

COMPLIANCE

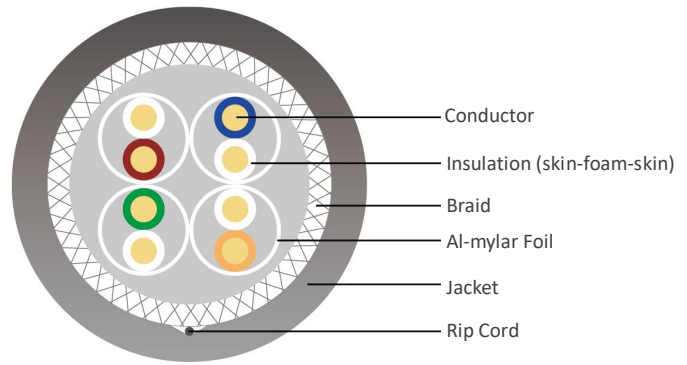
- IEC/ISO 61156-5
- ANSI/TIA568C.2
- ISO/IEC 11801

FEATURES & BENEFITS

- Features 25 Year System Warranty
- Operating Frequency 500MHz
- Each pair of aluminum foil shield and braided shield
- Category 6A Compliant
- TIA/EIA 568 - C.2
- IEC/ISO 61156-5
- ISO/IEC 11801
- Wooden drum Packaging
- Zero halogen, no corrosive gases IEC 60754-1(LSZH)
- Flame propagation IEC 60332-1(LSZH)

TYPICAL APPLICATIONS

- Suitable for structured premises cabling
- For transmission of digital and analogue voice and data signals.
- Especially suitable for all Class EA applications.
- ISDN, Ethernet 10Base-T, Fast Ethernet 100Base-T, Gigabit Ethernet 1000Base-T, 10G Base-T. (IEEE802.3)
- Token Ring4/16Mbit/s, TP-PMD/TP/DDI 125Mbit/s, ATM 155Mbit/s. (IEEE 802.5)



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

Type			S/FTP CAT6A 4x2x23AWG
Construction			Dimensions
Conductor	Structure AWG	AWG	23
	Material	-	Solid Bare Copper
	Diameter	mm	0.56 ± 0.008
Insulation	Material	-	PE(Skin-Foam-Skin)
	Diameter	mm	1.38 ± 0.05
	Average Thickness	mm	0.41 ± 0.05
Twist	Direction	-	S
Shielding	Material	-	Foil Tape Shield & Braid Shield
	Overlap Rate	-	20%
Jacket	Material	-	CM, LSZH, PVC, PE
	Diameter	mm	8.1 ± 0.3
	Average Thickness	mm	0.6 ± 0.1
	Marking	-	VIVANCO SYSTEM COPPER CABLE ***** ** S/FTP 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	78%

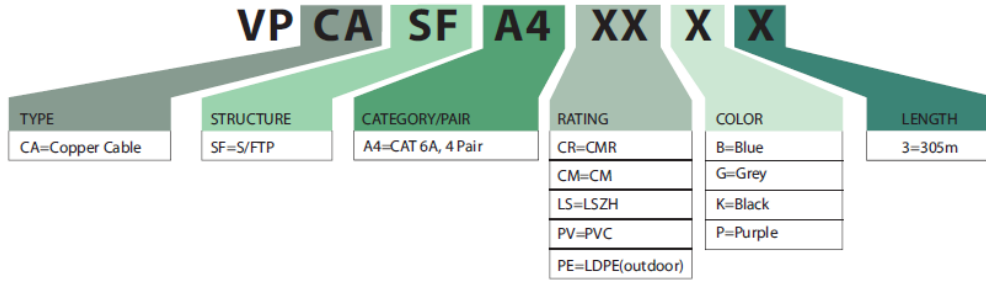
NOMINAL TRANSMISSION CHARACTERISTICS

	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	2.1	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	5.3	25	545	45	59.3	57.3	47.8	44.8
16	100±15	7.5	25	543	45	56.2	54.2	43.7	40.7
20	100±15	8.4	25	542	45	54.8	52.8	41.8	38.8
31.25	100±15	10.5	23.6	540	45	51.9	49.9	37.9	34.9
62.5	100±15	15	21.5	539	45	47.4	45.4	31.9	28.9
100	100±15	19.1	20.1	538	45	44.3	42.3	27.8	24.8
200	100±22	27.6	18	537	45	39.8	37.8	21.8	18.8
300	100±32	34.3	17.3	536	45	37.1	35.1	18.3	15.3
400	100±32	40.1	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
VPCASFA4CMB3	VIVANCO CAT 6A Shielded S/FTP 23AWG CM BLUE	Wooden drum	305M
VPCASFA4LSP3	VIVANCO CAT 6A Shielded S/FTP 23AWG LSZH PURPLE	Wooden drum	305M
VPCASFA4PVG3	VIVANCO CAT 6A Shielded S/FTP 23AWG PVC GRAY	Wooden drum	305M
VPCASFA4PEK3	VIVANCO CAT 6A Shielded S/FTP 23AWG 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.