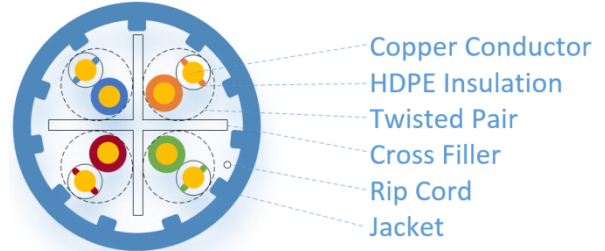


**DESCRIPTION**

VIVANCO CAT 6A U/UTP cables are manufactured and tested to meet the TIA/EIA 568-C.2, IEC/ISO 61156-5 and ISO/IEC 11801 Category 6A 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**

- Features 25 Year System Warranty
- Wooden Drum Packaging
- Zero halogen, no corrosive gases IEC 60754-1(LSZH)
- Flame propagation IEC 60332-1(LSZH)
- Smoke density IEC 61034-1(LSZH)
- Category 6A Compliant
- TIA/EIA 568 - C.2
- IEC/ISO 61156-5
- ISO/IEC 11801
- Operating Frequency 500MHz



**TYPICAL APPLICATION**

- 10GBASE - T Ethernet
- 1000BASE - T Gigabit Ethernet
- 622 Mbps ATM
- 155 Mbps ATM
- POE Applications
- VOIP Applications
- Composite Video
- Token Ring

Type			U/UTP CAT6A 4x2x23AWG
Construction			Dimensions
Conductor	Structure AWG	AWG	23
	Material	-	Solid Bare Copper
	Diameter	mm	0.56±0.008
Insulation	Material	-	HDPE
	Diameter	mm	1.04±0.05
	Average Thickness	mm	0.24±0.05
Twist	Direction	-	S
Fillers	Material	-	PE
Jacket	Material	-	PVC, LSZH, CM, CMR, LDPE
	Diameter	mm	8.5±0.5
	Average Thickness	mm	1.4±0.5
	Marking	-	VIVANCO SYSTEM COPPER CABLE ***** ** U/UTP CAT 6A 4PAIRS 23AWG ANSI/TIA-568-C.2 ***** 001-305M
Installation Temperature Range			0°C ~+50°C
Operating Temperature Range			- 20°C ~+60°C

**MECHANICAL CHARACTERISTICS**

Cable under the minimum tension		≥100N
Conductor elongation		≥15%
Jacket before Aging(LSZH)	Tensile Strength	≥10Mpa
	Elongation	≥125%
Jacket After Aging(LSZH)	Tensile Strength	≥8Mpa
	Elongation	≥100%
Minimum Bend Radius		8x overall diameter

**ELECTRICAL CHARACTERISTICS**

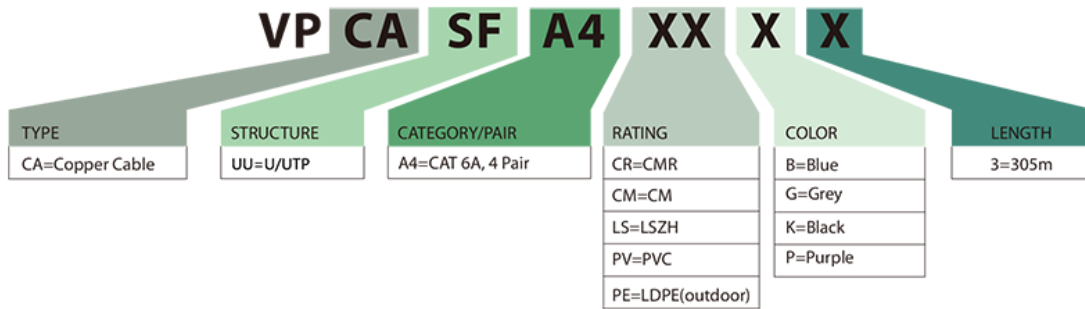
DC Resistance Unbalance (%)	Max 2.5
DC Resistance 20°C	≤93.8 (Ohms/Km)
Insulation Resistance	>5000MΩ×Km
Dielectric strength	DC 2500V 2S
Mutual Capacitance of a Pair	Max 5.6 nF/100m
Pair-to-Ground Capacitance Unbalance	330(pF/100m)
Operating Voltage	Max 48V
NVP	66%

**NOMINAL TRANSMISSION CHARACTERISTICS**

	Impedance	IL	RL	DOPr	SKEW	NEXT	PS NEXT	ACR-F	PS ACR-F
Freq.	in dB/100 m	dB	dB	ns/100m	ns/100m	dB	dB	dB	dB
in MHz		Max.	Min.	Max.	Max.	Min.	Min.	Min.	Min.
1	100±15	2.1	20	570	45	74.3	72.3	67.8	64.8
4	100±15	3.8	23	552	45	65.3	63.3	55.8	52.8
10	100±15	6.0	25	545	45	59.3	57.3	47.8	44.8
16	100±15	7.6	25	543	45	56.2	54.2	43.7	40.7
20	100±15	8.5	25	542	45	54.8	52.8	41.8	38.8
31.25	100±15	10.7	23.6	540	45	51.9	49.9	37.9	34.9
62.5	100±15	15.4	21.5	539	45	47.4	45.4	31.9	28.9
100	100±15	19.8	20.1	538	45	44.3	42.3	27.8	24.8
200	100±22	29	18	537	45	39.8	37.8	21.8	18.8
300	100±32	36.4	17.3	536	45	37.1	35.1	18.3	15.3
400	100±32	43	17.3	536	45	36.3	33.3	15.8	12.8
500	100±32	45.3	17.3	536	45	33.8	31.8	13.8	10.8

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

NAME CODING



ORDERING INFORMATION

Part No	Description	Packaging	Length
VPCAUUA4CRB3	VIVANCO CAT 6A Unshielded U/UTP 23AWG, CMR, Blue	Wooden drum	305M
VPCAUUA4CRG3	VIVANCO CAT 6A Unshielded U/UTP 23AWG, CMR, Grey	Wooden drum	305M
VPCAUUA4CRK3	VIVANCO CAT 6A Unshielded U/UTP 23AWG, CMR, Black	Wooden drum	305M
VPCAUUA4CRP3	VIVANCO CAT 6A Unshielded U/UTP 23AWG, CMR, Purple	Wooden drum	305M
VPCAUUA4CMB3	VIVANCO CAT 6A Unshielded U/UTP 23AWG, CM, Blue	Wooden drum	305M
VPCAUUA4CMG3	VIVANCO CAT 6A Unshielded U/UTP 23AWG, CM, Grey	Wooden drum	305M
VPCAUUA4CMK3	VIVANCO CAT 6A Unshielded U/UTP 23AWG, CM, Black	Wooden drum	305M
VPCAUUA4CMP3	VIVANCO CAT 6A Unshielded U/UTP 23AWG, CM, Purple	Wooden drum	305M
VPCAUUA4LSB3	VIVANCO CAT 6A Unshielded U/UTP 23AWG, LSZH, Blue	Wooden drum	305M
VPCAUUA4LSG3	VIVANCO CAT 6A Unshielded U/UTP 23AWG, LSZH, Grey	Wooden drum	305M
VPCAUUA4LSK3	VIVANCO CAT 6A Unshielded U/UTP 23AWG, LSZH, Black	Wooden drum	305M
VPCAUUA4LSP3	VIVANCO CAT 6A Unshielded U/UTP 23AWG, LSZH, Purple	Wooden drum	305M
VPCAUUA4PVB3	VIVANCO CAT 6A Unshielded U/UTP 23AWG, PVC, Blue	Wooden drum	305M
VPCAUUA4PVG3	VIVANCO CAT 6A Unshielded U/UTP 23AWG, PVC, Grey	Wooden drum	305M
VPCAUUA4PVK3	VIVANCO CAT 6A Unshielded U/UTP 23AWG, PVC, Black	Wooden drum	305M
VPCAUUA4PVP3	VIVANCO CAT 6A Unshielded U/UTP 23AWG, PVC, Purple	Wooden drum	305M
VPCAUUA4PEB3	VIVANCO CAT 6A Unshielded U/UTP 23AWG, LDPE, Blue	Wooden drum	305M
VPCAUUA4PEG3	VIVANCO CAT 6A Unshielded U/UTP 23AWG, LDPE, Grey	Wooden drum	305M
VPCAUUA4PEK3	VIVANCO CAT 6A Unshielded U/UTP 23AWG, LDPE, Black	Wooden drum	305M
VPCAUUA4PEP3	VIVANCO CAT 6A Unshielded U/UTP 23AWG, LDPE, Purple	Wooden drum	305M

Note: In this specification, we just list our standard length, color and jacket type, but we can customize as well.