

DESCRIPTION

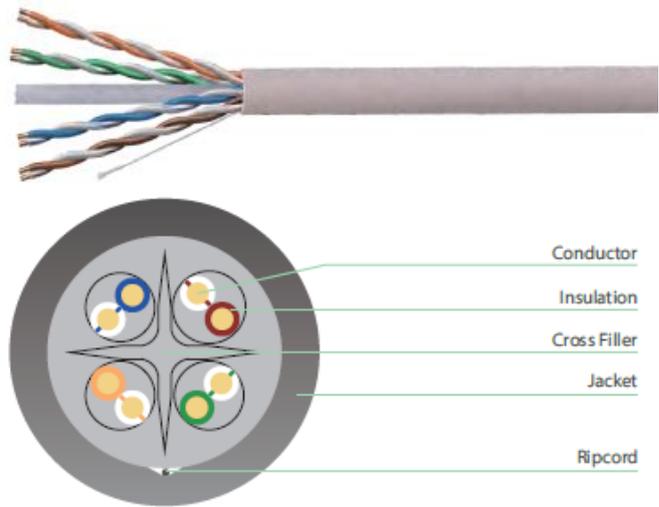
VIVANCO Category 6 U/UTP cables are manufactured and tested to the TIA/EIA 568.2-D, EN50173-1 and ISO/ IEC 11801 Category 6 specifications. Each cable consists of 8 color coded 23AWG polyethylene insulated conductors. These are twisted together to form 4 pairs with varying lay lengths. These pairs are then formed around a central 'X' shaped polyethylene filler. This filler assists in maintaining and enhancing the cables performance.

FEATURES & BENEFITS

- Cross filler/Spline inside to offer better crosstalk and impedance performance
- Frequency 1-250MHz, extend to 550Mhz
- Available in a variety of LSZH flame retardant cables
- Durable length markings to reduce waste of cable

STANDARD COMPLIANCE

- ISO/IEC 11801
- ANSI/TIA/EIA-568.2-D
- IEC 61156-5
- EN50399
- EN50173-01



Color

- P1:** Blue-White/Blue
- P2:** Orange-White/Orange
- P3:** Green-White/Green
- P4:** Brown-White/Brown

Type			U/UTP CAT6 4x2x23AWG	
Construction			Dimensions	
Conductor	Structure AWG	AWG	23	
	Material	-	Solid Bare Copper	
Insulation	Material	-	HDPE/FEP	
Twist	Direction	-	S	
Fillers	Material	-	PE	
Jacket	Material	-	LSZH/PVC/PE/CM/CMR	CMP
	Diameter	mm	6.3±0.3	5.6±0.3
Installation Temperature Range			0°C ~+60°C	
Operating Temperature Range			- 20°C ~+60°C	



MECHANICAL CHARACTERISTICS

Conductor elongation		≥15%
Jacket before Aging (LSZH)	Tensile Strength	≥10Mpa
	Elongation	≥125%
Jacket After Aging (LSZH)	Tensile Strength (100°C±2°C,168h)	≥8Mpa
	Elongation (100°C±2°C,168h)	≥100%
Minimum Bend Radius		8x Cable Radius

ELECTRICAL CHARACTERISTICS

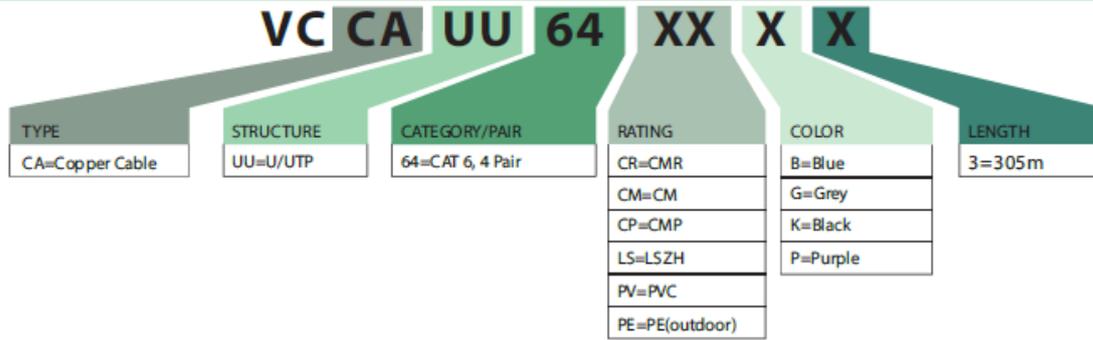
DC Resistance Unbalance (%):	≤2.0%
DC Resistance 20°C	≤93.8 (Ohms/Km)
Insulation Resistance	>5000MQ×Km +20°C DC (100-500) V
Dielectric strength	DC 1000V ,1min No Breaking Down
Mutual Capacitance of a Pair	Max 5.6 nF/100m
NVP	68%

NOMINAL TRANSMISSION CHARACTERISTICS

	IL	RL	DOP	SKEW	NEXT	PS NEXT	ACR-F	PS ACR-F
Freq.	dB	dB	ns	ns/100m	dB	dB	dB	dB
in MHz	Max.	Min.	Max.	Max.	Min.	Min.	Min.	Min.
1	2	20.0	570	45	75	72	67.8	64.8
4	3.8	23.0	552	45	66	63	55.7	52.7
10	6.0	25.0	545	45	60	57	47.8	44.8
16	7.6	25.0	543	45	57	54	43.7	40.7
20	8.5	25.0	542	45	56	53	41.7	38.7
31.25	10.7	23.6	540	45	54	50	37.9	34.9
62.5	15.4	21.5	538	45	48	45	31.8	28.8
100	19.8	20.1	537	45	45.3	42.3	27.8	24.8
200	29.1	18	536	45	37.3	37.7	21.7	18.7
250	33.0	17.3	535	45	36	36	19.8	16.8

Note: The above transmission performance for the 100M, 20 ± 2 °C under the conditions tested

NAME CODING



ORDERING INFORMATION

Part No	Description
VCCA UU64PVB3	CAT 6 U/UTP Unshielded Cable, PVC, Blue, 305m/Box
VCCA UU64CRG3	CAT 6 U/UTP Unshielded Cable, CMR, Grey, 305m/Box
VCCA UU64CMG3	CAT 6 U/UTP Unshielded Cable, CM, Grey, 305m/Box
VCCA UU64PVG3	CAT 6 U/UTP Unshielded Cable, PVC, Grey, 305m/Box
VCCA UU64LSP3	CAT 6 U/UTP Unshielded Cable, LSZH, Purple, 305m/Box

Note: In this specification, we just list our standard length, color and jacket type, but we can customize as well. Cable weight per box: 13.6kg. Approx.