 × cable O.D., no visible cracks
Electrical Characteristics (20°C)	
Characteristic Impedance (1-250 MHz)	100 ± 15 Ω
Delay Skew (1-250 MHz)	≤ 45 ns / 100 m
DC Resistance	≤ 9.38 Ω / 100 m
DC Resistance Unbalance	≤ 5.0%
Max. Mutual Capacitance	5.6 nF / 100 m
Min. Insulation Resistance	5000 MΩ·km
Environmental & Packing	
Operating Temperature	-20°C to +60°C
Cable Length	305 ± 1.5 m (1000 ft)
Packing	Pull box, 1 reel per box

Insulation Color Code:

Pair		Insulation Color		Insulation Color (striped)
Pair 1		Blue		White-Blue
Pair 2		Orange		White-Orange
Pair 3		Green		White-Green
Pair 4		Brown		White-Brown

Main Transmission Characteristics (100 m, 20°C):

Frequency (MHz)	ATT (20°C) ≤ dB	RL ≥ dB	NEXT ≥ dB	PS NEXT ≥ dB	EL FEXT ≥ dB	PS EL FEXT ≥ dB	Phase delay ≤ ns
1	2.0	20.0	74.3	72.3	67.8	64.8	570
4	3.8	23.0	66.3	63.3	56.0	53.0	552
8	5.3	24.5	61.8	58.8	49.9	46.9	547
10	6.0	25.0	60.3	57.3	48.0	45.0	545
16	7.6	25.0	57.2	54.2	43.9	40.9	543
20	8.5	25.0	55.8	52.8	42.0	39.0	542
25	9.5	24.3	54.3	51.3	40.0	37.0	541
31.25	10.7	23.6	52.9	49.9	38.1	35.1	540
62.5	15.4	21.5	48.4	45.4	32.1	29.1	539
100	19.8	20.1	45.3	42.3	28.0	25.0	538
200	29.0	18.0	40.8	37.8	22.0	19.0	537
250	32.8	17.3	39.3	36.3	20.0	17.0	536

Order Information:

Product	Description	Length
Cat6 UTP LAN Cable	Videoline 4-pair U/UTP Cat6, 23 AWG solid bare copper, green PVC sheath	305 m (1000 ft) pull box

Note: Design & Specification are subject to change without notice

VIDEOLINEUSA Security Systems, Inc.

Head Office : 601, Woolim e-BizII,
184-1 Guru Dong, Guru-gu,
Seoul 152-050, Korea
Tel # : +82-2-8913231
Fax # : +82-2-856-8732
Email : info@videolineusa.com