

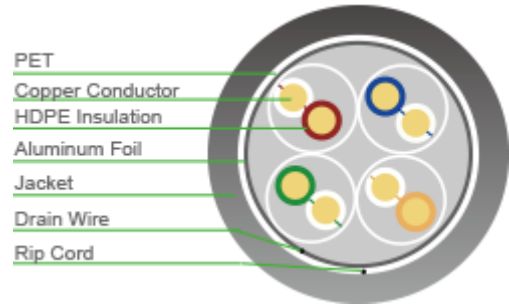
**DESCRIPTION**

VIVANCO Category 5e F/UTP cables are manufactured and tested to the TIA/EIA 568 - C.2, EN50173 - 1 and ISO/ IEC 11801 Category 5e specifications. Each cable consists of 8 color coded 24AWG polyethylene insulated conductors. These are twisted together to form 4 pairs with varying lay lengths.



**FEATURES & BENEFITS**

- Features 25 Year System Warranty
- Fast Feed Reelex Packaging
- Category 5e Compliant • TIA/EIA 568-C.2• EN50173-1 • ISO/IEC 11801
- Foil Tape Screen
- Operating Frequency 100MHz
- Zero halogen, no corrosive gases IEC 60754-1 (LSZH)
- Flame propagation IEC 60332-1 (LSZH)
- Smoke density IEC 61034-1 (LSZH)



**TYPICAL APPLICATIONS**

- 100BASE-TX Fast Ethernet
- 622 Mbps ATM
- 155 Mbps ATM
- Token Ring
- POE Applications
- VOIP Applications
- Composite Video

**Color**

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

<b>Type</b>			F/UTP CAT5e 4x2x24AWG
<b>Construction</b>			Dimensions
<b>Conductor</b>	<b>Structure AWG</b>	<b>AWG</b>	24
	<b>Material</b>	-	Bare Copper
	<b>Diameter</b>	<b>mm</b>	0.51±0.008
<b>Insulation</b>	<b>Material</b>	-	HDPE
	<b>Diameter</b>	<b>mm</b>	1.0±0.05
	<b>Average Thickness</b>	<b>mm</b>	0.245±-0.05
<b>Twist</b>	<b>Direction</b>	-	S
<b>Shielding</b>	<b>Material</b>	-	Foil Tape Shield & Drain Wire
	<b>Overlap Rate</b>	-	20%
<b>Jacket</b>	<b>Material</b>	-	CM. LSZH. PVC.PE
	<b>Diameter</b>	<b>mm</b>	6.1±0.3
	<b>Average Thickness</b>	<b>mm</b>	0.55±0.1
	<b>Marking</b>	-	VIVANCO SYSTEM COPPER CABLE ***** ** F/UTP CAT 5e 4PAIRS 24AWG ANSI/TIA-568-C.2 ***** 001-305M
<b>Installation Temperature Range</b>			0°C ~+50°C
<b>Operating Temperature Range</b>			- 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**

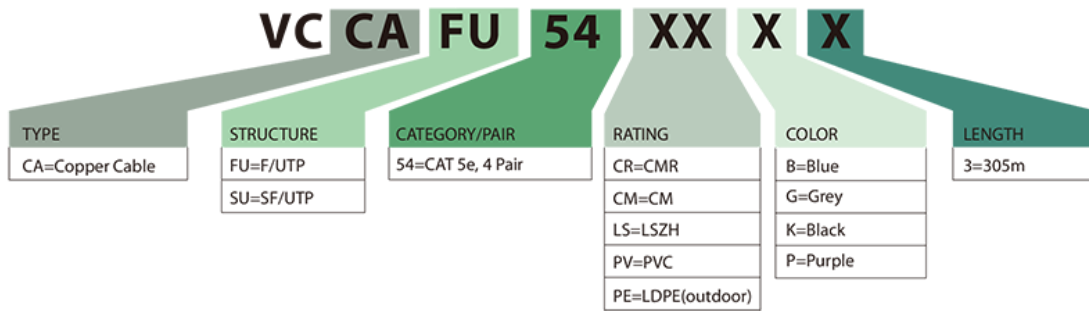
DC Resistance Unbalance (%):	Max 2.5
DC Resistance 20°C	≤95 (Ohms/Km)
Insulation Resistance	>5000MΩ×Km
Dielectric strength	DC 2500V 2S
Mutual Capacitance of a Pair	Max 5.6 nF/100m
Pair-to-Ground Capacitance Unbalance	330 (pF/100m)
Operating Voltage	Max 48V
NVP	67%

**NOMINAL TRANSMISSION CHARACTERISTICS**

	Impedance	IL	RL	DOPr	SKEW	NEXT	PS NEXT	ACR-F	PS ACR-F
Freq.	in dB/100m	dB	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 conditions tested

NAME CODING



ORDERING INFORMATION

Part No	Description	Packaging	Length
VCCAFU54CMB3	VIVANCO CAT 5e Shielded F/UTP 24AWG-CM BLUE	Wooden drum	305M
VCCAFU54LSP3	VIVANCO CAT 5e Shielded F/UTP 24AWG-LSZH PURPLE	Wooden drum	305M
VCCAFU54PVG3	VIVANCO CAT 5e Shielded F/UTP 24AWG-PVC GRAY	Wooden drum	305M
VCCAFU54PEK3	VIVANCO CAT 5e Shielded F/UTP 24AWG-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.