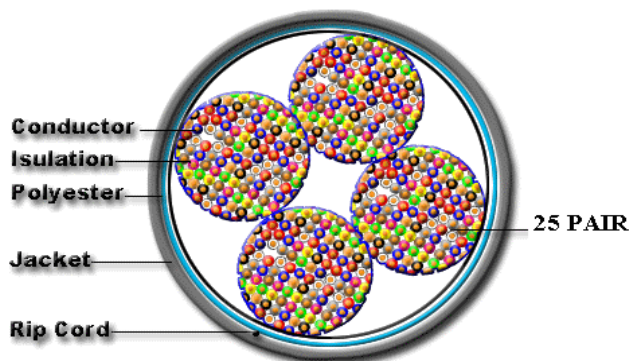


**DESCRIPTION**

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

**FEATURES & BENEFITS**

- Features 25 Year System Warranty
- Wooden drum Packaging
- Category 5 Compliant
- TIA/EIA 568 - C.2
- IEC/ISO 61156-5
- ISO/IEC 11801
- Operating Frequency 100MHz
- Zero halogen, no corrosive gases IEC 60754-1(LSZH)
- Flame propagation IEC 60332-1(LSZH)



**PRODUCT SPECIFICATIONS**

Color Codes of Pairs:

- |                   |                   |                  |
|-------------------|-------------------|------------------|
| 1. White-Blue     | 2. White-Orange   | 3. White-Green   |
| 4. White-Brown    | 5. White-Grey     | 6. Red-Blue      |
| 7. Red-Orange     | 8. Red-Green      | 9. Red-Brown     |
| 10. Red-Grey      | 11. Black-Blue    | 12. Black-Orange |
| 13. Black-Green   | 14. Black-Brown   | 15. Black-Grey   |
| 16. Yellow-Blue   | 17. Yellow-Orange | 18. Yellow-Green |
| 19. Yellow-Brown  | 20. Yellow-Grey   | 21. Violet-Blue  |
| 22. Violet-Orange | 23. Violet-Green  | 24. Violet-Brown |

Type			U/UTP CAT5 X×2×24AWG 25P/50P/100P
Construction			Dimensions
Conductor	Structure AWG	AWG	24
	Material	-	Bare Copper
	Diameter	mm	0.50 ± 0.008
Insulation	Material	-	HDPE
	Diameter	mm	0.89 ± 0.05
	Average Thickness	mm	0.19 ± 0.05
Twist	Direction	-	S
Jacket	Material	-	CMR. CM. LSZH. PVC
	25P Diameter	mm	12.0±0.5
	50P Diameter	mm	16.5±0.5
	100P Diameter	mm	21.0±1.0
	Marking	-	VIVANCO SYSTEM COPPER CABLE ***** ** U/UTP CAT 5 **PAIRS 24AWG 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		4x overall diameter installed,8x during installation

**ELECTRICAL CHARACTERISTICS**

DC Resistance Unbalance (%)	Max 2.0
DC Resistance 20°C	≤95.0 (Ohms/Km)
Insulation Resistance	>5000MΩ · Km
Dielectric strength	DC 2500V 2S
Mutual Capacitance of a Pair	Max 5.6 nF/100m
Operating Voltage	Max 48V
NVP	69%

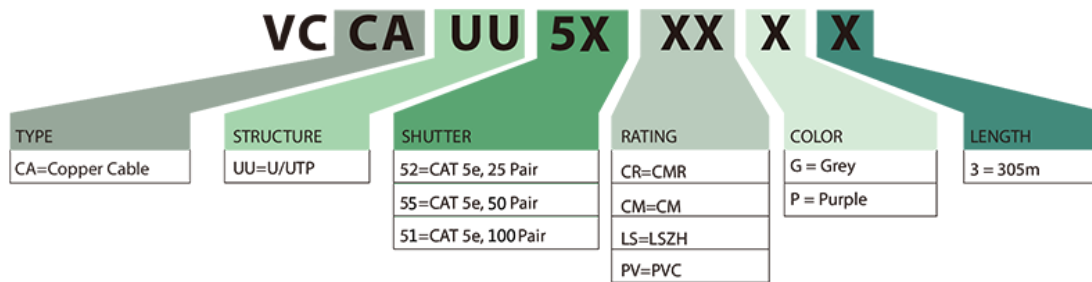
**NOMINAL TRANSMISSION CHARACTERISTICS**

	Impedance	IL	RL	DOP	SKEW	NEXT	PSNEXT	ACR-F	PS ACR-F
Freq.	Ohms	in dB/100m	dB	ns/100m	ns/100m	dB	dB	dB	dB
in MHz		Max.	Min.	Max.	Max.	Min.	Min.	Min.	Min.
1	100±15	2	20	570	45	65.3	62.3	63.8	60.8
4	100±15	4.1	23	552	45	56.3	53.3	51.8	48.8
10	100±15	6.5	25	545.4	45	50.3	47.3	43.8	40.8
16	100±15	8.2	25	543	45	47.2	44.2	39.7	36.7
20	100±15	9.3	25	542.1	45	45.8	42.8	37.8	34.8
31.25	100±15	11.7	23.6	540.4	45	42.9	39.9	33.9	30.9
62.5	100±15	17	21.5	538.6	45	38.4	35.4	27.9	24.9
100	100±15	22	20.1	537.6	45	35.3	32.3	23.8	20.8

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



NAME CODING



ORDERING INFORMATION

Part No	Description	Packaging	Length
VCCAUU52CMG3	VIVANCO CAT 5 Unshielded U/UTP 24AWG 25 Pair Installation Cable, CM, GRAY	Wooden drum	305M
VCCAUU52LSG3	VIVANCO CAT 5 Unshielded U/UTP 24AWG 25 Pair Installation Cable LSZH, PURPLE	Wooden drum	305M
VCCAUU52PVG3	VIVANCO CAT 5 Unshielded U/UTP 24AWG 25 Pair Installation Cable, PVC, GRAY	Wooden drum	305M
VCCAUU52PEG3	VIVANCO CAT 5 Unshielded U/UTP 24AWG 25 Pair Installation Cable, PE, BLACK	Wooden drum	305M
VCCAUU55CMG3	VIVANCO CAT 5 Unshielded U/UTP 24AWG 50 Pair Installation Cable, CM, GRAY	Wooden drum	305M
VCCAUU55LSG3	VIVANCO CAT 5 Unshielded U/UTP 24AWG 50 Pair Installation Cable, LSZH, PURPLE	Wooden drum	305M
VCCAUU55PVG3	VIVANCO CAT 5 Unshielded U/UTP 24AWG 50 Pair Installation Cable, PVC, GRAY	Wooden drum	305M
VCCAUU55PEG3	VIVANCO CAT 5 Unshielded U/UTP 24AWG 50 Pair Installation Cable, PE, BLACK	Wooden drum	305M
VCCAUU51CMG3	VIVANCO CAT 5 Unshielded U/UTP 24AWG 100 Pair Installation Cable, CM, GRAY	Wooden drum	305M
VCCAUU51LSG3	VIVANCO CAT 5 Unshielded U/UTP 24AWG 100 Pair Installation Cable, LSZH, PURPLE	Wooden drum	305M
VCCAUU51PVG3	VIVANCO CAT 5 Unshielded U/UTP 24AWG 100 Pair Installation Cable, PVC, GRAY	Wooden drum	305M
VCCAUU51PEG3	VIVANCO CAT 5 Unshielded U/UTP 24AWG 100 Pair Installation Cable, PE, BLACK	Wooden drum	305M

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