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VIVANCO

Structured Cabling Solutions



25
YEAR

WARRANTY



COPPER



FIBER

Structured Cabling Solutions

2019-2020 VIVANCO PRODUCT INFORMATION



RoHS



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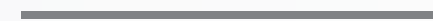


Your Right Connection





VIVANCO



About Vivanco

Established in 1920, Vivanco, a listed company with headquarter in Ahrensburg Germany is a multi-specialist manufacturer in the consumer electronics and connectivity solutions space.

Vivanco is now part of a diversified MNC conglomerate group with an annual group turnover of over 300 million Euro and over 5000 dedicated professionals with expertise in R&D, sales & marketing, product development, QC, administration and manufacturing spread across Europe, Asia and America is now rapidly expanding into the Asian region.

Vivanco is a multi-specialist manufacturer for equipment and structured cabling solutions in Europe, both in terms of breadth and depth of our consumer electronics and connectivity solutions. The concept "Your Right Connection" encompasses Vivanco's focus to drive their business forward while benefitting from new technologies and giving Vivanco a ranking of No. 2 overall for consumer electronics in Germany.

Vivanco offers end-to-end integrated solution in intelligent building industry from server room to desk outlet or campus wide network with the complete range of copper, fiber, smart home, 5G, IoT, data center, racks and cabling solutions. Backed by dedicated and experienced technical and marketing professionals with an average team experience of no less than 10 years.

Vivanco offers comprehensive warranty and product application training to our customers worldwide through various programs.

Vivanco dedicates long-term commitment to support our customers and partners in the regions we operate which is reflected by our individual country policy of hiring dedicated professional, individually customized products, solutions and distribution model along with adapting the best global practices for each country translating to a win-win situation for our customers and partners alike.



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About Vivanco

Environmental Protection & Management

Vivanco in every stage, from the initial design to development stage, uses raw material from manufacturing, production to shipment, and makes the best use of scarce natural resources for our goal.

On the premise to ensure minimum waste, continuous improvement and to explore the best way of for production of finished goods. We seek to continuously improve to reduce burden on environment, waste management and efficient utilization of in each production base to carry out our business.



Efficient Logistics System

Vivanco with professional supply chain and support system, enables order processing, production and manufacturing, material processing and transport, ensures rapid and effective deployments.

Vivanco ensures customer satisfaction, the value of this concept is reflected in the organization, ensures that the sourcing and supply chain management provide optimum support to meet deadlines.

Vivanco understands the various regions and countries for different requirements for the packaging and logistics, and takes proper measures to meet the standards and requirements of each country, which translates into zero defect of logistics network.



Brand Values & Philosophy

Your Right Connection

Vivanco is a multi-specialist manufacturer in the consumer electronics and connectivity solutions. “NO COMPROMISE” is our motto when it comes to providing users with reliable and high-performance products. Vivanco believes in making every connection: "Your Right Connection" in becoming a market leader in integrated wiring and consumer electronics industry.



Innovation,
Research & Development & Quality Assurance

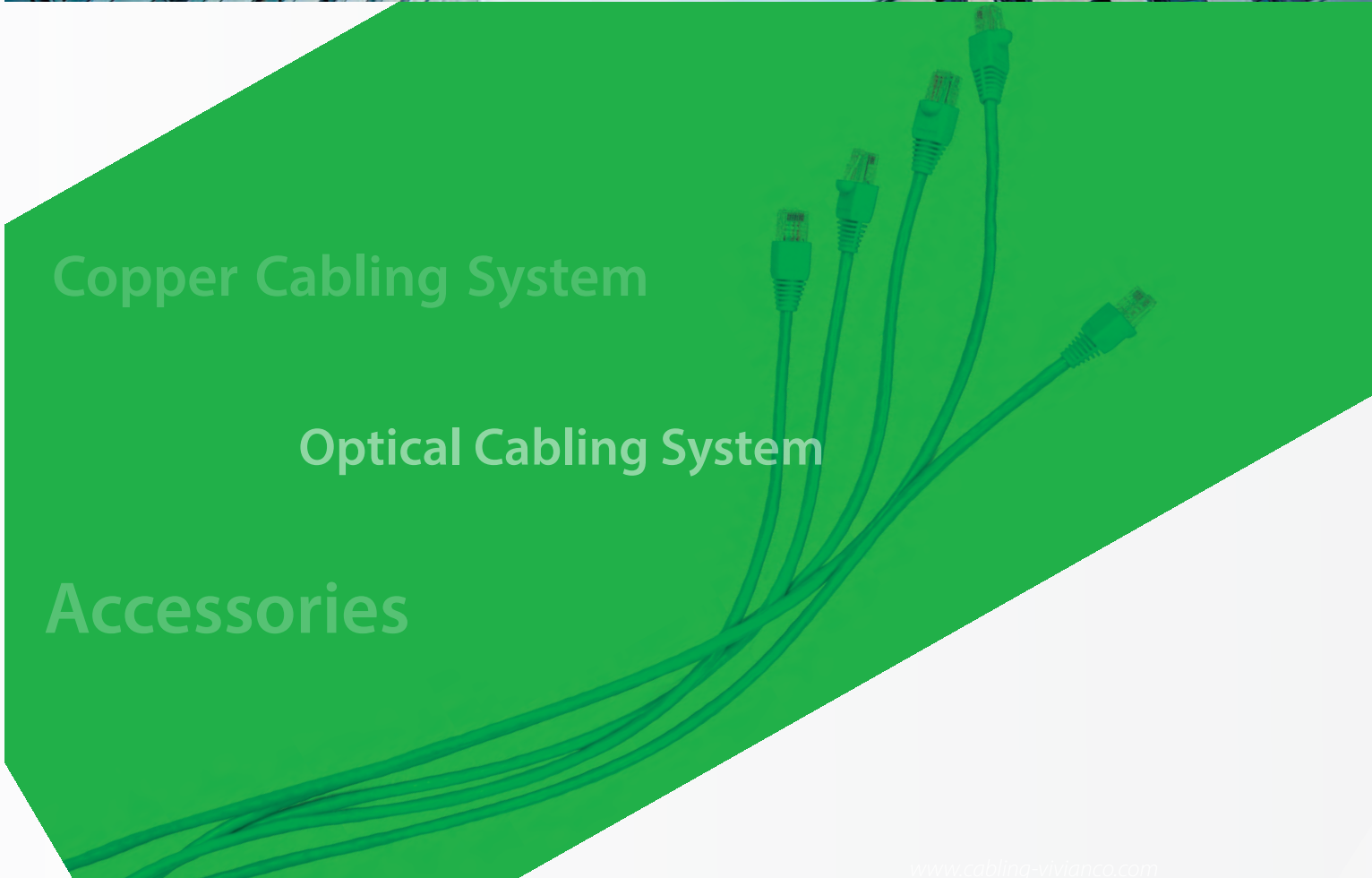
Vivanco is at the forefront of innovation, by understanding the customer requirements at the frontline, develop cutting edge products and solutions exceeding their expectations.

Vivanco through our unique customer feedback mechanisms, constantly develops and evolves with new products through our specialized research and development center ahead of our competitors in the field of innovation. More than 500 experts from Asia and Europe forms a strength of the team, using the latest research and development tools and processes, involved in all stages of product development: from the mold design, to manufacturing processes, to testing of the sample, to provide our customer with the most cost effective and reliable solutions.

Vivanco is always ready to invest when it comes to strategic innovations. Our intelligent copper and fiber cabling solutions are developed by working closely with key customers who found existing solutions in the market that meet their needs.

Today, Vivanco has our own mold making factory and the latest model of numerical control equipment to develop new products to ensure the final product to meet customer's demand on quality, safety, function and cost expectations, improve precisions and accuracies. All products are produced in line with the requirements of ISO9001 certification.

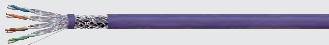
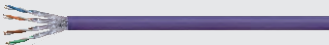
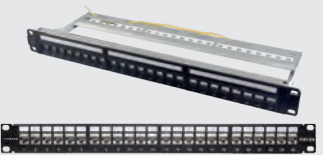
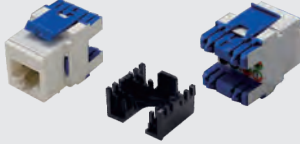
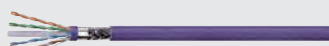
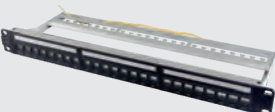
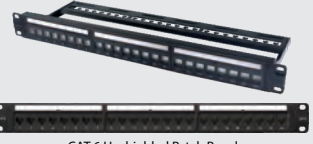
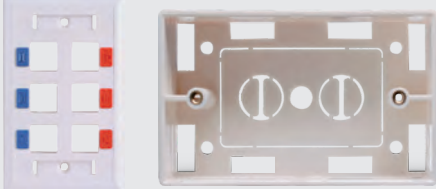




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CAT 6 Copper Cabling Solutions	
CAT 5e Copper Cabling Solutions	
Voice Solutions	
Copper Cabling Accessories	
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Optical Fiber Cable	
Optical Cabling Accessories	

Copper Cabling System Product Guide

	Data Cable	Keystone Jack	Patch Cord	Patch Panel	
6A/EA (500 MHz)	 S/FTP CAT 6A Shielded Cable  U/FTP CAT 6A Shielded Cable	 CAT 6A Shielded Keystone Jack	 S/FTP CAT 6A Shielded Patch Cord U/FTP CAT 6A Shielded Patch Cord	 CAT 6A Shielded Patch Panel	6A/EA (500 MHz)
	 U/XTP CAT 6A UnShielded Cable	 CAT 6A Unshielded Keystone Jack	 U/UTP CAT 6A Unshielded Patch Cord	 CAT 6A Unshielded PatchPanel	
6/E (250 MHz)	 F/UTP CAT 6 Shielded Cable  SF/UTP CAT 6 Shielded Cable	 CAT 6 Shielded Keystone Jack	 F/UTP CAT 6 shielded Patch Cord	 CAT 6 Shielded Patch Panel	6/E (250 MHz)
	 U/UTP CAT 6 Unshielded Cable	 CAT 6 Unshielded Keystone Jack	 U/UTP CAT 6 Shielded Patch Cord	 CAT 6 Unshielded Patch Panel	
5e/D (100 MHz)	 SF/UTP CAT 5e Shielded Cable F/UTP CAT 5e Shielded Cable	 CAT 5e Shielded Keystone Jack	 SF/UTP CAT 5e Shielded Patch Cord	 CAT 5e Shielded Patch Panel	5e/D (100 MHz)
	 U/UTP CAT 5e Unshielded Cable	 CAT 5e Unshielded Keystone Jack	 U/UTP CAT 5e Shielded Patch Cord	 CAT 5e Unshielded Patch Panel	
Voice System	 U/UTP CAT 3 Unshielded 25/50/100 Pair Cable U/UTP CAT 5 Unshielded 25/50/100 Pair Cable	 CAT 3 U/UTP Keystone Jack		 Voice Patch Panel	Voice System
	US Type	86 Type	UK Type	Surface Box and Modular Plug	
Accessories					Accessories



Copper Cabling System

Vivanco offers end-to-end copper cabling solutions for data centers, horizontal cabling, server rooms and other applications.

- CAT 6A Shielded Solutions ----- 001
- CAT 6A Unshielded Solutions ----- 015
- CAT 6 Shielded Solutions ----- 021
- CAT 6 Unshielded Solutions ----- 031
- CAT 5e Shielded Solutions ----- 041
- CAT 5e Unshielded Solutions ----- 047
- Voice Solutions ----- 053
- Copper Cabling Accessories ----- 061

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Copper Cabling System / CAT 6A Shielded Solutions

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INTRODUCTION



CAT 6A System supports the most demanding current and future high-end applications with performance beyond the Category 6A standard. Vivanco CAT 6A end to end S/FTP, U/FTP solution comprises of cables, patch panels, patch cords and 360° shielded information outlets/jacks. The CAT 6A system offers superior electrical performance meeting 10G Base-T requirements under all challenging conditions with design feature minimizing crosstalk interference while maintaining signal integrity. Suitable for high speed environments, including data centers, server farms, high resolution video streaming and other demanding/bandwidth-intensive applications.

- Independently certificated by 3rd party test labs
- Meet and exceed ISO/IEC 11801, IEC 61156-5, ANSI/TIA/EIA-568.2-D Class Ea standards
- Backwards compatible with CAT6 and Cat5e
- Excellent suppression of alien cross talk (ANEXT)
- Fully grounded to guarantee shielding integrity

S/FTP CAT6A Cable & U/FTP CAT6A Cable

- Patented shielded design
- 23 AWG cable

Patch Panel

- Exceed all TIA 568.2-D component performance
- Patented and removable shielded IO
- Rear cable manager
- All accessories included

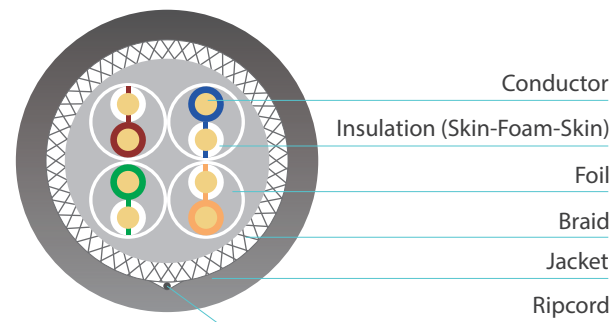
Keystone Jack

- Exceed all TIA 568.2-D component performance
- Patented IO design
- Applicable for cables with a wide range of diameters
- 360° fully shielded
- Toolless termination

Patch Cord

- Exceed all TIA 568.2-D component performance
- Shielded design offers good cross talk performance
- Stranded conductors improve flexibility and bending performance
- Strain relief protection boots for stable performance and long-term durability
- Available in customized lengths and colors





Conductor

Insulation (Skin-Foam-Skin)

Foil

Braid

Jacket

Ripcord

Applications

- 10GBASE-T applications
- Data cable for structured premises cabling up to class FA(1000MHz) applications
- Digital and analog voice, video and data signal transmission
- Power over Ethernet (PoE) / PoE+ / PoE++

Construction		
Conductor	Material	Solid Bare Copper
	Diameter	23 AWG
Insulation	Material	Physical Foaming PE
	Color	White / Blue
		White / Orange
		White / Green
		White / Brown
Shielded	Material	Foil, Braid
Jacket	Material	PVC, LSZH, CMR
	Diameter	8.1±0.3mm

Standard Compliance

- IEC61156
- ISO/IEC 11801
- TIA568.2-D
- IEC60574
- EN50399
- EN50173-1

Features & Benefits

- Excellent electrical performance with skin-foam-skin design
- Individually shielded pair and overall braid to offer good NEXT and ANEXT performance
- Frequency 1-1000MHz, extended to 1500MHz
- Available in a variety of LSZH flame retardant cables
- Durable length markings to reduce waste of cable

Electrical Performance	
DC Resistance	<9.38Ω/100m
Mutual Capacitance	≤ 5.6nF/100m
Impedance	4~100MHz100±15Ω 100~250MHz100±22Ω 250~500MHz100±25Ω 500~1000MHz100±30Ω
NVP	78%
Delay Skew	≤25ns/100m

Physical Performance	
Pulling Tension	110N
Min. Bend Radius	8 x cable diameter
Installation and Storage Temperature	0~60°C (32~140°F)
Operating Temperature	-20~60°C (-4~140°F)

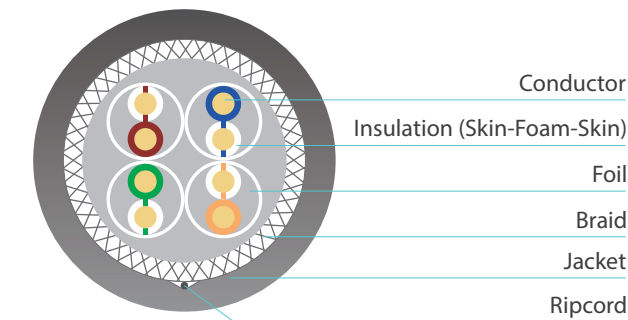
Transmission Performance										
FREQUENCY	RL	IL	DoP	Skew	NEXT	PSNEXT	EL FEXT	PS EL FEXT	PSANEXT	PSAACR-F
	Min.	Max.	Max.	Max.	Min.	Min.	Min.	Min.	Min.	Min.
(MHz)	(dB)	(dB/100M)	(ns)	(ns)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)
4	23.0	3.7	552	25	78	75	78	75	67	67
8	24.5	5.2	547	25	78	75	77	74	67	67
16	25.0	7.3	543	25	78	75	71	68	67	67
20	25.0	8.2	542	25	78	75	69	66	67	67
31.25	23.6	10.3	540	25	78	75	65	62	67	39
62.5	21.5	14.6	539	25	78	75	59	56	67	39
100	20.1	18.5	538	25	75	72	55	52	67	39
200	18.0	26.5	537	25	71	68	49	46	67	39
250	17.3	29.7	536	25	69	66	47	44	67	39
500	17.3	42.8	536	25	65	62	41	38	67	39
600	17.3	47.1	535	25	64	61	40	37	66	39
700	16.6	51.1	535	25	63	60	38	35	65	39
1000	15.1	61.9	535	25	60	57	35	32	63	39

Name Coding

VP CA SF 7A4 XX X X					
TYPE	STRUCTURE	CATEGORY/PAIR	RATING	COLOR	LENGTH
CA=Copper Cable	SF=S/FTP	7A4=CAT 7A, 4 Pair	CR=CMR	B=Blue	3=305m
			CM=CM	G=Grey	
			LS=LSZH	K=Black	
			PV=PVC	O=Orange	
			PE=PE(outdoor)		

Part No.	Description
VPCASF7A4PVG3	CAT 7A S/FTP Shielded Cable, PVC, Grey, 305m/Drum
VPCASF7A4LSO3	CAT 7A S/FTP Shielded Cable, LSZH, Orange 305m/Drum
VPCASF7A4CRG3	CAT 7A S/FTP Shielded Cable, CMR, Grey 305m/Drum





Applications

- 10GBASE-T applications
- Data cable for structured premises cabling up to class EA applications
- Digital and analog voice, video and data signal transmission
- Data center
- Power over Ethernet (PoE) / PoE+ / PoE++

Construction		
Conductor	Material	Solid Bare Copper
	Diameter	23 AWG
Insulation	Material	Physical Foaming PE
	Color	White / Blue White / Orange White / Green White / Brown
Shielded	Material	Foil, Braid
Jacket	Material	PVC, LSZH, CM, CMR, PE
	Diameter	8.0±0.3mm

Standard Compliance

- ISO/IEC 11801
- ANSI/TIA/EIA-568.2-D
- IEC 61156-5
- EN50399
- EN50173-1

Features & Benefits

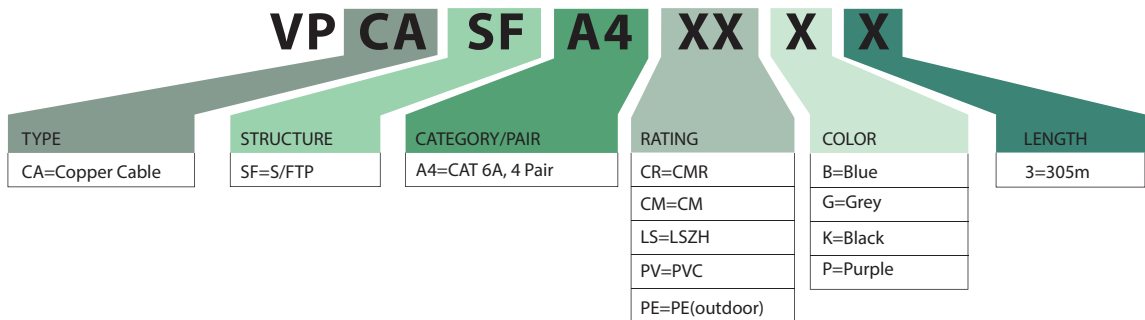
- Excellent electrical performance with skin-foam-skin design
- Individually shielded pair and overall braid to offer good NEXT and ANEXT performance
- Frequency 1-500MHz, extended to 600MHz
- Available in a variety of LSZH flame retardant cables
- Durable length markings to reduce waste of cable

Electrical Performance	
DC Resistance	<9.38Ω/100m
Mutual Capacitance	≤5.6nF/100m
Impedance	1~100MHz100±15Ω 100~250MHz100±22Ω 250~500MHz100±25Ω
NVP	78%
Delay Skew	≤45ns/100m

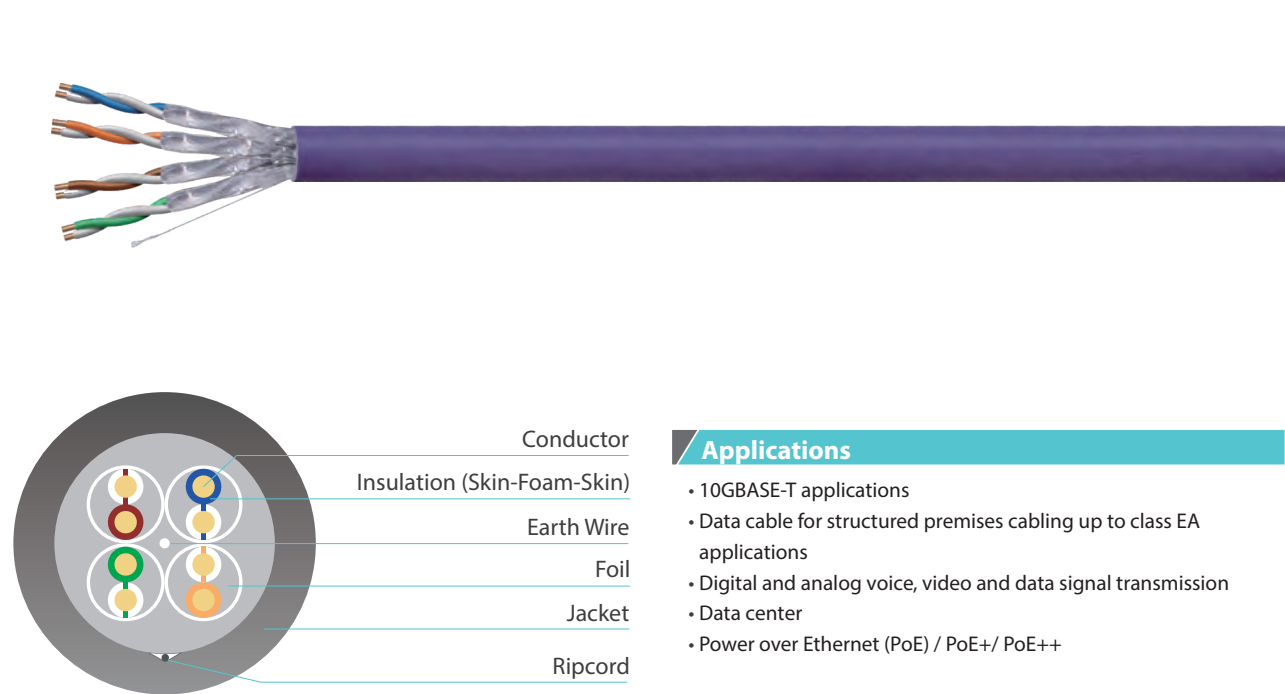
Physical Performance	
Pulling Tension	110N
Min. Bend Radius	8 x cable diameter
Installation and Storage Temperature	0~60°C (32~140°F)
Operating Temperature	-20~60°C (-4~140°F)

Transmission Performance										
FREQUENCY	RL	IL	DoP	Skew	NEXT	PSNEXT	EL FEXT	PS EL FEXT	PSANEXT	PSAACR-F
(MHz)	Min. (dB)	Max. (dB/100M)	Max. (ns)	Max. (ns)	Min. (dB)	Min. (dB)	Min. (dB)	Min. (dB)	Min. (dB)	Min. (dB)
1	20.0	2.1	570	45	75.3	72.3	68	65	67	67
4	23.0	3.8	552	45	66.3	63.3	56	53	67	66.2
16	25.0	7.5	543	45	57.2	54.2	44	41	67	54.1
20	25.0	8.4	542	45	55.8	52.8	42	39	67	52.2
31.25	23.6	10.5	540	45	52.9	49.9	38	35	67	48.3
62.5	21.5	15.0	539	45	48.4	45.4	32	29	65.6	42.3
100	20.1	19.1	538	45	45.3	42.3	28	25	62.5	38.2
250	17.3	31.1	536	45	39.3	36.3	20	17	56.5	30.2
500	15.2	45.3	536	45	34.8	31.8	14	11	52.0	24.2

Name Coding



Ordering Information	
Part No.	Description
VPCASFA4CRG3	CAT 6A S/FTP Shielded Cable, CMR, Grey, 305m/Drum
VPCASFA4CMG3	CAT 6A S/FTP Shielded Cable, CM, Grey, 305m/Drum
VPCASFA4PVG3	CAT 6A S/FTP Shielded Cable, PVC, Grey, 305m/Drum
VPCASFA4LSP3	CAT 6A S/FTP Shielded Cable, LSZH, Purple, 305m/Drum



Applications

- 10GBASE-T applications
- Data cable for structured premises cabling up to class EA applications
- Digital and analog voice, video and data signal transmission
- Data center
- Power over Ethernet (PoE) / PoE+ / PoE++

Construction		
Conductor	Material	Solid Bare Copper
	Diameter	23 AWG
Insulation	Material	Physical Foaming PE
	Color	White / Blue White / Orange White / Green White / Brown
Shielded	Material	Foil
Jacket	Material	PVC, LSZH, CM, CMR, PE
	Diameter	7.9±0.3mm

Standard Compliance

- ISO/IEC 11801
- ANSI/TIA/EIA-568.2-D
- IEC 61156-5
- EN50399
- EN50173-1

Features & Benefits

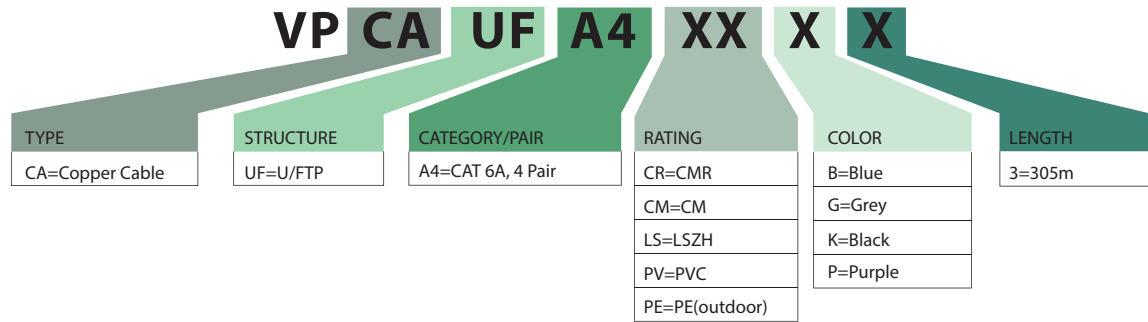
- Excellent electrical performance with skin-foam-skin design
- Individually shielded pair to offer good NEXT and ANEXT performance
- Frequency 1-500MHz, extended to 600MHz
- Available in a variety of LSZH flame retardant cables
- Durable length markings to reduce waste of cable

Electrical Performance	
DC Resistance	<9.38Ω/100m
Mutual Capacitance	≤ 5.6nF/100m
Impedance	1~100MHz100±15Ω 100~250MHz100±22Ω 250~500MHz100±25Ω
NVP	78%
Delay Skew	≤45ns/100m

Physical Performance	
Pulling Tension	110N
Min. Bend Radius	8 x cable diameter
Installation and Storage Temperature	0~60°C (32~140°F)
Operating Temperature	-20~60°C (-4~140°F)

Transmission Performance										
FREQUENCY	RL	IL	DoP	Skew	NEXT	PSNEXT	EL FEXT	PS EL FEXT	PSANEXT	PSAACR-F
	Min.	Max.	Max.	Max.	Min.	Min.	Min.	Min.	Min.	Min.
(MHz)	(dB)	(dB/100M)	(ns)	(ns)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)
1	20.0	2.1	570	45	75.3	72.3	68	65	67	67
4	23.0	3.8	552	45	66.3	63.3	56	53	67	66.2
16	25.0	7.5	543	45	57.2	54.2	44	41	67	54.1
20	25.0	8.4	542	45	55.8	52.8	42	39	67	52.2
31.25	23.6	10.5	540	45	52.9	49.9	38	35	67	48.3
62.5	21.5	15.0	539	45	48.4	45.4	32	29	65.6	42.3
100	20.1	19.1	538	45	45.3	42.3	28	25	62.5	38.2
250	17.3	31.1	536	45	39.3	36.3	20	17	56.5	30.2
500	15.2	45.3	536	45	34.8	31.8	14	11	52.0	24.2

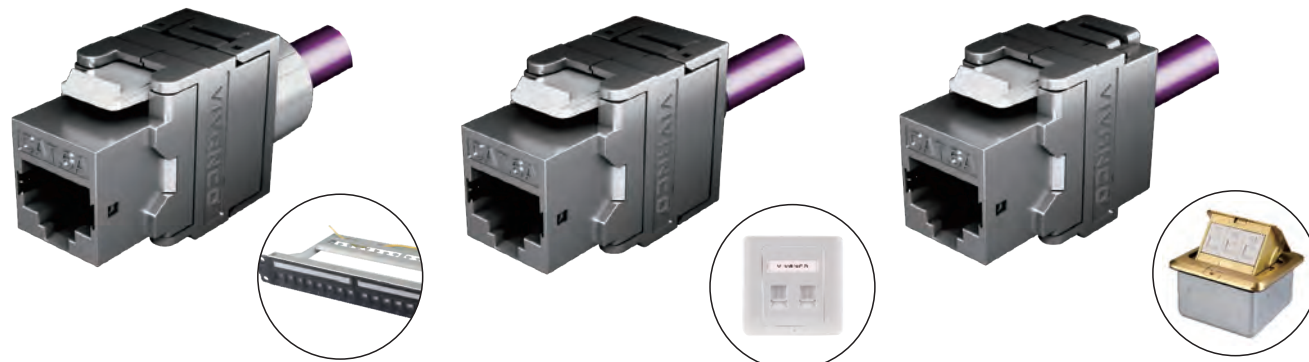
Name Coding



Ordering Information	
Part No.	Description
VPCAUF44CRG3	CAT 6A U/FTP Shielded Cable, CMR, Grey, 305m/Drum
VPCAUF44CMG3	CAT 6A U/FTP Shielded Cable, CM, Grey, 305m/Drum
VPCAUF44PVG3	CAT 6A U/FTP Shielded Cable, PVC, Grey, 305m/Drum
VPCAUF44LSP3	CAT 6A U/FTP Shielded Cable, LSZH, Purple, 305m/Drum

Copper Cabling System / CAT 6A Keystone Jack, Shielded

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Type A: anti-falling design
on the back (for patch panel)

Type B: cable bending protection design on
the back (for face plate)

Type C: without protection design on the back
(for the application if the space is small or the cable
bending direction is uncertain, like ground socket)

Standard Compliance

- ANSI/TIA 568.2-D Category 6A
- ISO/IEC 11801 Class Ea

Features & Benefits

- Meet and exceed Category 6A component and channel performance
- Optional back designs for different applications
- Fast and toolless termination
- 360° fully shielded to prevent ANEXT and EMI
- Outstanding electrical performance
- Reliable grounding
- No cable tie required

Electrical Performance

Dielectric Strength	DC 1000V(AC750V) 1min, no breakdown and arcing phenomena
DC Resistance	≤300 mΩ
Connecting Reactance	≤20mΩ
Insulation Resistance	Under normal atmospheric pressure ≥500 mΩ

Physical Performance

IDC	Phosphor bronze
RJ45 Pin	Phosphor bronze with 50μm gold plating
Plug Insertion	≥1000 times
IDC Insertion Life Span	≥250 times
AWG	22~26AWG
Wiring	T568A/T568B

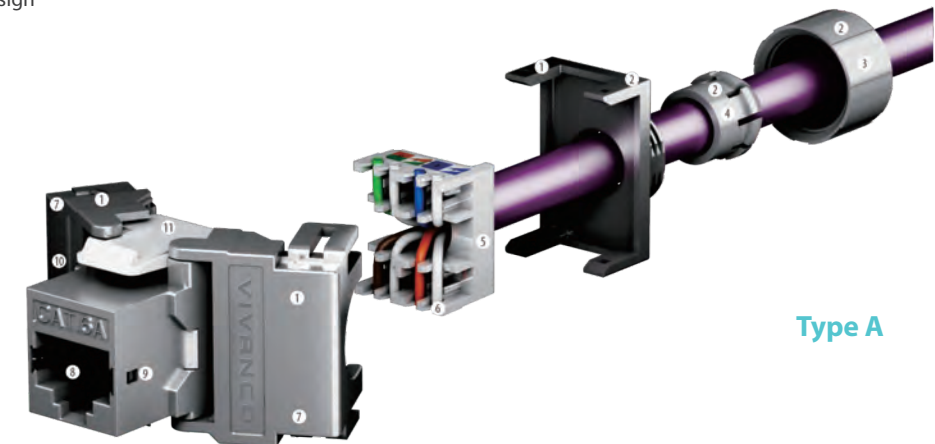
Name Coding

VP	CJ	S	N	F	A	G	X
TYPE	STRUCTURE	SHUTTER	STYLE	CATEGORY	COLOR	BACK DESIGN	
CJ=Copper Jack	S=Shielded	N=Non-shuttered	F=Flat	A=CAT 6A	G=Grey	A=Type A B=Type B C=Type C	

Copper Cabling System / CAT 6A keystone Jack, Shielded

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1. 360° fully shielded
2. Anti-disengaging design
3. Applicable cable diameter 6-8mm
4. IP20
5. Fast wiring
6. Anti-falling design
7. Toolless design
8. Meet and Exceed ISO/IEC 11801 and IEEE802.2ah Standard
9. Grounding with connector
10. Automatic grounding
11. Short circuit protection for grounding wire



Type A

1. 360° fully shielded
2. Shielded 90° cable outlet
3. Two 90° outlet directions by rotation
4. Cable-bending protection design on the back



Type B

1. 360° free outlet



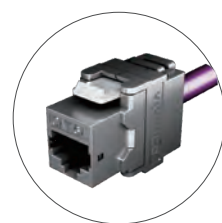
Type C

Ordering Information

Part No.	Description
VPCJSNFAGA	CAT 6A Shielded Keystone Jack, Type A for Patch Panel
VPCJSNFAGB	CAT 6A Shielded Keystone Jack, Type B for Face Plate
VPCJSNFAGC	CAT 6A Shielded Keystone Jack, Type C for Ground Socket

Copper Cabling System / CAT6A 24 Port Patch Panel, Shielded

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Standard Compliance

- ANSI/TIA 568.2-D Category 6A
- ISO/IEC 11801 Class Ea

Features & Benefits

- Meet and exceed Category 6A performance
- Modular shielded design
- Dust-proof shutter in the front to prevent the dust and air flow
- Snap-in design for easy installation and maintenance
- Convenient and clear marking
- Rear cable manager

Electrical Performance

Dielectric Strength	DC 1000V(AC750V) 1min, no breakdown and arcing phenomena
DC Resistance	≤300 mΩ
Connecting Reactance	≤20mΩ
Insulation Resistance	Under normal atmospheric pressure ≥500 mΩ

Physical Performance

IDC	Phosphor bronze
RJ45 Pin	Phosphor bronze with 50μm gold plating
Plug Insertion	≥ 1000 times
IDC Insertion Life Span	≥ 250 times
AWG	22~26AWG
Wiring	T568A/ T568B

Copper Cabling System / CAT6A 24 Port Patch Panel, Shielded

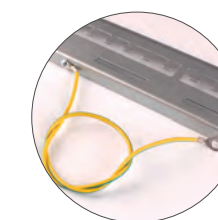
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Your Right Connection



1. Grounding bar for automatic grounding



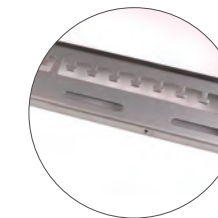
2. Special metal surface treatment, and directly grounded with the cabinet rails



3. Grounding wire



4. Reliable and removable rear cable manager



5. Horizontal cable holder for cable management



6. Clear marking label

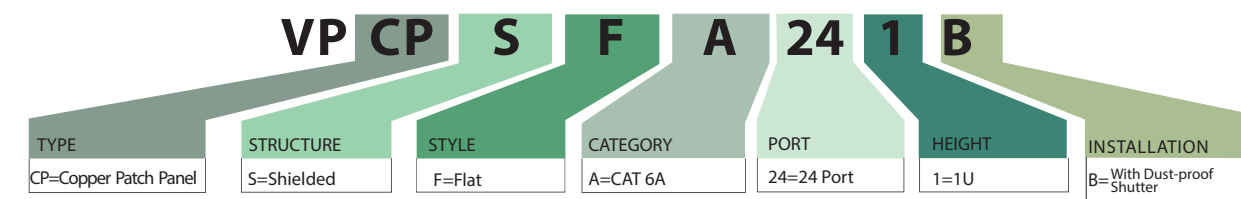


7. Clear and indelible port numbers



8. Automatically- rebound dust-proof shutter

Name Coding



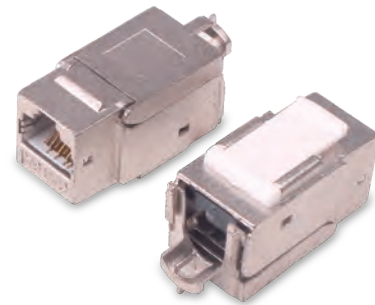
Ordering Information

Part No.	Description
VPCPSFA241B	CAT 6A Shielded Patch Panel, Loaded (With Dust-proof Shutter)



Copper Cabling System / CAT 6A Keystone Jack, Shielded

VIVANCO
Your Right Connection



Standard Compliance

- ANSI/TIA 568.2-D Category 6A
- ISO/IEC 11801 Class Ea

Features & Benefits

- Meet and exceed Category 6A component and channel performance
- Fast and toolless termination
- 360° fully shielded to prevent ANEXT and EMI
- Outstanding electrical performance
- Reliable grounding

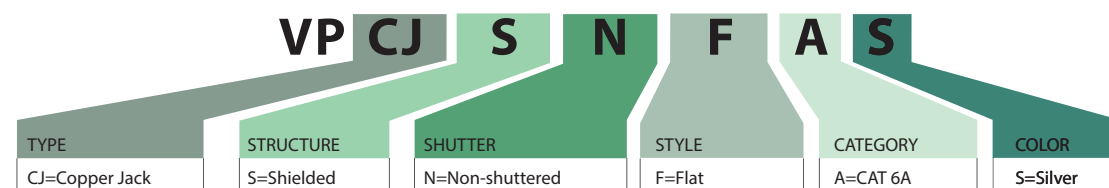
Electrical Performance

Dielectric Strength	DC 1000V(AC750V) 1min, no breakdown and arcing phenomena
DC Resistance	≤300 mΩ
Connecting Reactance	≤20mΩ
Insulation Resistance	Under normal atmospheric pressure ≥500 mΩ

Physical Performance

IDC	Phosphor bronze
RJ45 Pin	Phosphor bronze with 50μm gold plating
Plug Insertion	≥1000 times
IDC Insertion Life Span	≥250 times
AWG	22~26AWG
Wiring	T568A/T568B

Name Coding



Ordering Information

Part No.	Description
VPCJSNFAS	CAT 6A Shielded Keystone Jack

Copper Cabling System / CAT6A 24 Port Patch Panel, Shielded

VIVANCO
Your Right Connection



Standard Compliance

- ANSI/TIA 568.2-D Category 6A
- ISO/IEC 11801 Class Ea

Features & Benefits

- Meet and exceed Category 6A performance
- Modular shielded design
- Snap-in design for easy installation and maintenance
- Convenient and clear marking
- Rear cable manager

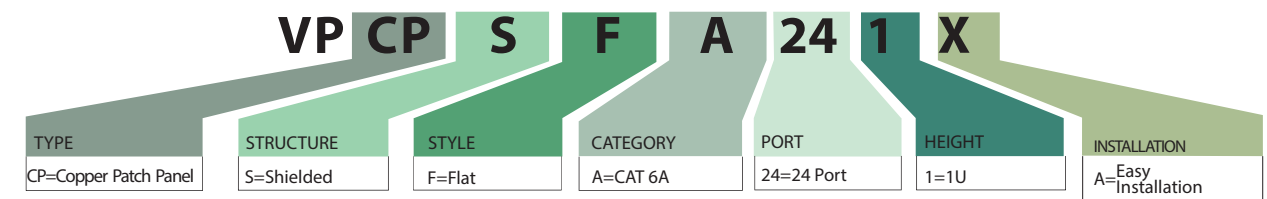
Electrical Performance

Dielectric Strength	DC 1000V(AC750V) 1min, no breakdown and arcing phenomena
DC Resistance (Ω)	≤300 mΩ
Connecting Reactance(Ω)	≤20mΩ
Insulation Resistance(Ω)	Under normal atmospheric pressure ≥500 mΩ

Physical Performance

IDC	Phosphor bronze
RJ45 Pin	Phosphor bronze with 50μm gold plating
Plug Insertion	≥ 1000 times
IDC Insertion Life Span	≥ 250 times
AWG	22~26AWG
Wiring	T568A/ T568B

Name Coding



Ordering Information

Part No.	Description
VPCPSFA241	CAT 6A Shielded Patch Panel, Loaded
VPCPSFA241A	CAT 6A Shielded Patch Panel, Loaded (Easy Installation)



INTRODUCTION



Standard Compliance

- ISO/IEC 11801
- ANSI/TIA/EIA 568.2-D
- IEC 61156-6

Cable Construction

- S/FTP
- 26 AWG

Physical Performance

Insulation	Skin-foam-skin
RJ45 Pin	Gold-plating
Plug Insertion Life Span	≥1000 times
Conductor	Stranded; 7*0.16mm
Operating Temperature	-20~60°C (-4~140°F)

Features & Benefits

- 10 Gigabit, 10G Base-T Ethernet applications
- Individually shielded pair
- Stranded conductors for flexibility and bending performance
- Strain relief protection boots
- Gold-plated and staggered pin design to reduce NEXT
- Available in different colors and lengths

Name Coding

VP	CC	SF	AR	XX	X	X
TYPE	STRUCTURE	CATEGORY/CONDUCTOR	RATING	COLOR	LENGTH	
CC=Copper Cord	SF=S/FTP	AR=CAT 6A/Stranded	CR=CMR	B=Blue	1=1m	
			CM=CM	G=Grey	2=2m	
			LS=LSZH	R=Red	3=3m	
			PV=PVC	Y=Yellow	5=5m	

Ordering Information

Part No.	Description
VPCCSFARPVG3	CAT 6A Shielded Patch Cord, PVC, Grey, 3m
VPCCSFARLSG3	CAT 6A Shielded Patch Cord, LSZH, Grey, 3m
VPCCSFARCMB3	CAT 6A Shielded Patch Cord, CM, Blue, 3m
VPCCSFARCRB3	CAT 6A Shielded Patch Cord, CMR, Blue, 3m



CAT 6A System supports the most demanding current and future high-end applications with performance beyond the Category 6A standard. Vivanco CAT 6A end to end unshielded solution comprises of cables, patch panels, patch cords and information outlets/ jacks. The CAT 6A system offers superior electrical performance meeting 10G Base-T requirements for applications including data centers, server farms and other bandwidth intensive application.

- Independently certificated by 3rd party test labs
- Meet and exceed ISO/IEC 11801, IEC 61156-5, ANSI/TIA/EIA-568.2-D Class EA standards
- Backwards compatible with CAT6 and Cat5e
- Excellent suppression of cross talk (NEXT)

CAT 6A Cable

- 23AWG
- Optional outer jackets for different applications

Patch Panel

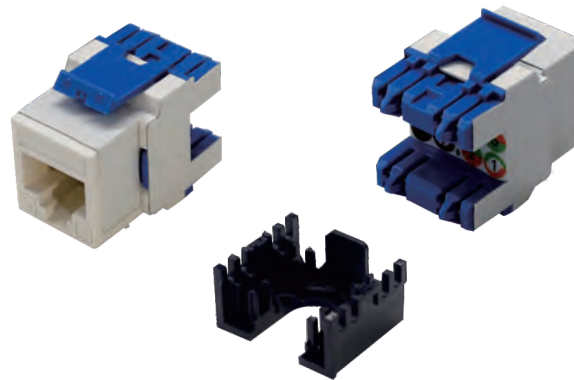
- Exceed all TIA 568.2-D component performance
- Modular design
- Easy installation
- Available in 24(1U) and 48 ports(2U)
- Rear cable manager
- All accessories included

Keystone Jack

- Exceed all TIA 568.2-D component performance
- Tower IDC design for easy installation
- Toolless type optional

Patch Cord

- Exceed all TIA 568.2-D component performance
- 24AWG stranded conductors to improve flexibility and bending performance
- Strain relief protection boots for stable performance and long term durability
- Available in customized lengths and colors
- LSZH Flame retardant or PVC outer jacket



Copper Cabling System

CAT 6A U/UTP (Extreme) Cable
Unshielded

VIVANCO

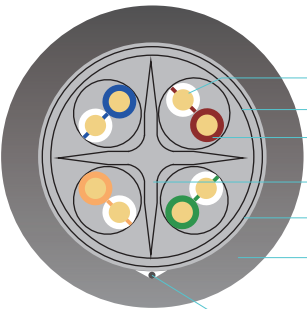
Your Right Connection

Copper Cabling System

CAT 6A U/UTP (Extreme) Cable
Unshielded

VIVANCO

Your Right Connection



Conductor
PET
Insulation
Cross Filler
Insulation
Jacket
Ripcord

Applications

- 10GBASE-T applications
- Data cable for structured premises cabling up to class EA applications
- Digital and analog voice, video and data signal transmission
- Power over Ethernet (PoE) / PoE+

Construction		
Conductor	Material	Solid Bare Copper
	Diameter	23 AWG
Insulation	Material	Polyolefin
	Color	White/ Blue White-Orange / Orange White / Green White-Brown / Brown
Jacket	Material	PVC, LSZH, CM, CMR, PE
	Diameter	7.4±0.3mm

Standard Compliance

- ISO/IEC 11801
- IEC 61156-5
- ANSI/TIA-568.2-D
- EN50399
- EN50173-1

Features & Benefits

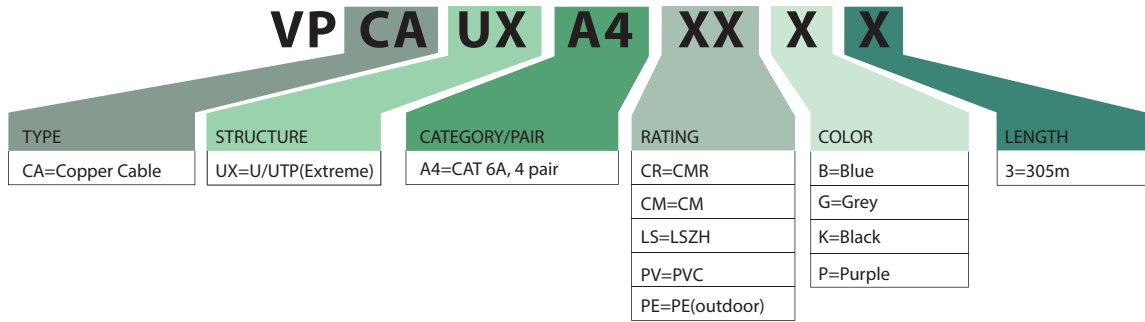
- Cross filler inside to offer better NEXT and ANEXT performance
- Discontinuous shielded foil technology to offer excellent resistance to external crosstalk
- Frequency 1-500MHZ, extended to 550Mhz
- No grounding required to increase the efficiency of cabling installation
- Durable length markings to reduce waste of cable

Electrical Performance	
DC Resistance	<9.38Ω/100m
Mutual Capacitance	≤ 5.6nF/100m
Impedance	1~100MHz100±15Ω 100~250MHz100±22Ω 250~500MHz100±25Ω
NVP	65%
Delay Skew	≤45ns/100m

Physical Performance	
Pulling Tension	110N
Min. Bend Radius	8 x cable diameter
Installation and Storage Temperature	0~60°C (32~140°F)
Operating Temperature	-20~60°C (-4~140°F)

Transmission Performance										
FREQUENCY	RL	IL	DoP	Skew	NEXT	PSNEXT	EL FEXT	PS EL FEXT	PSANEXT	PSAACR-F
(MHz)	Min. (dB)	Max. (dB/100M)	Max. (ns)	Max. (ns)	Min. (dB)	Min. (dB)	Min. (dB)	Min. (dB)	Min. (dB)	Min. (dB)
1	20.0	2.1	570	45	75.3	72.3	68	65	67	67
4	23.0	3.8	552	45	66.3	63.3	56	53	67	66.2
16	25.0	7.5	543	45	57.2	54.2	44	41	67	54.1
20	25.0	8.4	542	45	55.8	52.8	42	39	67	52.2
31.25	23.6	10.5	540	45	52.9	49.9	38	35	67	48.3
62.5	21.5	15.0	539	45	48.4	45.4	32	29	65.6	42.3
100	20.1	19.1	538	45	45.3	42.3	28	25	62.5	38.2
250	17.3	31.1	536	45	39.3	36.3	20	17	56.5	30.2
500	15.2	45.3	536	45	34.8	31.8	14	11	52.0	24.2

Name Coding



Ordering Information

Part No.	Description
VPCAUXA4CRG3	CAT 6A U/UTP(Extreme) Unshielded Cable, CMR, Grey, 305m/Drum
VPCAUXA4CMG3	CAT 6A U/UTP(Extreme) Unshielded Cable, CM, Grey, 305m/Drum
VPCAUXA4PVG3	CAT 6A U/UTP(Extreme) Unshielded Cable, PVC, Grey, 305m/Drum
VPCAUXA4LSP3	CAT 6A U/UTP(Extreme) Unshielded Cable, LSZH, Purple, 305m/Drum



Copper Cabling System / CAT 6A Keystone Jack, Unshielded

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Standard Compliance

- ANSI/TIA-568.2-D Category 6A
- ISO/IEC 11801 Class EA

Features & Benefits

- Meet and exceed Category 6A performance
- Outstanding electrical performance
- Special cover to prevent the dust and falling of wires
- Gold-plated contacts to improve the performance and extend the lifetime
- Specific crimping tool available for four pairs of wires termination in one time
- Toolless termination optional
- PoE+ test standard compliant

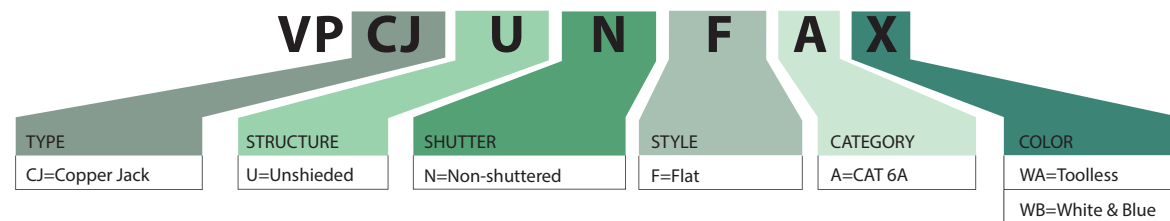
Electrical Performance

Dielectric Strength	DC 1000V(AC750V) 1min, no breakdown and arcing phenomena
DC Resistance	≤300 mΩ
Connecting Reactance	≤20mΩ
Insulation Resistance	Under normal atmospheric pressure ≥500 mΩ

Physical Performance

IDC	Phosphor bronze
RJ45 Pin	Phosphor bronze with 50μm gold plating
Plug Insertion	≥1000 times
IDC Insertion Life Span	≥250 times
AWG	22~26AWG
Wiring	T568A/T568B

Name Coding

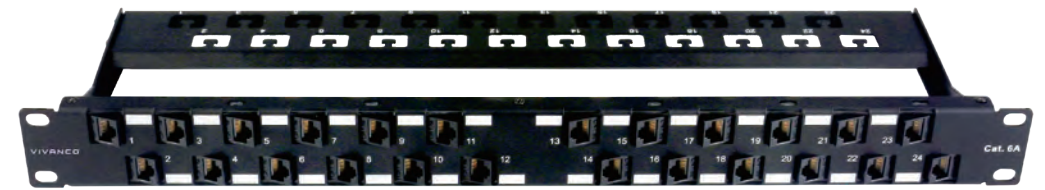


Ordering Information

Part No.	Description
VPCJUNFAWA	CAT 6A Unshielded Keystone Jack (Toolless)
VPCJUNFAWB	CAT 6A Unshielded Keystone Jack (White & Blue)

Copper Cabling System / CAT 6A 24 Port Patch Panel, Unshielded

VIVANCO
Your Right Connection



Standard Compliance

- ANSI/TIA-568.2-D Category 6A
- ISO/IEC 11801 Class E

Features & Benefits

- Meet and exceed Category 6A performance
- Special layout to improve the ANEXT performance
- Angled jack for easy cable management
- Snap-in design for easy installation and maintenance
- Convenient and clear marking
- Rear cable management

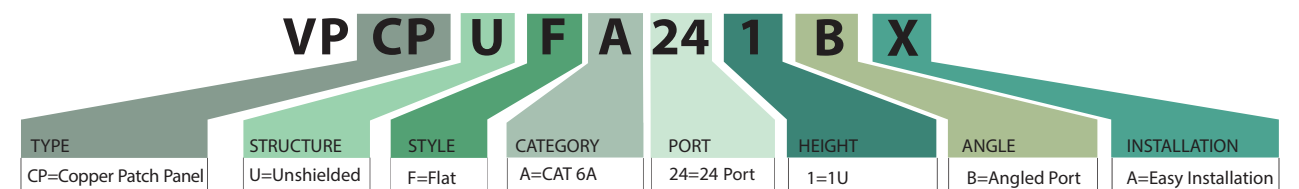
Electrical Performance

Dielectric Strength	DC 1000V(AC750V) 1min, no breakdown and arcing phenomena
Rated Current	≤300 mΩ
Connecting Reactance	≤20mΩ
Insulation Resistance	Under normal atmospheric pressure ≥500 mΩ

Physical Performance

IDC	Phosphor bronze
RJ45 Pin	Phosphor bronze with 50μm gold plating
Plug Insertion	≥1000 times
IDC Insertion Life Span	≥250 times
AWG	22~26AWG
Wiring	T568A/ T568B

Name Coding



Ordering Information

Part No.	Description
VPCPUFA241B	CAT 6A 24 Port Patch Panel, Unshielded, Loaded (Angled Jack)
VPCPUFA241BA	CAT 6A 24 Port Patch Panel, Unshielded, Loaded (Angled Jack, Easy Installation)



Copper Cabling System / CAT 6A Patch Cord, Unshielded

VIVANCO
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Construction

- U/UTP
- 24 AWG

Standard Compliance

- IOS/IEC 11801
- ANSI/TIA-568.2-D
- IEC 61156-6

Physical Performance

Insulation	Skin-foam-skin
RJ45 Pin	Gold-plating
Plug Insertion Life Span	≥1000 times
Conductor	Stranded, 7*0.20mm
Operating Temperature	-20~60°C

Features & Benefits

- 10 Gigabit, 10G Base-T Ethernet application
- Stranded conductors for flexibility and bending performance
- Strain relief protection boots
- Gold-plated and staggered pin design to reduce NEXT
- Available in different colors and lengths

Name Coding

TYPE	STRUCTURE	CATEGORY/CONDUCTOR	RATING	COLOR	LENGTH
CC=Copper Cord	UU=U/UTP	AR=CAT 6A/Stranded	CR=CMR	B =Blue	1=1m
			CM=CM	G=Grey	2=2m
			LS=LSZH	R=Red	3=3m
			PV=PVC	Y=Yellow	5=5m

Ordering Information

Part No.	Description
VPCCUUARPVG3	CAT 6A Unshielded Patch Cord, PVC, Grey, 3m
VPCCUUARLSG3	CAT 6A Unshielded Patch Cord, LSZH, Grey, 3m
VPCCUUARCMB3	CAT 6A Unshielded Patch Cord, CM, Blue, 3m
VPCCUUARCRB3	CAT 6A Unshielded Patch Cord, CMR, Blue, 3m



Copper Cabling System / CAT 6 Shielded Solutions

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INTRODUCTION



CAT 6 System supports the most demanding current and future high-end applications with performance beyond the Category 6 standard. Vivanco CAT6 end to end S/FTP solution comprises of cables, patch panels, patch cords and 360° shielded Information. The CAT6 system offers superior performance meeting 1000 Base-T requirements under challenging installation conditions, including factory environments and data centers, with a design that minimizes crosstalk interference while maintaining signal integrity.

- Independently verified by 3rd party test labs
- Exceed ISO/IEC 11801, IEC 61156-5, ANSI/TIA/EIA-568.2-D Class E standards
- Backward compatible with CAT 5e applications
- Excellent margin with suppression of cross talk (NEXT)

CAT6 Cable

- Unique shielded design
- 23 AWG

Patch Panel

- Exceed all TIA 568.2-D component performance
- Patented and removable shielded IO
- Rear cable manager
- All accessories included

Keystone Jack

- Exceed all TIA 568.2-D component performance
- Patented design
- Applicable for cables with a wide range of diameters
- 360° fully shielded
- Toolless termination

Patch Cord

- Exceed all TIA 568.2-D component performance
- Shielded design offers good cross talk performance
- Stranded conductors to improve flexibility and bending performance
- Strain relief protection boots for stable performance and long-term durability
- Available in customized lengths and colors

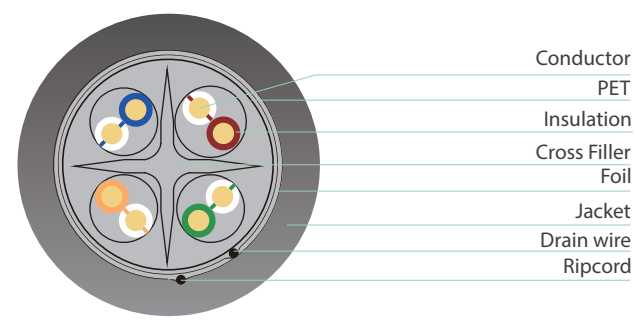


Copper Cabling System / CAT 6 F/UTP Cable, Shielded

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Copper Cabling System / CAT 6 F/UTP Cable, Shielded

VIVANCO
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Conductor
PET
Insulation
Cross Filler
Foil
Jacket
Drain wire
Ripcord

Applications

- 1000Base-T applications
- Data cable for structured premises cabling up to class E and CAT6 applications
- Digital and analog voice, video and data signal transmission
- Power over Ethernet (PoE) / PoE+

Construction		
Conductor	Material	Solid Bare Copper
	Diameter	23 AWG
Insulation	Material	HDPE
	Color	White-Blue / Blue
		White-Orange / Orange
		White-Green / Green
		White-Brown / Brown
Shielded	Material	Foil
Jacket	Material	PVC, LSZH, CM, CMR, PE
	Diameter	7.4±0.3mm

Standard Compliance

- ISO/IEC 11801
- ANSI/TIA/EIA-568.2-D
- IEC 61156-5
- EN50399
- EN50173-1

Features & Benefits

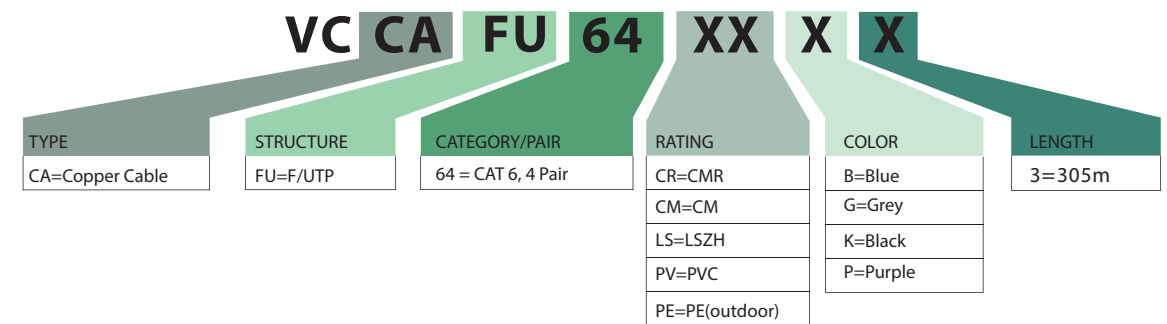
- Cross filler inside to offer better crosstalk and impedance performance
- Aluminum foil shielded
- Frequency 1-250MHZ, extended to 550Mhz
- Available in a variety of LSZH flame retardant cables
- Durable length markings to reduce waste of cable

Electrical Performance	
DC Resistance	<9.38Ω/100m
Mutual Capacitance	≤ 5.6nF/100m
Impedance	1~100MHz100±15Ω 100~250MHz100±22Ω
NVP	67%
Delay Skew	≤45ns/100m

Physical Performance	
Pulling Tension	110N
Min. Bend Radius	8 x cable diameter
Installation and Storage Temperature	0~60°C (32~140°F)
Operating Temperature	-20~60°C (-4~140°F)

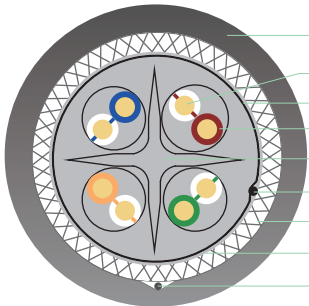
Transmission Performance								
FREQUENCY	RL	IL	DoP	Skew	NEXT	PSNEXT	ACR-F	PSAACR-F
	Min.	Max.	Max.	Max.	Min.	Min.	Min.	Min.
(MHz)	(dB)	(dB/100M)	(ns)	(ns)	(dB)	(dB)	(dB)	(dB)
1	20	2.1	570	45	75	72	67.8	64.8
4	23	3.8	552	45	66	63	55.7	52.7
10	25	6.0	545	45	60	57	47.8	44.8
16	25	7.6	543	45	57	54	43.7	40.7
20	25	8.5	542	45	56	53	41.7	38.7
31.25	23.6	10.7	540	45	53	50	37.9	34.9
62.5	21.5	15.5	538	45	48	45	31.8	28.8
100	20.1	19.9	537	45	45.3	42.3	27.8	24.8
200	18	29.1	536	45	40.7	37.7	21.7	18.7
250	17.3	33.0	535	45	39	36	19.8	16.8

Name Coding



Ordering Information	
Part No.	Description
VCCAFU64CMG3	CAT 6 F/UTP Shielded Cable, CM, Grey, 305m/Drum
VCCAFU64PVG3	CAT 6 F/UTP Shielded Cable, PVC, Grey, 305m/Drum
VCCAFU64LSP3	CAT 6 F/UTP Shielded Cable, LSZH, Purple, 305m/Drum
VCCAFU64PEK3	CAT 6 F/UTP Shielded Cable, PE, Black, 305m/Drum





Jacket
Conductor
PET
Insulation
Cross Filler
Drain Wire
Braid
Foil
Ripcord

Applications

- 1000Base-T applications
- Data cable for structured premises cabling up to class E and CAT6 applications
- Digital and analog voice, video and data signal transmission
- Power over Ethernet (PoE) / PoE+

Construction		
Conductor	Material	Solid Bare Copper
	Diameter	23 AWG
Insulation	Material	HDPE
	Color	White-Blue / Blue
		White-Orange / Orange
		White-Green / Green
		White-Brown / Brown
Shielded	Material	Foil,Braid
Jacket	Material	PVC, LSZH, CM, CMR, PE
	Diameter	8.0±0.3mm

Standard Compliance

- ISO/IEC 11801
- ANSI/TIA/EIA-568.2-D
- IEC 61156-5
- EN50399
- EN50173-1

Features & Benefits

- Cross filler inside to offer better crosstalk and impedance performance
- Overall braid and aluminum foil shielded
- Frequency 1-250MHZ, extended to 550Mhz
- Available in a variety of LSZH flame retardant cables
- Durable length markings to reduce waste of cable

Electrical Performance	
DC Resistance	<9.38Ω/100m
Mutual Capacitance	≤ 5.6nF/100m
Impedance	1~100MHz100±15Ω 100~250MHz100±22Ω
NVP	67%
Delay Skew	≤45ns/100m

Physical Performance	
Pulling Tension	110N
Min. Bend Radius	8 x cable diameter
Installation and Storage Temperature	0~60°C (32~140°F)
Operating Temperature	-20~60°C (-4~140°F)

Transmission Performance

FREQUENCY	RL	IL	DoP	Skew	NEXT	PSNEXT	ACR-F	PSAACR-F
	Min.	Max.	Max.	Max.	Min.	Min.	Min.	Min.
(MHz)	(dB)	(dB/100M)	(ns)	(ns)	(dB)	(dB)	(dB)	(dB)
1	20	2.0	570	45	75	72	67.8	64.8
4	23	3.8	552	45	66	63	55.7	52.7
10	25	6.0	545	45	60	57	47.8	44.8
16	25	7.6	543	45	57	54	43.7	40.7
20	25	8.5	542	45	56	53	41.7	38.7
31.25	23.6	10.7	540	45	53	50	37.9	34.9
62.5	21.5	15.4	538	45	48	45	31.8	28.8
100	20.1	19.8	537	45	45.3	42.3	27.8	24.8
200	18	29.1	536	45	40.7	37.7	21.7	18.7
250	17.3	33.0	535	45	39	36	19.8	16.8

Name Coding

VC CA SFU 64 XX X X					
TYPE	STRUCTURE	CATEGORY/PAIR	RATING	COLOR	LENGTH
CA=Copper Cable	SFU=SF/UTP	64 = CAT 6, 4 Pair	CR=CMR CM=CM LS=LSZH PV=PVC PE=PE(outdoor)	B=Blue G=Grey K=Black P=Purple	3=305m

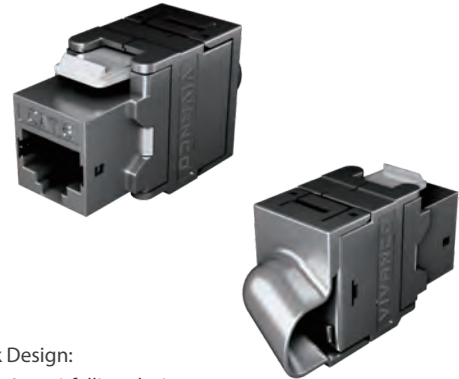
Ordering Information

Part No.	Description
VCCASFU64PVG3	CAT 6 SF/UTP Shielded Cable, PVC, Grey, 305m/Drum
VCCASFU64LSP3	CAT 6 SF/UTP Shielded Cable, LSZH, Purple, 305m/Drum



Copper Cabling System / CAT 6 Keystone Jack, Shielded

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Back Design:
Type A: anti-falling design
Type B: cable bending protection design
Type C: without protection design

Standard Compliance

- ANSI/TIA 568.2-D Category 6
- ISO/IEC 11801 Class E

Features & Benefits

- Meet and exceed Category 6 standard performance
- Outstanding electrical performance
- 360° fully shielded design to prevent EMI
- Reliable and automatic grounding
- Fast and toolless termination
- Optional back designs for different applications
- No cable tie required

Electrical Performance

Dielectric Strength	DC 1000V(AC750V) 1min, no breakdown and arcing phenomena
DC Resistance	≤300 mΩ
Connecting Reactance	≤20mΩ
Insulation Resistance	Under normal atmospheric pressure ≥500 mΩ

Physical Performance

IDC	Phosphor bronze
RJ45 Pin	Phosphor bronze with 50μm gold plating
Plug Insertion	≥1000 times
IDC Insertion Life Span	≥250 times
AWG	22~26AWG
Wiring	T568A/T568B

Name Coding

VC	CJ	S	N	F	6	G	X
TYPE	STRUCTURE	SHUTTER	STYLE	CATEGORY		COLOR	BACK DESIGN
CJ=Copper Jack	S=Shielded	N=Non-shuttered	F=Flat	6=CAT 6		G=Grey	A=Type A B=Type B C=Type C

Ordering Information

Part No.	Description
VCCJSNF6GA	CAT 6 Shielded Keystone Jack, Type A for Patch Panel
VCCJSNF6GB	CAT 6 Shielded Keystone Jack, Type B for Face Plate
VCCJSNF6GC	CAT 6 Shielded Keystone Jack, Type C for Ground Socket



Copper Cabling System / CAT 6 24 Port Patch Panel, Shielded

VIVANCO
Your Right Connection



Standard Compliance

- ANSI/TIA 568.2-D Category 6
- ISO/IEC 11801 Class E

Features & Benefits

- Meet and exceed Category 6 standard performance
- Modular shielded design
- Dust-proof shutter in the front to prevent dust and air flow
- Snap-in design for easy installation and maintenance
- Convenient and clear marking
- Rear cable manager

Electrical Performance

Dielectric Strength	DC 1000V(AC750V) 1min, no breakdown and arcing phenomena
DC Resistance	≤300 mΩ
Connecting Reactance	≤20mΩ
Insulation Resistance	Under normal atmospheric pressure ≥500 mΩ

Physical Performance

IDC	Phosphor bronze
RJ45 Pin	Phosphor bronze with 50μm gold plating
Plug Insertion	≥1000 times
IDC Insertion Life Span	≥250 times
AWG	22~26AWG
Wiring	T568A/T568B

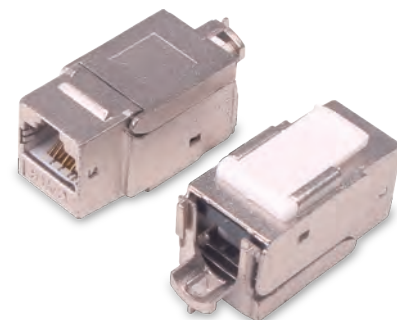
Name Coding

VC	CP	S	F	6	24	1	B
TYPE	STRUCTURE	STYLE	CATEGORY	PORT	HEIGHT	INSTALLATION	
CP=Copper Patch Panel	S=Shielded	F=Flat	6=CAT 6	24=24 Port	1=1U	With B=Dust-proof Shutter	

Ordering Information

Part No.	Description
VCCPSF6241B	24 Port CAT 6 Shielded Patch Panel, Loaded, 1U (With Dust-proof Shutter)

Copper Cabling System / CAT 6 Keystone Jack, Shielded

VIVANCO
Your Right Connection

Standard Compliance

- ANSI/TIA 568.2-D Category 6
- ISO/IEC 11801 Class E

Features & Benefits

- Meet and exceed Category 6 standard performance
- Outstanding electrical performance
- 360° fully shielded design to prevent EMI
- Reliable and automatic grounding
- Fast and toolless termination

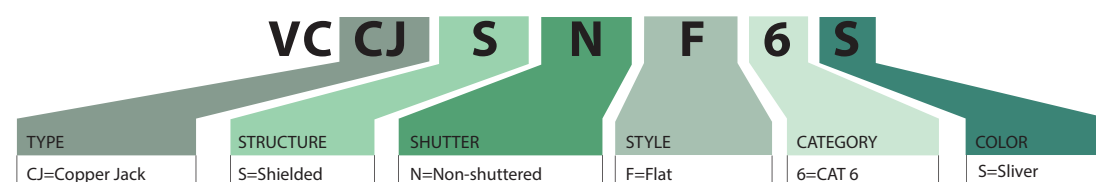
Electrical Performance

Dielectric Strength	DC 1000V(AC750V) 1min, no breakdown and arcing phenomena
DC Resistance	≤300 mΩ
Connecting Reactance	≤20mΩ
Insulation Resistance	Under normal atmospheric pressure ≥500 mΩ

Physical Performance

IDC	Phosphor bronze
RJ45 Pin	Phosphor bronze with 50μm gold plating
Plug Insertion	≥1000 times
IDC Insertion Life Span	≥250 times
AWG	22~26AWG
Wiring	T568A/T568B

Name Coding



Ordering Information

Part No.	Description
VCCJSNF6S	CAT 6 Shielded Keystone Jack

Copper Cabling System / CAT 6 24 Port Patch Panel, Shielded

VIVANCO
Your Right Connection

Standard Compliance

- ANSI/TIA 568.2-D Category 6
- ISO/IEC 11801 Class E

Features & Benefits

- Meet and exceed Category 6 standard performance
- Modular shielded design
- Snap-in design for easy installation and maintenance
- Convenient and clear marking
- Rear cable manager

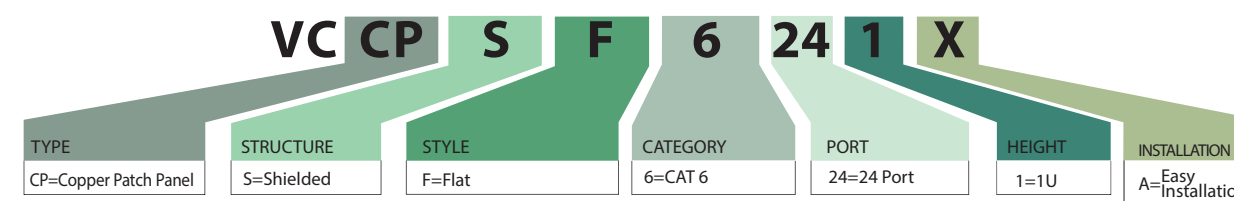
Electrical Performance

Dielectric Strength	DC 1000V(AC750V) 1min, no breakdown and arcing phenomena
DC Resistance	≤300 mΩ
Connecting Reactance	≤20mΩ
Insulation Resistance	Under normal atmospheric pressure ≥500 mΩ

Physical Performance

IDC	Phosphor bronze
RJ45 Pin	Phosphor bronze with 50μm gold plating
Plug Insertion	≥1000 times
IDC Insertion Life Span	≥250 times
AWG	22~26AWG
Wiring	T568A/T568B

Name Coding



Ordering Information

Part No.	Description
VCCPSF6241	24 Port CAT 6 Shielded Patch Panel, Loaded, 1U
VCCPSF6241A	24 Port CAT 6 Shielded Patch Panel, Loaded, 1U (Easy Installation)



Copper Cabling System / CAT 6 Patch Cord, Shielded

VIVANCO

Your Right Connection



Standard Compliance

- ISO/IEC 11801
- ANSI/TIA/EIA 568.2-D
- IEC 61156-6

Cable Construction

- F/UTP
- 26 AWG

Features & Benefits

- 1000 Base-T Ethernet application
- Stranded conductors for flexibility and bending performance
- Strain relief protection boots
- Gold-plated and staggered pin design to reduce NEXT;
- Available in different colors and lengths

Physical Performance

Insulation	HDPE
Gold-plating	50μ
Plug Insertion Life Span	≥1000 times
Conductor	Stranded, 7*0.16mm
Operating Temperature	-20~60°C

Name Codling

VC CC FU 6R XX X X					
TYPE	STRUCTURE	CATEGORY/CONDUCTOR	RATING	COLOR	LENGTH
CC=Copper Cord	FU=F/UTP	6R=CAT 6, Stranded	CR=CMR	B=Blue	1=1m
			CM=CM	G=Grey	2=2m
			LS=LSZH	R=Red	3=3m
			PV=PVC	Y=Yellow	5=5m

Ordering Information	
Part No.	Description
VCCCFU6RPVG3	CAT 6 Shielded Patch Cord, PVC, Grey, 3m
VCCCFU6RLSG3	CAT 6 Shielded Patch Cord, LSZH, Grey, 3m
VCCCFU6RCMB3	CAT 6 Shielded Patch Cord, CM, Blue, 3m
VCCCFU6RCRB3	CAT 6 Shielded Patch Cord, CMR, Blue, 3m

Copper Cabling System / CAT 6 Unshielded Solutions

VIVANCO

Your Right Connection

INTRODUCTION



CAT 6 system supports the most demanding high-end applications with performance beyond the Category 6 standard. Vivanco CAT6 end-to-end unshielded solutions consists of cables, patch panels, patch cords and information outlets/jacks. The CAT6 system offers superior electrical performance, while meeting 1000 Base-T requirements for applications including data centers, server farms and other bandwidth-intensive applications.

- Independently certificated by 3rd party test labs
- Meet and exceed ISO/IEC 11801, IEC 61156-5, ANSI/TIA/EIA-568.2-D Class E
- Backwards compatible with CAT 5e
- Excellent suppression of cross talk(NEXT)

CAT6 Cable

- 23AWG

Patch Panel

- Easy installation
- Available in 24(1U) and 48 ports(2U)
- Rear cable manager
- All the accessories included

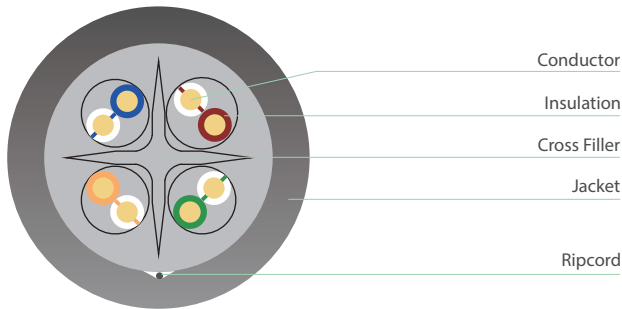
Keystone Jack

- Exceed all TIA 568.2-D component performance
- 180° IDC design for easy installation
- Toolless type optional
- Available in different colors

Patch Cord

- Exceed all TIA 568.2-D component performance
- Stranded conductors improve flexibility and bending performance
- Strain relief protection boots for stable performance and long-term durability
- Available in customized lengths and colors
- LSZH flame retardant or PVC outer jacket





Conductor

Insulation

Cross Filler

Jacket

Ripcord

Applications

- 1000Base-T Applications
- Data cable for structured premises cabling up to class E and CAT6 applications
- Digital and analog voice, video and data signal transmission
- Power over Ethernet (PoE) / PoE+

Construction

Conductor	Material	Solid Bare Copper	
	Diameter	23 AWG	
Insulation	Material	HDPE/FEP	
	Color	White-Blue / Blue White-Orange / Orange White-Green / Green White-Brown / Brown	
Jacket	Material	PVC, LSZH, PE, CM, CMR	CMP
	Diameter	6.3±0.3mm	5.6±0.3mm

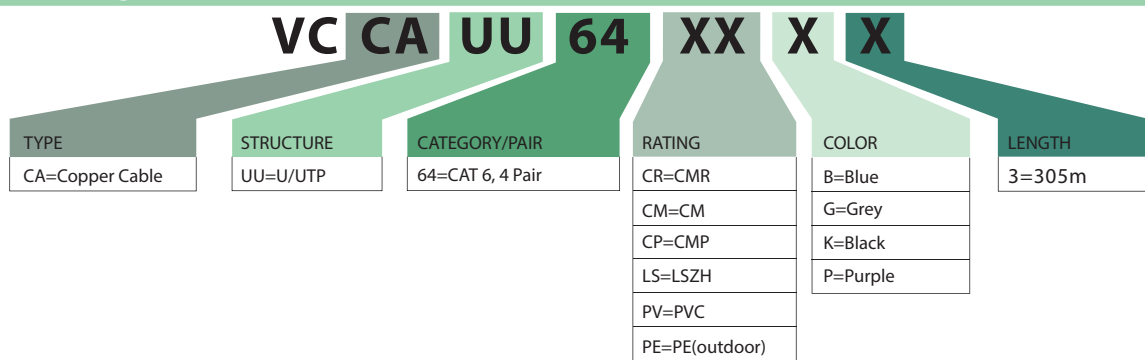
Standard Compliance

- ISO/IEC 11801
- ANSI/TIA/EIA-568.2-D
- IEC 61156-5
- EN50399
- EN50173-1

Features & Benefits

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

Name Coding



Electrical Performance

DC Resistance	<9.38Ω/100m
Mutual Capacitance	≤5.6nF/100m
Impedance	1~100MHz100±15Ω 100~250MHz100±22Ω
NVP	68%
Delay Skew	≤45ns/100m

Physical Performance

Pulling Tension	110N
Min. Bend Radius	8 x cable diameter
Installation and Storage Temperature	0~60°C (32~140°F)
Operating Temperature	-20~60°C (-4~140°F)

Transmission Performance

FREQUENCY	RL	IL	DoP	Skew	NEXT	PSNEXT	ACR-F	PSAACR-F
(MHz)	Min. (dB)	Max. (dB/100M)	Max. (ns)	Max. (ns)	Min. (dB)	Min. (dB)	Min. (dB)	Min. (dB)
1	20	2.0	570	45	75	72	67.8	64.8
4	23	3.8	552	45	66	63	55.7	52.7
10	25	6.0	545	45	60	57	47.8	44.8
16	25	7.6	543	45	57	54	43.7	40.7
20	25	8.5	542	45	56	53	41.7	38.7
31.25	23.6	10.7	540	45	53	50	37.9	34.9
62.5	21.5	15.4	538	45	48	45	31.8	28.8
100	20.1	19.8	537	45	45.3	42.3	27.8	24.8
200	18	29.1	536	45	40.7	37.7	21.7	18.7
250	17.3	33.0	535	45	39	36	19.8	16.8

Ordering Information

Part No.	Description
VCCAUU64CPG3	CAT 6 U/UTP Unshielded Cable, CMP, Grey, 305m/Box
VCCAUU64CRG3	CAT 6 U/UTP Unshielded Cable, CMR, Grey, 305m/Box
VCCAUU64CMG3	CAT 6 U/UTP Unshielded Cable, CM, Grey, 305m/Box
VCCAUU64PVG3	CAT 6 U/UTP Unshielded Cable, PVC, Grey, 305m/Box
VCCAUU64LSP3	CAT 6 U/UTP Unshielded Cable, LSZH, Purple, 305m/Box



Copper Cabling System / CAT 6 Keystone Jack, Unshielded

VIVANCO
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Standard Compliance

- ANSI/TIA 568.2-D Category 6
- ISO/IEC 11801 Class E

Features & Benefits

- Meet and exceed Category 6 standard performance
- Transparent cover to prevent the dust and falling of wires
- Gold-plated contacts to improve the performance and extend the lifetime
- Front traceable LED indicator with over 10000 flash times to find the right ports easily and quickly
- A Fluke and normal tester required to test and find the port
- Full channel performance unaffected even the LED indicator is damaged

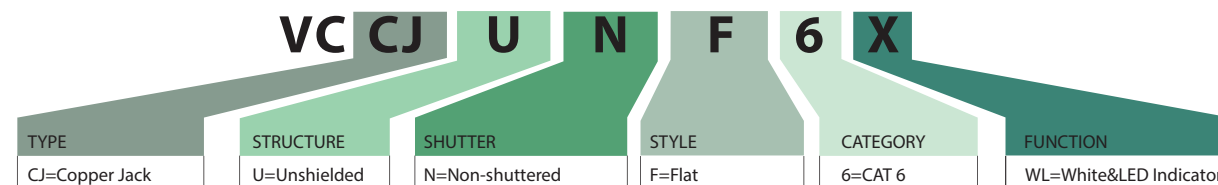
Electrical Performance

Dielectric Strength	DC 1000V(AC750V) 1min, no breakdown and arcing phenomena
DC Resistance	≤300 mΩ
Connecting Reactance	≤20mΩ
Insulation Resistance	Under normal atmospheric pressure ≥500 mΩ

Physical Performance

IDC	Phosphor bronze
RJ45 Pin	Phosphor bronze with 50μm gold plating
Plug Insertion	≥1000 times
IDC Insertion Life Span	≥250 times
AWG	22~26AWG
Wiring	T568A/ T568B

Name Coding



Ordering Information

Part No.	Description
VCCJUNF6WL	CAT6, Unshielded RJ45 Keystone Jack (White, with LED Indicator)



Copper Cabling System / CAT 6 Patch Panel, Unshielded

VIVANCO
Your Right Connection



Standard Compliance

- ANSI/TIA 568.2-D Category 6
- ISO/IEC 11801 Class E

Features & Benefits

- Meet and exceed category 6 standard performance
- Front traceable LED indicator
- Modular design
- Dust-proof shutter in the front to prevent the dust and air flow
- Snap-in design for easy installation and maintenance
- Convenient and clear marking
- Rear cable manager

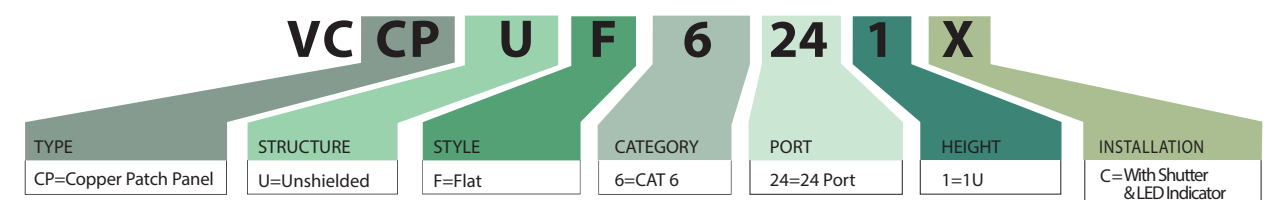
Electrical Performance

Dielectric Strength	DC 1000V(AC750V) 1min, no breakdown and arcing phenomena
DC Resistance	≤300 mΩ
Connecting Reactance	≤20mΩ
Insulation Resistance	Under normal atmospheric pressure ≥500 mΩ

Physical Performance

IDC	Phosphor bronze
RJ45 Pin	Phosphor bronze with 50μm gold plating
Plug Insertion	≥1000 times
IDC Insertion Life Span	≥250 times
AWG	22~26AWG
Wiring	T568A/T568B

Name Coding



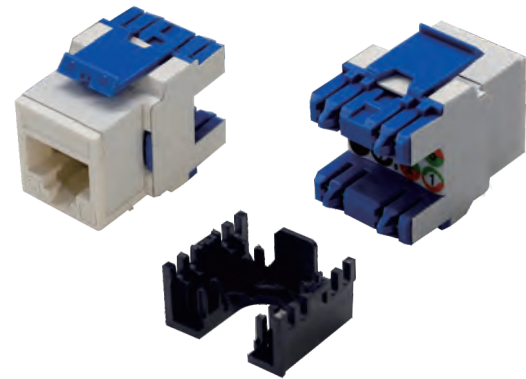
Ordering Information

Part No.	Description
VCCP6241C	CAT 6 24 Port Patch Panel, Unshielded, Loaded, With Shutter and LED Indicator



Copper Cabling System / CAT 6 Keystone Jack, Unshielded

VIVANCO
Your Right Connection



Standard Compliance

- ANSI/TIA 568.2-D Category 6
- ISO/IEC 11801 Class E

Features & Benefits

- Meet and exceed Category 6 performance
- Outstanding electrical performance
- Special cover to prevent the dust and falling of wires
- Gold-plated contacts to improve the performance and extend the lifetime
- Specific crimping tool available for four pairs of wires termination in one time
- PoE+ test standard compliant

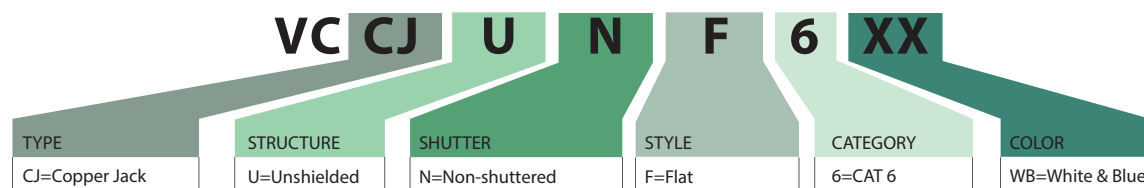
Electrical Performance

Dielectric Strength	DC 1000V(AC750V) 1min, no breakdown and arcing phenomena
DC Resistance	≤300 mΩ
Connecting Reactance	≤20mΩ
Insulation Resistance	Under normal atmospheric pressure ≥500 mΩ

Physical Performance

IDC	Phosphor bronze
RJ45 Pin	Phosphor bronze with 50μm gold plating
Plug Insertion	≥1000 times
IDC Insertion Life Span	≥250 times
AWG	22~26AWG
Wiring	T568A/ T568B

Name Coding



Ordering Information

Part No.	Description
VCCJUNF6WB	CAT6, Unshielded RJ45 Keystone Jack (White & Blue)

Copper Cabling System / CAT 6 Patch Panel, Unshielded

VIVANCO
Your Right Connection



Standard Compliance

- ANSI/TIA 568.2-D Category 6
- ISO/IEC 11801 Class E

Features & Benefits

- Meet and exceed category 6 standard performance
- Modular design
- Dust-proof shutter in the front to prevent the dust and air flow
- Snap-in design for easy installation and maintenance
- Convenient and clear marking
- Rear cable manager

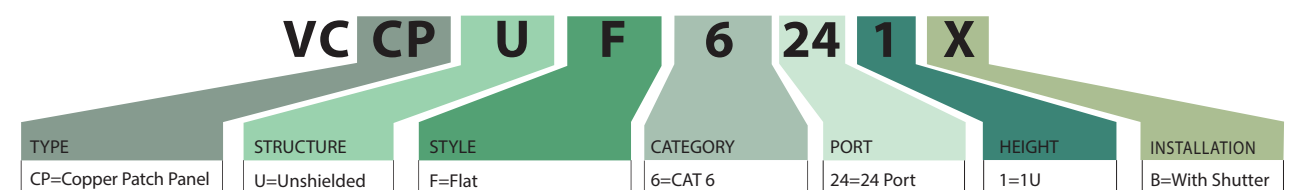
Electrical Performance

Dielectric Strength	DC 1000V(AC750V) 1min, no breakdown and arcing phenomena
DC Resistance	≤300 mΩ
Connecting Reactance	≤20mΩ
Insulation Resistance	Under normal atmospheric pressure ≥500 mΩ

Physical Performance

IDC	Phosphor bronze
RJ45 Pin	Phosphor bronze with 50μm gold plating
Plug Insertion	≥1000 times
IDC Insertion Life Span	≥250 times
AWG	22~26AWG
Wiring	T568A/T568B

Name Coding



Ordering Information

Part No.	Description
VCCPUF6241B	CAT 6 24 Port Patch Panel, Unshielded, Loaded, With Dust-proof Shutter



**Standard Compliance**

- ANSI/TIA 568.2-D Category 6
- ISO/IEC 11801 Class E

Features & Benefits

- Meet and exceed Category 6 standard performance
- Special contact points to reduce NEXT
- Transparent cover to prevent the dust and falling of wires
- Sophisticated design to ensure proper cable termination space
- Toolless type optional

Electrical Performance

Dielectric Strength	DC 1000V(AC750V) 1min, no breakdown and arcing phenomena
DC Resistance	≤300 mΩ
Connecting Reactance	≤20mΩ
Insulation Resistance	Under normal atmospheric pressure ≥500 mΩ

Physical Performance

IDC	Phosphor bronze
RJ45 Pin	Phosphor bronze with 50μm gold plating
Plug Insertion	≥1000 times
IDC Insertion Life Span	≥250 times
AWG	22~26AWG
Wiring	T568A/ T568B

Name Coding

TYPE	STRUCTURE	SHUTTER	STYLE	CATEGORY	COLOUR
CJ=Copper Jack	U=Unshielded	N=Non-shuttered	F=Flat	6=CAT 6	W=White WA=Toolless

Ordering Information

Part No.	Description
VCCJUNF6W	CAT6 Unshielded RJ45 Keystone Jack (White)
VCCJUNF6WA	CAT6 Unshielded RJ45 Keystone Jack (Toolless)

**Standard Compliance**

- ANSI/TIA 568.2-D Category 6
- ISO/IEC 11801 Class E

Features & Benefits

- Meet and exceed Category 6 standard performance
- Removable keystone jack
- Snap-in design for easy installation and maintenance
- Convenient and clear marking
- Rear cable manager
- Available in 24 ports (1U) and 48 ports (2U)

Electrical Performance

Dielectric Strength	DC 1000V(AC750V) 1min, no breakdown and arcing phenomena
DC Resistance	≤300 mΩ
Connecting Reactance	≤20mΩ
Insulation Resistance	Under normal atmospheric pressure ≥500 mΩ

Physical Performance

IDC	Phosphor bronze
RJ45 Pin	Phosphor bronze with 50μm gold plating
Plug Insertion	≥1000 times
IDC Insertion Life Span	≥250 times
AWG	22~26AWG
Wiring	T568A/T568B

Name Coding

TYPE	STRUCTURE	STYLE	CATEGORY	PORT	HEIGHT
CP=Copper Patch Panel	U=Unshielded	F=Flat	6=CAT 6	24=24 Port 48=48 Port	1=1U 2=2U

Ordering Information

Part No.	Description
VCCPUF6241	24 Port CAT6 Unshielded Patch Panel, Loaded, 1U
VCCPUF6482	48 Port CAT6 Unshielded Patch Panel, Loaded, 2U

Copper Cabling System / CAT 6 Patch Cord, Unshielded

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Standard Patch Cord



Slim Patch Cord

Item	Standard Patch Cord	Slim Patch Cord
Cable Construction	U/UTP	
	24AWG/7	28AWG/7
Standard Compliance	IOS/IEC 11801 ANSI/TIA-568.2-D IEC 61156-6	ANSI/TIA-568.2-D

Physical Performance	
Insulation	HDPE
RJ45 Pin	Gold-plating
Plug Insertion Life Span	≥1000times
Operating Temperature	-20~60°C

Features & Benefits	
• 1000 Base-T Ethernet applications • Stranded conductors for flexibility and bending performance • Strain relief protection boots • Gold-plated and staggered pin design to reduce NEXT • 3.8mm overall diameter for slim patch cord • Available in different colors and lengths	

Name Coding					
VC		CC	UU	XX	XX X X
TYPE	STRUCTURE	CATEGORY/CONDUCTOR		RATING	LENGTH
CC=Copper Cord	UU=U/UTP	6R=CAT 6/Stranded/24AWG 6RG=CAT 6/Stranded/28AWG		LS=LSZH PV=PVC CR=CMR CM=CM	B=Blue G=Grey R=Red Y=Yellow 1=1m 2=2m 3=3m

Ordering Information	
Part No.	Description
VCCCUU6RPVG3	CAT 6 Unshielded Patch Cord, PVC, Grey, 3m
VCCCUU6RLSG3	CAT 6 Unshielded Patch Cord, LSZH, Grey, 3m
VCCCUU6RCMB3	CAT 6 Unshielded Patch Cord, CM, Blue, 3m
VCCCUU6RCRB3	CAT 6 Unshielded Patch Cord, CMR, Blue, 3m
VCCCUU6RGLSB1	CAT 6 Unshielded Slim Patch Cord, LSZH, Blue, 3m
VCCCUU6RGLSB3	CAT 6 Unshielded Slim Patch Cord, LSZH, Blue, 3m

Copper Cabling System / CAT 5e Shielded Solutions

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INTRODUCTION



CAT 5e system supports the most demanding high-end applications with performance beyond the Category 5e standard. Vivanco CAT5e end-to-end shielded solutions consists of cables, patch panels, patch cords and information outlets/jacks. The CAT5e system offers superior electrical performance, while meeting Class D requirements.

- Independently certificated by 3rd party test labs
- Meet and exceed ISO/IEC 11801, IEC 61156-5, ANSI/TIA/EIA-568.2-D Class D standards
- Excellent suppression of cross talk (NEXT)

CAT 5e Cable

- Unique shielded design
- 24 AWG cable

Patch Panel

- Exceed all TIA 568.2-D component performance
- Patented and removable shielded IO
- Rear cable manager
- Available in 24(1U)/48 ports(2U)
- All the accessories included

Keystone Jack

- Exceed all TIA 568-C.2 component performance
- Patented design, applicable for cables with a wide range of diameters
- 360° fully shielded
- Toolless termination

Patch Cord

- Exceed all TIA 568.2-D component performance
- Shielded design offers good cross talk performance
- Stranded conductors improve flexibility and bending performance
- Strain relief protection boots for stable performance and long-term durability
- Available in customized lengths and colors



Copper Cabling System / CAT 5e F/UTP, Cable, Shielded

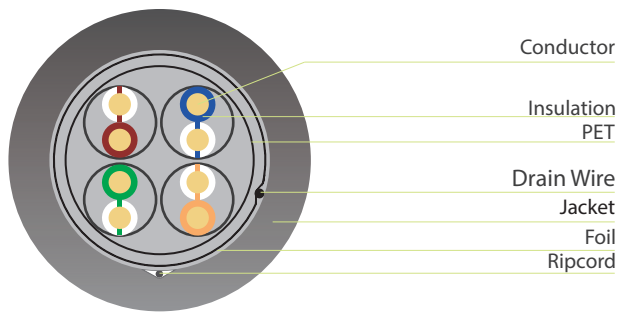
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Copper Cabling System / CAT 5e F/UTP, Cable, Shielded

VIVANCO

Your Right Connection



Conductor

Insulation
PET

Drain Wire
Jacket

Foil
Ripcord

Applications

- 1000Base-T Applications
- Data cable for structured premises cabling up to class D and Category 5e applications
- Digital and analog voice, video and data signal transmission

Construction

Conductor	Material	Solid Bare Copper
	Diameter	24 AWG
Insulation	Material	HDPE
	Color	White-Blue / Blue White-Orange / Orange White-Green / Green White-Brown / Brown
Shielded	Material	Foil
Jacket	Material	PVC, LSZH, CM, CMR, PE
	Diameter	6.2±0.3mm

Standard Compliance

- ISO/IEC 11801
- ANSI/TIA/EIA-568.2-D
- IEC 61156-5
- EN50399
- EN50173-1

Features & Benefits

- Cross filler inside to offer better crosstalk and impedance performance
- Aluminum foil shielded
- Frequency 1-100MHZ, extended to 350Mhz
- Available in a variety of LSZH flame retardant cables
- Durable length markings to reduce waste of cable

Electrical Performance

DC Resistance	<9.38Ω/100m
Mutual Capacitance	≤5.6nF/100m
Impedance	1~100MHz100±15Ω
NVP	67%
Delay Skew	≤45ns/100m

Physical Performance

Pulling Tension	110N
Min. Bend Radius	8 x cable diameter
Installation and Storage Temperature	0~60°C (32~140°F)
Operating Temperature	-20~60°C (-4~140°F)

Transmission Performance

FREQUENCY	RL	IL	DoP	Skew	NEXT	PSNEXT	ACR-F	PSAACR-F
	Min.	Max.	Max.	Max.	Min.	Min.	Min.	Min.
(MHz)	(dB)	(dB/100M)	(ns)	(ns)	(dB)	(dB)	(dB)	(dB)
1	20	2.1	570	45	65.3	62.3	63.8	60.8
4	23	4.1	552	45	56.3	53.3	51.8	48.8
10	25	6.5	545	45	50.3	47.3	43.8	40.8
16	25	8.3	543	45	47.2	44.2	39.7	36.7
20	25	9.3	542	45	45.8	42.8	37.8	34.8
31.25	23.6	11.7	540	45	42.9	39.9	33.9	30.9
62.5	21.5	17.0	538	45	38.4	35.4	27.9	24.9
100	20.1	22.0	537	45	35.3	32.3	23.8	20.8

Name Coding

VC		CA		FU		54		XX		X	X
TYPE		STRUCTURE		CATEGORY/PAIR		RATING		COLOR		LENGTH	
CA=Copper Cable		FU=F/UTP		54=CAT 5e, 4 Pair		CR=CMR		B=Blue		3=305m	
						CM=CM		G=Grey			
						LS=LSZH		K=Black			
						PV=PVC		P=Purple			
						PE=PE(outdoor)					

Ordering Information

Part No.	Description
VCCAFU54PVG3	CAT 5e F/UTP Shielded Cable, PVC, Grey, 305m/Drum
VCCAFU54LSP3	CAT 5e F/UTP Shielded Cable, LSZH, Purple, 305m/Drum
VCCAFU54PEK3	CAT 5e F/UTP Shielded Cable, PE, Black, 305m/Drum



Copper Cabling System / CAT 5e Keystone Jack, Shielded

VIVANCO
Your Right Connection

Standard Compliance

- ANSI/TIA 568.2-D Category 5e
- ISO/IEC 11801 Class D

Features & Benefits

- Meet and exceed Category 5e standard performance
- Outstanding electrical performance
- 360° fully shielded design to prevent EMI
- Applicable for the cables with different diameters
- Fast and toolless termination

Electrical Performance

Dielectric Strength	DC 1000V(AC750V) 1min, no breakdown and arcing phenomena
DC Resistance	≤300 mΩ
Connecting Reactance	≤20mΩ
Insulation Resistance	Under normal atmospheric pressure ≥500 mΩ

Physical Performance

IDC	Phosphor bronze
RJ45 Pin	Phosphor bronze with 50μm gold plating
Plug Insertion	≥1000 times
IDC Insertion Life Span	≥250 times
AWG	22~26AWG
Wiring	T568A/T568B

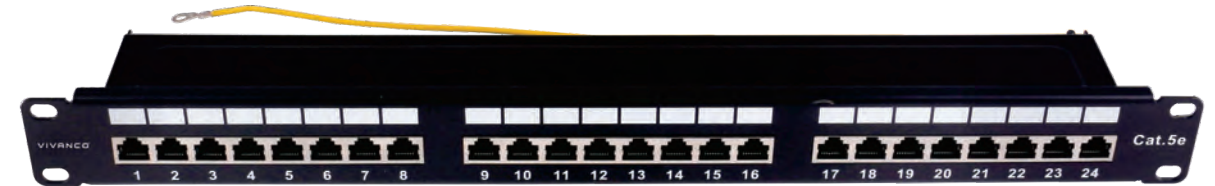
Name Coding

VC	CJ	S	N	F	5	S	X
TYPE	STRUCTURE	SHUTTER	STYLE	CATEGORY	COLOR	FUNCTION	
CJ=Copper Jack	S=Shielded	N=Non-shuttered	F=Flat	5=CAT 5e	S=Silver	A=180° Wiring	

Ordering Information

Part No.	Description
VCCJSNF5S	CAT 5e Shielded RJ45 Keystone Jack
VCCJSNF5SA	CAT 5e Shielded RJ45 Keystone Jack, 180° Wiring

Copper Cabling System / CAT 5e Patch Panel, Shielded

VIVANCO
Your Right Connection

Standard Compliance

- ANSI/TIA 568.2-D Category 5e
- ISO/IEC 11801 Class D

Features & Benefits

- Meet and exceed Category 5e standard performance
- Modular shielded design
- 360° shielded frame to guarantee grounding and prevent dust
- Convenient and clear marking
- Rear cable manager

Electrical Performance

Dielectric Strength	DC 1000V(AC750V) 1min, no breakdown and arcing phenomena
DC Resistance	≤300 mΩ
Connecting Reactance	≤20mΩ
Insulation Resistance	Under normal atmospheric pressure ≥500 mΩ

Physical Performance

IDC	Phosphor bronze
RJ45 Pin	Phosphor bronze with 50μm gold plating
Plug Insertion	≥1000 times
IDC Insertion Life Span	≥250 times
AWG	22~26AWG
Wiring	T568A/T568B

Name Coding

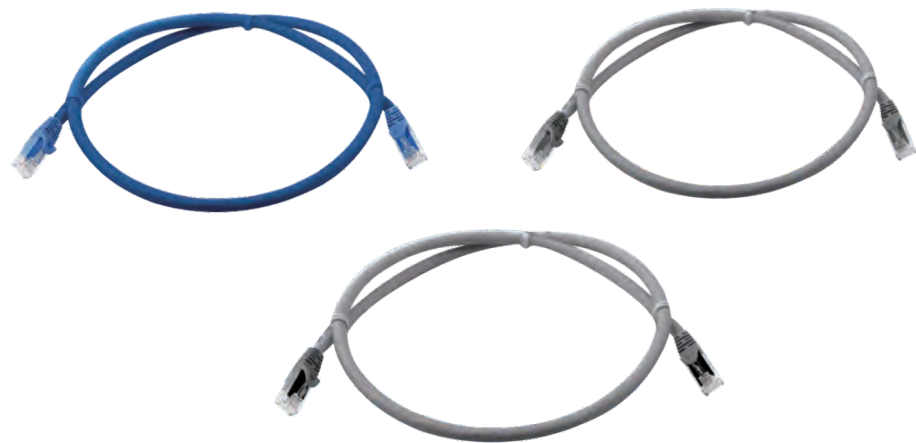
VC	CP	S	G	5	24	1	X
TYPE	STRUCTURE	STYLE	CATEGORY	PORT	HEIGHT	INSTALLATION	
CP=Copper Patch Panel	S=Shielded	G=Group	5=CAT 5e	24=24 Port	1=1U	A=Easy Installation	

Ordering Information

Part No.	Description
VCCPSG5241	CAT 5e Shielded 24 Port Patch Panel, Loaded, 1U (8 Port As One Unit)
VCCPSG5241A	CAT 5e Shielded 24 Port Patch Panel, Loaded, 1U (8 Port As One Unit, Easy Installation)
VCCPSF5241	CAT 5e Shielded 24 Port Patch Panel, Loaded, 1U
VCCPSF5241A	CAT 5e Shielded 24 Port Patch Panel, Loaded, 1U(Easy Installation)



Copper Cabling System / CAT 5e Patch Cord, Shielded

VIVANCO
Your Right Connection

Standard Compliance

- ISO/IEC 11801
- ANSI/TIA/EIA-568.2-D
- IEC 61156-6

Features & Benefits

- 1000 Base-T Ethernet applications
- Stranded conductors for flexibility and bending performance
- Strain relief protection boots
- Gold-plated pins design to reduce NEXT
- Available in different colors and lengths

Cable Construction

- F/UTP, SF/UTP
- 26AWG

Name Coding

VC CC FU 5R XX X X					
TYPE	STRUCTURE	CATEGORY/CONDUCTOR	RATING	COLOR	LENGTH
CC=Copper Cord	FU=F/UTP	5R=CAT 5e, Stranded	CR=CMR	B=Blue	1=1m
			CM=CM	G=Grey	2=2m
			LS=LSZH	R=Red	3=3m
			PV=PVC	Y=Yellow	5=5m

Ordering Information

Part No.	Description
VCCCFU5RPVG3	CAT 5e Shielded Patch Cord, PVC, Grey, 3m
VCCCFU5RLSG3	CAT 5e Shielded Patch Cord, LSZH, Grey, 3m
VCCCFU5RCMB3	CAT 5e Shielded Patch Cord, CM, Blue, 3m
VCCCFU5RCRB3	CAT 5e Shielded Patch Cord, CMR, Blue, 3m



Copper Cabling System / CAT 5e Unshielded Solutions

VIVANCO
Your Right Connection

INTRODUCTION



CAT 5e system supports the most demanding high-end applications with performance beyond the Category 5e standard. Vivanco CAT5e end-to-end unshielded solutions consists of cables, patch panels, patch cords and information outlets/jacks. The CAT5e system offers superior electrical performance, while meeting Class D requirements.

- Independently certificated by 3rd party test labs
- Meet and exceed ISO/IEC 11801, IEC 61156-5, ANSI/TIA/EIA-568.2-D Class D
- Excellent suppression of cross talk(NEXT)

CAT 5e Cable

- Unique unshielded design
- 24 AWG

Patch Panel

- Exceed all TIA 568.2-D component performance
- Modular design
- Available in 24(1U)and 48 ports(2U)
- Rear cable manager
- All the accessories included

Keystone Jack

- Exceed all TIA 568.2-D component performance
- 180° IDC design for easy installation
- Available in different colors

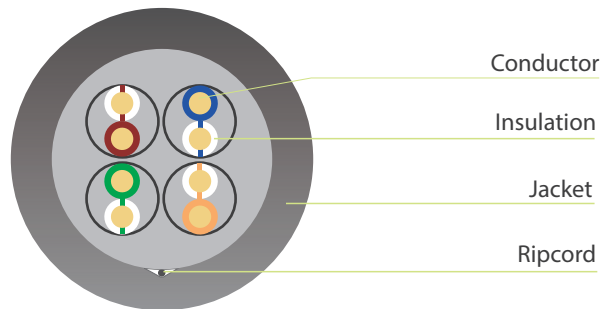
Patch Cord

- Exceed all TIA 568.2-D component performance;
- Stranded conductors improve flexibility and bending performance
- Strain relief protection boots for stable performance and long-term durability
- Available in customized lengths and colors



Copper Cabling System / CAT 5e U/UTP Cable, Unshielded

VIVANCO
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Conductor
Insulation
Jacket
Ripcord

Applications

- 1000Base-T applications
- Data cable for structured premises cabling up to class D and CAT5e applications
- Digital and analog voice, video and data signal transmission

Construction

Conductor	Material	Solid Bare Copper
	Diameter	24 AWG
Insulation	Material	HDPE
	Color	White-Blue / Blue White-Orange / Orange White-Green / Green White-Brown / Brown
Jacket	Material	PVC, LSZH, CM, CMR, PE
	Diameter	5.1±0.3mm

Standard Compliance

- ISO/IEC 11801
- ANSI/TIA/EIA-568.2-D
- IEC 61156-5
- EN50173-1

Features & Benefits

- Frequency 1-100MHZ, extended to 350Mhz
- Available in a variety of LSZH flame retardant cables
- Durable length markings to reduce waste of cable

Copper Cabling System / CAT 5e U/UTP Cable, Unshielded

VIVANCO
Your Right Connection

Electrical Performance

DC Resistance	<9.38Ω/100m
Mutual Capacitance	≤5.6nF/100m
Impedance	1~100MHz100±15Ω
NVP	69%
Delay Skew	≤45ns/100m

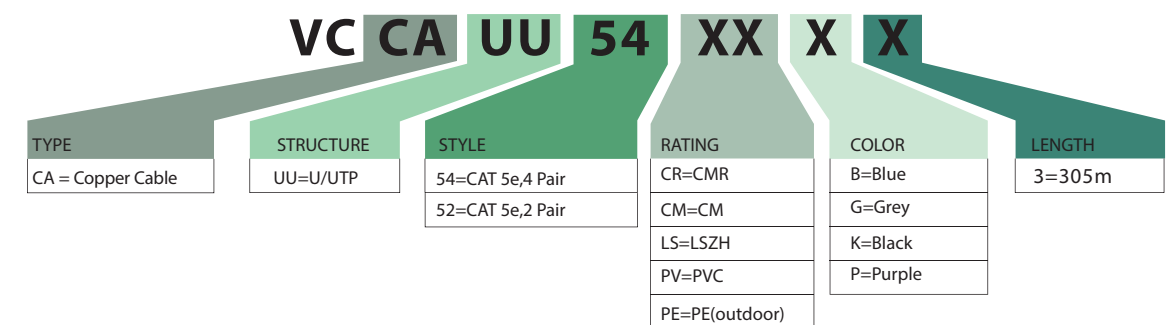
Physical Performance

Pulling Tension	110N
Min. Bend Radius	8 x cable diameter
Installation and Storage Temperature	0~60°C (32~140°F)
Operating Temperature	-20~60°C (-4~140°F)

Transmission Performance

FREQUENCY	RL	IL	DoP	Skew	NEXT	PSNEXT	ACR-F	PSAACR-F
	Min.	Max.	Max.	Max.	Min.	Min.	Min.	Min.
(MHz)	(dB)	(dB/100M)	(ns)	(ns)	(dB)	(dB)	(dB)	(dB)
1	20	2.1	570	45	65.3	62.3	63.8	60.8
4	23	4.1	552	45	56.3	53.3	51.8	48.8
10	25	6.5	545	45	50.3	47.3	43.8	40.8
16	25	8.3	543	45	47.2	44.2	39.7	36.7
20	25	9.3	542	45	45.8	42.8	37.8	34.8
31.25	23.6	11.7	540	45	42.9	39.9	33.9	30.9
62.5	21.5	17.0	538	45	38.4	35.4	27.9	24.9
100	20.1	22.0	537	45	35.3	32.3	23.8	20.8

Name Coding



Ordering Information

Part No.	Description
VCCAUU52PVG3	CAT 5e U/UTP Unshielded Cable, 2 Pair, PVC, Grey, 305m/Box
VCCAUU54PVG3	CAT 5e U/UTP Unshielded Cable, PVC, Grey, 305m/Box
VCCAUU54LSP3	CAT 5e U/UTP Unshielded Cable, LSZH, Purple, 305m/Box
VCCAUU54PEK3	CAT 5e U/UTP Unshielded Cable, PE, Black, 305m/Box



Copper Cabling System / CAT 5e Keystone Jack, Unshielded

VIVANCO
Your Right Connection



Standard Compliance

- ANSI/TIA/EIA-568.2-D Category 5E
- ISO 11801 Class D

Features & Benefits

- Meet and exceed Category 5e standard performance
- Special contact points to reduce crosstalk
- 45° crossover design for convenient termination and better performance
- Applicable for the cables with different diameters
- Transparent cover to prevent the dust and falling of wires

Electrical Performance

Dielectric Strength	DC 1000V(AC750V) 1min, no breakdown and arcing phenomena
DC Resistance	≤300 mΩ
Connecting Reactance	≤20mΩ
Insulation Resistance	Under normal atmospheric pressure ≥500 mΩ

Physical Performance

IDC	Phosphor bronze
RJ45 Pin	Phosphor bronze with 50μm gold plating
Plug Insertion	≥1000 times
IDC Insertion Life Span	≥250 times
AWG	22~26AWG
Wiring	T568A/T568B

Name Coding

VC	CJ	U	N	F	5	X
TYPE	STRUCTURE	SHUTTER	STYLE	CATEGORY	COLOR	
CJ=Copper Jack	U=Unshielded	N=Non-shuttered	F=Flat	5=CAT 5e	W=White K=Black	

Ordering Information

Part No.	Description
VCCJUNF5W	CAT5e, Unshielded RJ45 Keystone Jack (White)
VCCJUNF5K	CAT5e, Unshielded RJ45 Keystone Jack (Black)

Copper Cabling System / CAT 5e 24 Port Patch Panel, Unshielded

VIVANCO
Your Right Connection



Standard Compliance

- ANSI/TIA/EIA-568.2-D Category 5e
- ISO/IEC 11801 Class D

Features & Benefits

- Meet and exceed Category 5e standard performance
- Removable keystone jack
- Snap-in design for easy installation and maintenance
- Convenient and clear marking
- Available in 24ports(1U)and 48 ports(2U)

Electrical Performance

Dielectric Strength	DC 1000V(AC750V) 1min, no breakdown and arcing phenomena
DC Resistance	≤300 mΩ
Connecting Reactance	≤20mΩ
Insulation Resistance	Under normal atmospheric pressure ≥500 mΩ

Physical Performance

IDC	Phosphor bronze
RJ45 Pin	Phosphor bronze with 50μm gold plating
Plug Insertion	≥1000 times
IDC Insertion Life Span	≥250 times
AWG	22~26AWG
Wiring	T568A/T568B

Name Coding

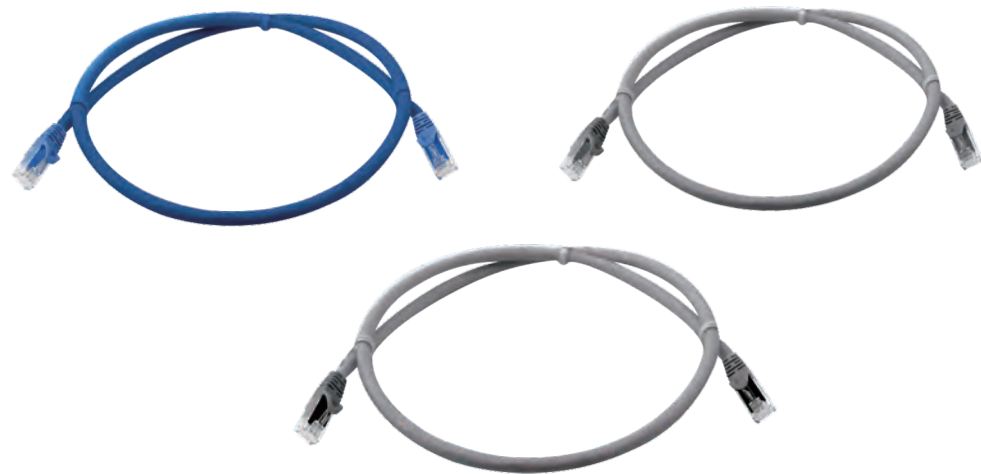
VC	CP	U	F	5	XX	X
TYPE	STRUCTURE	STYLE	CATEGORY	PORT	HEIGHT	
CP=Copper Patch Panel	U=Unshielded	F=Flat	5=CAT 5e	24=24 Port 48=48 Port	1=1U 2=2U	

Ordering Information

Part No.	Description
VCCPUF5241	CAT 5e 24 port Unshielded Patch Panel, Loaded, 1U
VCCPUF5482	CAT 5e 48 port Unshielded Patch Panel, Loaded, 2U



Copper Cabling System / CAT 5e Patch Cord, Unshielded

VIVANCO
Your Right Connection

Standard Compliance

- ISO/IEC 11801
- ANSI/TIA/EIA-568.2-D
- IEC 61156-6

Features & Benefits

- 1000 Base-T Ethernet applications
- Stranded conductors for flexibility and bending performance
- Strain relief protection boots
- Gold-plated pins design to reduce NEXT
- Available in different colors and lengths

Cable Construction

- U/UTP
- 24 AWG

Name Coding

VC CC UU 5R XX X X					
TYPE	STRUCTURE	CATEGORY/CONDUCTOR	RATING	COLOR	LENGTH
CC=Copper Cord	UU=U/UTP	5R=CAT 5e, Stranded	CR=CMR	B=Blue	1=1m
			CM=CM	G=Grey	2=2m
			LS=LSZH	R=Red	3=3m
			PV=PVC	Y=Yellow	5=5m

Ordering Information

Part No.	Description
VCCCUU5RPVG3	CAT 5e Unshielded Patch Cord, PVC, Grey, 3m
VCCCUU5RLSG3	CAT 5e Unshielded Patch Cord, LSZH, Grey, 3m
VCCCUU5RCMB3	CAT 5e Unshielded Patch Cord, CM , Blue, 3m
VCCCUU5RCRB3	CAT 5e Unshielded Patch Cord, CMR , Blue, 3m



Copper Cabling System / Voice Solutions

VIVANCO
Your Right Connection

INTRODUCTION



Vivanco offers a versatile CAT 5 110 based system to complement our patch panel systems for voice and high-speed applications, an end-to-end solution consisting of multi-pair cable including 4 pair, 25 pair, 50 pair and 100 pair, patch panel and keystone jacks.

Cable

- Voice and data applications
- Available in 2 pair, 4 pair, 25 pair, 50 pair, 100 pair cat5e/cat3 standards
- Excellent performance and electrical characteristics

Keystone Jack

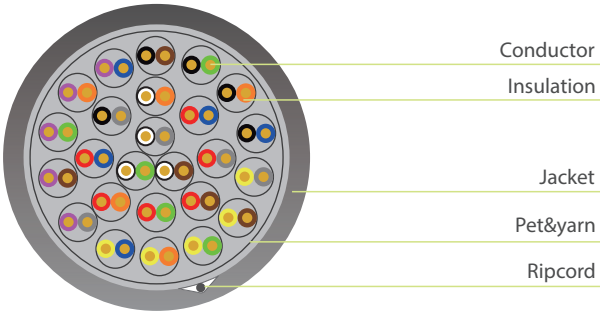
- Gold-plated pins improve the performance, prevent surface Oxidation and prolong service life
- Special cover prevents the dust and falling of wires
- 32 degree crossover design for better clamping of conductors
- Clear line sequence identification for convenient installation and maintenance



Patch Panel

- 19" standard installation
- Universal RJ45 ports
- Removable keystone jacks
- Each jack with back dust cover
- Available in 25 ports(1U) and 50 ports(2U)





Applications

- Indoor cabling
- Class D and CAT5 applications
- Digital and analogue voice signal transmission

Construction		
Conductor	Material	Solid Bare Copper
	Diameter	24 AWG
Insulation	Material	HDPE
Pair	25, 50, 100	
Jacket	Material	PVC, LSZH, CM, CMR, PE
	Diameter	25 pair: 11±0.5mm 50 pair: 15.5±0.5mm 100 pair: 20±0.5mm

Compliance

- ANSI/ICEA S-90-661
- TIA/EIA-568.2-D

Features & Benefits

- Low propagation delay deviation
- High-quality insulations for single conductors
- Durable length markings to reduce waste of cable

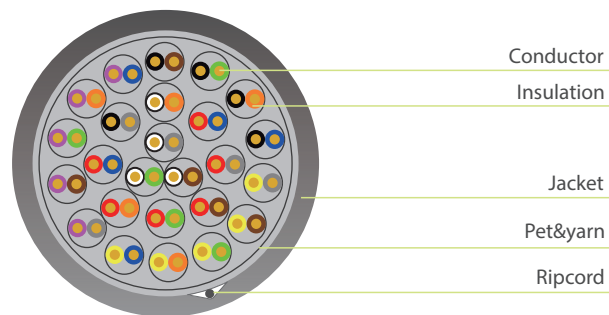
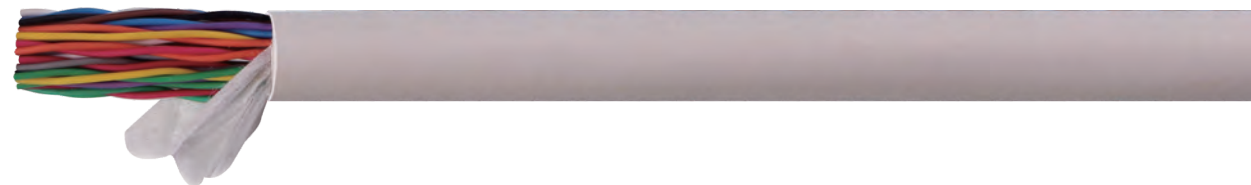


Ordering Information

Part No.	Description
VCCAUU5025PVG3	CAT 5 U/UTP 25 Pair Backbone Cable, PVC, Grey, 305m/Drum
VCCAUU5050PVG3	CAT 5 U/UTP 50 Pair Backbone Cable, PVC, Grey, 305m/Drum
VCCAUU5100PVG3	CAT 5 U/UTP 100 Pair Backbone Cable, PVC, Grey, 305m/Drum



Copper Cabling System / CAT 3 U/UTP 25,50,100Pair Cable, Unshielded

VIVANCO
Your Right Connection

Applications

- Indoor cabling
- Class D and CAT3 applications
- Digital and analogue voice signal transmission

Construction

Conductor	Material	Solid Bare Copper
	Diameter	26 AWG
Insulation	Material	HDPE
Pair	Number	25, 50, 100
Jacket	Material	PVC, LSZH, CM, CMR, PE
	Diameter	25 pair: 9±0.5mm
		50 pair: 12±0.5mm 100 pair: 16.5±0.5mm

Standard Compliance

- ANSI/ICEA S-90-661
- TIA/EIA-568.2-D

Features & Benefits

- Low propagation delay deviation
- High-quality insulations for single conductors
- Durable length markings to reduces waste of cable

Copper Cabling System / CAT 3 U/UTP 25, 50,100Pair Cable, Unshielded

VIVANCO
Your Right Connection

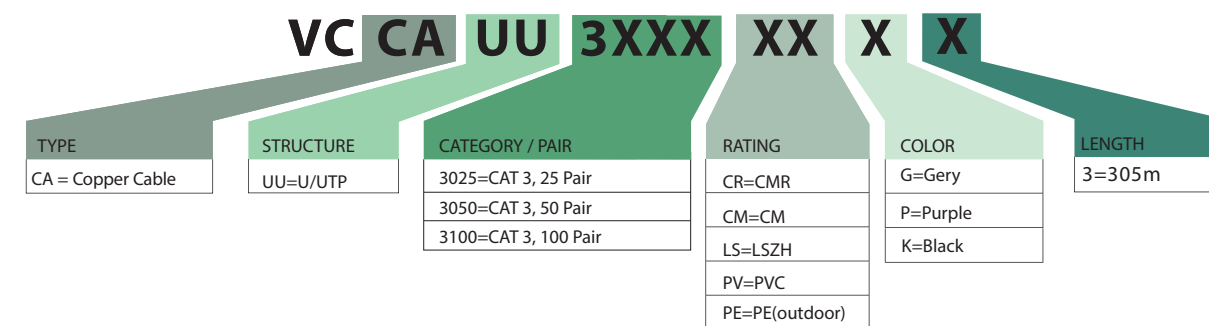
Electrical Performance

DC Resistance	<14.8Ω/100m
Mutual Capacitance	≤5.6nF/100m
Impedance	1~100MHz100±15Ω
Delay Skew	≤45ns/100m

Physical Performance

Min. Bend Radius	8 x cable diameter
Installation and Storage Temperature	0~60°C (32~140°F)
Operating Temperature	-20~60°C (-4~140°F)

Name Coding

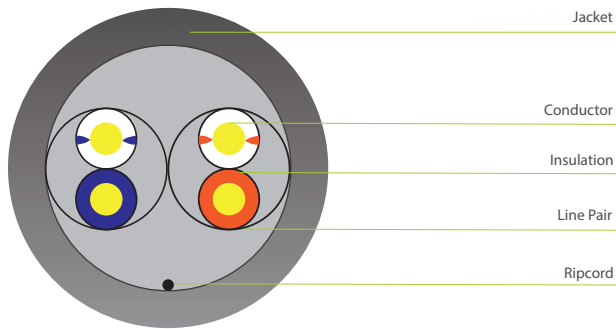


Ordering Information

Part No.	Description
VCCAUU3025PVG3	CAT 3 U/UTP 25 Pair Backbone Cable, PVC, Grey, 305m/Drum
VCCAUU3050PVG3	CAT 3 U/UTP 50 Pair Backbone Cable, PVC, Grey, 305m/Drum
VCCAUU3100PVG3	CAT 3 U/UTP 100 Pair Backbone Cable, PVC, Grey, 305m/Drum



Copper Cabling System / CAT 3 U/UTP 2 Pair Cable, Unshielded

VIVANCO
Your Right Connection

Applications

- Indoor cabling
- CAT3 applications
- Digital and analogue voice signal transmission

Construction

Conductor	Material	Solid Bare Copper
	Diameter	26 AWG
Insulation	Material	HDPE
	Color	White-Blue / Blue White-Orange / Orange
Jacket	Material	PVC
	Diameter	3.8±0.3mm

Standard Compliance

- ISO/IEC 11801
- TIA/EIA-568.2-D

Features & Benefits

- Small diameter for easy installation
- High-quality insulations for single conductors
- Durable length markings to reduce waste of cable

Electrical Performance

DC Resistance	<14.8Ω/100m
Mutual Capacitance	≤ 5.6nF/100m
Impedance	1~16MHz100±15Ω
Delay Skew	≤45ns/100m

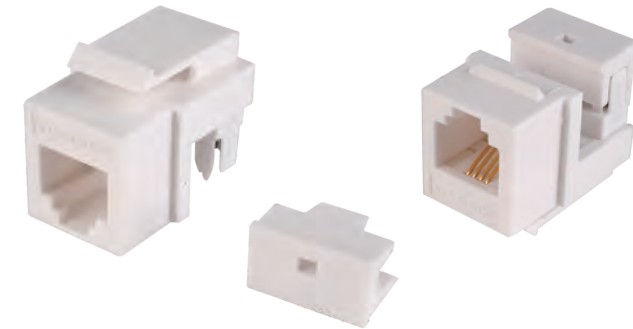
Physical Performance

Min. Bend Radius	8 x cable diameter
Installation and Storage Temperature	0~60°C (32~140°F)
Operating Temperature	-20~60°C (-4~140°F)

Ordering Information

Part No.	Description
VCCTUU32PVG3	CAT3 U/UTP 2 Pair Cable, Unshielded, Grey, 305m/Box

Copper Cabling System / CAT 3 U/UTP Keystone Jack

VIVANCO
Your Right Connection

Standard Compliance

- ISO/IEC 11801
- ANSI/TIA 568.2-D

Features & Benefits

- Gold-plated pins to improve the performance, prevent surface Oxidation and prolong service life
- Special cover prevents the dust and falling of wires
- 32 degree crossover design for better clamping of conductors
- Clear line sequence identification for convenient installation and maintenance

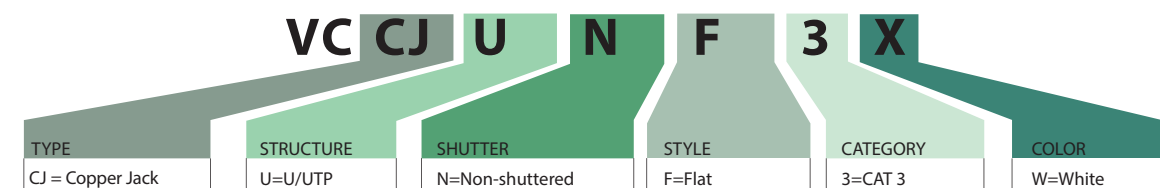
Electrical Performance

Rated Current	1.5 Amp
Insulation Resistance	Under normal atmospheric pressure ≥500 mΩ

Physical Performance

IDC	Phosphor bronze
RJ45 Pin	Phosphor bronze with 50μm gold plating
Plug Insertion	≥1000 times
IDC Insertion Life Span	≥250 times
AWG	22~26AWG
Operating Temperature	-25°C~60°C

Name Coding



Ordering Information

Part No.	Description
VCCJUNF3W	CAT3 U/UTP Keystone Jack



Copper Cabling System / Voice Patch Panel, Unshielded

VIVANCO
Your Right Connection

1U



2U

Standard Compliance

- ISO/IEC 11801
- ANSI/TIA/EIA 568.2-D

Features and Benefits

- 19" standard installation
- Universal RJ45 ports
- Removable keystone jacks
- Each jack with back dust cover
- Available in 25 ports(1U) and 50 ports(2U)

Electrical Characteristics

Dielectric Strength	DC 1000V(AC750V) 1min, no breakdown and arcing phenomena
DC Resistance	≤300 mΩ
Connecting Reactance	≤20mΩ
Insulation Resistance	Under normal atmospheric ≥500 mΩ

Physical Characteristics

IDC	Phosphor bronze
RJ45 Pin	Phosphor bronze with 50μm gold Plating
Plug Insertion	≥ 1000 times
IDC Insertion Life Span	≥250 times
AWG	22~26AWG
Wiring	T568A/T568B

Name Coding

VC CP U F 3 25 X					
TYPE	STRUCTURE	STYLE	CATEGORY	PORTS	HEIGHT
CP=Copper Patch Panel	U=Unshielded	F=Flat	3=CAT 3	25=25 Port 50=50 Port	1=1U 2=2U

Ordering Information

Part No.	Description
VCCPUF3251	25 Port Voice Patch Panel, 1U
VCCPUF3502	50 Port Voice Patch Panel, 2U

Copper Cabling System / Copper Cabling Accessories

VIVANCO
Your Right Connection

INTRODUCTION

Vivanco has developed a wide range of accessories that augment customer cabling infrastructure needs. The design of these accessories are carefully crafted to assist in installation, including wall plates/face plates, back boxes for wall plates, surface mount boxes, and modular plugs.

Wall Plate

- A variety of international types optional
- Shuttered or Non-shutter available
- Different ports available

Back Box

- US type and UK type available
- Work with face plates

Surface Mount Box

- 1 to 6 ports available
- Easy and direct installation
- Ample space for cable storage

Modular Plug

- Comply with CAT3, CAT5e, CAT6 and CAT6A
- Shielded and unshielded options





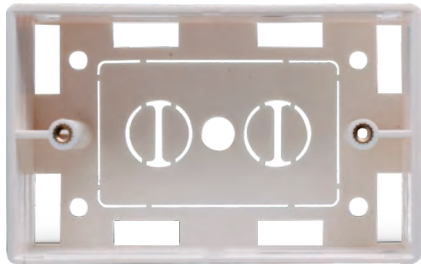
Features & Benefits

- 1/2/3/4/6 ports available
- Dimensions:114*70*9.5mm
- Assembly:19.5mm

Ordering Information	
Part No.	Description
VCA175-1E	US Faceplate, 1 Port
VCA175-2E	US Faceplate, 2 Ports
VCA175-3E	US Faceplate, 3 Ports
VCA175-4E	US Faceplate, 4 Ports
VCA175-6E	US Faceplate, 6 Ports

Features & Benefits

- Material: ABS
- Color: White, lovry



Ordering Information	
Part No.	Description
VCB311-B	Back box, 115*72*35mm



Features & Benefits

- Dust-proof shutter
- With label management
- Work with 86 back box
- Material:ABS
- Color: white

Ordering Information	
Part No.	Description
VCA10	1 Port Faceplate (With Label Management)
VCA20	2 Ports Faceplate (With Label Management)
VCA30	3 Ports Faceplate(With Label Management)
VCA40	4 Ports Faceplate(With Label Management)

Features & Benefits

- Work with 86 face plate;
- Easy installation and high durability;
- Available in different depths;
- Material: ABS
- Color: white

Ordering Information	
Part No.	Description
VCB111	Back box, 86*86*32mm
VCB121	Back box, 86*86*42mm



VCSH019

1 Port flat faceplate



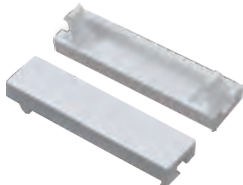
VCSH020

White keystone shutter
• Matching the standard British faceplate&keystone



VCSH016

Blank plate



VCSH017

Blank plate

Ordering Information	
Part No.	Description
VCSH019	1 Port UK Face plate, 86*86mm, for 25*50mm UK Keystone Shutter
VCSH020	Keystone shutter, 25*50mm, White, British
VCSH016	Blank Plate, 25*50mm
VCSH017	Blank Plate, 12.5*50mm

VCSH018

Face plate



VCSH036

Face plate



VCSH021

White keystone shutter



Ordering Information	
Part No.	Description
VCSH018	1 Port Face plate, 86*86mm, for 39*25mm UK Keystone Shutter
VCSH036	2 Port Face plate, 86*86mm, for 39*25mm UK Keystone Shutter
VCSH021	Keystone shutter, White, British 39*25mm

Features & Benefits

- For UTP RJ-45 Keystone Jack
- 1,2,4,6 port available
- Material: ABS
- Color: white

SURFACE MOUNT BOX

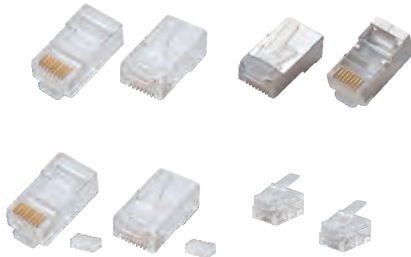


Ordering Information	
Part No.	Description
VCB211	1 Port Surface Mount Box
VCB221	2 Port Surface Mount Box
VCB241	4 Port Surface Mount Box
VCB261	6 Port Surface Mount Box

Features & Benefits

- Comply with FCC and UL E136825
- T568A and T568B available
- Durability over 1000times
- 23~26 AWG
- Flexible PC material and phosphor bronze alloy contacts

MODULAR PLUG



Ordering Information	
Part No.	Description
VCR6A1	CAT 6A Modular Plug Shielded
VCR601	CAT 6 Modular Plug Shielded
VCR600	CAT 6 Modular Plug Unshielded
VCR5E1	CAT 5e Modular Plug Shielded
VCR5E0	CAT 5e Modular Plug Unshielded
VCR300	Telephone Plug



Optical Fiber System Product Guide

Optical Fiber Cable

Indoor Cable

Drop Cable

Outdoor Cable

Optical Fiber Cable

Optical Distribution Frame

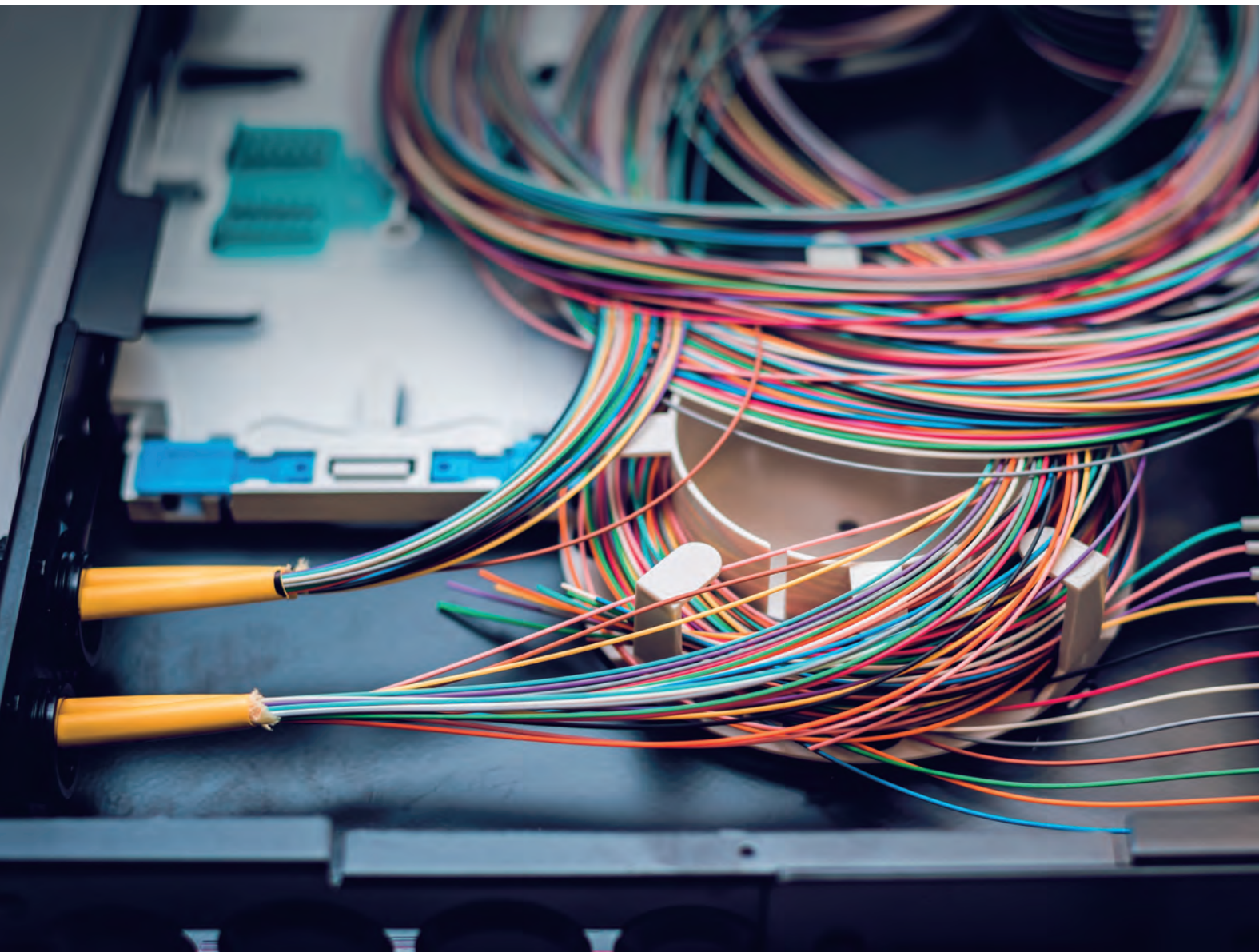
Optical Distribution Frame

Patch Cord and Pigtail Adaptor

Patch Cord and Pigtail Adaptor

Other Fiber Accessorie

Other Fiber Accessories



Optical Cabling System

Vivanco offers optical fiber cabling solutions designed to work from server rooms to desk outlets, from campus wide to data centers to meet customer requirements.

- Optical Fiber Cable----- 066
- Optical Cabling Accessories ----- 078

INTRODUCTION



- Cable**
- Indoor and outdoor cables for a variety of applications
 - Comply with IEC 60794-1, 60794-2, 60794-3
 - Optional fibers in OS1, OS2, OM2, OM3, OM4 complying with ITU-T G.651/G.652/G.657, and IEC 60793-1, 60793-2
 - Good optical, mechanical and environmental performance

- Patch panel**
- 19" Rack mounted or wall mounted options
 - 24 to 144 ports available
 - SC, LC, FC adaptors available
 - Splice tray and related accessories included

- Patch Cord and Pigtail**
- Fully comply with all the relevant standards
 - Available in different connectors and lengths
 - Available in SM or MM fibers
 - Good compatibility and performance

- Adaptor**
- Fully comply with all the relevant standards
 - Available in SM and MM
 - Precise ceramic ferrule with stringent tolerance
 - Optional SC, ST, LC, Duplex LC, FC, etc



Optical Fibers in Optical Cable

VIVANCO can provide all kinds of indoor and outdoor cables to satisfy different applications, with single-mode fiber and multimode fiber available. These fiber cables meet the following optical performances, which comply and exceed the requirement of IEC 60793, ITU-T G.651/G.652/G.655/657, and ISO/IEC 11801 standards.

Single-mode Fibers Performance						
Fiber Type		G.652D	G.657A1	G.657A2	G.657B3	G.655C
Mode Field Diameter	@1310 nm	8.6-9.5±0.6μm	8.6-9.5±0.4μm		6.3-9.5±0.4μm	Not specified
	@1550 nm		Not specified			8-11±0.7μm
Cladding Diameter		125.0±1μm	125.0±0.7μm			125.0±1μm
Cable Cut-off Wavelength		≤1260 nm				≤1450 nm
Attenuation	@1310 nm	≤0.36dB/km				Not specified
	@1550 nm	≤0.22dB/km				≤0.23dB/km
Zero Dispersion Wavelength		1300-1324nm				
Zero Dispersion Slope		≤0.092ps/(nm2·km)				
Proof Stress		≥0.69 GPa				

Multimode Fibers Performance					
Fiber Type		OM2/A1a.1	OM3/A1a.2	OM4/A1a.3	OM5/A1a.4
Cladding Diameter		125.0±1μm			
Attenuation	@850nm	≤3.5dB/km			≤3dB/km
	@1300nm	≤1.5dB/km			
Overfilled Modal Bandwidth	@850nm	≥500MHz·km	≥1500MHz·km	≥3500MHz·km	≥3500MHz·km
	@953nm	Not specified			≥1850MHz·km
	@1300nm	≥500MHz·km			
Effective Modal Bandwidth	@850nm	Not specified	≥2000MHz·km	≥4700MHz·km	4700MHz·km
	@953nm	Not specified			≥2470MHz·km
Proof Stress		≥0.69 GPa			

Color Coding in Cable

Fiber color coding

Each fiber shall be identifiable throughout the length of the cable in accordance with the following color sequence. Fiber color in each tube starts from No. 1 Blue. For indoor cables, the color of tight buffered Fiber also follows this color sequence.

Fiber Color Code	1	2	3	4	5	6
	Blue	Orange	Green	Brown	Slate	White
	7	8	9	10	11	12
	Red	Black	Yellow	Purple	Pink	Aqua

Loose tube color coding

The loose tube shall be identifiable in accordance with the following color sequence

Fiber Color Code	1	2	3	4	5	6
	Blue	Orange	Green	Brown	Slate	White
	7	8	9	10	11	12
	Red	Black	Yellow	Purple	Pink	Aqua



Applications

- Multi optical fiber jumper
- Indoor cable distribution
- Backbone distribution cable in buildings

Features & Benefits

- Tight buffered fiber, easy for stripping
- Aramid yarn as strength member for excellent tensile strength performance
- All dielectric structure to prevent it from electromagnetic influence
- Light weight, high flexibility, small bending radius and excellent performance

Standard Compliance

- ISO/IEC 11801
- ITU-T G.651/G.652/G.657
- IEC 60793-1
- IEC 60793-2
- IEC 60794-1
- IEC 60794-2

Construction

Fiber Type	G.652D/OM1/OM2/OM3/OM4	
Fiber Core	1~48	
Tight Buffered	Material	PVC
	Diameter	0.9mm
Strength Member	Aramid Yarn	
Sheath	Material	LSZH

Mechanical and Environmental Performance

Tensile (Long Term/Short Term) (N)	≤4 cores	70/220
	≤12 cores	200/600
Crush (Long Term/Short Term) (N/100mm)		300/1000
Bend Radius(Static/Dynamic)(D)		10/20
Installation Temperature (°C)		-10~60
Storage and Operation Temperature (°C)		-20~60

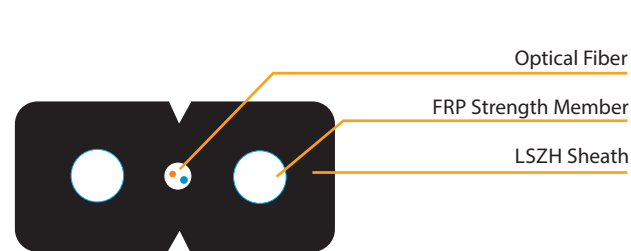
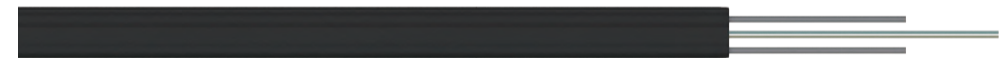
Name Coding

VC FA N T N XX YY LS						
TYPE	CATEGORY	SHEATH TYPE	ARMOR TYPE	CORES NO.	FIBRE TYPE	JACKET
FA=Fiber Cable	N=Indoor	T=Tight Buffered	N=N/A	01=1	S2=G.652D	LS=LSZH
				02=2	M1=OM1	
				04=4	M2=OM2	
					M3=OM3	
				48=48	M4=OM4	

Ordering Information

Part No.	Description
VCFANTNXXYYLS	Indoor Bundle Tight- buffered Optical Cable, LSZH Sheath, XX Core





Standard Compliance

- ISO/IEC 11801
- ITU-T G.651/G.652/G.657
- IEC 60793-1
- IEC 60793-2
- IEC 60794-1
- IEC 60794-2

Construction

Fiber Type	G.652D/G.657A1/G.657A2 /OM1/OM2/OM3/OM4	
Fiber Core	1/2/4	
Strength Member	FRP/KFRP/Steel Wire	
Sheath	Material	LSZH

Applications

- FTTH drop cable

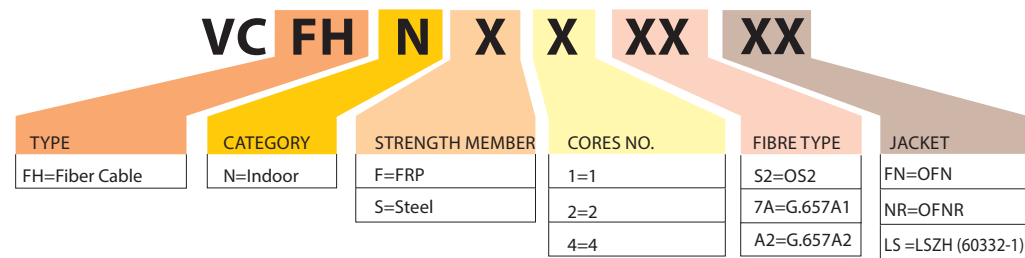
Features & Benefits

- G.657A1 or G.657A2 fiber recommended with better bending performance
- Non-metallic structure available
- Environment-friendly LSZH sheath
- Novel groove design for easy strip and splice during installation

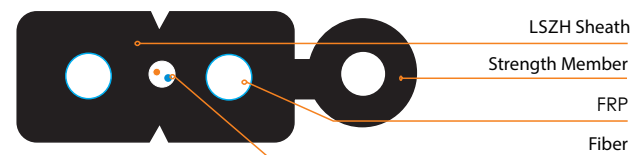
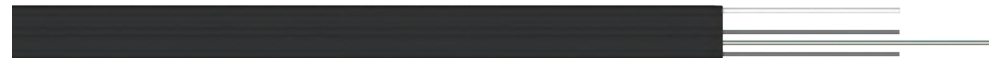
Mechanical and Environmental Performance

Tensile (Long Term/Short Term) (N)	40/80
Crush (Long Term/Short Term) (N/100mm)	500/1000
Bend Radius(Static/Dynamic) (D)	15/30
Installation Temperature (°C)	-10~60
Storage and Operation Temperature (°C)	-20~60

Name Coding



Ordering Information	
Part No.	Description
VCFHNSX7ALS	Indoor Optical Fiber Drop Cable, X Core, G.657A1, Steel, LSZH
VCFHNF7ALS	Indoor Optical Fiber Drop Cable, X Core, G.657A1, FRP, LSZH



Standard Compliance

- ISO/IEC 11801
- ITU-T G.651/G.652/G.657
- IEC 60793-1
- IEC 60793-2
- IEC 60794-1
- IEC 60794-2

Construction

Fiber Type	G.652D/G.657A1/G.657A2/OM1 /OM2/OM3/OM4	
Fiber Core	1/2/4	
Strength Member	FRP/KFRP/Steel Wire	
Messenger	Steel Wire	
Sheath	Material	LSZH

Applications

- FTTH drop cable
- Self-supporting application

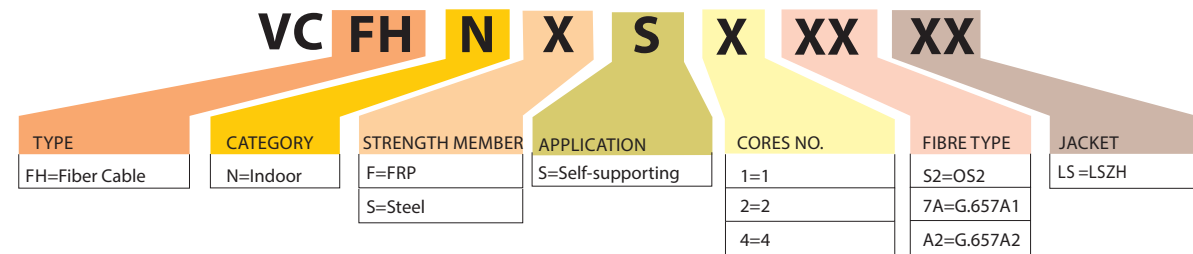
Features & Benefits

- G.657A1 or G.657A2 fiber recommended with better bending performance
- Environment-friendly LSZH sheath
- Novel groove design for easy strip and splice during installation
- Applicable for extended cable or aerial cable from outdoor to indoor

Mechanical and Environmental Performance

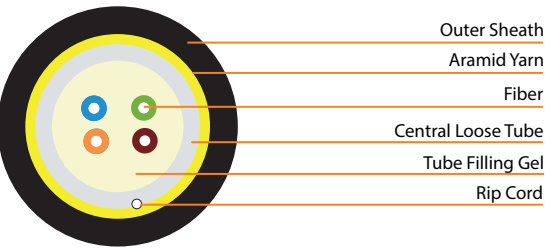
Tensile (Long Term/Short Term) (N)	300/600
Crush (Long Term/Short Term) (N/100mm)	1000/2200
Bend Radius(Static/Dynamic)(D)	15/30 (without steel wire)
Installation Temperature (°C)	-10~60
Storage and Operation Temperature (°C)	-20~60

Name Coding



Ordering Information	
Part No.	Description
VCFHNSX7ALS	Indoor/Outdoor Self-supporting Optical Fiber Drop Cable, X Core, G.657A1, Steel, LSZH
VCFHNSX7ALS	Indoor/Outdoor Self-supporting Optical Fiber Drop Cable, X Core, G.657A1, FRP, LSZH





Standard Compliance

- ISO/IEC 11801
- ITU-T G.651/G.652/G.657
- IEC 60793-1
- IEC 60793-2
- IEC 60794-1
- IEC 60794-2

Construction		
Fiber Type	G.652D/G.657A1/G.657A2/OM1/OM2/OM3/OM4	
Fiber Core	1-12	
Strength Member	Aramid Yarn	
Sheath	Material	LSZH

Applications

- FTTH drop cable

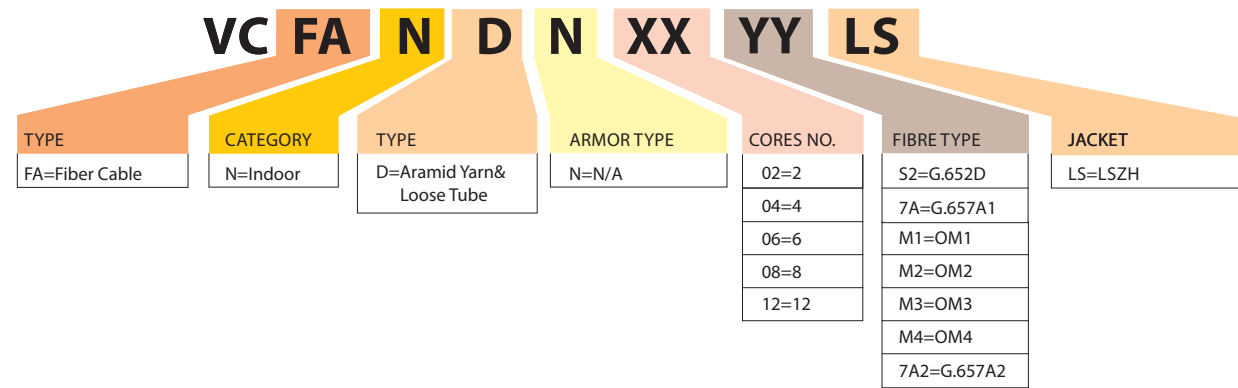
Features & Benefits

- G.657A1 or G.657A2 fiber recommended with better bending performance
- Environment-friendly LSZH sheath
- Rip cord for easy strip and splice during installation
- Tube filling gel for water blocking performance

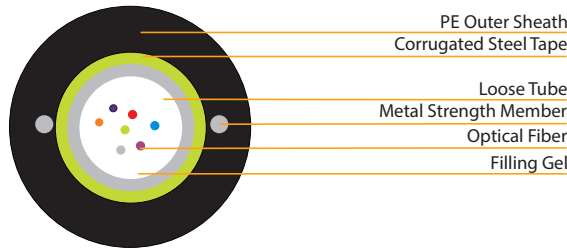
Mechanical and Environmental Performance

Tensile (Long Term/Short Term) (N)	150/500
Crush (N/100mm)	100
Bend Radius(Static/Dynamic)(D)	10/20
Installation Temperature (°C)	-10~60
Storage and Operation Temperature (°C)	-20~60

Name Coding



Ordering Information	
Part No.	Description
VCFANDNXXYYLS	Indoor/Outdoor Unitube Optical Fiber Drop Cable



Standard Compliance

- ISO/IEC 11801
- ITU-T G.651/G.652
- IEC 60793-1
- IEC 60793-2
- IEC 60794-1
- IEC 60794-3

Construction		
Fiber Type	G.652D/OM1/OM2/OM3/OM4	
Fiber Core	2-144	
Loose Tube	Material	PBT
	Max. Fiber per Tube	6/12
Strength Member	Steel Wire	
Aarmor	PSP	
Sheath	Material	PE
	Color	Black

Applications

- Duct/Aerial (not self-supporting)
- Direct Buried

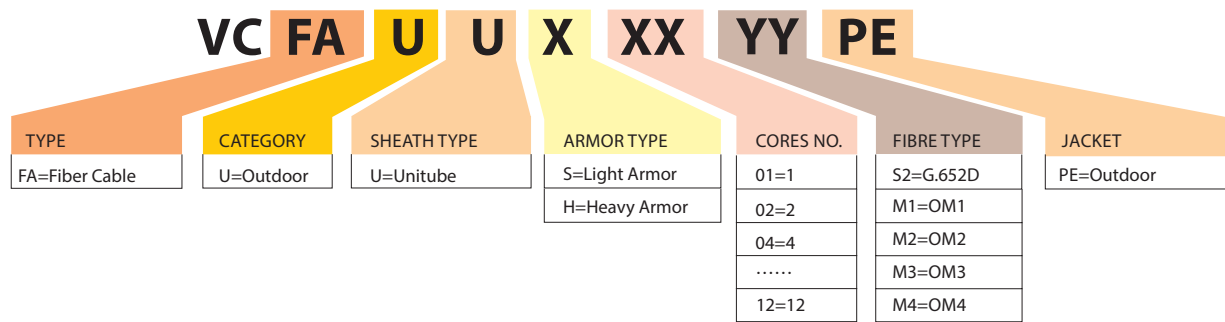
Features & Benefits

- SM or MM optical fiber performance exceed the standard
- Excellent mechanical and temperature performance
- Two parallel steel wires to offer good tensile strength
- PSP improves the moisture penetration resistance performance
- Jelly filled both in and out of the loose tube for water blocking performance
- Excellent ultraviolet prevention with PE sheath

Mechanical and Environmental Performance

Tensile (Long Term/Short Term) (N)	600/1500
Crush (Long Term/Short Term) (N/100mm)	300/1000
Bend Radius(Static/Dynamic) (MM)	10/20
Installation temperature (°C)	-30~60
Storage and Operation temperature (°C)	-40~70

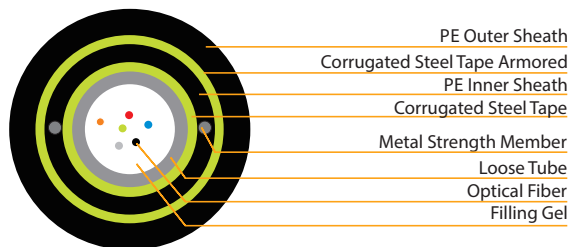
Name Coding



Ordering Information	
Part No.	Description
VCFAUUSXXYPE	Outdoor Unitube Light-armored Optical Fiber Cable, Metallic Strength Member, Jelly Filled, PE, XX Core



Optical Cabling System / Outdoor Unitube Heavy-armored Optical Fiber Cable

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Standard Compliance

- ISO/IEC 11801
- ITU-T G.651/G.652
- IEC 60793-1
- IEC 60793-2
- IEC 60794-1
- IEC 60794-3

Construction

Fiber Type	G.652D/OM1/OM2/OM3/OM4	
Fiber Core	2-144	
Loose Tube	Material	PBT
	Max. Fiber per Tube	6/12
Strength Member	Steel Wire	
1# Armor	PSP	
1# Sheath	Material	PE
	Color	Black
2# Armor	Steel Tape (PSP)	
2# Sheath	Material	PE
	Color	Black

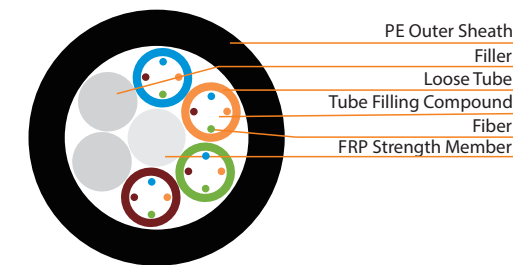
Name Coding

VC	FA	U	U	X	XX	YY	PE
TYPE	CATEGORY	SHEATH TYPE	ARMOR TYPE	CORES NO.	FIBRE TYPE	JACKET	
FA=Fiber Cable	U=Outdoor	U=Unitube	S=Light Armor H=Heavy Armor	01=1 02=2 04=4 12=12	S2=G.652D M1=OM1 M2=OM2 M3=OM3 M4=OM4	PE=Outdoor	

Ordering Information

Part No.	Description
VCFAUHXXYYPE	Outdoor Unitube Heavy-armored Optical Fiber Cable, Metallic Strength Member, Jelly Filled, PE, XX Core

Optical Cabling System / Outdoor Stranded Loose Tube Non-metallic CSM Optical Fiber Cable

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Standard Compliance

- ISO/IEC 11801
- ITU-T G.651/G.652
- IEC 60793-1
- IEC 60793-2
- IEC 60794-1
- IEC 60794-3

Construction

Fiber Type	G.652D/OM1/OM2/OM3/OM4	
Fiber Core	2-144	
Loose Tube	Material	PBT
	Max. Fiber per Tube	6/12
Central Strength Member	≤72 core	FRP
	>72 core	FRP + PE
Sheath	Material	PE
	Color	Black

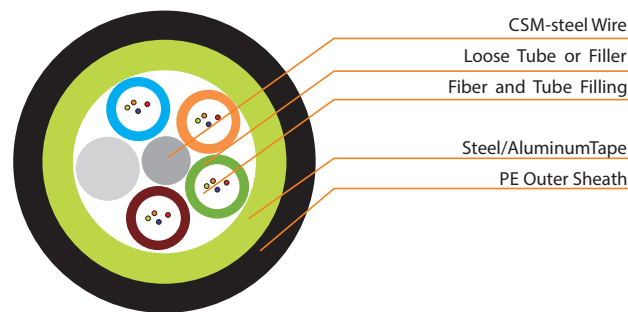
Name Coding

VC	FA	U	S	N	XX	YY	PE
TYPE	CATEGORY	SHEATH TYPE	ARMOR TYPE	CORES NO.	FIBRE TYPE	JACKET	
FA=Fiber Cable	U=Outdoor	S=Stranded Loose Tube	N=N/A	02=2 04=4 06=6 144=144	S2=G.652D M1=OM1 M2=OM2 M3=OM3 M4=OM4	PE=Outdoor	

Ordering Information

Part No.	Description
VCFAUSNXXXYYPE	Outdoor Stranded Loose Tube Non-metallic CSM Optical Fiber Cable, Jelly Filled, PE, XX Core

Optical Cabling System / Outdoor Stranded Loose Tube Optical Fiber Cable

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Standard Compliance

- ISO/IEC 11801
- ITU-T G.651/G.652
- IEC 60793-1
- IEC 60793-2
- IEC 60794-1
- IEC 60794-3

Construction		
Fiber Type	G.652D/OM1/OM2/OM3/OM4	
Fiber Core	2-144	
Loose Tube	Material	PBT
	Max. Fiber per Tube	6/12
Central Strength Member	≤72 core	Steel Wire
	>72 core	Steel Wire + PE
Armor	Steel Tape (PSP) / Aluminum Tape (APL)	
Sheath	Material	PE
	Color	Black

Applications

- Duct/Aerial (not self-supporting)

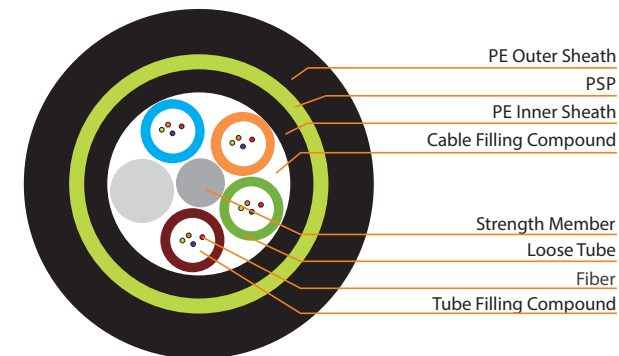
Features & Benefits

- SM or MM optical fiber performance exceeds the standard
- Excellent mechanical and temperature performance
- PSP moisture barrier
- Water-blocking compound/material filled both in and out of the loose tube
- Excellent ultraviolet prevention with PE sheath

Mechanical and Environmental Performance

Tensile (Long Term/Short Term) (N)	600/1500
Crush (Long Term/Short Term) (N/100mm)	300/1000
Bend Radius(Static/Dynamic) (D)	10/20
Installation Temperature (°C)	-30~60
Storage and Operation Temperature (°C)	-40~70

Optical Cabling System / Outdoor Stranded Loose Tube Optical Fiber Cable, Steel Armor, Double Sheaths

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Applications

- Duct/Aerial (not self-supporting)
- Direct buried

Features & Benefits

- SM or MM optical fiber performance exceeds the standard
- Steel or FRP CSM available
- PSP improves the moisture penetration resistance performance
- Water-blocking compound/material filled both in and out of the loose tube
- Excellent ultraviolet prevention with PE sheath
- Double-armored and double-sheath design for harsh environment

Standard Compliance

- ISO/IEC 11801
- ITU-T G.651/G.652
- IEC 60793-1
- IEC 60793-2
- IEC 60794-1
- IEC 60794-3

Mechanical and Environmental Performance

Tensile (Long Term/Short Term) (N)	1000/3000
Crush (Long Term/Short Term) (N/100mm)	1000/3000
Bend Radius(Static/Dynamic) (D)	12.5/25
Installation Temperature (°C)	-30~60
Storage and Operation Temperature (°C)	-40~70

Construction

Fiber Type	G.652D/OM1/OM2/OM3/OM4	
Fiber Core	2-144	
Loose Tube	Material	PBT
	Max. Fiber per Tube	6/12
Central Strength Member	≤72 core	Steel Wire / FRP
	>72 core	Steel Wire + PE / FRP + PE
Inner Sheath	Material	PE
	Color	Black
Armor	Steel Tape (PSP)	
Outer Sheath	Material	PE
	Color	Black

Name Coding

VC	FA	U	S	X	X	XX	YY	PE
TYPE	CATEGORY	SHEATH TYPE	CSM	ARMOR TYPE	CORES NO.	FIBRE TYPE	JACKET	
FA=Fiber Cable	U=Outdoor	S=Stranded Loose Tube	S=Steel N=FRP	H=Heavy Armor	02=2 04=4 06=6 144=144	S2=G.652D M1=OM1 M2=OM2 M3=OM3 M4=OM4	PE=Outdoor	

Ordering Information

Part No.	Description
VCFAUSSHXXYYPE	Outdoor Stranded Loose Tube Optical Fiber Cable, Steel CSM, Steel Armor, Jelly Filled, Double PE Sheaths
VCFAUSNHXXYYPE	Outdoor Stranded Loose Tube Optical Fiber Cable, FRP CSM, Steel Armor, Jelly Filled, Double PE Sheaths

Name Coding

VC	FA	U	S	X	XX	YY	PE
TYPE	CATEGORY	SHEATH TYPE	ARMOR TYPE	CORES NO.	FIBRE TYPE	JACKET	
FA=Fiber Cable	U=Outdoor	S=Stranded Loose Tube	S=Steel Tape A=Aluminum Tape	02=2 04=4 06=6 144=144	S2=G.652D M1=OM1 M2=OM2 M3=OM3 M4=OM4	PE=Outdoor	

Ordering Information

Part No.	Description
VCFAUSSHXXYYPE	Outdoor Stranded Loose Tube Optical Fiber Cable, Steel Armor, Jelly Filled, PE, XX Core
VCFAUSAXXXYYPE	Outdoor Stranded Loose Tube Optical Fiber Cable, Aluminum Armor, Jelly Filled, PE, XX Core



Optical Cabling Accessories / 19" Optical Fiber Patch Panel, Universal

Compliance

- ISO/IEC11801
- ANSI/TIA/EIA 568-C.3

Features & Benefits

- Metal structure provides protection for fiber termination and adaptor installation
- 19" standard design, for various kinds of cabinets installation
- Compact structure, small size, light-weight
- Fast Fiber installation, excellent fusion and bending space
- Suitable for SC/FC/LC/ST adaptors
- Blank adaptors included



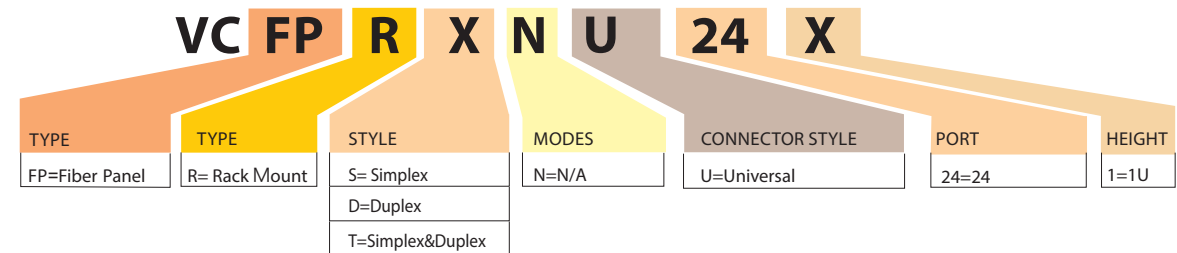
Construction

Material	SPCC
Surface	Spray
Maximum bending space(mm)	≥ 30
Max Fiber Count	96

Optical Performance

Insertion Loss(dB)	≤0.3
Return Loss(dB)	≥45

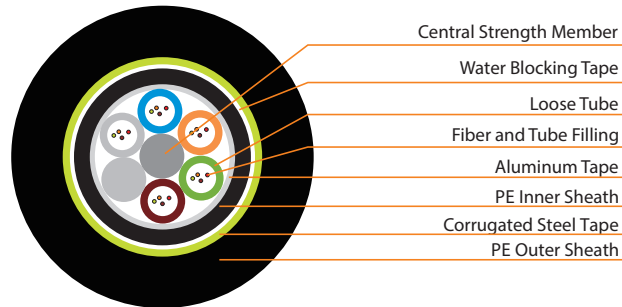
Name Coding



Ordering Information

Part No.	Description
VCFPRTNU241	24 Port Optical Fiber Patch Panel (Universal for ST, FC, SC, LC Duplex, Unloaded, Without Rail,1U)

Optical Cabling System / Outdoor Stranded Loose Tube Optical Fiber Cable, Aluminum Armor, Double Sheaths



Standard Compliance

- ISO/IEC 11801
- ITU-T G.651/G.652
- IEC 60793-1
- IEC 60793-2
- IEC 60794-1
- IEC 60794-3

Construction

Fiber Type	G.652D/OM1/OM2/OM3/OM4	
Fiber Core	2-144	
Loose Tube	Material	PBT
	Max. Fiber per Tube	6/12
Central Strength Member	≤72 core	Steel / FRP
	> 72 core	Steel / FRP + PE
1# Armor	Aluminum Tape (APL)	
Inner Sheath	Material	PE
	Color	Black
2# Armor	Steel Tape (PSP)	
Outer Sheath	Material	PE
	Color	Black

Applications

- Duct/Aerial (not self-supporting)
- Direct buried

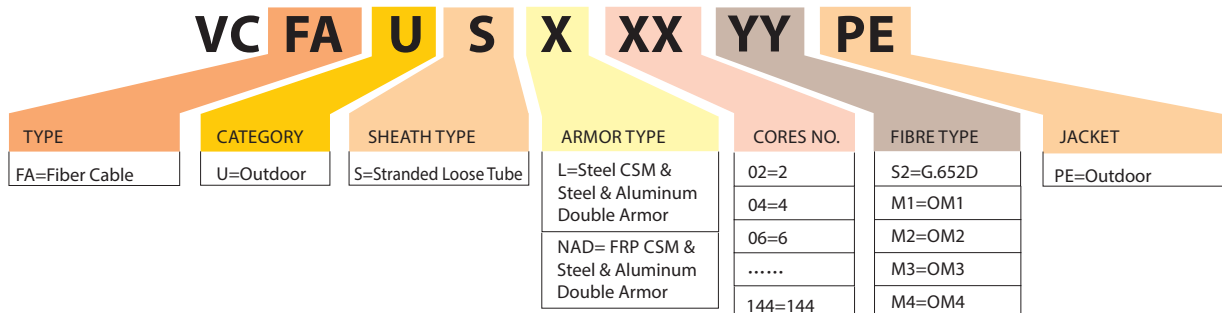
Features & Benefits

- SM or MM optical fiber performance exceed the standard
- Steel or FRP CSM available
- Excellent mechanical and temperature performance
- APL and PSP improve the moisture penetration resistance performance
- Water-blocking compound/material filled both in and out of the loose tube
- Excellent ultraviolet prevention with PE sheath
- Double-armored and double-sheathed design for harsh environments

Mechanical and Environmental Performance

Tensile (Long Term/Short Term) (N)	1000/3000
Crush (Long Term/Short Term) (N/100mm)	1000/3000
Bend Radius(Static/Dynamic) (D)	12.5/25
Installation Temperature (°C)	-30~60
Storage and Operation Temperature (°C)	-40~70

Name Coding



Ordering Information

Part No.	Description
VCFAUSLXXYYPE	Outdoor Stranded Loose Tube Optical Fiber Cable, Steel CSM, Steel & Aluminum Double Armor, Jelly Filled, Double PE Sheaths
VCFAUSNADXXYYPE	Outdoor Stranded Loose Tube Optical Fiber Cable, FRP CSM, Steel & Aluminum Double Armor, Jelly Filled, Double PE Sheaths



Optical Cabling Accessories / 19" Optical Fiber Patch Panel with Splice Tray

VIVANCO
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Compliance

- ISO/IEC11801
- ANSI/TIA/EIA 568-C.3

Features & Benefits

- Metal structure provides protection for fiber termination and adaptor installation
- 19" standard design, for various kinds of cabinets installation
- Compact structure, small size, light weight
- Fast fiber installation, sufficient fusion and bending space
- Suitable for SC simplex, LC duplex and SC duplex adaptor
- Flexible access to optical fiber, plenty of fiber storage space



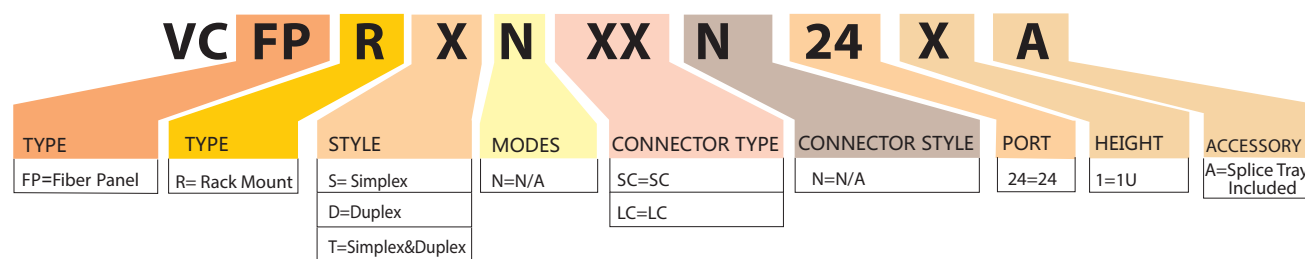
Construction

Material	SPCC
Surface	Spray
L*W*H(mm)	482.6*204*44.5

Optical Performance

Insertion Loss(dB)	≤0.3
Return Loss(dB)	≥35

Name Coding



Ordering Information

Part No.	Description
VCFPRDN5CN241A	24 Port Optical Fiber Patch Panel (For 48 Core Duplex SC, Adaptor Unloaded, with Splice Tray,1U)
VCFPRDNL5CN241A	24 Port Optical Fiber Patch Panel (For 48 Core Duplex LC, Adaptor Unloaded, with Splice Tray,1U)
VCFPR5N5CN241A	24 Port Optical Fiber Patch Panel (For 24 Core Simplex SC, Adaptor Unloaded, with Splice Tray,1U)

Optical Cabling Accessories / 19" Optical Fiber Patch Panel, Rail Type

VIVANCO
Your Right Connection

Compliance

- ISO/IEC11801
- ANSI/TIA/EIA 568-C.3

Features & Benefits

- 19" standard design for various kinds of cabinets installation
- Metal structure provides protection for fiber termination and adaptor installation
- Compact structure, small size, light weight
- Fast fiber installation, sufficient fusion, bending and storage space
- Suitable for SC/FC/LC/ST adaptors, and plastic cap available for unused ports
- Rail type for easy operation and maintenance
- 4 sets of 6 ports or 12 ports adaptor module or blank adaptor module, maximum 96 cores LC Duplex



Construction

Material	SPCC
Surface	Spray
Adaptor Module	ABS
Size(mm)	485*44*340
Maximum Bending Space (mm)	≥30
Max Fiber Count	96
Adapter	SC, FC, ST, LC (duplex), SC (duplex)

Optical Performance

Insertion Loss(dB)	≤0.3
Return Loss(dB)	≥45

Ordering Information

Part No.	Description
VCFPST-1U	1U Rail-type Fiber Patch Panel (Adaptor Module Unloaded)
VCFPST-3U	3U Rail-type Fiber Patch Panel (Adaptor Module Unloaded)
VCFPST-6FCS	6 Core FC SM Adaptor Module
VCFPST-6FCM	6 Core FC MM Adaptor Module
VCFPST-6STS	6 Core ST SM Adaptor Module
VCFPST-6STM	6 Core ST MM Adaptor Module
VCFPST-6SCS	6 Core SC SM Adaptor Module
VCFPST-6SCM	6 Core SC MM Adaptor Module
VCFPST-12SCS	12 Core SC SM Adaptor Module
VCFPST-12SCM	12 Core SC MM Adaptor Module
VCFPST-12LCS	12 Core LC SM Adaptor Module
VCFPST-12LCM	12 Core LC MM Adaptor Module
VCFPST-24LCS	24 Core LC SM Adaptor Module
VCFPST-24LCM	24 Core LC MM Adaptor Module
VCFPST-KB	Blank Adaptor Module

Note: Default connector type is PC, and APC is also available.



Optical Cabling Accessories / 19" Optical Fiber Patch Panel with Splitter, Fully Loaded

VIVANCO
Your Right Connection

Compliance

ISO/IEC11801
ANSI/EIA-568-C.3
TIA-598-C
EN50173:2002
TIA/EIA-526-7
ITU G.657
GR-1209
GR-1221

Features & Benefits

- Fast and easy front access to all splitter ports
- Bi-directional performance with accurate splitting ratios
- Ultra-broadband range(1260-1650nm)
- Low insertion loss
- Excellent uniformity
- Low Polarization Dependent Loss(PDL)
- Low Polarization Mode Dispersion(PMD)
- Solid steel construction from powder coated CRCA
- Integrated fiber management accessories
- 2011/65/EU RoHS compliant and halogen free
- GR-1209 and GR-1221 compliant splitters



Optical Performance

Operating Wavelength(nm)	1260-1650							
Parameter	1×4	1×8	1×16	1×32	2×4	2×8	2×16	2×32
Insertion Loss(dB)	7.0	10.4	13.6	17.0	7.6	10.8	14.0	17.5
Channel Uniformity(dB)	0.6	0.8	1.2	1.6	1.0	1.0	1.5	1.8
Polarization Dependent Loss(dB)	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3
Wavelength Dependent Loss(dB)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Connector Loss(dB)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Return Loss	≥-55							
Directivity	≥-55							
Operating Temperature(°C)	-40~85							
Storage Temperature(°C)	-40~85							
Maximum Input Power(mV)	500							

Ordering Information

Part No.	Description
VCFPDSNXXXXYY1	Optical Fiber Patch Panel with Splitter, Fully Loaded

XXX is the adaptor type (SCA=SC/APC, LCA=LC/APC, SCP=SC/PC, LCP=LC/PC)
YYY is the splitting ratio (1:4, 1:8, 1:16, 1:32, 2:4, 2:8, 2:16, 2:32, for example 104=1:4, 132=1:32)

Optical Cabling Accessories / Optical Distribution Frame

VIVANCO
Your Right Connection

Compliance

- ISO/IEC11801
- ANSI/TIA/EIA 568-C.3

Construction

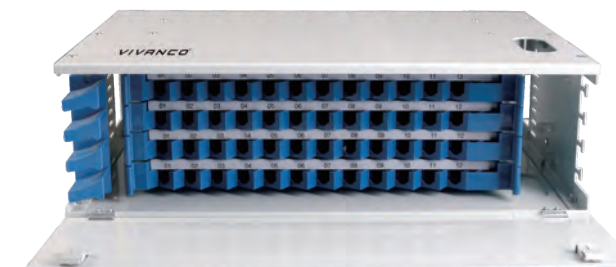
Material	SPCC	
Distribution Board Material	PVC	
Item Dimension (mm) (L*W*H)	1U	430*250*48
	2U	430*250*80
	3U	485*300*130
	4U	430*300*130
	5U	485*300*230
Maximum Bending Space (mm)	≥30	
Max Fiber Count	192	
Adaptor	SC, FC, ST, duplex LC	

Optical Performance

Insertion Loss (dB)	≤0.3
Return Loss (dB)	≥45

Features & Benefits

- 19" standard installation
- Metal structure, electrostatic powder-coated surface, plastic components, light structure
- Pull-out design with fiber splicing accessories
- SC, LC duplex, FC, ST adaptors optional
- Suitable for bundle and ribbon fiber cables, with sufficient storage space for both optical fiber cables and pigtails



Name Coding

VC FP D X N XX N XX						
TYPE	TYPE	STYLE	MODES	CONNECTOR TYPE	CONNECTOR STYLE	PORT
FP=Fiber Panel	D=ODF	S=Simplex D=Duplex T=Simplex&Duplex	N=N/A	ST=ST SC=SC LC=LC FC=FC	N=N/A	24=24 48=48 72=72 96=96 144=144

Ordering Information

Part No.	Description
VCFPDSNSTN242	24 Port ODF(for 24 Core ST, Adaptor Unloaded, 2U)
VCFPDTNTCN242	24 Port ODF (for 24 Core SC/FC, 48 Core Duplex LC, Adaptor Unloaded, 2U)
VCFPDSNSTN483	48 Port ODF(for 48 Core ST, Adaptor Unloaded, 3U)
VCFPDTNTCN483	48 Port ODF (for 48 Core SC/FC, 96 Core Duplex LC, Adaptor Unloaded, 3U)
VCFPDSNSTN724	72 Port ODF (for 72 Core ST, Adaptor Unloaded, 4U)
VCFPDTNTCN724	72 Port ODF (for 72 Core SC/FC, 144 Core Duplex LC, Adaptor Unloaded, 4U)
VCFPDSNSTN965	96 Port ODF (for 96 Core ST, Adaptor Unloaded, 5U)
VCFPDTNTCN965	96 Port ODF (for 96 Core SC/FC, 192 Core Duplex LC, Adaptor Unloaded, 5U)
VCFPDSNSTN1447	144 Port ODF (for 144 Core ST, Adaptor Unloaded, 7.5U)
VCFPDTNTCN1447	144 Port ODF (for 144 Core SC/FC, 288 Core Duplex LC, Adaptor Unloaded, 7.5U)



Standard Compliance

- ISO/IEC11801
- ANSI/TIA/EIA 568-C.3
- IEC 61754

Features & Benefits

- Compatible, repeatable, interchangeable
- High-precision, high-quality material
- Good stability
- Low insertion loss and high return loss

Optical Performance

Insertion Loss(dB)	≤0.2 (5M); ≤0.1(MM)	
Interchangeability(dB)	≤0.2	

Physical Performance

Adaptor Material	Ceramics	
Outer Cover Material	Zinc alloy (FC, ST), PC (LC, SC)	
Work/storage Temperature(°C)	-40 ~ 80	-25 ~ 70
Mechanical Durability	≥500 times	

A

B

C

D

E

F

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M

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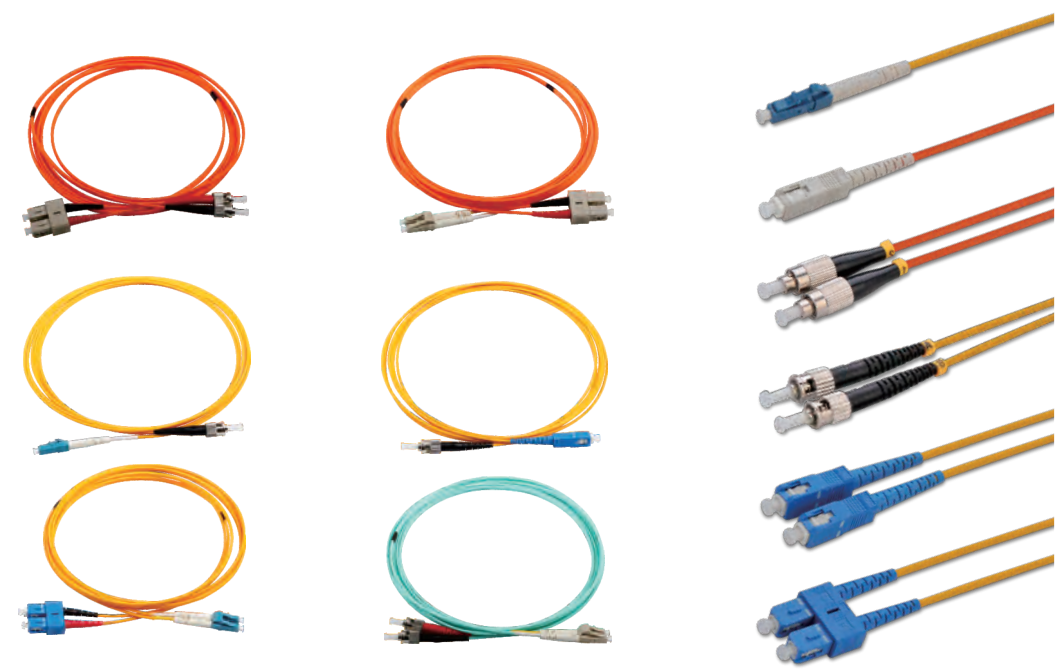
Name Coding

VC FJ XX X X X N

TYPE	CONNECTOR TYPE	MODES	STYLE	CONNECTOR STYLE	ADAPTOR STYLE
FJ=Fiber Adaptor	LC=LC-LC	S=Single mode	S=Simplex	P=PC	N=Normal
	SC=SC-SC	M=Multimode	D=Duplex	U=UPC	
	ST=ST-ST		Q=Quadplex	A=APC	
	FC=FC-FC				

Ordering Information

Part No.	Description
VCFJFCSSPN	A FC/PC SM Simplex Adaptor
VCFJFCSSAN	B FC/APC SM Simplex Adaptor
VCFJSTSSPN	C ST/PC SM Simplex Adaptor
VCFJSCSSPN	D SC/PC SM Simplex Adaptor
VCFJSCSDPN	E SC/PC SM Duplex Adaptor
VCFJSCMSPN	F SC/PC MM Simplex Adaptor
VCFJSCMDPN	G SC/PC MM Duplex Adaptor
VCFJSCSSAN	H SC/APC SM Simplex Adaptor
VCFJSCSDAN	I SC/APC SM Duplex Adaptor
VCFJLCSDPN	J LC/PC SM Duplex Adaptor
VCFJLCSQPN	K LC/PC SM 4 Cores Adaptor
VCFJLCMDPN	L LC/PC MM Duplex Adaptor
VCFJLCMQPN	M LC/PC MM 4 Cores Adaptor
VCFJLCSDAN	N LC/APC SM Duplex Adaptor
VCFJLCSQAN	O LC/APC SM 4 Cores Adaptor
VCFJSCSSPK	P SC/SC Simplex SM Adaptor (for Copper Patch Panel)
VCFJSCMSPK	P SC/SC Simplex MM Adaptor (for Copper Patch Panel)
VCFJLSCSSPK	Q LC/LC Duplex SM Adaptor (for Copper Patch Panel)
VCFJLLCSDPK	Q LC/LC Duplex MM Adaptor (for Copper Patch Panel)



Compliance

- ISO/IEC11801
- ANSI/TIA/EIA 568-C.3
- IEC 61754
- IEC 61300

Features & Benefits

- Simplex and duplex adaptors
- OM2, OM3, OS2, and G657A fibers
- PC,UPC and APC
- Available in different colors and lengths

Construction

Color	Yellow(SM) Orange(MM)
Cable Diameter(mm)	Simplex 2.8(±0.1) Duplex 2.8*2(±0.1)
Length(m)	Customized
Jacket	LSZH
Flammability	IEC 60332-1
Fiber Performance	Meet the requirement
Operating Temperature(°C)	-25 ~ 70
Insertion Strength(N)	≤19.6
Pulling Force(N)	≤19.6
Axial Tensile Strength(N)	≥40

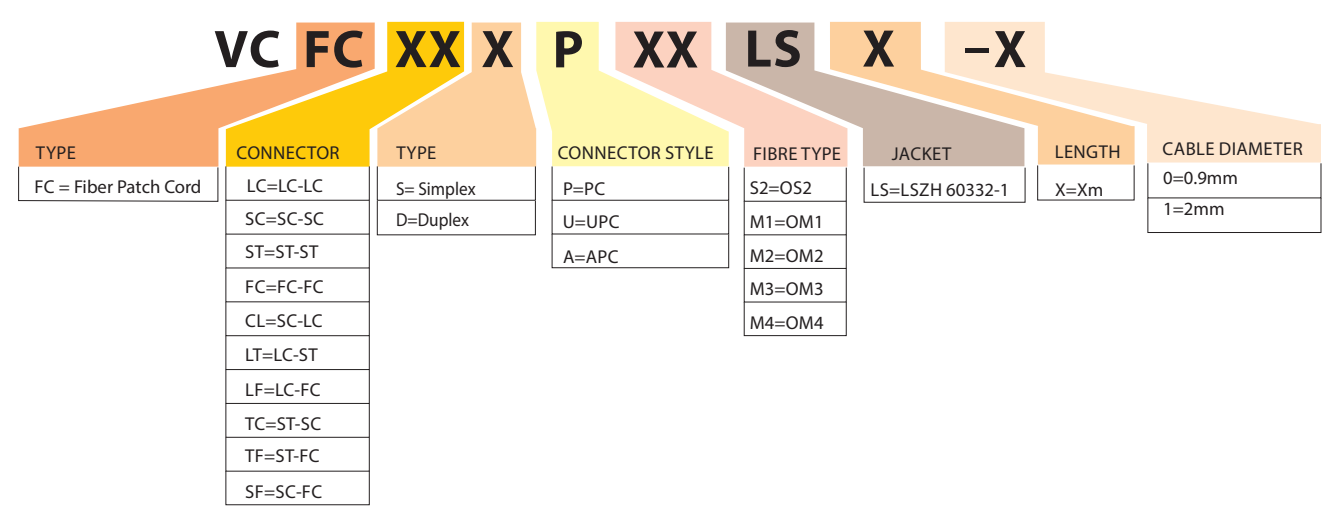
Optical Performance

Insertion Loss(dB)	≤0.3 (SM)
	≤0.2 (mm)
Return Loss(dB)	≥45
Insertion Loss Variation(dB)	≤0.2
Return Loss Variation(dB)	≤5

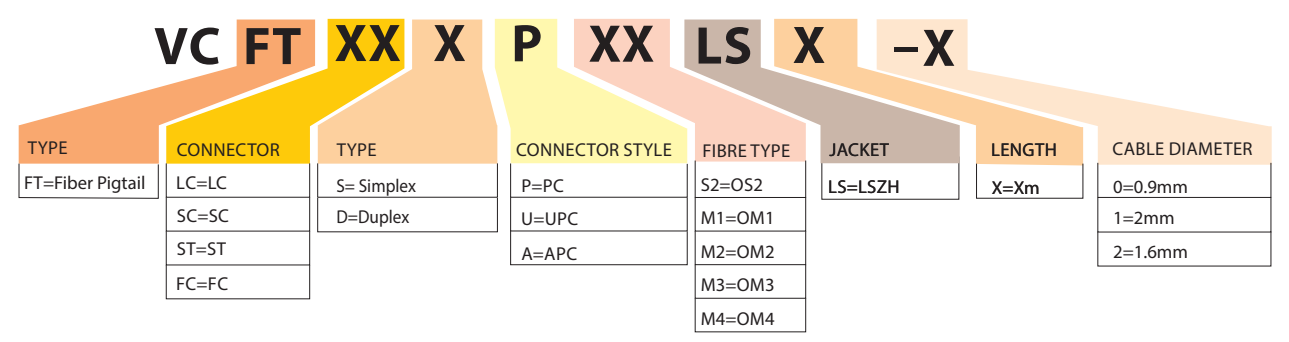


Name Coding

Patch Cord



Pigtail



Note: the part number with "-X" means its cable diameter is "3mm".

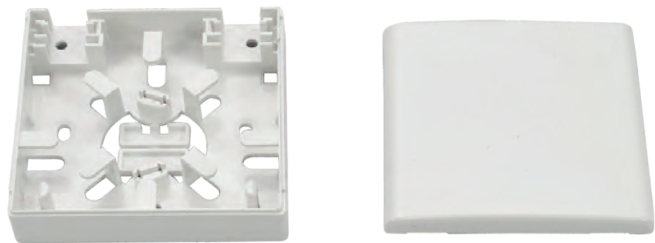
Ordering Information

Part No.	Description
VCFCSCSAS2LS3	3m SC/APC to SC/APC 9/125 Single Mode Simplex Fiber Patch Cable
VCFLCDAS2LS3	3m LC/APC to LC/APC 9/125 Single Mode Duplex Fiber Patch Cable
VCFCCLSAS2LS3	3m SC/APC to LC/APC 9/125 Single Mode Simplex Fiber Patch Cable
VCFTSCSAS2LS1	1m SC/APC 9/125 Single Mode Simplex Fiber Pigtail
VCFTLCSAS2LS1	1m LC/APC 9/125 Single Mode Simplex Fiber Pigtail
VCFTLCSPM3LS1	1m LC/PC OM3 50/125 Multimode Simplex Fiber Pigtail

Features & Benefits

- FTTX surface box or faceplate
- For LC duplex or SC simplex
- Work separately or with 86 back box
- 1, 2 port available
- Easy installation
- Material: ABS

OPTICAL FIBER OUTLET BOX



Ordering Information	
Part No.	Description
VCFP8012	Optical Fiber Outlet Box 86.7*86.7*23.6mm, 2 Port SC
VCFP8022	Optical Fiber Outlet Box 86.7*86.7*23.6mm, 2 Port LC Duplex

Features & Benefits

- Support the connection of data cables, FTTH cables and other indoor fiber cables
- Support both direct fiber connection & fusion splicing, while meeting the requirements of fiber bend radius
- Work with 86 back box
- Fitted with 2pcs SC/LC duplex adaptor and 1pc RJ-45keystone jack
- Material: ABS

MULTIMEDIA BOX



Ordering Information	
Part No.	Description
VCFP8032	Multimedia Box , for 2*Simplex SC/Duplex LC and 1*Keystone Jack

Features & Benefits

- FTTX surface box or faceplate
- Water-proof design with IP45 protection level
- Integrated with cable termination and management
- Manage fibres in a reasonable bending radius (300mm) condition
- High quality anti-aging ABS material
- Suitable for the wall mounted installation
- 4 port cable entrance for drop cable or patch cable
- Suitable for SC Simplex and LC Duplex adaptors without ears

OPTICAL FIBRE OUTLET BOX



Ordering Information	
Part No.	Description
VCFP8042	Optic Fiber Outlet Box, Unloaded, 4 Port100 *80*31mm

Features & Benefits

- Applied to FTTH application
- Compact structure
- Offer water-proof and dust-proof protection up to IP65
- Integrated with fiber splicing, fixation, storage and distribution
- SC Simplex and LC Duplex adaptors
- Independent routing for fiber cable, pigtails and patch cords for better cable management
- Suitable for wall mounted installation
- Material: PC+ABS

OPTICAL FIBER TERMINATION BOX



Technical Data	
Working Temperature	40°C ~ +85°C
Relative Humidity	≤85% (+30°C)
Atmospheric Pressure	70KPa ~ 106Kpa

Ordering Information	
Part No.	Description
VCFPSNSCN04N	Optical Fiber Termination Box, 4 Port For 4* SC Simplex/8* LC Duplex, Unloaded



- Compliance

 - ISO/IEC11801
 - ANSI/TIA/EIA 568-C.3
- Features & Benefits

 - Water-proof design with IP-66
 - Integrated with splice cassette and cable management routes
 - Manage fiber in a reasonable fiber radius condition
 - Easy to maintain and extend the capacity
 - Suitable for the fusion splice or mechanical splice
 - Efficient cable management
 - 24 ports cable entrance for drop cable
 - PLC Splitter optional

Construction	
Material	PC+ABS
Size(mm)	317*237*101
Max capacity	24FSCsimplex 48FLCduplex
Installation size(mm)	206*274
Weight	Unloaded,1.5kg
Color	Light Gray

Ordering Information	
Part No.	Description
VCFPWMTB24N	FTTH Fiber Splicing and Termination, Unloaded 2 In 24 Out (for 24F SC, 48F LC Duplex)



- Product Performance

Max Fiber Count	144
Impact of Seal	16N
Seal Stretch	≤2000N
Voltage Resistance Strength	15KV(DC)
- Features & Benefits

 - Outdoor aerial or underground installation offering excellent fiber protection
 - High-quality stainless steel material used for external fasteners
 - No additional attenuation
 - Repeatable use and future expansion
 - Equipped with pressure valve for checking the sealing
 - Dome type and horizontal type available

Ordering Information	
Part No.	Description
VCS906	Two-in and Two-out Optical Fiber Splice Closure (24 Core to 48 Core)
VCS907	Three-in and Three-out Optical Fiber Splice Closure (48 Core)
VCS908	Three-in and Three-out Optical Fiber Splice Closure (72 Core)
VCS909	Three-in and Three-out Optical Fiber Splice Closure (96 Core)
VCS910	Three-in and Three-out Optical Fiber Splice Closure (144 Core)
VCS906B-24	Dome Optic Fiber Splice Closure, Two-in and Two-out , Basket Type (1*24F , 24 Core)
VCS906B-48	Dome Optic Fiber Splice Closure, Two-in and Two-out , Basket Type (2*24F , 48 Core)
VCS906B-72	Dome Optic Fiber Splice Closure, Two-in and Two-out , Basket Type (3*24F , 72 Core)
VCS906B-96	Dome Optic Fiber Splice Closure, Two-in and Two-out , Basket Type (4*24F , 96 Core)

