

CopperOn™

Product Catalog



The CopperOn Company

2100 M ST NW, Washington DC 20037, USA

SETTING THE STANDARD IN STRUCTURED CABLING



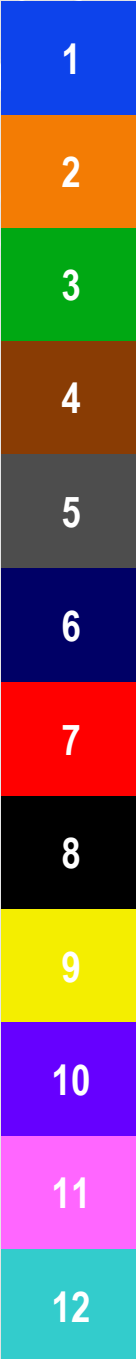
The CopperOn Company

2100 M ST NW, Washington DC 20037

www.copperon.com

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CopperOn at a Glance

CopperOn provides tailored solutions and comprehensive systems with totally tuned components from the cable itself to the required connectors and mountings.

CopperOn has a product value chain, which is exclusive in the industry that offers you valuable synergy and capabilities.

CopperOn provides cabling infrastructure systems for projects as small as a single-floor office or as complex as a multi-building campus environment. We excel in the Multi Dwelling Unit (MDU) market, hotels, condominiums, apartments, and office buildings.

Our experience and focus also extend to carriers, defense, medical facilities, call centers, educational campuses, government centers, and convention centers. CopperOn is one of the growing companies specializing in the manufacturing and innovation of high quality and high-performance network cabling solutions. CopperOn is headquartered in Washington DC, USA, with global offices, manufacturing, and service partners throughout the world.

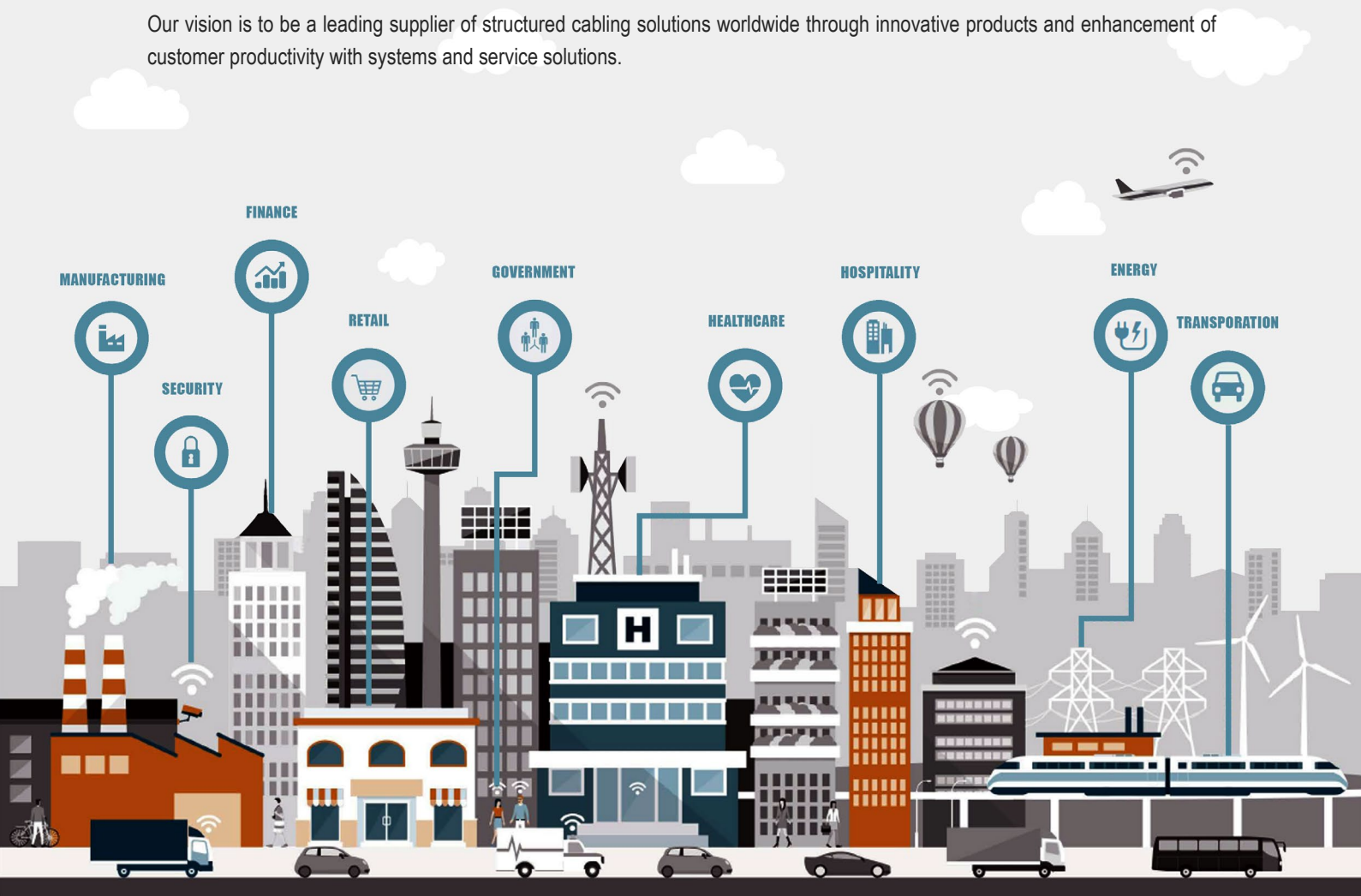
Company History

CopperOn was established in 1996 in Claremont, NC, as a manufacturer of communication cables and later extended to manufacturing of optical fiber connectivity products and structured cabling systems. CopperOn moved their headquarters to Washington DC in 2004 to reach their global as well as government clients.

CopperOn mainly focuses on communications system solutions for voice, data, and video network applications which have been adjusted in the best possible way to specific local operating conditions and which offer our customers with maximum economic and technical advantages.

Vision

Our vision is to be a leading supplier of structured cabling solutions worldwide through innovative products and enhancement of customer productivity with systems and service solutions.



CopperOn, Extended Bandwidth and More

CopperOn is a full-service technology company to the highest quality craftsmanship and complete customer satisfaction. We have created a successful business model by focusing our efforts on being the “the company behind the company”. We team with our clients and partner companies throughout the world to improve business through technology. CopperOn meets your complex business requirements by providing industry compliant cabling solutions, on time delivery and support for network infrastructure, telephony, and communications cabling.

A world where we are relentlessly committed to focusing our 15 years pioneering pure play experience, our R&D center in US & Europe, every shred of revelatory and the unmatched diversity of capability and skills residing in our people worldwide, on one pure goal: design and provide the greatest and most sustainable structured cabling solutions for our customers worldwide.

CopperOn follows all industry standards.

CopperOn secures all the inevitable certificates like UL, ETL and Delta.



Customer Support at a Glance

- CopperOn provides extensive partners program
- CopperOn provides different layers of warranty program
- Our team of qualified engineers help customers design projects
- From inception to the end with tremendous cost savings and quality products
- Support with cutting-edge and high-performance cabling infrastructure systems
- Going closer to the local customers - US, Europe, Middle East, Africa, and Asia
- Established reputations as experienced industry professionals
- Extensive sales/executive management and business development
- Experienced within telecommunication industry
- Industry leaders
- Unique talents and expertise that broaden CopperOn' s capabilities
- Strong understanding of a broad range of connectivity technologies
- Strong international sales presence
- Proven record of success and accomplishments selling to world's largest customers



Corporate Responsibility

As a manufacturer of Copper & Fiber Optic communications system solutions for voice, data, and video network applications worldwide, we are conscious of our corporate responsibility to environment and society. By adopting an emerging corporate social responsibility management structure and a sound corporate governance framework, we expect to improve our performance going forward in line with the expectations of our stakeholders, our corporate values, and our business objectives.

The CopperOn Company is committed to compliance with ISO 9001 Quality Management Systems, ISO 14001 Environmental Management Systems, and ISO 45001 Occupational Health & Safety Management Systems.

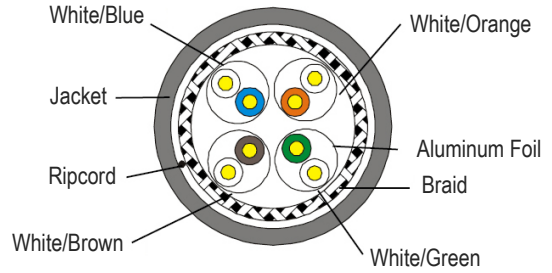




Category 7A Cables

Applications

- VoIP
- ISDN
- Token Ring
- 100M TP-PDM
- Analog and Data Video
- TR-16 Active and Passive
- ATM: 155M, 622M, 1.2G
- IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T



Product Specifications

- Rated Temperature: 60°C, 75°C, 90°C
- Reference Standards: UL444, UL1581
- Solid Bare Copper Conductor
- RoHS/REACH Complaint PVC/LSZH Jacket
- Complies to IEC 61156-5, EN 50173-1 & ISO 11801
- Installation Temperature: 0°C to +50°C
- Minimum Bending Radius: 8D

Product Overview

Cat. 7A cables with skin-foam-skin insulation and pair-shield construction design have excellent shielding performance of anti-EMI and easy to realize 1000 MHz bandwidth. All performance parameters comply to the requirements for Cat. 7A of IEC61156-5 & EN 50173-1.

Transmission Characteristics

Frequency MHz	Impedance Ohm	RL ≥dB	Attenuation ≤dB/100m	NEXT ≥dB/100m	ELFEXT ≥dB/100m	PS NEXT ≥dB/100m	PS ELFEXT ≥dB/100m	Delay Skew ns/100m	NVP
4	100 ± 15	23.0	3.74	78.0	78.0	75.0	75.0	≤ 25	74%
8		24.5	5.22	78.0	75.9	75.0	72.9		
10		25.0	5.82	78.0	74.0	75.0	71.0		
16		25.0	7.34	78.0	69.9	75.0	66.9		
20		25.0	8.21	78.0	68.0	75.0	65.0		
25		24.3	9.18	78.0	66.0	75.0	63.0		
31.25		23.6	10.26	78.0	64.1	75.0	61.1		
62.5		21.5	14.57	75.5	58.1	72.4	55.1		
100		20.1	18.53	72.4	54.0	69.4	51.0		
150		18.9	22.82	69.8	50.2	66.8	47.2		
200	100 ± 22	18.0	26.47	67.9	48.0	64.9	45.0		
250		17.3	29.73	66.4	46.0	63.4	43.0		
300	100 ± 25	17.3	32.69	65.2	44.5	62.2	41.5		
600		17.3	47.10	60.7	38.4	57.7	35.4		
1000		17.3	61.93	57.4	34.0	54.4	31.0		

Cable Construction

Part No.	Construction	Nominal Conductor Diameter mm	Nominal Insulation Dimension mm	No. of Pairs	Nominal Cable OD mm	Jacket
CS248101	S/FTP	0.580	1.35	4	7.8	PVC
CS248601	S/FTP	0.570	1.34	4	7.8	LSZH

Standard reel size is 305m. Other reel sizes are available upon request.
Standard color is gray. Other colors are available upon request.

Applications

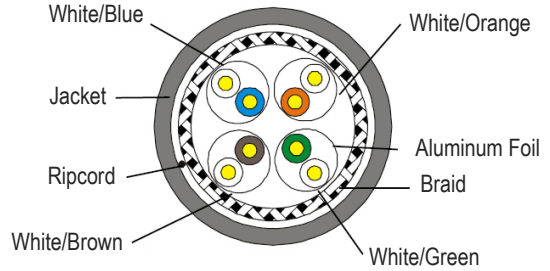
- VoIP
- ISDN
- Token Ring
- 100M TP-PDM
- Analog and Data Video
- TR-16 Active and Passive
- ATM: 155M, 622M, 1.2G
- IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T

Product Specifications

- Rated Temperature: 60°C, 75°C, 90°C
- Reference Standards: UL444, UL1581
- Solid Bare Copper Conductor
- RoHS/REACH Compliant PVC, PE, or LSZH Jacket
- Complies to ANSI/TIA-568-C.2 & ISO/IEC 11801
- Installation Temperature: 0°C to +50°C
- Minimum Bending Radius: 8D

Product Overview

Cat. 7 cables with skin-foam-skin insulation and pair-shield construction design have excellent shielding performance of anti-EMI and easy to realize 600 MHz bandwidth. All performance parameters comply to the requirements for Cat. 7 of IEC61156-5 & EN 50173.



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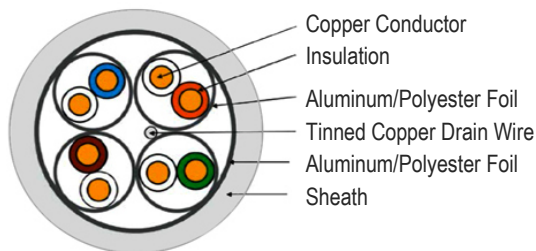
Transmission Characteristics									
Frequency MHz	Impedance Ohm	RL ≥dB	Attenuation ≤dB/100m	NEXT ≥dB/100m	ELFEXT ≥dB/100m	PS NEXT ≥dB/100m	PS ELFEXT ≥dB/100m	Delay Skew ns/100m	NVP
4	100 ± 15	23.0	3.74	78.0	78.0	75.0	75.0	≤ 25	74%
8		24.5	5.24	78.0	75.9	75.0	72.9		
10		25.0	5.86	78.0	74.0	75.0	71.0		
16		25.0	7.41	78.0	69.9	75.0	66.9		
20		25.0	8.29	78.0	68.0	75.0	65.0		
25		24.3	9.29	78.0	66.0	75.0	63.0		
31.25		23.6	10.41	78.0	64.1	75.0	61.1		
62.5		21.5	10.88	75.5	58.1	72.4	55.1		
100		20.1	10.02	72.4	54.0	69.4	51.0		
150		18.9	23.56	69.8	50.2	66.8	47.2		
200	100 ± 22	18.0	27.74	67.9	48.0	64.9	45.0		
250		17.3	30.97	66.4	46.0	63.4	43.0		
300	100 ± 25	17.3	34.19	65.2	44.5	62.2	41.5		
600		17.3	50.10	60.7	38.4	57.7	35.4		

Cable Construction						
Part No.	Construction	Nominal Conductor Diameter mm	Nominal Insulation Dimension mm	No. of Pairs	Nominal Cable OD mm	Jacket
CS247101	S/FTP	0.580	1.35	4	7.9	PVC
CS247601	S/FTP	0.560	1.33	4	7.6	LSZH

Standard reel size is 305m. Other reel sizes are available upon request.
Standard color is gray. Other colors are available upon request.

Applications

- VoIP
- ISDN
- Token Ring
- 100M TP-PDM
- Analog and Data Video
- TR-16 Active and Passive
- ATM: 155M, 622M, 1.2G
- IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T



Product Specifications

- Rated Temperature: 60°C, 75°C, 90°C
- Reference Standards: UL444, UL1581
- Solid Bare Copper Conductor
- RoHS/REACH Complied PVC, PE, or LSZH Jacket
- Complies to ANSI/TIA-568-C.2 & ISO/IEC 11801
- Installation Temperature: 0°C to +50°C
- Minimum Bending Radius: 8D



Product Overview

Cat. 6A cable is designed for improving crosstalk performance between cables in 10GBase-T Ethernet applications with bandwidth up to 500 MHz. All performance parameters comply to the requirements for Cat. 6A of TIA/EIA568B-10 & IEC61156.

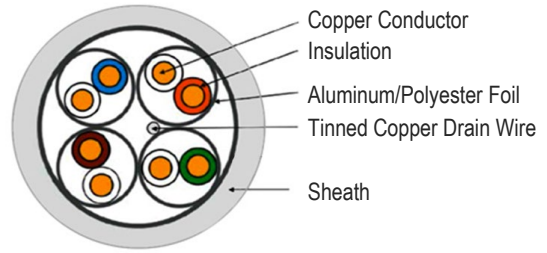
Transmission Characteristics										
Frequency MHz	Impedance Ohm	RL ≥dB	Attenuation ≤dB/100m	NEXT ≥dB/100m	ELFEXT ≥dB/100m	PS NEXT ≥dB/100m	PS ELFEXT ≥dB/100m	Delay Skew ns/100m	NVP	
1	100 ± 15	20.0	1.9	74.0	68.00	72.30	65.00	≤45	68%	
4		23.0	3.7	65.0	56.00	63.30	53.00			
8		24.5	5.3	60.7	49.90	58.80	46.90			
10		25.0	5.9	59.0	48.00	57.30	45.00			
16		25.0	7.5	56.0	43.90	54.20	40.90			
20		25.0	8.4	55.0	42.00	52.80	39.00			
25		24.3	9.5	53.3	40.00	51.30	37.00			
31.25		23.6	10.6	52.0	38.10	49.90	35.10			
62.5		21.5	15.4	47.0	32.10	45.40	29.10			
100		20.1	19.8	44.0	28.00	42.30	25.00			
200		18.0	29.0	40.0	22.00	37.80	19.00			
250		17.3	32.8	38.3	20.00	36.30	17.00			
300		100 ± 22	16.3	36.4	37.1	18.50	34.10			15.50
500			15.2	48.9	33.8	14.00	30.80			11.00

Cable Construction						
Part No.	Construction	Nominal Conductor Diameter mm	Nominal Insulation Dimension mm	No. of Pairs	Nominal Cable OD mm	Jacket
CS216101	F/FTP	0.57	1.35	4	7.5	PVC
CS216601	F/FTP	0.56	1.33	4	7.3	LSZH

Standard reel size is 305m. Other reel sizes are available upon request.
Standard color is gray. Other colors are available upon request.

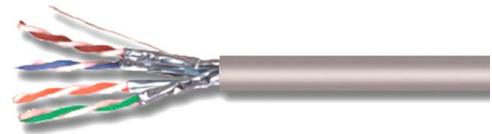
Application

VoIP
 ISDN
 Token Ring
 100M TP-PDM
 Analog and Data Video
 TR-16 Active and Passive
 ATM: 155M, 622M, 1.2G
 IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T



Product Specifications

Rated Temperature: 60°C, 75°C, 90°C
 Reference Standards: UL444, UL1581
 Bare Solid Copper Conductor
 RoHS/REACH Complied PVC, PE, or LSZH Jacket
 Complies to ANSI/TIA-568-C.2 & ISO/IEC 11801
 Installation Temperature: 0°C to +50°C
 Minimum Bending Radius: 8D



Product Overview

Cat. 6A cable is designed for improving crosstalk performance between cables in 10GBase-T Ethernet applications with bandwidth up to 500 MHz. All performance parameters comply to the requirements for Cat. 6A of TIA/EIA568B-10 & IEC61156.

Transmission Characteristics									
Frequency MHz	Impedance Ohm	RL ≥dB	Attenuation ≤dB/100m	NEXT ≥dB/100m	ELFEXT ≥dB/100m	PS NEXT ≥dB/100m	PS ELFEXT ≥dB/100m	Delay Skews ns/100m	NVP
1	100 ± 15	20.0	2.1	74.3	68.00	72.30	65.00	≤45	68%
4		23.0	3.8	65.3	56.00	63.30	53.00		
8		24.5	5.3	60.8	49.90	48.80	46.90		
10		25.0	5.9	59.3	48.00	57.30	45.00		
16		25.0	7.5	56.2	43.90	54.30	40.90		
20		25.0	8.4	54.8	42.00	52.80	39.00		
25		24.3	9.4	53.3	40.00	41.30	37.00		
31.25		23.6	10.5	51.9	38.10	49.90	35.10		
62.5		21.5	15.0	47.4	32.10	45.40	29.10		
100		20.1	19.1	44.3	28.00	42.30	25.00		
200		18.0	27.6	39.8	22.00	37.80	19.00		
250		17.3	31.1	38.3	20.00	36.30	17.00		
300		100 ± 22	16.3	34.3	37.1	18.50	35.10		
500	15.2		45.3	33.8	14.00	30.80	11.00		

Cable Construction							
Part No.	Construction	Nominal Conductor Diameter mm	Nominal Insulation Dimension mm	No. of Pairs	Nominal Cable OD mm	Reel Size	Jacket
CSUF6APVC305GR	U/FTP	0.56	1.34	4	7.5	305	PVC
CSUF6ALSZH305GR	U/FTP	0.56	1.34	4	7.5	305	LSZH
CSSF6ALSOH-06-500GR	S/FTP	0.56	1.01	4	6.9	500	LSZH

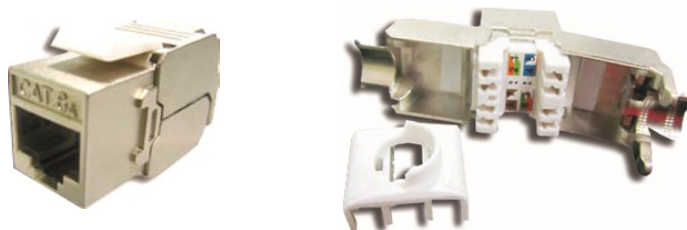
Standard color is gray. Other colors are available upon request.

Slim Type Toolless Keystone Jacks

180° Cat. 6A shielded die-casting keystone jack is designed to fully achieve the component standard of ISO/IEC 11801. Extra 30% permanent link headroom margin guaranteed compared to traditional Cat. 6A products and links, and it is also the best choice to support IEEE 802.3an 10G applications.

Specifications

- Conform to TIA/EIA-568.C.2, ISO/IEC 60603-7-51 and EN 50173-1 class EA specifications
- Die-casting design for optimal EMI protection
- Slim size is ideal for interfaces where the spaces are tight
- Real ISO/IEC 11801 and EN 50173 short link performance guaranteed
- Multi-nodes consolidation cord, reliable end to end solutions, and high data traffic applications
- Compact design and standard size fit in keystone style faceplate ports
- Compatible with keystone modular patch panels for data centers or cross connect use
- RoHS compliant



Part No.	Description
C6AS7Z1KSR-SL	180° Cat. 6A shielded die-casting toolless keystone jack, slim type

Toolless Keystone Jacks

Specifications

- 10Gb/s performance, meeting or exceeding all performance requirements of the Category 6A (Augmented Cat. 6) standard
- Hardware certified of complying with TIA/EIA-568B.22-1 Cat. 6A by third party
- Meet termination requirements with 3-50 micro inch gold plating over nickel
- Insertion Life: 750 cycles minimum, UL listed
- Enhanced PC designed technology provides reliable performance



Part No.	Description
C6AS7Z1KTSR	Fully shielded Cat. 6A keystone jack, 180°, toolless, zinc die-casting



Features

- Quick and easy toolless termination
- T568A/T568B wiring schemes
- 50 micro-inch gold-plated contacts
- Compatible with solid/stranded wires with 22-24 AWG conductor size
- Meet or exceed ISO/IEC 11801 and ANSI/TIA-568-C.2 Category 6A standards
- RoHS/REACH Compliant

Application

Category 6A Modular Plug Terminated Links (MPTL)
 10/100/1000/10GBASE-T Ethernet applications
 Security cameras and Wireless Access Points (WAPs)
 Industrial monitoring and control applications
 Building automation systems
 Power over Ethernet (PoE) LED lighting

Technical Specifications

Material	Housing	Die-Cast Zinc Alloy
	Plug	Polycarbonate
	Plug Contacts	Phosphor Bronze with 50U" Gold Plating
	IDC Contacts	Phosphor Bronze, Zinc Plating
Plug Mating Cycles		750 Cycles Minimum
Conductor Gauge		22-24 AWG
Conductor Type		Solid/Stranded
Cable Diameter		6-8 mm
Temperature	Storage	-40° to +70°
	Operation	-10° to +60°

Electrical Specifications

Contact Resistance	20mΩ
Insulation Resistance	≤ 500MΩ @100 V DC
Withstand Voltage	DC 1000V AC 700V RMS 60Hz

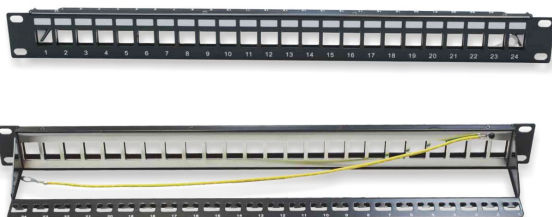
Ordering Information

Part Number	Description
CSRJ45TPS6A	Shielded Cat. 6A field termination RJ45 toolless plug, die-cast zinc alloy housing

Shielded Blank Patch Panel with Rear Cable Support Bar

Specifications

- 1U high universal modular 19" panel for mounting keystone jacks
- Integrated cabling shelf for securing cables using cable ties
- Possibility of mounting up to 24 RJ45 shielded or unshielded keystone jacks
- Metal construction assuring galvanic connections with module shields
- Earthing cord



Part No.	Description
BPS8LL024	Shielded 19" blank patch panel, 24 ports, metal with rear cable support bar, black

Blank Keystone Jack Panels

Surface Finish: Degreasing, pickling, phosphoric, powder coated

Material: SPCC cold rolling steel, material thickness 1.2mm

Color: black



CSPPS8LL024

Part No.	Description
CSPPS8LL024	19" Blank patch panel, 24 ports, metal with cable support
CSPPS8LL048	19" Blank patch panel, 48 ports, metal with cable support



CSPPS8LA024

Part No.	Description
CSPPS8LA024	19" Blank patch panel, 24 ports, angled type, metal

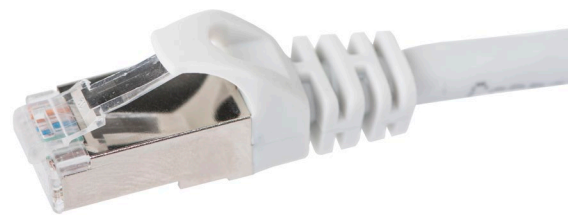
CopperOn Category 6A patch cords are made from high quality patch cables and RJ45 modular plugs. They support high levels of system performance of ANSI/TIA/EIA-568-B, ISO/IEC11801. The head of patch cords with protection jacket can provide strain relief, help to control cable bend, and securely retain wires.

CopperOn molded type stranded round patch cord or patch cables are electrical cables used to connect one electronic device to another for signal routing. We offer plugs in standard configuration to terminate patch cords for patching or workstation application. Patch Cords can be terminated to the exact need for neater and more organized installation. Patch cords are RoHS Compliant.

Patch cords are assemblies of 4 twisted-pair stranded wire cable with modular plugs crimped on both ends. T568A & T568B wiring schemes are available.

Applications

- Horizontal Distribution & Backbone Cabling
- ISDN, ADSL
- 100M TP-PMD
- ATM: 155 Mbps
- ATM LAN: 1.2G
- IEEE 802.5: 4, 16 Mbps Token Ring
- IEEE 802.3: 10, 100, 1000, 10G Base-T



Product Specifications

- CopperOn Category 6A FTP, S/FTP 4 pair stranded copper patch cable
- Meets the ANSI/TIA-568-C.2, ISO/IEC 11801 2nd edition, and CENELEC EN 50173-1 cabling requirements for Cat. 6A performance
- Comply with requirements of ANSI/TIA-1096-A (FCC part 68) and reliability requirements of IEC 60603-7 Series for RJ45 8-way connector
- Optimal performance is achieved when using CopperOn Cat. 6A patch cords
- Sheath: PVC or LSZH
- Contact Material: Phosphor Bronze
- Operating Temperature: 14°F to 140°F (-20°C to 60°C)
- Standards: TIA/EIA568-B, ISO/IEC11801
- RoHS compliant

Part No.	Jacket	Description
CSP-C-SFC6ALSZH-01-GR	LSZH	Patch cord S/FTP Cat. 6A gray 1 meter
CSP-C-SFC6ALSZH-02-GR		Patch cord S/FTP Cat. 6A gray 2 meter
CSP-C-SFC6ALSZH-03-GR		Patch cord S/FTP Cat. 6A gray 3 meter
CSP-C-SFC6APVC-01-GR	PVC	Patch cord S/FTP Cat. 6A gray 1 meter
CSP-C-SFC6APVC-02-GR		Patch cord S/FTP Cat. 6A gray 2 meter
CSP-C-SFC6APVC-03-GR		Patch cord S/FTP Cat. 6A gray 3 meter
CSP-C-FC6ALSZH-01-GR	LSZH	Patch cord FTP Cat. 6A gray 1 meter
CSP-C-FC6ALSZH-02-GR		Patch cord FTP Cat. 6A gray 2 meter
CSP-C-FC6ALSZH-03-GR		Patch cord FTP Cat. 6A gray 3 meter
CSP-C-FC6APVC-01-GR	PVC	Patch cord FTP Cat. 6A gray 1 meter
CSP-C-FC6APVC-02-GR		Patch cord FTP Cat. 6A gray 2 meter
CSP-C-FC6APVC-03-GR		Patch cord FTP Cat. 6A gray 3 meter

Standard lengths: 1, 2, 3, 5, 7, 10, and 15 meters.
Other lengths and colors are available upon request.

Applications

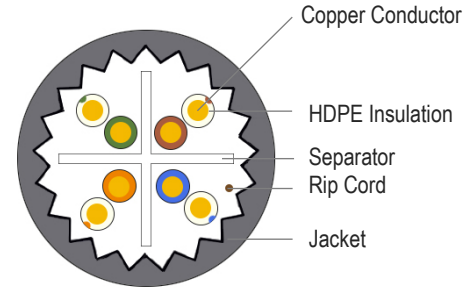
- VoIP
- ISDN
- Token
- 100M TP-PDM
- Analog and Data Video
- TR-16 Active and Passive
- ATM: 155M, 622M, 1.2G
- IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T

Product Specifications

- Rated Temperature: 60°C, 75°C, 90°C
- Reference Standards: UL444, UL1581
- Solid Bare Copper Conductor
- RoHS/REACH Compliant PVC, PE, or LSZH Jacket
- Complies to ANSI/TIA-568-C.2 & ISO/IEC 11801
- Installation Temperature: 0°C to +50°C
- Minimum Bending Radius: 8D

Features & Benefits

Cat. 6A cable is designed for improving crosstalk performance between cables applying in 10GBase-T ethernet with up to 500MHz bandwidth, complies to all the requirements for Cat. 6A of TIA/EIA568B-10 & IEC61156.



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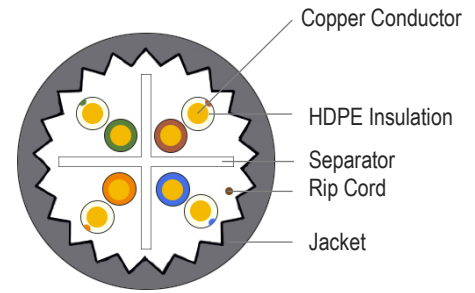
Transmission Characteristics									
Frequency MHz	Impedance Ohm	RL ≥dB	Attenuation ≤dB/100m	NEXT ≥dB/100m	ELFEXT ≥dB/100m	PS NEXT ≥dB/100m	PS ELFEXT ≥dB/100m	Delay Skews/100m	NVP
1	100 ± 15	20.00	1.9	74.0	68.00	72.30	65.00	≤45	68%
4		23.00	3.7	65.0	56.00	63.30	53.00		
8		24.50	5.3	60.7	49.90	48.80	46.90		
10		25.00	5.9	59.0	48.00	57.30	45.00		
16		25.00	7.5	56.0	43.90	54.30	40.90		
20		25.00	8.4	55.0	42.00	52.80	39.00		
25		24.30	9.5	53.3	40.00	41.30	37.00		
31.25		23.60	10.6	52.0	38.10	49.90	35.10		
62.5		21.50	15.4	47.0	32.10	45.40	29.10		
100		20.10	19.8	44.0	28.00	42.30	25.00		
200		18.00	29.0	40.0	22.00	37.80	19.00		
250		17.30	32.8	38.3	20.00	36.30	17.00		
300		100 ± 22	16.80	36.4	37.1	18.50	35.10		
500	15.20		48.9	33.8	14.00	30.80	11.00		

Cable Construction						
Part No.	Construction	Nominal Conductor Diameter mm	Nominal Insulation Dimension mm	No. of Pairs	Nominal Cable OD mm	Jacket
CS217101	UTP	0.570	1.02	4	6.9	PVC
CS217601	UTP	0.576	1.02	4	6.9	LSZH

Standard reel size is 305m. Other reel sizes are available upon request.
Standard color is gray. Other colors are available upon request.

Applications

- VoIP
- ISDN
- Token
- 100M TP-PDM
- Analog and Data Video
- TR-16 Active and Passive
- ATM: 155M, 622M, 1.2G
- IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T



Product Specifications

- Rated Temperature: 60°C, 75°C, 90°C
- Reference Standards: UL444, UL1581
- Solid Bare Copper Conductor
- RoHS/REACH Compliant PVC, PE, or LSZH Jacket
- Complies to ANSI/TIA-568-C.2 & ISO/IEC 11801
- Installation Temperature: 0°C to +50°C
- Minimum Bending Radius: 8D



Features & Benefits

Cat. 6A cable is designed for improving crosstalk performance between cables applying in 10GBase-T ethernet with up to 500MHz bandwidth, complies to all the requirements for Cat. 6A of TIA/EIA568B-10 & IEC61156.

Electrical Characteristics									
Frequency MHz	Impedance Ohm	RL ≥dB	Attenuation ≤dB/100m	NEXT ≥dB/100m	ELFEXT ≥dB/100m	PS NEXT ≥dB/100m	PS ELFEXT ≥dB/100m	Delay Skews/100m	NVP
1	100 ± 15	20.00	1.9	74.0	68.00	72.30	65.00	≤45	68%
4		23.00	3.7	65.0	56.00	63.30	53.00		
8		24.50	5.3	60.7	49.90	48.80	46.90		
10		25.00	5.9	59.0	48.00	57.30	45.00		
16		25.00	7.5	56.0	43.90	54.30	40.90		
20		25.00	8.4	55.0	42.00	52.80	39.00		
25		24.30	9.5	53.3	40.00	41.30	37.00		
31.25		23.60	10.6	52.0	38.10	49.90	35.10		
62.5		21.50	15.4	47.0	32.10	45.40	29.10		
100		20.10	19.8	44.0	28.00	42.30	25.00		
200		18.00	29.0	40.0	22.00	37.80	19.00		
250		17.30	32.8	38.3	20.00	36.30	17.00		
300	100 ± 22	16.80	36.4	37.1	18.50	35.10	15.50		
500		15.20	48.9	33.8	14.00	30.80	11.00		

* Reference values

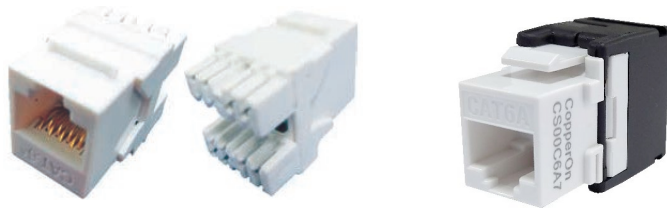
Cable Construction							
Part No.	Construction	Nominal Conductor Diameter mm	Nominal Insulation Dimension mm	No. of Pairs	Nominal Cable OD mm	Reel Size	Jacket
CSU6APVC-06-500GY	UTP	0.565	1.01	4	6.9	500	PVC
CSU6APVC-06-305GY	UTP	0.565	1.01	4	6.9	305	PVC
CSU6ALSOH-06-305GR	UTP	0.565	1.01	4	6.9	305	LSOH

Standard reel size is 305m. Other reel sizes are available upon request.
Standard color is gray. Other colors are available upon request.

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Specifications

- 10Gb/s performance meeting or exceeding all performance requirements of Category 6A (Augmented Cat. 6) standard
- Hardware certified of complying with TIA/EIA-568B.22-1 Cat. 6A by third party
- Meets termination requirements jack with 3-50 micro inch gold plating over nickel
- Insertion Life: 750 cycles minimum UL listed
- Enhanced PC designed technology provides reliable performance



C6AU7A1HNWH-SY

CS00C6A7

Part No.	Description
C6AU7A1HNWH-SY	UTP Cat. 6A keystone jack, punch-down design, 180° termination, white
CS00C6A7	UTP Cat. 6A keystone jack, toolless design, 180° termination, white/black

UK Modules

Specifications

- Meet Augmented Category 6 performance standards
- Exceeds all ANSI/TIA/EIA-568B 2-10 Category 6A and ISO/IEC 11801 class EA component standard requirements at swept frequencies up to 500 MHz
- With ID station label
- Shutter type and without shutter type
- IDC block: LSA block
- Wiring: EIA/TIA 568B



C6AU7Y1SWH

C6AU7Y1AWH

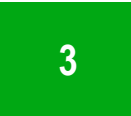
Part No.	Description
C6AU7Y1SWH	Cat. 6A UK low profile module with shutter, size: 25 x 50 mm
C6AU7Y1AWH	Cat. 6A UK low profile module without shutter, size: 25 x 50 mm

Features

- Quick and easy toolless termination
- T568A/T568B wiring schemes
- 50 micro-inch gold-plated contacts
- Compatible with solid/stranded wires with 22-24 AWG conductor size
- Meet or exceed ISO/IEC 11801 and ANSI/TIA-568-C.2 Category 6A standards
- RoHS/REACH Compliant

Application

Category 6A Modular Plug Terminated Links (MPTL)
 10/100/1000/10GBASE-T Ethernet applications
 Security cameras and Wireless Access Points (WAPs)
 Industrial monitoring and control applications
 Building automation systems
 Power over Ethernet (PoE) LED lighting



Technical Specifications

Material	Housing	Polycarbonate
	Plug	Polycarbonate
	Plug Contacts	Phosphor Bronze with 50U" Gold Plating
	IDC Contacts	Phosphor Bronze, Zinc Plating
Plug Mating Cycles		750 Cycles Minimum
Conductor Gauge		22-24 AWG
Conductor Type		Solid/Stranded
Cable Diameter		6-8 mm
Temperature	Storage	-40° to +70°
	Operation	-10° to +60°

Electrical Specifications

Contact Resistance	20mΩ
Insulation Resistance	≤ 500MΩ @100 V DC
Withstand Voltage	DC 1000V AC 700V RMS 60Hz

Ordering Information

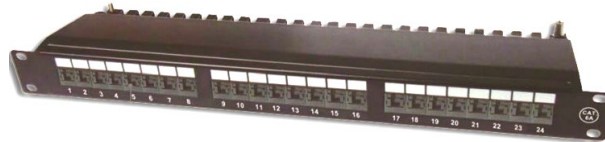
Part Number	Description
CSRJ45TPU6A	Unshielded Cat. 6A field termination RJ45 toolless plug, white

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19" 1U 24 Ports Patch Panel with Shutter Door, Horizontal Type

Specifications

- Available in 1U-24 ports to 2U-48 ports configurations
- Exceeds all TIA/EIA 568B.2-10 Category 6A and ISO/IEC 11801 Class EA component standard requirements at swept frequencies up to 500 MHz
- Certified performance channel up to 100 meters, exceeds requirements of TIA/EIA 568B.2-10, and ISO/IEC 11801 class EA
- IDC block: K: LSA Block, D: Dual Block, H: 110 Block



C6AU8SRK24

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Part No.	Description
C6AU8SRK24	19" UTP Cat. 6A patch panel, 24 ports with shutter door, krone IDC block, 1U, black color
CSUU24	19 "UTP Cat. 6A patch panel 24 ports with modules and cable manager, 1U, black color

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Blank Keystone Jack Panels

Surface Finish: Degreasing, pickling, phosphoric, powder coated

Material: SPCC cold rolling steel, material thickness 1.2mm

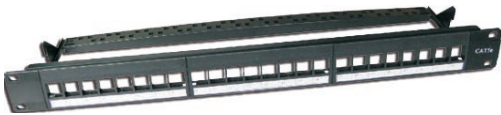
Color: RAL 9004, RAL 7044



CSPPU8WB024



CSPPU8LL024



CSPPU8LM024

Part No.	Description
CSPPU8WB024	19" Blank patch panel, 24 ports, 1U
CSPPU8WB048	19" Blank patch panel, 48 ports, 2U

Part No.	Description
CSPPU8LL024	19" Blank patch panel, with fixed back bar, 24 ports, 1U
CSPPU8LL048	19" Blank patch panel, with fixed back bar, 48 ports, 2U

Part No.	Description
CSPPU8LM024	19" Blank patch panel, plastic front panel, 24 ports, 1U
CSPPU8LM048	19" Blank patch panel, plastic front panel, 48 ports, 2U



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Patch Cords

CopperOn Category 6A patch cords are made from high quality patch cables and RJ45 modular plugs. They support high levels of system performance of ANSI/TIA/EIA-568-B, ISO/IEC11801. The head of patch cords with protection jacket can provide strain relief, help to control cable bend, and securely retain wires.

CopperOn molded type stranded round patch cord or patch cables are electrical cables used to connect one electronic device to another for signal routing. We offer plugs in standard configuration to terminate patch cords for patching or workstation application. Patch Cords can be terminated to the exact need for neater and more organized installation. Patch cords are RoHS Compliant.

Patch cords are assemblies of 4 twisted-pair 24 AWG (0.51mm) stranded wire cable with modular plugs crimped on both ends. T568A & T568B wiring schemes are available.

Applications

Horizontal Distribution & Backbone Cabling

ISDN, ADSL

100M TP-PMD

ATM: 155 Mbps

ATM LAN: 1.2G

IEEE 802.5: 4, 16 Mbps Token Ring

IEEE 802.3: 10, 100, 1000, 10G Base-T



Product Specifications

- CopperOn Category 6A UTP 4 Pair Stranded Copper Patch Cable
- Meet the ANSI/TIA-568-C.2, ISO/IEC 11801 2nd edition, and GENELEC EN 50173-1 Cabling Requirements for Cat. 6A performance.
- Comply with requirements of ANSI/TIA-1096-A (FCC part 68) and reliability requirements of IEC 60603-7 Series for RJ45 8-way connector
- Optimal Performance is achieved when using CopperOn Cat. 6A Patch Cords
- Sheath: PVC or LSZH
- Contact Material: Phosphor Bronze
- Operating Temperature: 14°F to 140°F (-20°C to 60°C)
- Standards: TIA/EIA568-B, ISO/IEC11801
- RoHS Compliant

Part No.	Jacket	Description
CSP-C-UC6ALSZH-01-GR	LSZH	Patch cord UTP Cat. 6A gray 1 meter
CSP-C-UC6ALSZH-02-GR		Patch cord UTP Cat. 6A gray 2 meter
CSP-C-UC6ALSZH-03-GR		Patch cord UTP Cat. 6A gray 3 meter
CSP-C-UC6ALSZH-05-GR		Patch cord UTP Cat. 6A gray 5 meter
CSP-C-UC6ALSZH-10-GR		Patch cord UTP Cat. 6A gray 10 meter
CSP-C-UC6APVC-01-GR	PVC	Patch cord UTP Cat. 6A gray 1 meter
CSP-C-UC6APVC-02-GR		Patch cord UTP Cat. 6A gray 2 meter
CSP-C-UC6APVC-03-GR		Patch cord UTP Cat. 6A gray 3 meter
CSP-C-UC6APVC-05-GR		Patch cord UTP Cat. 6A gray 5 meter
CSP-C-UC6APVC-10-GR		Patch cord UTP Cat. 6A gray 10 meter

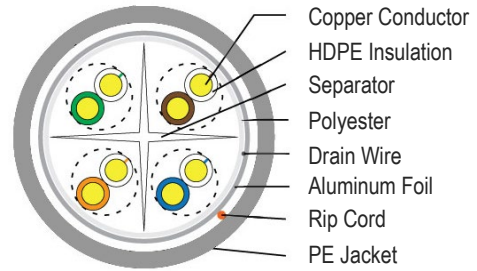
Standard lengths: 1, 2, 3, 5, 7, 10, 15 meters.
Other lengths and colors are available upon request.

Applications

100 Base-TX
 100VG-AnyLAN
 1000 Base-T (Gigabit Ethernet)
 ATM

Product Specifications

Rated Temperature: 60°C, 75°C, 90°C
 Reference Standards: UL444, UL1581
 Solid Bare Copper Conductor
 RoHS/REACH Compliant PVC, PE, or LSZH Jacket
 Complies to ANSI/TIA-568-C.2 & ISO/IEC 11801
 Installation Temperature: 0°C to +50°C
 Minimum Bending Radius: 8D



Transmission Characteristics									
Frequency MHz	Impedance Ohm	RL ≥dB	Attenuation ≤dB/100m	NEXT ≥dB/100m	ELFEXT ≥dB/100m	PS NEXT ≥dB/100m	PS ELFEXT ≥dB/100m	Delay Skew ns/100m	NVP
1	100 ± 15	20.0	1.9	74.3	67.8	72.3	64.8	≤45	68%
4		23.0	3.7	65.3	61.8	63.3	57.7		
8		24.5	5.3	60.3	55.7	58.8	46.7		
10		25.0	5.9	59.3	53.8	57.3	44.8		
16		25.0	7.5	56.3	49.7	54.3	40.7		
20		25.0	8.4	54.8	47.8	52.8	38.7		
25		24.3	9.5	53.4	45.8	51.4	36.8		
31.25		23.6	10.6	51.9	43.9	49.9	34.9		
62.5		21.5	15.4	47.4	37.9	45.4	28.8		
100		20.1	19.8	44.3	33.8	42.3	24.8		
155		18.8	25.1	41.4	27.8	39.4	20.9		
200		18.0	29.0	39.8	25.8	37.8	18.7		
250		17.3	32.8	38.3	24.3	36.3	16.8		
300*		100 ± 20	16.8	36.4	37.1	22.9	35.1		
350*	16.3		39.8	36.1	21.8	34.1	13.9		
400*	15.9		43.0	35.3	20.7	33.7	12.7		
450*	100 ± 22	15.5	46.3	34.5	19.8	32.5	11.7		
500*		15.2	48.9	33.8	19.0	31.8	10.8		
550*		14.9	51.8	33.2	18.2	31.2	9.9		

* Reference values

Cable Construction						
Part No.	Construction	Nominal Conductor Diameter mm	Nominal Insulation Dimension mm	No. of Pairs	Nominal Cable OD mm	Jacket
CS225102-1	F/UTP	0.570	1.09	4	7.3	PVC
CS225202-1	F/UTP	0.570	1.09	4	7.3	PE
CS225602-2	F/UTP	0.570	1.09	4	7.3	LSZH
CS225102-2	F/UTP	0.576	1.09	4	7.3	PVC
CS225602-2	F/UTP	0.576	1.09	4	7.3	LSZH

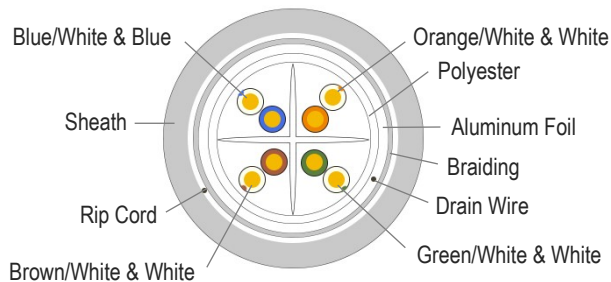
Standard reel size is 305m. Other reel sizes are available upon request.
 Standard color is gray. Other colors are available upon request.

Applications

- 100 Base-TX
- 100VG-AnyLAN
- 1000 Base-T (Gigabit Ethernet)
- ATM

Product Specifications

- Rated Temperature: 60°C, 75°C, 90°C
- Reference Standards: UL444, UL1581
- Solid Bare Copper Conductor
- RoHS/REACH Compliant PVC, PE, or LSZH Jacket
- Complies to ANSI/TIA-568-C.2 & ISO/IEC 11801
- Installation Temperature: 0°C to +50°C
- Minimum Bending Radius: 8D



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Transmission Characteristics									
Frequency MHz	Impedance Ohm	RL ≥dB	Attenuation ≤dB/100m	NEXT ≥dB/100m	ELFEXT ≥dB/100m	PS NEXT ≥dB/100m	PS ELFEXT ≥dB/100m	Delay Skews/100m	NVP
1	100±15	20.0	2.0	74.0	68.0	72.3	65.0	≤45	68%
4		23.0	3.7	65.0	56.0	63.3	53.0		
8		24.5	5.3	60.7	49.9	58.8	46.9		
10		25.0	5.9	59.0	48.0	57.3	45.0		
16		25.0	7.5	56.0	43.9	54.2	40.9		
20		25.0	8.4	55.0	42.0	52.8	39.0		
25		24.3	9.5	53.3	40.0	51.3	37.0		
31.25		23.6	10.6	52.0	38.1	49.9	35.1		
62.5		21.5	15.4	47.0	32.1	45.4	29.1		
100		20.1	19.8	44.0	28.0	42.3	25.0		
200		18.0	29.0	40.0	22.0	37.8	19.0		
250		17.3	32.8	38.0	20.0	36.3	17.0		

Cable Construction								
Part No.	Construction	Nominal Conductor Diameter mm	Nominal Insulation Dimension mm	No. of Pairs	Nominal Cable OD mm	Reel Size	Color	Jacket
CSSSTP6PVC500GR	SF/UTP	0.540	1.05	4	7.8	500	Gray	PVC
CSSSTP6PVC305GR	SF/UTP	0.540	1.05	4	7.8	305	Gray	PVC
CSSF6LSOH305PU	SF/UTP	0.565	1.09	4	7.8	305	Purple	LSOH

Standard reel size is 305m. Other reel sizes are available upon request.
Standard color is gray. Other colors are available upon request.

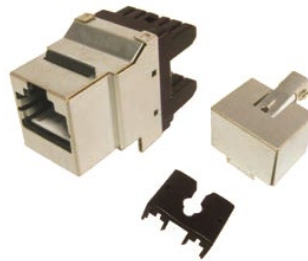
Shielded Keystone Jacks

Specifications

Meet ANSI/TIA/EIA 568B.2
 Meet ISO/IEC 11801 and EN 50173
 Housing: ABS UL-94-0
 IDC: PC UL94V-0, Accept 22-26AWG Solid wire
 Contact: 3-50 micro inches gold plating over nickel plated
 Sticker: Combines Two T568A & T568B wiring to save stock and easy installation



C6S7L9HNBK



C6S7L1HNBK



C6H7A1HNBK

Part No.	Description
C6S7L9HNBK	Fully shielded Cat. 6 keystone jack, 90° termination
C6S7L1HNBK	Fully shielded Cat. 6 keystone jack, 180° termination
C6H7A1HNBK	Half shielded Cat. 6 keystone jack, 180° termination

Shielded In-Line Couplers

Specifications

Meet ANSI/ TIA/EIA-568-B.2
 Meet ISO/IEC 11801 & EN 50173
 Housing: ABS UL-94-0
 IDC: PC UL94V-0, Accept 22 – 26 AWG solid wire
 Contact: 3 – 50 micro inches gold plating over nickel plated
 Sticker: Combines two T568A & 568B wiring to save stock and easy installation



C6S6RJ45AR

Part No.	Description
C6S6RJ45AR	Shielded Cat. 6 in-line coupler RJ45 – RJ45, block style
C6S6RJ45BKS	Shielded Cat. 6 in-line coupler RJ45 – RJ45, slim style

Horizontal Patch Panel with Shutter Door

Specifications

- Shielded 19" 1U 24 ports patch panel with shutter door, horizontal type
- Available in 1U-24 ports to 2U-48 ports configurations
- Exceeds all TIA/EIA 568B. 2-10 Category 6 and ISO/IEC 11801 Class E component standard requirements at swept frequencies up to 250 MHz
- Certified performance channel up to 100 meters, exceeds requirements of TIA/EIA 568B.2-10, and ISO/IEC 11801 Class E
- IDC block: K: LSA Block, D: Dual Block, H: 110 Block



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Part No.	Description
C6S8SRK24	19" shielded Cat. 6 patch panel, 24 ports with shutter door, krone IDC block, black color, 1U

Shielded Blank Patch Panel with Cable Support Bar

Specifications

- 1U high universal modular 19" panel for mounting keystone jacks
- Integrated rear cable support bar for securing cables using cable ties
- Possibility of mounting up to 24 RJ45 shielded keystone jacks
- Metal construction assuring galvanic connections with module shields
- Earthing cord



Part No.	Description
BPS8LL024	19" shielded blank patch panel, 24 ports, rear cable support bar, black, 1U

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Blank Keystone Jack Panels

Surface Finish: Degreasing, pickling, phosphoric, powder coated

Material: SPCC cold rolling steel, material thickness 1.2mm

Color: RAL 9004, RAL 7044



CSPPS8LL024

Part No.	Description
CSPPS8LL024	19" Blank patch panel, 24 ports, with cable support, 1U
CSPPS8LL048	19" Blank patch panel, 48 ports, with cable support, 2U



CSPPS8LA024

Part No.	Description
CSPPS8LA024	19" Blank patch panel, 24 ports, angled type, 1U



CopperOn Category 6 patch cords are made from high quality patch cables and RJ45 modular plugs. They support high levels of system performance of ANSI/TIA/EIA-568-B, ISO/IEC11801. The head of patch cords with protection jacket can provide strain relief, help to control cable bend, and securely retain wires.

CopperOn molded type stranded round patch cord or patch cables are electrical cables used to connect one electronic device to another for signal routing. We offer plugs in standard configuration to terminate patch cords for patching or workstation application. Patch Cords can be terminated to the exact need for neater and more organized installation. Patch cords are RoHS Compliant.

Patch cords are assemblies of 4 twisted-pair stranded wire cable with modular plugs crimped on both ends. T568A & T568B wiring schemes are available.

Applications

- Horizontal Distribution & Backbone Cabling
- ISDN, ADSL
- 100 Mbps TP-PMD
- ATM: 155 Mbps
- ATM LAN: 1.2G
- IEEE 802.5: 4, 16 Mbps Token Ring
- IEEE 802.3: 10, 100, 1000 Base-T



Product Specifications

- CopperOn Category 6 FTP, S/FTP 4 Pair Stranded Copper Patch Cable
- Compliant with Category 6/Class E Performance Levels
- Optimal Performance is achieved when using CopperOn Cat.6 Patch Cords
- Sheath: PVC or LSZH
- Contact Material: Phosphor Bronze
- Operating Temperature: 14°F to 140°F. (-20°C to 60°C)
- Standards: TIA/EIA568-B, ISO/IEC11801
- RoHS Compliant

Part No.	Jacket	Description
CSP-C-SFC6LSZH-01-GR	LSZH	Patch cord S/FTP Cat. 6 gray 1 meter
CSP-C-SFC6LSZH-02-GR		Patch cord S/FTP Cat. 6 gray 2 meter
CSP-C-SFC6LSZH-03-GR		Patch cord S/FTP Cat. 6 gray 3 meter
CSP-C-SFC6PVC-01-GR	PVC	Patch cord S/FTP Cat. 6 gray 1 meter
CSP-C-SFC6PVC-02-GR		Patch cord S/FTP Cat. 6 gray 2 meter
CSP-C-SFC6PVC-03-GR		Patch cord S/FTP Cat. 6 gray 3 meter
CSP-C-FC6LSZH-01-GR	LSZH	Patch cord FTP Cat. 6 gray 1 meter
CSP-C-FC6LSZH-02-GR		Patch cord FTP Cat. 6 gray 2 meter
CSP-C-FC6LSZH-03-GR		Patch cord FTP Cat. 6 gray 3 meter
CSP-C-FC6PVC-01-GR	PVC	Patch cord FTP Cat. 6 gray 1 meter
CSP-C-FC6PVC-02-GR		Patch cord FTP Cat. 6 gray 2 meter
CSP-C-FC6PVC-03-GR		Patch cord FTP Cat. 6 gray 3 meter

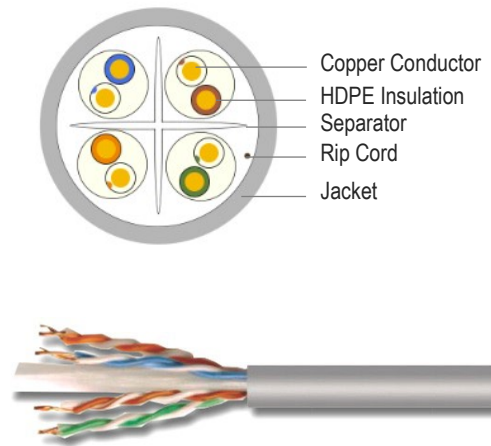
Standard lengths: 1, 2, 3, 5, 7, 10, 15 meters.
Other lengths and colors are available upon request.

Applications

- 100 Base-TX
- 100VG-AnyLAN
- 1000 Base-T (Gigabit Ethernet)

Product Specifications

- Rated Temperature: 60°C, 75°C, 90°C
- Reference Standards: UL444, UL1581
- Solid Bare Copper Conductor
- RoHS/REACH Compliant PVC, PE, or LSZH Jacket
- Complies to ANSI/TIA-568-C.2 & ISO/IEC 11801
- Installation Temperature: 0°C to +50°C
- Minimum Bending Radius: 8D



Transmission Characteristics									
Frequency MHz	Impedance Ohm	RL ≥dB	Attenuation ≤dB/100m	NEXT ≥dB/100m	ELFEXT ≥dB/100m	PS NEXT ≥dB/100m	PS ELFEXT ≥dB/100m	Delay Skews ns/100m	NVP
1	100 ± 15	20.0	1.9	74.3	67.8	72.3	64.8	≤45	68%
4		23.0	3.7	65.3	61.8	63.3	57.7		
10		25.0	5.9	59.3	53.8	57.3	44.8		
16		25.0	7.5	56.3	49.7	54.3	40.7		
20		25.0	8.4	54.8	47.8	52.8	38.7		
31.25		23.6	10.6	51.9	43.9	49.9	34.9		
62.5		21.5	15.4	47.4	37.9	45.4	28.8		
100		20.1	19.8	44.3	33.8	42.3	24.8		
155		18.8	25.1	41.4	27.8	39.4	20.9		
200		18.0	29.0	39.8	25.8	37.8	18.7		
250	17.3	32.8	38.3	24.3	36.3	16.8			
350*	100 ± 20	16.3	39.8	36.1	21.8	34.1	13.9		
400*		15.9	43.0	35.3	20.7	33.7	12.7		
450*	100 ± 22	15.5	46.3	34.5	19.8	32.5	11.7		
500*		15.2	48.9	33.8	19.0	31.8	10.8		
550*		14.9	51.8	33.2	18.2	31.2	9.9		

* Reference values

Cable Construction							
Part No.	Construction	Nominal Conductor Diameter mm	Nominal Insulation Dimension mm	No. of Pairs	Nominal Cable OD mm	Jacket	Remarks
CSU6PE305GR	UTP	0.54	1.03	4	6.1	PE	550MHz
CS215102-2	UTP	0.570	1.03	4	6.4	PVC	550MHz
CS215602-2	UTP	0.570	1.03	4	6.4	LSZH	550MHz
CS215102-1	UTP	0.550	0.98	4	6.1	PVC	250MHz
CS215202-1	UTP	0.565	1.02	4	6.3	PE	250MHz
CS215602-1	UTP	0.565	1.02	4	6.3	LSZH	250MHz

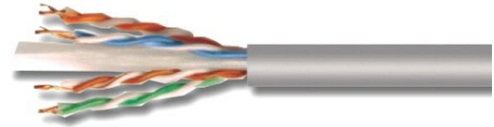
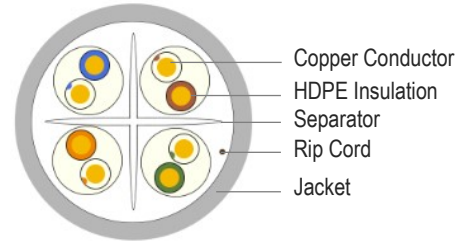
Standard reel size is 305m. Other reel sizes are available upon request.
Standard color is gray. Other colors are available upon request.

Applications

- 100 Base-TX
- 100VG-AnyLAN
- 1000 Base-T (Gigabit Ethernet)

Product Specifications

- Rated Temperature: 60°C, 75°C, 90°C
- Reference Standards: UL444, UL1581
- Solid Bare Copper Conductor
- RoHS/REACH Complied PVC, PE, or LSZH Jacket
- Complies to ANSI/TIA-568-C.2 & ISO/IEC 11801
- Installation Temperature: 0°C to +50°C
- Minimum Bending Radius: 8D



Transmission Characteristics

Frequency MHz	Impedance Ohm	RL ≥dB	Attenuation ≤dB/100m	NEXT ≥dB/100m	ELFEXT ≥dB/100m	PS NEXT ≥dB/100m	PS ELFEXT ≥dB/100m	Delay Skew ns/100m	NVP
1	100 ± 15	20.0	1.9	74.0	68.0	72.3	65.0	≤45.	68%
4.0		23.0	3.7	65.0	56.0	63.3	53.0		
8.0		24.5	5.3	60.7	49.9	58.8	46.9		
10.0		25.0	5.9	59.0	48.0	57.3	45.0		
16.0		25.0	7.5	56.0	43.9	54.2	40.9		
20.0		25.0	8.4	55.0	42.0	52.8	39.0		
25.0		24.3	9.5	53.3	40.0	51.3	37.0		
31.25		23.6	10.6	52.0	38.1	49.9	35.1		
62.5		21.5	15.4	47.0	32.1	45.4	29.1		
100		20.1	19.8	44.0	28.0	42.3	25.0		
200		18.0	29.0	40.0	22.0	37.8	19.0		
250		17.3	32.8	38.0	20.0	36.3	17.0		

Cable Construction

Part No.	Construction	Nominal Conductor Diameter mm	Nominal Insulation Dimension mm	No. of Pairs	Nominal Cable OD mm	Color	Jacket	Remarks
CSU6PVC-06-305GR	UTP	0.54	1.035	4	6.1	Gray	PVC	250MHz
CSU6PVC-06-305BL	UTP	0.54	1.035	4	6.1	Blue	PVC	250MHz
CSU6PVC-06-305PU	UTP	0.54	1.035	4	6.1	Purple	PVC	250MHz
CSU6PVC-06-305RD	UTP	0.54	1.035	4	6.1	Red	PVC	250MHz
CSU6LSZH-06-305GR	UTP	0.54	1.035	4	6.1	Gray	LSZH	250MHz
CSU6PE-06-305GR	UTP	0.54	1.035	4	6.1	Gray	PE	250MHz

Standard reel size is 305m. Other reel sizes are available upon request.
 Standard color is gray. Other colors are available upon request.

Keystone Jacks 90° Termination

Specifications

- Support T568A/568B wiring schemes
- Meet or exceed TIA/EIA Category 6 requirements
- The new design allows high density solution
- V style IDC for wire termination
- Termination caps prevent wire from dropping off



Part No.	Description
C6U7KB9DNWH	Unshielded RJ45 keystone jack, Cat. 6, punch-down design, 90° termination, white
C6U7Y9HNBK-D	Unshielded Cat. 6 keystone jack with dust cover, punch-down design, 90° termination, black

Keystone Jacks 180° Termination

Specifications

- Support T568A/568B wiring schemes
- Toolless jack design
- Contacts: phosphor bronze with 6 to 50 u" gold plating
- Accept 22- 26 AWG solid conductors
- Easy and quick termination
- High reliability and superior performance



Part No.	Description
CS003180	Unshielded RJ45 keystone jack, Cat. 6, toolless design, 180° termination, white

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Features

- Quick and easy toolless termination
- T568A/T568B wiring schemes
- 50 micro-inch gold-plated contacts
- Compatible with solid/stranded wires with 22-24 AWG conductor size
- Meet or exceed ISO/IEC 11801 and ANSI/TIA-568-C.2 Category 6 standards
- RoHS/REACH Compliant

Application

Category 6 Modular Plug Terminated Links (MPTL)
 10/100/1000BASE-T Ethernet applications
 Security cameras and Wireless Access Points (WAPs)
 Industrial monitoring and control applications
 Building automation systems
 Power over Ethernet (PoE) LED lighting



Technical Specifications

Material	Housing	Polycarbonate
	Plug	Polycarbonate
	Plug Contacts	Phosphor Bronze with 50U" Gold Plating
	IDC Contacts	Phosphor Bronze, Zinc Plating
Plug Mating Cycles		750 Cycles Minimum
Conductor Gauge		22-24 AWG
Conductor Type		Solid/Stranded
Cable Diameter		6-8 mm
Temperature	Storage	-40° to +70°
	Operation	-10° to +60°

Electrical Specifications

Contact Resistance	20mΩ
Insulation Resistance	≤ 500MΩ @100 V DC
Withstand Voltage	DC 1000V AC 700V RMS 60Hz

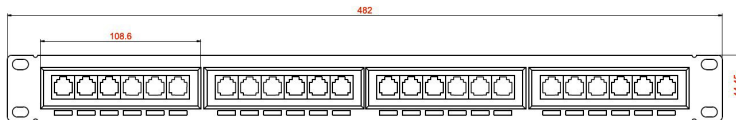
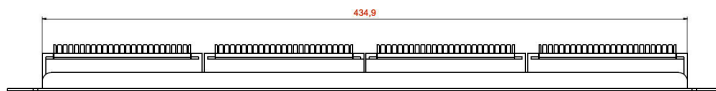
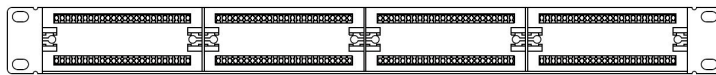
Ordering Information

Part Number	Description
CSRJ45TPU6	Unshielded Cat. 6 field termination RJ45 toolless plug, white

Unshielded Punch-Down Patch Panels

Specifications

- 19" x 1.75" (1U) / 3.5" (2U)
- Meet ANSI/TIA/EIA 568B.2, ISO/IEC 11801 & EN 50173
- 24 or 48 unshielded RJ45 jacks
- Jack: RJ45 8P8C 3-50 micro inches gold plating over nickel plated contacts
- IDC: PC UL94V-0, white color
- Accept 22-26 AWG solid conductors
- Support T568A & T568B wiring schemes
- 19" metal plate housing, black color painting
- Optional cable support bar



ADT-BM Back Bar

Part No.	Description
C6U8BBH24	19" unshielded Cat. 6 patch panel, 24 ports, punch-down style, 110 IDC, 1U
C6U8BBK24	19" unshielded Cat. 6 patch panel, 24 ports, punch-down style, krone IDC, 1U
C6U8BBD24	19" unshielded Cat. 6 patch panel, 24 ports, punch-down style, dual IDC, 1U
C6U8BBH48	19" unshielded Cat. 6 patch panel, 48 ports, punch-down style, 110 IDC, 2U
C6U8BBK48	19" unshielded Cat. 6 patch panel, 48 ports, punch-down style, krone IDC, 2U
C6U8BBD48	19" unshielded Cat. 6 patch panel, 48 ports, punch-down style, dual IDC, 2U
ADT-BM	Rear cable support bar



Patch Panels

Blank Keystone Patch Panels

Surface Finish: Degreasing, pickling, phosphoric, powder coated

Material: SPCC cold rolling steel, material thickness 1.2mm

Color: RAL 9004, RAL 7044



CSPPU8WB024

Part No.	Description
CSPPU8WB024	19" Blank patch panel, 24 ports, 1U
CSPPU8WB048	19" Blank patch panel, 48 ports, 2U



CSPPU8LL024

Part No.	Description
CSPPU8LL024	19" Blank patch panel, with fixed back bar, 24 ports, 1U
CSPPU8LL048	19" Blank patch panel, with fixed back bar, 48 ports, 2U



CSPPU8LM024

Part No.	Description
CSPPU8LM024	19" Blank patch panel, 24 ports, plastic front panel, 1U
CSPPU8LM048	19" Blank patch panel, 48 ports, plastic front panel, 2U

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CopperOn Category 6 patch cords are made from high quality patch cables and RJ45 modular plugs. They support high levels of system performance of ANSI/TIA/EIA-568-B, ISO/IEC11801. The head of patch cords with protection jacket can provide strain relief, help to control cable bend, and securely retain wires.

CopperOn molded type stranded round patch cord or patch cables are electrical cables used to connect one electronic device to another for signal routing. We offer plugs in standard configuration to terminate patch cords for patching or workstation application. Patch Cords can be terminated to the exact need for neater and more organized installation. Patch cords are RoHS Compliant.

Patch cords are assemblies of 4 twisted-pair 24 AWG (0.51mm) stranded wire cable with modular plugs crimped on both ends. T568A & T568B wiring schemes are available.

Applications

- Horizontal Distribution & Backbone Cabling
- ISDN, ADSL
- 100 Mbps TP-PMD
- ATM: 155 Mbps
- ATM LAN: 1.2G
- IEEE 802.5: 4,16 Mbps Token Ring
- IEEE 802.3: 10,100,1000 Base-T

Product Specifications

- CopperOn Category 6 UTP 4 pair stranded copper patch cable
- Compliant with Category 6/Class E performance levels
- Optimal performance is achieved when using CopperOn Cat.6 patch cords
- Sheath: PVC or LSZH
- Contact Material: phosphor bronze
- Operating Temperature: 14°F to 140°F. (-20°C to 60°C)
- Standards: TIA/EIA-568-B, ISO/IEC11801
- RoHS Compliant



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Part No.	Jacket	Description
CSP-C-UC6LSZH-01-GR	LSZH	Patch cord UTP Cat. 6 gray 1 meter
CSP-C-UC6LSZH-02-GR		Patch cord UTP Cat. 6 gray 2 meter
CSP-C-UC6LSZH-03-GR		Patch cord UTP Cat. 6 gray 3 meter
CSP-C-UC6LSZH-05-GR		Patch cord UTP Cat. 6 gray 5 meter
CSP-C-UC6LSZH-10-GR		Patch cord UTP Cat. 6 gray 10 meter
CSP-C-UC6PVC-01-GR	PVC	Patch cord UTP Cat. 6 gray 1 meter
CSP-C-UC6PVC-02-GR		Patch cord UTP Cat. 6 gray 2 meter
CSP-C-UC6PVC-03-GR		Patch cord UTP Cat. 6 gray 3 meter
CSP-C-UC6PVC-05-GR		Patch cord UTP Cat. 6 gray 5 meter
CSP-C-UC6PVC-10-GR		Patch cord UTP Cat. 6 gray 10 meter

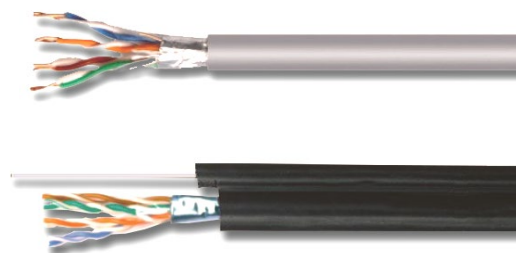
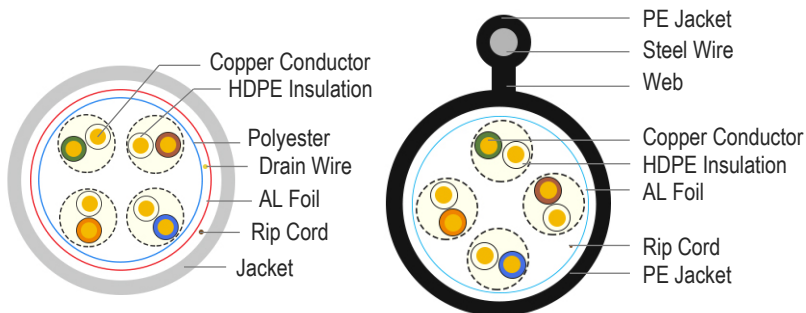
Standard lengths: 1, 2, 3, 5, 7, 10, 15 meters.
Other lengths and colors are available upon request.

Applications

- Ethernet
- 10 Base-T
- 100 Base-T4 ATM
- TP-PMD Speech Telephone
- Multimedia Trunk Wiring

Product Specifications

- Rated Temperature: 60°C, 75°C, 90°C
- Reference Standards: UL444, UL1581
- Solid Bare Copper Conductor
- RoHS/REACH Compliant PVC, PE, or LSZH Jacket
- Complies to ANSI/TIA-568-C.2 & ISO/IEC 11801
- Installation Temperature: 0°C to +50°C
- Minimum Bending Radius: 8D



Transmission Characteristics								
Frequency MHz	Impedance Ohm	RL ≥dB	Attenuation ≤dB/100m	NEXT ≥dB/100m	ELFEXT ≥dB/100m	PS NEXT ≥dB/100m	PS ELFEXT ≥dB/100m	NVP
1	100 ± 15	20.0	2.0	65.3	63.8	62.3	60.8	68%
4		23.0	4.1	56.3	51.7	53.3	48.7	
10		25.0	6.5	50.3	43.8	47.3	40.8	
16		25.0	8.2	47.3	39.7	44.2	36.7	
20		25.0	9.3	48.5	37.7	42.8	34.7	
31.25		23.6	11.6	42.9	33.9	39.9	30.9	
62.5		21.5	17.0	38.4	27.8	35.4	24.8	
100		20.1	22.0	35.3	23.8	32.3	20.8	
155*		18.8	28.1	32.4	20.2	20.4	17.2	
200*		100 ± 18	18.0	32.4	30.8	18.0	27.8	
310*	100 ± 22	16.7	41.8	27.9	14.2	24.9	11.2	
350*		16.3	44.9	27.1	13.1	24.1	10.1	

* Reference values

Cable Construction							
Part No.	Construction	Nominal Conductor Diameter mm	Nominal Insulation Dimension mm	No. of Pairs	Nominal Cable OD mm	Jacket	Remarks
CS224102	F/UTP	0.505	0.93	4	6.3	PVC	100MHz
CS224202-1	F/UTP	0.505	0.93	4	6.3	PE	100MHz
CS224702	F/UTP	0.505	0.93	4	6.3	LSZH	100MHz
CS224102-2	F/UTP	0.520	0.94	4	6.4	PVC	350MHz
CS224202-2	F/UTP	0.520	0.94	4	6.4	PE	350MHz
CS224602	F/UTP	0.520	0.94	4	6.4	LSZH	350MHz

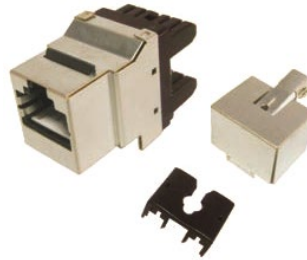
Shielded Keystone Jacks

Specifications

- Meet ANSI/TIA/EIA 568B.2
- Meet ISO/IEC 11801 and EN 50173
- Housing: ABS UL-94-0
- IDC: PC UL94V-0, Accept 22-26AWG solid conductors
- 3-50 micro inches gold plating over nickel plated contacts
- T568A or T568B wiring schemes



CS00290C5E



CS002180C5E



C5H7A1HNBK

Part No.	Description
CS00290C5E	Fully shielded Cat. 5e RJ45 keystone jack, 90° termination
CS002180C5E	Fully shielded Cat. 5e RJ45 keystone jack, 180° termination
C5H7A1HNBK	Half shielded Cat. 5e RJ45 keystone jack, 180° termination

Shielded Patch Panels

Specifications

- Meet ANSI/TIA/EIA 568B.2, ISO/IEC 11801 & EN 50173
- 24 fully shielded RJ45 jacks
- Jack: RJ45 8P8C 3-50 micro inches gold plating over nickel plated contacts
- IDC: PC UL94V-0, white color, Krone IDC
- Accept 22-26 AWG solid conductors
- Support T568A & T568B wiring schemes
- 1U 19" fully shielded metal plate housing, black or gray color painting
- Ground wire: 22 AWG with terminal 450mm
- With cable holder



C5S800K24BK

Part No.	Description
C5S800K24BK	19" shielded Cat. 5e patch panel, 24 ports, krone IDC, black color, 1U
C5S800K24GY	19" shielded Cat. 5e patch panel, 24 ports, krone IDC, gray color, 1U
CS00224	19" shielded Cat. 5e patch panel, 24 modular ports, cable manager, black color, 1U

Shielded Blank Patch Panel with Cable Support Bar

Specifications

- 1U high universal modular 19" panel for mounting keystone jacks
- Integrated rear cable support bar
- Possibility of mounting up to 24 RJ45 shielded keystone jacks
- Metal construction assuring galvanic connections with module shields
- Earthing cord



Part No.	Description
BPS8LL024	19" shielded blank patch panel, 24 ports, with cable support bar, black, 1U

Blank Keystone Patch Panels

Surface Finish: Degreasing, pickling, phosphoric, powder coated

Material: SPCC cold rolling steel, material thickness 1.2mm

Color: RAL 9004, RAL 7044



CSPPS8LL024

Part No.	Description
CSPPS8LL024	19" Blank patch panel, 24 ports, with cable support bar, 1U
CSPPS8LL048	19" Blank patch panel, 48 ports, with cable support bar, 2U



CSPPS8LA024

Part No.	Description
CSPPS8LA024	19" Blank patch panel, 24 ports, angled type, 1U



Patch Cords

CopperOn Category 5e patch cords are made from high quality patch cables and RJ45 modular plugs. They support high levels of system performance of ANSI/TIA/EIA-568-B, ISO/IEC11801. The head of patch cords with protection jacket can provide strain relief, help to control cable bend, and securely retain wires.

CopperOn molded type stranded round patch cord or patch cables are electrical cables used to connect one electronic device to another for signal routing. We offer plugs in standard configuration to terminate patch cords for patching or workstation application. Patch Cords can be terminated to the exact need for neater and more organized installation. Patch cords are RoHS Compliant.

Patch cords are assemblies of 4 twisted-pair stranded wire cable with modular plugs crimped on both ends. T568A & T568B wiring schemes are available.

Applications

- Horizontal Distribution & Backbone Cabling
- ISDN, ADSL
- 100 Mbps TP-PMD
- ATM: 155 Mbps
- IEEE 802.5: 4, 16 Mbps Token Ring
- IEEE 802.3: 10, 100, 1000 Base-T



Product Specifications

- CopperOn Category 5e shielded 4 pair stranded copper patch cable
- Compliant with Category 5e/Class D performance levels
- Optimal performance is achieved when using CopperOn Cat. 5e Patch Cords
- Sheath: PVC or LSZH
- Contact Material: phosphor bronze
- Operating Temperature: 14°F to 140°F. (-20°C to 60°C)
- Standards: TIA/EIA-568-B, ISO/IEC11801
- RoHS Compliant

Part No.	Jacket	Description
CSP-C-FC5ELSZH-01-GR	LSZH	Patch cord FTP Cat. 5e gray 1 meter
CSP-C-FC5ELSZH-02-GR		Patch cord FTP Cat. 5e gray 2 meter
CSP-C-FC5ELSZH-03-GR		Patch cord FTP Cat. 5e gray 3 meter
CSP-C-FC5ELSZH-05-GR		Patch cord FTP Cat. 5e gray 5 meter
CSP-C-FC5ELSZH-10-GR		Patch cord FTP Cat. 5e gray 10 meter
CSP-C-FC5EPVC-01-GR	PVC	Patch cord FTP Cat. 5e gray 1 meter
CSP-C-FC5EPVC-02-GR		Patch cord FTP Cat. 5e gray 2 meter
CSP-C-FC5EPVC-03-GR		Patch cord FTP Cat. 5e gray 3 meter
CSP-C-FC5EPVC-05-GR		Patch cord FTP Cat. 5e gray 5 meter
CSP-C-FC5EPVC-10-GR		Patch cord FTP Cat. 5e gray 10 meter

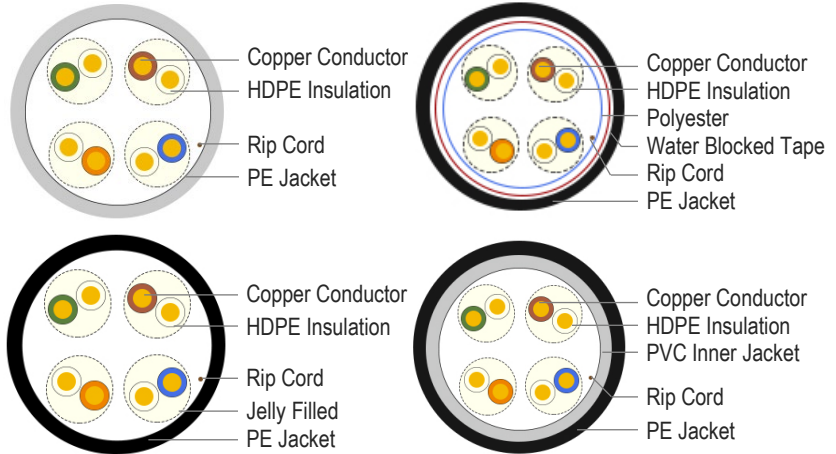
Standard lengths: 1, 2, 3, 5, 7, 10, 15 meters.
Other lengths and colors are available upon request.

Applications

100 Base-TX
 100 Base-T4
 100VG-AnyLAN
 1000 Base-T
 ATM

Product Specifications

Rated Temperature: 60°C, 75°C, 90°C
 Reference Standards: UL444, UL1581
 Solid Bare Copper Conductor
 RoHS/REACH Compliant PVC, PE, or LSZH Jacket
 Complies to ANSI/TIA-568-C.2 & ISO/IEC 11801
 Installation Temperature: 0°C to +50°C
 Minimum Bending Radius: 8D



Transmission Characteristics								
Frequency MHz	Impedance Ohm	RL ≥dB	Attenuation ≤dB/100m	NEXT ≥dB/100m	ELFEXT ≥dB/100m	PS NEXT ≥dB/100m	PS ELFEXT ≥dB/100m	NVP
1	100 ± 15	20.0	2.0	65.3	63.8	62.3	60.8	68%
4		23.0	4.1	56.3	51.7	53.3	48.7	
10		25.0	6.5	50.3	43.8	47.3	40.8	
16		25.0	8.2	47.3	39.7	44.2	36.7	
20		25.0	9.3	48.5	37.7	42.8	34.7	
31.25		23.6	11.6	42.9	33.9	39.9	30.9	
62.5		21.5	17.0	38.4	27.8	35.4	24.8	
100		20.1	22.0	35.3	23.8	32.3	20.8	
155*		18.8	28.1	32.4	20.2	20.4	17.2	
200*		100 ± 18	18.0	32.4	30.8	18.0	27.8	
310*	100 ± 22	16.7	41.8	27.9	14.2	24.9	11.2	
350*		16.3	44.9	27.1	13.1	24.1	10.1	

* Reference values

Cable Construction							
Part No.	Construction	Nominal Conductor Diameter mm	Nominal Insulation Dimension mm	No. of Pairs	Nominal Cable OD mm	Jacket	Remarks
CS214102	UTP	0.50	0.89	4	5.1/5.4	PVC	100MHz
CS1214202	UTP	0.50	0.89	4	5.1/5.4	PE	100MHz
CS214702-1	UTP	0.50	0.89	4	5.1/5.4	LSZH	100MHz
CS214402	UTP	0.51	1.01	4	6.0	PE	Jelly Filled 100MHz
CS214302	UTP	0.51	0.95	4	6.5	PE	Water blocked Tap100MHz
CS214502	UTP	0.50	0.90	4	6.3	PVC+PE	100MHz
CS214102-2	UTP	0.51	0.91	4	5.3	PVC	350MHz
CS214702-2	UTP	0.51	0.91	4	5.3	LSZH	350MHz

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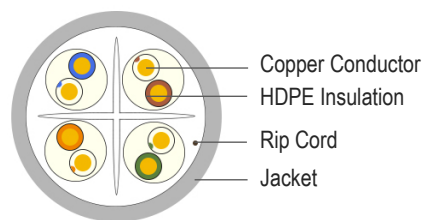


Applications

- 100 Base-TX
- 100 Base-T4
- 100VG-AnyLAN
- 1000 Base-T
- ATM

Product Specifications

- Rated Temperature: 60°C, 75°C, 90°C
- Reference Standards: UL444, UL1581
- Solid Bare Copper Conductor
- RoHS/REACH Compliant PVC, PE, or LSZH Jacket
- Complies to ANSI/TIA-568-C.2 & ISO/IEC 11801
- Installation Temperature: 0°C to +50°C
- Minimum Bending Radius: 8D



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Transmission Characteristics									
Frequency MHz	Impedance Ohm	RL ≥dB	Attenuation ≤dB/100m	NEXT ≥dB/100m	ELFEXT ≥dB/100m	PS NEXT ≥dB/100m	PS ELFEXT ≥dB/100m	Delay Skews ns/100m	NVP
1	100 ± 15	20.0	2.1	65.3	64.0	62.3	61.0	≤45	68%
4		23.0	4.1	56.3	52.0	53.3	49.0		
8		24.5	5.8	51.8	45.9	48.8	42.9		
10		25.0	6.5	50.3	44.0	47.3	41.0		
16		25.0	8.2	47.2	39.9	44.4	36.9		
20		25.0	9.3	45.8	38.0	42.8	35.0		
25		24.3	10.4	44.3	35.8	41.3	33.0		
31.25		23.6	11.7	42.9	34.1	39.9	31.1		
62.5		21.5	17.0	38.4	28.1	35.4	25.1		
100		20.1	22.0	35.3	24.0	32.3	21.0		

Cable Construction							
Part No.	Construction	Nominal Conductor Diameter mm	Nominal Insulation Dimension mm	No. of Pairs	Nominal Cable OD mm	Jacket	Color
CSU5EPVC305GR	UTP	0.49	0.88	4	5.0	PVC	Gray
CSU5ELSZH305GR	UTP	0.49	0.88	4	5.0	LSZH	Gray

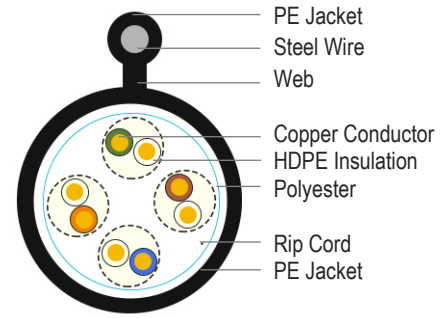
Standard reel size is 305m. Other reel sizes are available upon request.
Standard color is gray. Other colors are available upon request.

Applications

- 100 Base-TX
- 100 Base-T4
- 100VG-AnyLAN
- 1000 Base-T (Gigabit Ethernet)
- Outdoor Aerial Installation

Product Specifications

- Rated Temperature: 60°C, 75°C, 90°C
- Reference Standards: UL444, UL1581
- Solid Bare Copper Conductor
- RoHS/REACH Compliant PVC, PE, or LSZH Jacket
- Complies to ANSI/TIA-568-C.2 & ISO/IEC 11801
- Installation Temperature: 0°C to +50°C
- Minimum Bending Radius: 8D



Electrical Characteristics								
Frequency MHz	Impedance Ohm	RL ≥dB	Attenuation ≤dB/100m	NEXT ≥dB/100m	ELFEXT ≥dB/100m	PS NEXT ≥dB/100m	PS ELFEXT ≥dB/100m	NVP
1	100 ± 15	20.0	2.0	65.3	63.8	62.3	60.8	68%
4		23.0	4.1	56.3	51.7	53.3	48.7	
10		25.0	6.5	50.3	43.8	47.3	40.8	
16		25.0	8.2	47.3	39.7	44.2	36.7	
20		25.0	9.3	48.5	37.7	42.8	34.7	
31.25		23.6	11.6	42.9	33.9	39.9	30.9	
62.5		21.5	17.0	38.4	27.8	35.4	24.8	
100		20.1	22.0	35.3	23.8	32.3	20.8	
155*		18.8	28.1	32.4	20.2	20.4	17.2	
200*	100 ± 18	18.0	32.4	30.8	18.0	27.8	15.0	
310*	100 ± 22	16.7	41.8	27.9	14.2	24.9	11.2	
350*		16.3	44.9	27.1	13.1	24.1	10.1	

* Reference values

Cable Construction							
Part No.	Construction	Nominal Conductor Diameter mm	Nominal Insulation Dimension mm	No. of Pairs	Nominal Cable OD mm	Jacket	Remarks
CS214602-1	Aerial UTP	0.50	0.89	4	5.4 x 9.0	PE	100MHz
CS214802-1	Aerial UTP	0.50	0.89	4	5.4 x 9.0	PVC	100MHz
CS214602-2	Aerial UTP	0.51	0.90	4	5.5 x 9.1	PE	350MHz
CS214802-2	Aerial UTP	0.51	0.90	4	5.5 x 9.1	PVC	350MHz

Standard reel size is 305m. Other reel sizes are available upon request.
Standard color is black. Other colors are available upon request.

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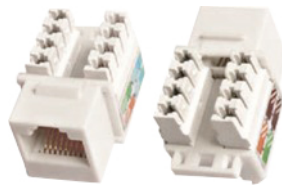
Keystone Jacks 90° Termination

Specifications

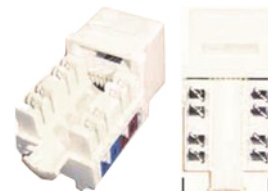
Compact jack design, 8 positions and 8 conductors
 Contacts: phosphor bronze with 6 to 50 u" gold plating
 Accept 22- 26 AWG solid conductors
 Easy and quick to be terminated
 High reliability and superior performance



CS00390C5E



C5U7X9HNWH



C5U7Y9HNBK-SY

Part No.	Description
CS00390C5E	Unshielded Cat. 5e keystone jack, punch-down design, 90° termination, white
C5U7X9HNWH	Unshielded Cat. 5e keystone jack, slim type, punch-down design, 90° termination, white
C5U7Y9HNBK-SY	Unshielded Cat. 5e keystone jack, slim type, 17.20mm width, punch-down design, 90° termination, white

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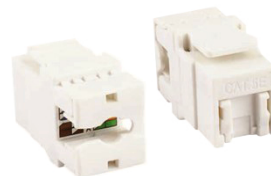
Keystone Jacks 180° Termination

Specifications

Support T568A/T568B wiring schemes
 Meet or exceed TIA/EIA Cat. 5e requirements
 The new design allows high density solution
 V style IDC contacts
 Termination caps prevent wire from dropping off



CS003180C5E



C5U7A1HNWH-D



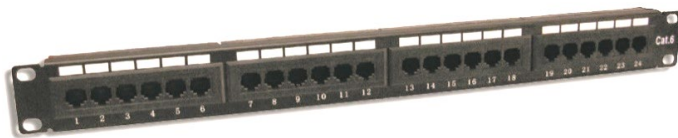
C5U7A1HNWH-SY

Part No.	Description
CS003180C5E	Unshielded Cat. 5e keystone jack, punch-down design, 180° termination, black
C5U7A1HNWH-D	Unshielded Cat. 5e keystone jack, with dust cover, punch-down design, 180° termination, white
C5U7A1HNWH-SY	Unshielded Cat. 5e keystone jack, short body, length 28mm, punch-down design, 180° termination, white

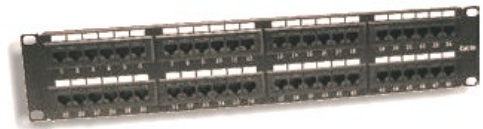
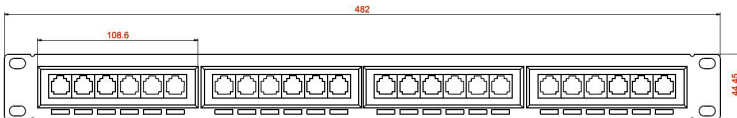
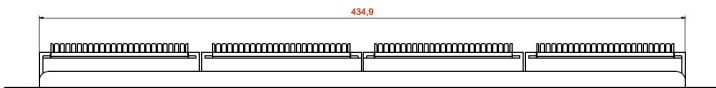
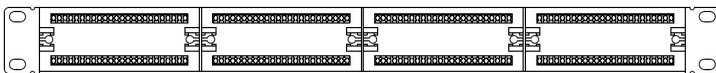
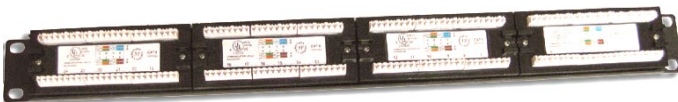
Unshielded Cat. 5e Patch Panels

Specifications

- 19" x 1.75" (1U) / 3.5" (2U)
- 24/48 ports available
- Meet ANSI/TIA/EIA-568-B.2, ISO/IEC 11801, EN 50173
- Jack: RJ45 8P8C 3-50 micro inches gold plating over nickel plated contacts
- IDC: PC UL94V-0, white color
- Accept 22-26 AWG solid conductors
- Support T568A & T568B wiring schemes
- 19" metal plate housing, black color painting
- With support hole for cable ties



C5U8BBH24



C5U8BBH48



C5U8CBD24



C5U845D24

Part No.	Description
C5U8BBH24	19" unshielded Cat. 5e patch panel, 24 ports, 110 IDC, black, 1U
C5U8BBK24	19" unshielded Cat. 5e patch panel, 24 ports, krone IDC, black, 1U
C5U8BBD24	19" unshielded Cat. 5e patch panel, 24 ports, dual IDC, black, 1U
C5U8BBH48	19" unshielded Cat. 5e patch panel, 48 ports, 110 IDC, black, 2U
C5U8BBK48	19" unshielded Cat. 5e patch panel, 48 ports, krone IDC, black, 2U
C5U8BBD48	19" unshielded Cat. 5e patch panel, 48 ports, dual IDC, black, 2U
C5U8CBD24	19" unshielded Cat. 5e patch panel, 24 ports, colored bezels, dual IDC, black, 1U
C5U845D24	19" unshielded Cat. 5e Patch panel, 24 ports, 45° bezel, dual IDC, black, 1U

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Patch Panels

Blank Keystone Jack Panels

Surface Finish: Degreasing, pickling, phosphoric, powder coated

Material: SPCC cold rolling steel, material thickness 1.2mm

Color: RAL 9004, RAL 7044



CSPPU8WB024

Part No.	Description
CSPPU8WB024	19" Blank patch panel, 24 ports, black, 1U
CSPPU8WB048	19" Blank patch panel, 48 ports, black, 2U



CSPPU8LL024

Part No.	Description
CSPPU8LL024	19" Blank patch panel, with fixed back bar, 24 ports, 1U
CSPPU8LL048	19" Blank patch panel, with fixed back bar, 48 ports, 2U



CSPPU8LM04

Part No.	Description
CSPPU8LM024	19" Blank patch panel, 24 ports, plastic front panel, 1U
CSPPU8LM048	19" Blank patch panel, 48 ports, plastic front panel, 2U

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CopperOn Category 5e patch cords are made from high quality patch cables and RJ45 modular plugs. They support high levels of system performance of ANSI/TIA/EIA-568-B, ISO/IEC11801. The head of patch cords with protection jacket can provide strain relief, help to control cable bend, and securely retain wires.

CopperOn molded type stranded round patch cord or patch cables are electrical cables used to connect one electronic device to another for signal routing. We offer plugs in standard configuration to terminate patch cords for patching or workstation application. Patch Cords can be terminated to the exact need for neater and more organized installation. Patch cords are RoHS Compliant.

Patch cords are assemblies of 4 twisted-pair 24 AWG (0.51mm) stranded wire cable with modular plugs crimped on both ends. T568A & T568B wiring schemes are available.

Applications

- Horizontal Distribution & Backbone Cabling
- ISDN, ADSL
- 100 Mbps TP-PMD
- ATM: 155 Mbps
- IEEE 802.5: 4,16 Mbps Token Ring
- IEEE 802.3: 10,100,1000 Base-T



Product Specifications

- CopperOn Category 5e UTP 4 pair stranded copper patch cable
- Compliant with Category 5e/Class D performance levels
- Optimal performance is achieved when using CopperOn Cat. 5e patch cords
- Sheath: PVC or LSZH
- Contact Material: Phosphor Bronze
- Operating Temperature: 14°F to 140°F (-20°C to 60°C)
- Standards: TIA/EIA-568-B, ISO/IEC11801
- RoHS Compliant

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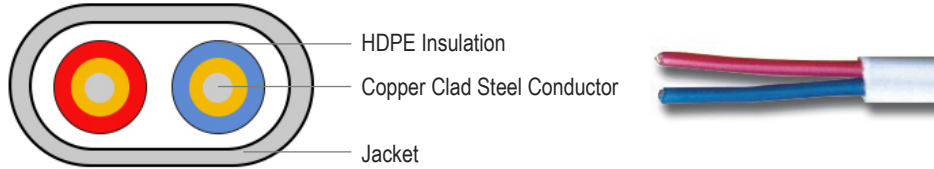


Part No.	Jacket	Description
CSP-C-UC5ELSZH-01-GR	LSZH	Patch cord UTP Cat. 5e gray 1 meter
CSP-C-UC5ELSZH-02-GR		Patch cord UTP Cat. 5e gray 2 meter
CSP-C-UC5ELSZH-03-GR		Patch cord UTP Cat. 5e gray 3 meter
CSP-C-UC5ELSZH-05-GR		Patch cord UTP Cat. 5e gray 5 meter
CSP-C-UC5ELSZH-10-GR		Patch cord UTP Cat. 5e gray 10 meter
CSP-C-UC5EPVC-01-GR	PVC	Patch cord UTP Cat. 5e gray 1 meter
CSP-C-UC5EPVC-02-GR		Patch cord UTP Cat. 5e gray 2 meter
CSP-C-UC5EPVC-03-GR		Patch cord UTP Cat. 5e gray 3 meter
CSP-C-UC5EPVC-05-GR		Patch cord UTP Cat. 5e gray 5 meter
CSP-C-UC5EPVC-10-GR		Patch cord UTP Cat. 5e gray 10 meter

Standard lengths: 1, 2, 3, 5, 7, 10, 15 meters.
Other lengths and colors are available upon request.

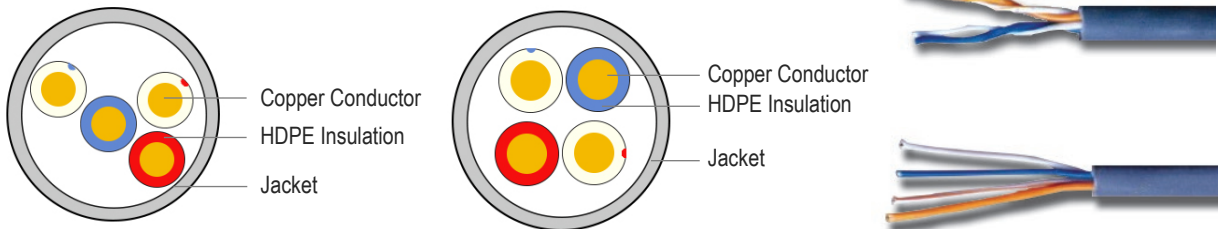
Indoor Telephone Cable (As Per Technical Spec. YD/T722-94)

PE Insulation, PVC Sheath, Horizontal Double-Cores Copper-Clad Steel Drop Wire



Specification	DC Resistance at +20°C Ω/km	Insulation Resistance MΩ km (DC100-500V)	Capacitance nF/km	Imbalance of Conductor Resistance %	Dielectric Strength
HBGTYV2 x 1/1.0-20	≤107	≥10000	43 ± 2	≥4.5	No punctured under 1500V/60sec
HBGTYV2 x 1/1.0-30	≤72	≥10000	43 ± 2	≥4.5	
HBGTYV2 x 1/1.0-40	≤54	≥10000	43 ± 2	≥4.5	
HBGTYV2 x 1/1.2-20	≤63	≥10000	46 ± 2	≥4.5	
HBGTYV2 x 1/1.2-30	≤51	≥10000	46 ± 2	≥4.5	
HBGTYV2 x 1/1.2-40	≤38	≥10000	46 ± 2	≥4.5	

Indoors Telephone Cable (As Per Technical Spec. YD/T840-1996)



Serial No.	Item	Unit	Specified Requirement			
1	DC Resistance of Single Conductor at +20°C	Ω/km	Nominal Dia.(mm)	0.5	0.6	0.8
			Max. Value	95.0	65.0	36.0
2	Imbalance of DC Resistance at +20°C	%	Nominal Dia.(mm)	0.5	0.6	0.8
			Max. Value	5	5	6
3	Insulation Resistance at +20°C	MΩ km	FRPE PE ≥5000	PVC ≥200		
4	Insulation Dielectric Strength	-	No Punctured under AC 1500/1 min or 2250DC/1 min			
5	Conductors	-	No breakage, No blending			

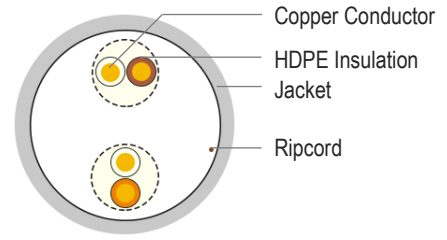
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Applications

10Base-T
 100Base-T4
 Telephony Voice Wiring

Product Specifications

Rated Temperature: 60°C, 75°C, 90°C
 Reference Standards: UL444, UL1581
 Solid Bare Copper Conductor
 RoHS/REACH Compliant PVC, PE, or LSZH Jacket
 Complies to ANSI/TIA-568-C.2 & ISO/IEC 11801
 Installation Temperature: 0°C to +50°C
 Minimum Bending Radius: >4P 15D, <4P 4D


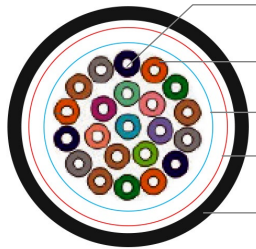

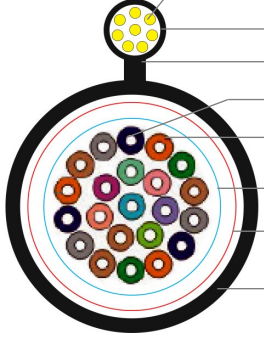

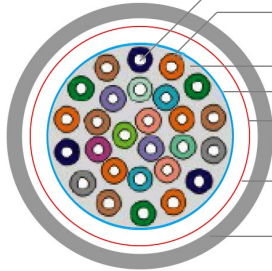

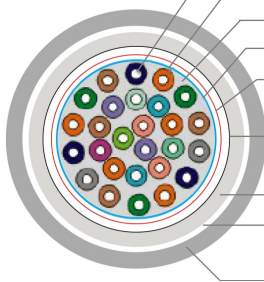


Electrical Characteristics					
Frequency MHz	Impedance Ohm	RL ≥dB	Attenuation ≤dB/100m	NEXT ≥dB/100m	PS NEXT ≥dB/100m
1	100 ± 15	12.0	2.6	41.3	41.3
4		12.0	5.6	32.3	32.3
8		12.0	8.5	27.8	27.8
10		12.0	9.7	26.3	26.3
16		10.0	13.1	23.3	23.3

Cable Construction						
Part No.	Construction	Nominal Conductor Dimension mm	Nominal Insulation Dimension mm	No. of Pairs	Nominal Cable OD mm	Jacket
CS211101	UTP	0.50	0.88	2	3.9	PVC
CS211201						PE
CS21160						LSZH
CS211106	UTP	0.50	0.88	25	11.8	PVC
CS211206						PE
CS211606						LSZH
CS211108	UTP	0.50	0.88	50	14.8	PVC
CS211208						PE
CS211608						LSZH
CS211109	UTP	0.50	0.88	100	19.8	PVC
CS211209						PE
CS211609						LSZH

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Outdoor Telephone Cable

Type	Nominal Conductor Diameter	Pairs	Structure Drawing
 <p>Air Core Telephone Cable</p>	0.4mm	5-2400P	 <ul style="list-style-type: none"> Copper Conductor HDPE Insulation Polyester Co-Polyester Coated Aluminum Tape LDPE Jacket
	0.5mm	5-1200P	
	0.6mm	5-600P	
	0.7mm	5-300P	
	0.8mm	5-200P	
 <p>Aerial Telephone Cable</p>	0.4mm	5-300P	 <ul style="list-style-type: none"> Galvanized Steel Wires LDPE Jacket Web Copper Conductor HDPE Insulation Polyester Co-Polyester Coated Aluminum Tape LDPE Jacket
	0.5mm	5-300P	
	0.6mm	5-200P	
	0.7mm	5-100P	
	0.8mm	5-10P	
 <p>Jelly Filled Telephone Cable</p>	0.4mm	5-1000P	 <ul style="list-style-type: none"> Copper Conductor HDPE Insulation Filling Compound Polyester Water Blocking Swellable Tape (optional) Co-Polyester Coated Aluminum Tape LDPE Jacket
	0.5mm	5-600P	
	0.6mm	5-400P	
	0.7mm	5-200P	
	0.8mm	5-200P	
 <p>Jelly Filled Armoured Cable</p>	0.4mm	20-600P	 <ul style="list-style-type: none"> Copper Conductor HDPE Insulation Filling Compound Polyester Water Blocking Swellable Tape (optional) Co-Polyester Coated Aluminum Tape LDPE Inner Jacket Corrugated Steel Tape Armor LDPE Outer Jacket
	0.5mm	10-400P	
	0.6mm	10-200P	
	0.7mm	5-100P	
	0.8mm	5-100P	

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Specifications

Meet TIA 568A & 568B wiring

UL listed communication circuit accessories

Keystone Jack Housing: ABS high impact UL94V-0 thermoplastic

IDC Plastic: Polycarbonate resin high impact UL94V-0 thermoplastic

Contact Compatibility: Accommodates 22 to 26 AWG Solid/24 AWG Stranded



C3U7B64NWH



C3U7X64TBK



C3U7F64TWH

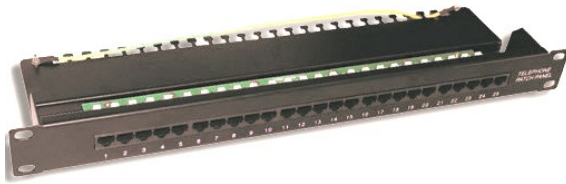
Part No.	Description
C3U7B64NWH	Unshielded telephone keystone jack 6P4C, Cat. 3, punch-down termination, white
C3U7X64TBK	Unshielded telephone keystone jack 6P4C, Cat. 3, toolless termination, black
C3U7F64TWH	Unshielded telephone keystone jack 6P4C, Cat. 3, toolless termination, white

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Specifications

- 1U, Category 3
- Unshielded RJ45 8P8C or 8P4C jacks
- Jack: 3-50 micro inches gold plating over nickel plated contacts
- 19" metal plate housing, black color painting



C3U888K25



C3U888K50

Part No.	Description
C3U888K25	19" unshielded telephone patch panel, Cat. 3, 25 ports, krone IDC, black, 1U
C3U888K50	19" unshielded telephone patch panel, Cat. 3, 50 ports, krone IDC, black, 1U

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Specifications

AT&T Equivalent Design

Removable surface mounting legs

Fire retardant molded plastic block with horizontal index strip



CSWB100



CSWB100L



CSWB100M



CSCM08-110

Part No.	Description
CSWB50L	110 Wiring block, 50 pairs, with legs, with all accessories
CSWB100L	110 Wiring block, 100 pairs, with legs, with all accessories
CSWB100	110 Wiring block, 100 pairs, without legs, with all accessories
CSWB50	110 Wiring block, 50 pairs, without legs, with all accessories
CSWB100M	110 Wiring block, 100 pairs, 19" rack mounted, with all accessories, 1U
CSWB200M	110 Wiring block, 200 pairs, 19" rack mounted, with all accessories, 2U
CSCM08-110	Horizontal cable manager, 19" rack mounted, 1U



CSC1101P1P



CSC1102P2P



CSC1104P4P



CSC1104P88

Part No.	Description
CSC1101P1P-XYX	Patch cord, 1 pair 110 patch plug to 1 pair 110 patch plug
CSC1102P2P-XYX	Patch cord, 2 pairs 110 patch plug to 2 pairs 110 patch plug
CSC1104P4P-XYX	Patch cord, 4 pairs 110 patch plug to 4 pairs 110 patch plug
CSC1101P62-XYX	Patch cord, 1 pair 110 patch plug to 6P2C plug
CSC1102P64-XYX	Patch cord, 2 pairs 110 patch plug to 6P4C plug
CSC1104P88-XYX	Patch cord, 4 pairs 110 patch plug to 8P8C plug

X = length (1:1M, 2:2M, 3:3M...) YY = Cable Color (GY: Gray, BK: Black)



CS110PG01



CS110PG02



CS110PG04



CSCN04P

Part No.	Description
CS110PG01	110 patch plug, 1 pair
CS110PG02	110 patch plug, 2 pairs
CS110PG04	110 patch plug, 4 pairs
CSCN04P	110 connecting block, 4 pairs
CSCN05P	110 connecting block, 5 pairs

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CS05PMD



CS08PMD



CS10PMD

Part No.	Description
CS05PMD	LSA disconnection module, 5 pairs
CS08PMD	LSA disconnection module, 8 pairs
CS10PMD	LSA disconnection module, 10 pairs



CS10PMC



CS10PMP

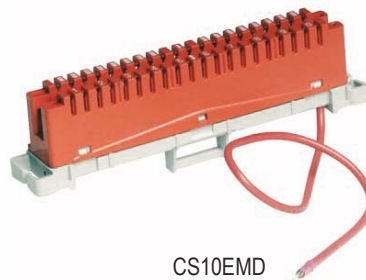


CS10PMP-C

Part No.	Description
CS08PMC	LSA connection module, 8 pairs
CS10PMC	LSA connection module, 10 pairs
CS10PMP	LSA profile disconnection module, 10 pairs
CS10PMP-C	LSA profile connection module, 10 pairs



CS10EMC



CS10EMD



CS10SMC

Part No.	Description
CS10EMC	LSA connection earth module, 10 pairs
CS10EMD	LSA disconnection earth module, 10 pairs
CS10SMC	LSA connection switching module, 10 pairs
CS10SMD	LSA disconnection switching module, 10 pairs

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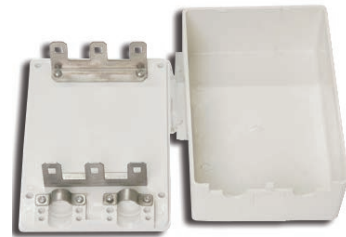
Indoor Distribution Boxes



CSDB100DK

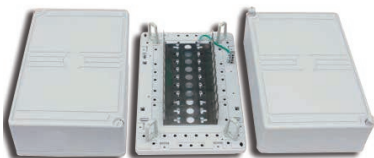


CSDB50IN

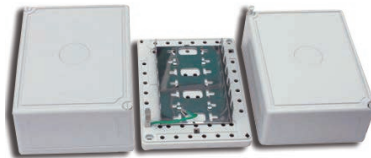


CSDB30IN

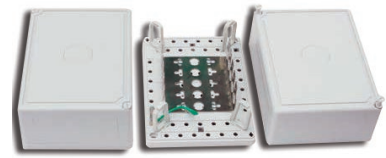
Part No.	Description
CSDB30DK	30 Pair distribution box, desktop type
CSDB30IN	30 Pair distribution box, indoor use
CSDB50IN	50 Pair distribution box, indoor use
CSDB100IN	100 Pair distribution box, indoor use



CSDB100UT-UK



CSDB70UT-UK



CSDB50UT-UK

Part No.	Description
CSDB100UT-UK	100 Pair telephone distribution box, indoor UK style
CSDB70UT-UK	70 Pair telephone distribution box, indoor UK style
CSDB50UT-UK	50 Pair telephone distribution box, indoor UK style

Outdoor Distribution Boxes



CSDB100UT



CSDB50UT

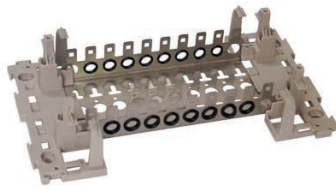


CSDB30UT

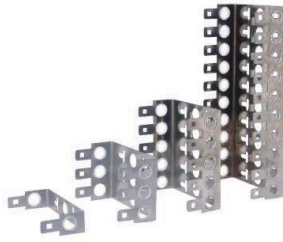
Part No.	Description
CSDB100UT	100 Pair distribution box, outdoor use
CSDB50UT	50 Pair distribution box, outdoor use
CSDB30UT	30 Pair distribution box, outdoor use

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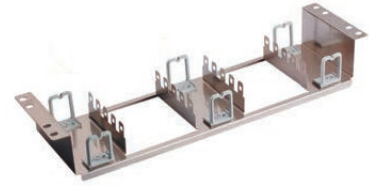
Mounting Frames



CSMF10WJ



CSMFXXW



CSMF10W-19

Part No.	Description
CSMF10WJ	Jumper back mount frame, 10 ways, 100 pairs capacity
CSMF01W	Back mounting frame, 1 way, 10 pairs capacity
CSMF10W	Back mounting frame, 10 ways, 100 pairs capacity
CSMF10W-19	19" Back mounting frame, 10 ways, 100 pairs capacity, 3U
CSMF15W-19	19" Back mounting frame, 15 ways, 150 pairs capacity, 3U

Magazines



CSME10P2P



CSME10P3P



CSPR18C CSPR18B



CSGA02P01 CSGA03P01

Part No.	Description
CSME10P2P	10 Pair magazine for 2 poles, without arrestors
CSME10P3P	10 Pair magazine for 3 poles, without arrestors
CSPR18C	Protective unit
CSPR18B	Protective unit
CSGA02P01	2 Electrode gas discharge tube
CSGA03P02	3 Electrode gas discharge tube
CSGA03P01	3 Electrode gas discharge tube

Tester Cords



CSTC04P



CSTC04P5E



CSTC02PA



CSTC04PA

Part No.	Description
CSTC02P	Test cord, 2 poles
CSTC04P	Test cord, 4 poles
CSTC04P5E	Test cord, 4 poles to Cat. 5e
CSTC02PA	2 Pole test cord with alligator plug
CSTC04PA	4 Pole test cord with alligator plug

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Telecom Accessories



CS10LM



CS01LF



CSEB10

Part No.	Description
CS10LM	Label holder for 10 pair modules
CS08LM	Label holder for 8 pair modules
CS01LF	Label holder for frame
CSEB10	Earth bar for 10 pair modules
CS01LFA	Number flag for 1-0
CS10LFA	Number flag for 10-100



CS10LFA

CS01LFA



CSDP01



CSSTB01U



CSSTB01P



CSSTB02P

Part No.	Description
CSDP01	Disconnection plug, 1 pair
CSSTB01U	1 Pair drop wire (STB) module without protection
CSSTB01P	1 Pair drop wire (STB) module with GDP protection
CSSTB02P	1 Pair drop wire (STB) module with GDP and PTC

Wire Connectors



CSWCUG



CSWCU1B



CSWCUDW2



CSWCUY



CSWCUY2



CSWCUR



CSWCUB



CS-TL-311

Part No.	Description
CSWCUY	UY wire connector
CSWCUY2	UY2 wire connector
CSWCUR	UR wire connector
CSWCUB	UB wire connector
CSWCUG	UG wire connector
CSWCU1B	U1B wire connector
CSWCUDW2	UDW2 wire connector
CS-TL-311	Crimping tool for wire connector

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Telephone Cable Pair Color Code

Cable Pair: 2P (Indoor Telephone Cable)			
No.	Color	No.	Color
1	White/Blue Ring & Blue	2	White/Orange Ring & Orange

Cable Pair: 4P (Indoor Telephone Cable)			
No.	Color	No.	Color
1	White/Blue Ring & Blue	3	White/Green Ring & Green
2	White/Orange Ring & Orange	4	White/Brown Ring & Brown

Cable Pair: 25P (Indoor Telephone Cable)			
No.	Color	No.	Color
1	White/Blue Ring & Blue	14	Black/Brown ring & Brown
2	White/Orange Ring & Orange	15	Black/Gray Ring & Gray
3	White/Green Ring & Green	16	Yellow/Blue Ring & Blue
4	White/Brown Ring & Brown	17	Yellow/Orange Ring & Orange
5	White/Gray Ring & Gray	18	Yellow/Green Ring & Green
6	Red/ Blue Ring & Blue	19	Yellow/Brown Ring & Brown
7	Red/ Orange Ring & Orange	20	Yellow/Gray Ring & Gray
8	Red/Green Ring & Green	21	Purple/Blue Ring & Blue
9	Red/Brown ring & Brown	22	Purple/Orange Ring & Orange
10	Red/Gray Ring & Gray	23	Purple/Green Ring & Green
5	Black/Blue Ring & Blue	24	Purple/Brown Ring & Brown
12	Black/Orange Ring & Orange	25	Purple/Gray Ring & Gray
13	Black/Green Ring & Green		

Cable Pair: 25P (Outdoor Telephone Cable)			
No.	Color	No.	Color
1	White & Blue	14	Black & Brown
2	White & Orange	15	Black & Gray
3	White & Green	16	Yellow & Blue
4	White & Brown	17	Yellow & Orange
5	White & Gray	18	Yellow & Green
6	Red & Blue	19	Yellow & Brown
7	Red & Orange	20	Yellow & Gray
8	Red & Green	21	Purple & Blue
9	Red & Brown	22	Purple & Orange
10	Red & Gray	23	Purple & Green
11	Black & Blue	24	Purple & Brown
12	Black & Orange	25	Purple & Gray
13	Black & Green		

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Applications

Multi-media Cable for Smart Home

Product Specifications

RG6/U Coaxial Cables

Reference Standards: TIA570

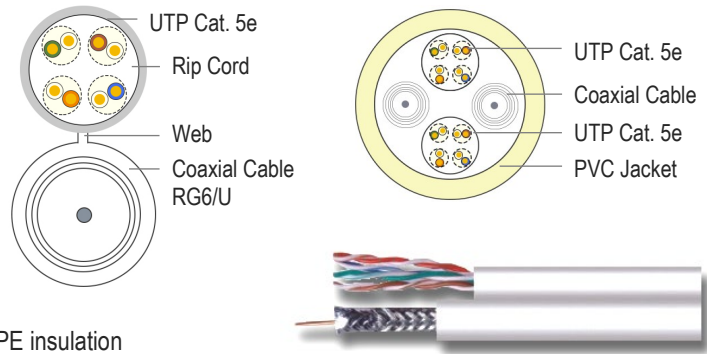
Complies to SCTE ISP-IP-001

18AWG Solid Bare CCS Conductors

AL Foil/60% AL Braid + AL Foil/40% Al Braid Shield

Installation Temperature: 0°C to +50°C

Cat. 5e: Complies to ANSI/TIA-568B 24AWG solid BC/PE insulation



Mechanical Characteristics		Electrical Characteristics (RG6/U)	
Test Object	Jacket	Impedance	75.0+/-5.0 Ohmz
Test Material	PVC	1MHz	0.25Db
Before Tensile Strength (Mpa)		50MHz	1.41dB
Aging Elongation (%) > =100		100MHz	1.92dB
Aging Condition (°Cxhrs) 100x240		200MHz	2.64dB
After Tensile Strength (Mpa) >= 85% of unaged		700MHz	5.06dB
Aging Elongation (%) > = 50% of unaged		1000MHz	6.2dB
Cold Bend (-20±2°C x 4hrs) No Crack		1800MHz	8.43dB
		2200MHz	9.35dB

Electrical Characteristics								
Frequency MHz	Impedance Ohm	RL ≥dB	Attenuation ≤dB/100m	NEXT ≥dB/100m	ELFEXT ≥dB/100m	PS NEXT ≥dB/100m	PS ELFEXT ≥dB/100m	NVP
1	100 ± 15	20.0	2.0	65.3	63.8	62.3	60.8	17.2
4		23.0	4.1	56.3	51.7	53.3	48.7	
8		24.5	5.8	51.8	45.7	48.8	42.7	
10		25.0	6.5	50.3	43.8	47.3	40.8	
16		25.0	8.2	47.3	39.7	44.2	36.7	
20		25.0	9.3	48.5	37.7	42.8	34.7	
25		24.3	10.4	44.3	35.8	41.30	32.8	
31.25		23.6	11.6	42.9	33.9	39.9	30.9	
62.5		21.5	17.0	38.4	27.8	35.4	24.8	
100		20.1	22.0	35.3	23.4	20.2	29.4	
150*	100 ± 18	18.8	28.1	32.4	20.2	29.4	17.2	
200*		18.0	32.4	30.8	18.0	27.8	15.0	
310*	100 ± 22	16.7	41.8	27.9	14.2	24.9	11.2	
350*		16.3	44.9	27.1	13.1	24.1	10.1	

* Reference values

Cable Construction							
Part No.	Construction	Nominal Conductor Diameter mm	Nominal Insulation Dimension mm	No. of Pairs	Nominal Cable OD mm	Jacket	Remarks
CS512101	1UTP Cat. 5e + 1RG6/U	0.51	0.92	4	7.2 x 13.5	PVC	350MHz
CS512102	2UTP Cat. 5e + 2RG6/U	0.51	0.92	4	16.0	PVC	350MHz

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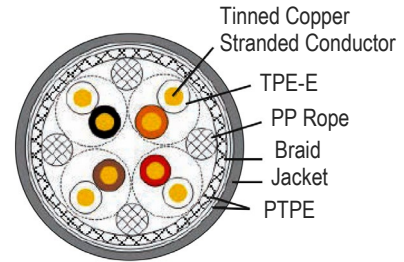


Applications

Apply to internal control cables of industrial automation machinery, equipment and robots, durable bending performance, superior resistance to bending and abrasion resistance to ensure the durable signal transmission.

Specifications

Operating Temperature Range: -40°C to +90°C
 (20.000h) Max. 140°C (3.000h)
 Nominal Voltage: 300Vss
 Test Voltage: Core/core 1.5 KV
 Core/Screen 1.0 KV
 DC resistance of conductor MAX@20°C:0,25qmm: 75,5 0hm/km can bend 4 million times reciprocally



Cable Construction							
Conductor (Stranded Tinned Copper)	Nominal Insulation Diameter mm	No. of pairs	Insulation Material	AL Foil	Braid of Tinned Copper	Nominal Cable OD. mm	Jacket
19 X 0.13mm	1mm	4	0.15mm	Y	0.15mm	7.1mm	PUR

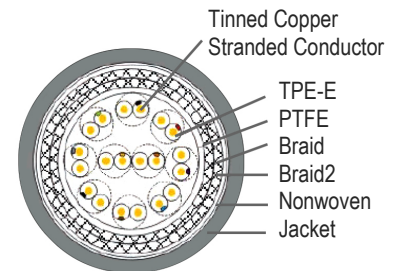
Robotic Cable

Applications

Apply to internal control cables of industrial automation machinery, equipment and robots, durable bending performance, superior resistance to bending and abrasion resistance to ensure the durable signal transmissions.

Specifications

Operating Temperature Range: -40°C-+85°C.
 Test Voltage: Core/Core 1.5KV AC 1min.
 DC Resistance of Conductor MAX@20°C: ≤340 Ω/km.
 Minimum Bend Radius: 50mm.
 Rate of Twist: 1 million, no break, good electrical property.



Cable Construction						
Conductor (Stranded Tinned Copper)	Nominal Insulation Diameter mm	No. of pairs	Insulation Material	Braid of Tinned Copper	Nominal Cable OD. mm	Type of Jacket
25 x 0.05mm	0.55mm	10	TPE-E	0.08mm	6.1mm	TPE

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Applications

Apply to links between Main Distribution Frame to subscriber circuit board, SPC switch equipment room and switching office, also between Communication Equipment.

Main Performances

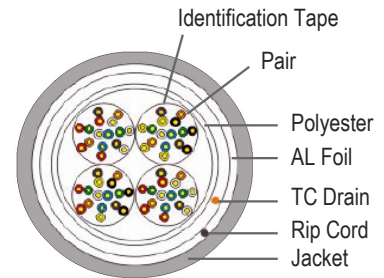
Excellent anti-EMI performance by great shielding construction

Product Specifications

Copper Conductor
 RoHS Compliant LSZH, PVC
 PE Reference Standards: IEC 60332-1, IEC 60754

Electrical Characteristics

Conductor DC Resistance: 145 Ω/km Max. at 20°C
 Characteristic Impedance: 100 ± 15 Ω at 1 MHz~20 MHz
 Capacitance (800Hz): ≤56PF/m
 Attenuation: ≤12dB/km at 20 MHz
 PS NEXT: ≥37dB/km at 20 MHz
 Conductor Insulation Resistance: ≥5000MΩ/km



Cable Construction							
Part No.	Construction	Pair	Insulation Diameter	Insulation Material	AL Foil	Cable OD. mm	Jacket
CS2111032	0.4mm	32	0.72mm	HDPE	Y	11	PVC
CS2112032	0.4mm	32	0.72mm	HDPE	Y	11	PVC

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Applications

Apply to links between Main Distribution Frame to subscriber circuit board, SPC switch equipment room and switching office, also between Communication Equipment.

Main Performances

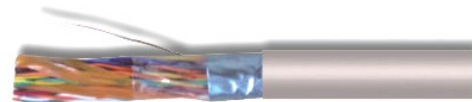
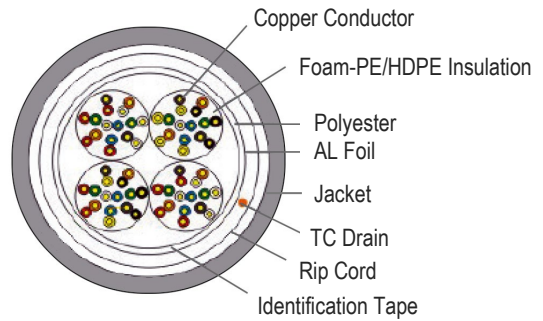
Skin-Foam-Skin PE insulation for great high frequency performance, low attenuation, and excellent performance of anti-EMI by special shielding. Suitable in transmitting 2048kb/s signals among data transmission equipment's, multiplexing line terminals and data patch panels.

Product Specifications

Rated Voltage: 300V
 Tinned Copper Conductor
 RoHS Compliant PVC, PE
 Reference Standards: UL2919

Electrical Characteristics

Characteristic Impedance: $120 \pm 12 \Omega$ at 1MHz
 Capacitance (800Hz): $\leq 50PF/m$
 Attenuation: $\leq 12dB/km$ at 20 MHz
 Insulation Resistance: 2000M Ω/km Min. at 20°C



Cable Construction							
Part No.	Construction	Pair	Insulation Diameter	Insulation Material	AL Foil	Cable OD. mm	Jacket
CS2030401	0.6mm	4	1.2mm	Foam-PE-HDPE	Y	6.0mm	PVC
CS2030801	0.6mm	8	1.2mm	Foam-PE-HDPE	Y	8.1mm	PVC
CS2030601	0.6mm	16	1.2mm	Foam-PE-HDPE	Y	11.1mm	PVC
CS2030201	0.6mm	32	1.2mm	Foam-PE-HDPE	Y	15.3mm	PVC

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Applications

Apply to low frequency area of local communication exchange, suitable indoor use.

Main Performances

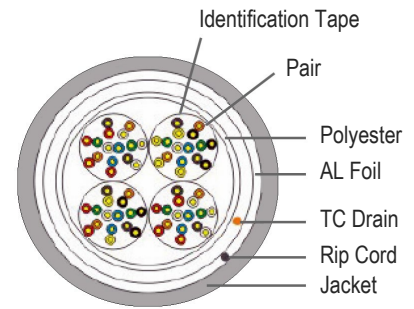
Cable has good damp proofing capacity, heat resistance capacity, mechanical performance and long life.

Product Specifications

Copper or Tinned Copper Conductor
 RoHS Compliant LSZH, PVC, PA
 Reference Standards: UL444 IEC 60189, IEC 61196-1

Electrical Characteristics

Conductor DC Resistance: $\geq 153\Omega/\text{km}$ Max. at 20°C
 Capacitance (800Hz): $\leq 120\text{nF/m}$
 Conductor Insulation Resistance: $10\text{M}\Omega \text{ km}$ at 20°C



Cable Construction							
Part No.	Construction	Pair	Insulation Diameter mm	Insulation Material	AL Foil	Cable OD. mm	Jacket
CS2312204	0.4mm	4	0.6	PA2	Y	5	LSZH
CS2312232	0.4mm	32	0.6	PA12	Y	10.5	LSZH
CS2311124	0.4mm	24	0.6	PA12	-	7.3	PVC

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Applications

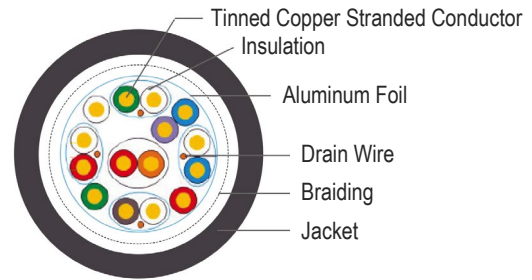
LCD Screen/STB/ DVD

Main Performances

This cable has good damp proofing capacity, heat resistance capacity, mechanical performance, and long life.

Product Specifications

Nominal Temperature: 80°C
 Reference Standards: HDMI Association Standard, UL758
 Stranded Tinned Copper Conductor
 RoHS Compliant



Electrical Characteristics

Conductor DC Resistance(20°C)
 30AWG <376.96 Ω/km
 28AWG <237.25Ω/km
 24AWG <93.25Ω/k
 Insulation Resistance: Foam-PE, PE: DC-500V 10 MΩ/km Min. at 20°C
 Differential Resistance: 100 ± 10Ω
 Differential Delay: 5.05nsec/m
 Attenuation
 1 – 825 MHz 5 dB
 826 – 2475 MHz 12 dB
 2476 – 4125 MHz 20 dB
 4126 – 5100 MHz 25 dB
 Delay Skew A wire to B wire: 112ps.(max)
 Delay Skew pair to pair: 1780ps.(max)
 FEXT: -20dB. (Max)



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Cable Construction								
Conductor Size	Conductor Structure mm	Shielded Twisted Pair	Unshielded Twisted Pair	Single Insulation Conductor	Nominal Insulation Diameter mm	Insulation Material	Nominal Cable OD. mm	Jacket
24AWG	7/0.20	4P	1P	5C	1.55mm	HDPE+FPE Skin	10.5mm	PVC
					1.00mm	HDPE or PP		
					1.00mm	HDPE or PP		
28AWG	7/0.127	4P	1P	5C	0.97mm	HDPE+FPE Skin	6.5mm/ 7.3mm	PVC
					0.70mm	HDPE or PP		
					0.70mm	HDPE or PP		
30AWG	7/0.10	4P	1P	5C	0.76mm	HDPE+FPE Skin	5.5mm	PVC
					0.55mm	HDPE or PP		
					0.55mm	HDPE or PP		

Applications

Digital Cameras/DV/LCD Screen/STB/DVD

Product Specifications

Nominal Temperature: 80°C

Reference Standards: HDMI Association Standard, UL758

Stranded Tined Copper Conductor

RoHS Compliant: PFA, PVC, TPE

Electrical Characteristics

Conductor DC Resistance(20°C)

40AWG <5000 Ω/km

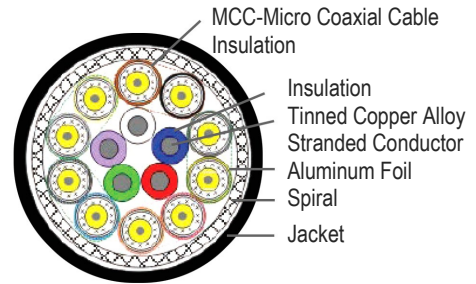
36AWG <1490Ω/km

Insulation Resistance: PFA: AC-500V 1524MΩ/km Min. at 20°C

MMC-Micro Coaxial Cable Resistance: 50 ± 5 Ω

Delay: 4.2 to 5.2 ns/m

Delay Skew: SA001 Wire to SA002 Wire: -25 to +25 ps/m



Cable Construction							
Conductor Size	Conductor Structure mm	MMC-Micro Coaxial Cable	Single Insulation Conductor	Nominal Insulation Diameter mm	Insulation Material	Nominal Cable OD. mm	Jacket
24AWG	7/0.20	10C	5C	1.55mm	HDPE+FPE Skin	10.5mm	PVC
				1.00mm	HDPE or PP		
28AWG	7/0.127	10C	5C	0.97mm	HDPE+FPE Skin	6.5mm/ 7.3mm	PVC
				0.70mm	HDPE or PP		

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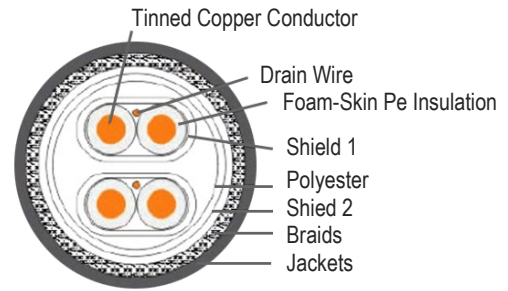
Symmetrical Parallel High Speed Cables

Applications

- Cross-Connect
- Add-Drop-Multiplexer
- ATM
- UMTS (NODE B)
- 16 bit Message Bus

Product Specifications

- Rated Temperature: 80°C
- Rated Voltage: 30V
- Reference Standards: UL444, UL13, UL1581, IEC 60754-2
- Tinned or Silvered Annealed Copper Conductor
- Two Foam-Skin-PE Insulation and AL-Mylar tape wrap shielding each single pair
- Al Foil Shield and Tinned Copper Braids
- Easy Stripping and Cutting
- LF PVC/FRPE
- Flame Test: UL VW-1



Electrical Characteristics

- Impedance (TDR): $100 \pm 7 \Omega$
 - Intra-Pair Skew: $\leq 10\text{ps/m}$
 - Inter-Pair Skew: $\leq 50\text{ps/m}$
 - Attenuation:
- | Frequency GHz | Att.(dB/m) |
|---------------|------------|
| 0.200 | 0.33 |
| 0.600 | 0.60 |
| 1.200 | 0.88 |
| 2.500 | 1.32 |
| 3.000 | 1.43 |
| 5.000 | 2.09 |
| 7.000 | 2.53 |
| 10000 | 3.74 |
- Propagation Delay: $\leq 4.30\text{ns/m(nom)}$

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Cable Construction									
Part No.	Pairs	Conductor		Insulation Dia./mm	Shield 1 Al foil	Shield 2 Al foil + braid	Jacket		DC Resistant
		AWG	Diameter				OD mm	Diameter	
CS1700102	2	26	0.404	1.2	Y	Y	5.0	LF-PVC	148
CS1700202	2	24	0.515	1.35	Y	Y	6.0	FRPE	93

Applications

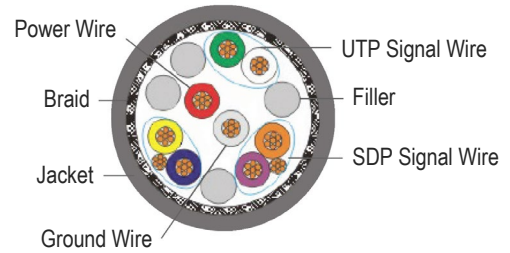
High-Resolution Web Camera, Video Display, Digital Cameras, Digital Blu-Ray Video Cameras, and other modern electronic devices.

Product Specifications

Rated Temperature: 80°C
 Stranded Tinned Copper Conductor
 RoHS compliant PVC/PE
 Reference Standards: UL 2725 & USB 3.0 Specification

Features

USB3.0 cable has a design of backward compliant to lower USB standard. Pair-shield is designed to satisfy the application of high-speed transmission. USB3.0 patch cord have its advantages of ultra-fast transmission speed, ease of use and high compatibility. Meanwhile, this cable is also prepared and supporting for the future optical fiber transmission.



Electrical Characteristics

Conductor DC Resistance(20°C)
 30AWG ≤376.96 Ω/km
 28AWG ≤237.25Ω/km
 Insulation Resistance: Foam-PE, PE: DC-100v 100M Ω/km Min. at 20°C
 Differential Resistance: 90 ± 7 Ω
 Contacts Differential Impedance: 90 ± 15 Ω.
 Intra-Pair Skew: ≤15ps/m
 Insertion Loss: ≤-25dB(7.5GHz)
 NEXT (3.0 TO 3.0): ≤-23dB. (3.0-7.5GHz)
 NEXT (2.0 TO 3.0): ≤-15dB. (3.0-7.5GHz)
 FEXT (2.0 TO 3.0): ≤-15dB. (3.0-7.5GHz)

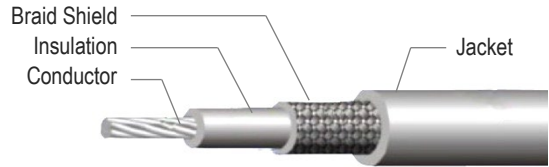
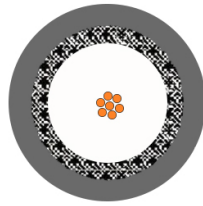
Cable Construction							
AWG	Conductor	Pairs	Core	Insulation Dia.	Insulation Material	Cable OD.	Jacket
28AWG	7/0.127mm	3P	2C	0.9mm	FOAM-PE HDPE SRPVC	5.5mm	PVC
30AWG	7/0.10mm	3P	2C	0.9mm	FOAM-PE HDPE SRPVC	4.0mm	PVC

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Applications

This cable can be used for Antennae, Telecommunication Systems, RF Assemblies, etc. This cable is widely used as hidden antennae wires in small electronic equipment, such as GPS systems, satellite radios, notebooks, mobile phones, etc.



Main Performances

This flexible RF micro-coaxial cable is consisting of stranded conductor with attenuation and excellent shielding performance, and good performance of flexibility and pliability. The cable can also be widely used in different environments, even in the terrible environment either steady signal transmission relying on its good performance of ant-high temperature, fire-retardance, anti-erosion and anti-EMI, working temperature up to 200°C.

Product Specifications

- Impedance: 50Ω
- Rated Temperature & Voltage: 90°C 30V
- Reference Standards: UL758
- Stranded or Solid, Tinned or Silver-Plated Copper Conductor
- FEP or PFA Insulation
- RoHS Compliant
- Shield meets FCC/RFI/EMI emission control requirements



Features

USB 3.0 cable has a design of backward compliant to lower USB standard. Pair-Shield is designed to satisfy the application of high-speed transmission. USB 3.0 patch cord have its advantages of ultra-fast transmission speed, ease of use and high compatibility. Meanwhile, this cable is also prepared and supporting for the future optical fiber transmission.

Cable Construction												
Part No.	Conductor				Insulation		Shield		Jacket		Max. Attenuation	
	AWG	Material	Construction mm	Nom. Dia. mm	Material	Nom. Dia. mm	Material	Nom. Dia. mm	Material	Nom. Dia. mm	Freq. GHz	Atten. dB
CS711011230	30	SG	7/0.102	0.306	FEP	0.895	TC	1.11	FEP	1.35	1	-
											2	2.2
											2.4	2.3
											3	2.8
											4	3.3
											5	3.8
CS711011232	32	SG	7/0.08	0.24	FEP	0.685	TC	0.91	FEP	1.13	1	2.0
											2	3.0
											2.4	3.4
											3	3.8
											4	4.5
											5	5.2
CS711011233	33	SG	7/0.071	0.213	FEP	0.615	TC	0.8	FEP	0.98	1	-
											2	3.0
											2.4	3.6
											3	4.2
											4	4.9
											5	5.6
CS711011236	36	SG	7/0.05	0.15	FEP	0.415	TC	0.6	FEP	0.81	1	3.3
											2	4.8
											2.4	5.4
											3	6.3
											4	7.1
											5	8.0
6	8.8											

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Applications

Apply to Low Voltage Circuit, Remote Control, Security System, Communication System and Talkback etc.

Product Specifications

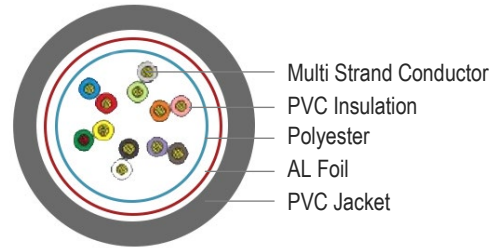
Stranded Copper or Tinned Copper Conductor
 RoHS Compliant PVC
 Reference Standards: GB/2951, GB5023, GB12666, JB8734

Main Performances

Excellent Bending Capacity
 Rated Voltage:300/300V
 Maximum Temperature of Prolonged Use:75°C

Electrical Characteristics

Withstand Voltage Test on Cable: 1500V/5min No Breakdown
 Insulation Resistance: ≤100MΩ/km Min

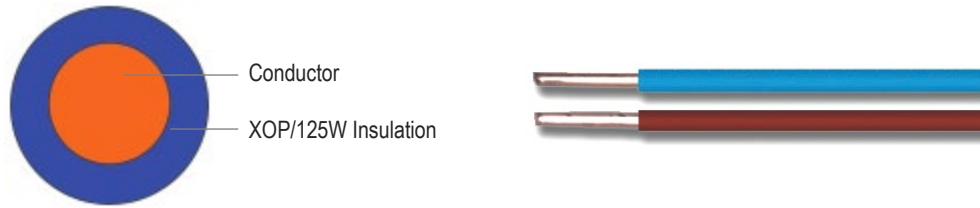


Cable Construction					
Part No.	Conductor Number & Nominal Sectional Area mm	Insulation Thickness mm	Al Foil	Cable OD.	Jacket
CS2232006	6 x 0.25	0.3	Y	7.4	PVC
CS2252003	3 x 0.5	0.37	Y	7.1	PVC

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Applications

This product is suitable for the cabling of large building and general civil construction with rated voltage 450/750V and below, also used in electrical equipment and other power devices.



Product Specifications

Single Strand or Multi-Strand Copper or Tinned Copper Conductor RoHS Standard Temperature Rating 125°C LSOH Flame Reference Standards: JB/T 10491.3-2004

Electrical Characteristics

Withstand Voltage Test on Cable: 2500V/5min No Breakdown

Cable Construction							
Type	Nominal Area mm	Conductor Structure mm	Insulation Nom. Thickness mm	Max. Dia. mm	Reference Weight kg/km	Conductor Resistance at 20°C Ω/km	
						Copper	Tinned Copper
WDZ-BYJ (F) -125	1.5	1/1.38	0.7	3.3	20.20	12.1	12.2
	2.5	1/1.78	0.8	3.9	31.90	7.41	7.56
	4	1/2.25	0.8	4.4	46.95	4.61	4.70
	6	1/2.76	0.8	4.9	66.80	3.08	3.11

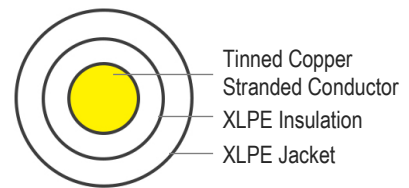
TUV PV System Cable

Applications

Connected solar photovoltaic systems, used in the areas of big desert, salt spray, humid coastal, highland radiation with the temperature difference between day and night.

Specifications

Rated Temperature: -40 to +90°C
 Rated Voltage: AC600/1000V
 Stranded Tinned Copper Conductor
 Insulation: XLPE, Jacket: XLPE
 Reference Standards: 2P1G1169/08.2007



Cable Construction							
Type	Conductor			Insulation OD (mm)	Jacket OD (mm)	Max. Conductor Resistance (Ω/km) 20°C	60°C Air Laying Carrying Current (A)
	Cross Area (mm)	Construction (No.mm)	Diameter (mm)				
PV-F	1.5	30/0.25	1.58	2.98 ± 0.1	5.08 ± 0.2	13.7	30
	2.5	50/0.25	3.04	3.44 ± 0.1	5.54 ± 0.2	8.21	41
	4	56/0.3	2.6	4.1 ± 0.1	6.2 ± 0.2	5.09	55
	6	84/0.3	3.3	4.67 ± 0.1	7.0 ± 0.2	3.39	70
	10	80/0.4	4.07	6.1 ± 0.1	8.53 ± 0.2	1.95	98

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86 Type Series

Part No.	Description
CS14US1PWH	Faceplate UK type, 86x86 mm, 1 port with shutter
CS14US2PWH	Faceplate UK type, 86x86 mm, 2 ports with shutters



CS14US1PWH



CS14US2PWH

Part No.	Description
CS86SA1PWH	Faceplate 86 type with shutter, 86x86 mm, 1 port
CS86SA2PWH	Faceplate 86 type with shutter, 86x86 mm, 2 ports



CS86SA1PWH



CS86SA2PWH

Part No.	Description
CS86SH1PWH	Faceplate 86 type with shutter & icon, 86x86 mm, 1 port
CS86SH2PWH	Faceplate 86 type with shutter & icon, 86x86 mm, 2 ports



CS86SH1PWH



CS86SH2PWH

Back Boxes



CS12BB01



CS86BB01



CS80BB01

Part No.	Description
CS12BB01	Back box for USA faceplate
CS86BB01	Back box for 86 type faceplate
CS80BB01	Back box for USA faceplate, 80x80x40 mm

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UK Type Series

Designed for Keystone Jack, Blank Insert, BNC Coupler, F Connector

Size: 86x86, 146x86 mm

Color: White, Ivory, customized by clients

Material: ABS UL 94V-0



CS86-01



CS86-02



CS86-01MW



CS14UB4PWH



CS14UA4PWH

Part No.	Description
CS86-01	Faceplate UK type, 86x86 mm, 1 port
CS86-02	Faceplate UK type, 86x86 mm, 2 ports
CS86-01MW	1 Module 25x50 mm modular euro faceplate
CS14UB4PWH	Faceplate UK type, 146x86 mm, 4 ports
CS14UA4PWH	Faceplate UK type, 146x86 mm, 4 ports angled

German Flush Plate Cat. 6A/Cat. 6/Cat. 5e

Multilateral cable entrance feature increases the convenience of the installation

Fully shielded RJ45 jack on 45 angle for inserted plug to maintain safe cable bend radius

Jack shuttered door to avoid dust

Nameplate design for identification

Part No.	Description
CS80SU2PWH-C6A	German flush plate with shutter, 80x80 mm, 2 ports, Cat. 6A
CS80SU2PWH-C6	German flush plate with shutter, 80x80 mm, 2 ports, Cat. 6
CS80SU2PWH-C5	German flush plate with shutter, 80x80 mm, 2 ports, Cat. 5e



German Flush Plate for Keystone Jacks

Snap-in type German flush plate

45 angle for inserted plug to maintain safe cable bend radius

Fully Shielded metal structure for grounding

Jack shutter door to avoid dust

Nameplate design for identification



CS80S1PWH



CS80S2PWH



CS80S3PWH



Part No.	Description
CS80S1PWH	German flush plate with shutter for keystone jacks, 80x80 mm, 1 port
CS80S2PWH	German flush plate with shutter for keystone jacks, 80x80 mm, 2 ports
CS80S3PWH	German flush plate with shutter for keystone jacks, 80x80 mm, 3 ports

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USA Type Series

Designed for Keystone Jack, Blank Insert, BNC Coupler, F Connector

Size: 115x70 mm

Colors: White, Ivory, customized by clients

Material: ABS UL 94V-0



CS12UA1PWH CS12UA2PWH CS12UA3PWH CS12UA4PWH

Size: 115x70 mm	
Part No.	Description
CS12UA1PWH	USA type faceplate, 1 port
CS12UA2PWH	USA type faceplate, 2 ports
CS12UA3PWH	USA type faceplate, 3 ports
CS12UA4PWH	USA type faceplate, 4 ports
CS12UA6PWH	USA type faceplate, 6 ports



CS12UC1PWH CS12UC2PWH CS12UC3PWH CS12UC4PWH

Size: 115x70 mm	
Part No.	Description
CS12UC1PWH	USA type faceplate with label holder, 1 port
CS12UC2PWH	USA type faceplate with label holder, 2 ports
CS12UC3PWH	USA type faceplate with label holder, 3 ports
CS12UC4PWH	USA type faceplate with label holder, 4 ports
CS12UC6PWH	USA type faceplate with label holder, 6 ports



CS12FP-WH CS12UD1PWH CS12UD2PWH



CS12UD4PWH CS12UD6PWH CS22GD4PWH

Size: 115x70 mm	
Part No.	Description
CS12FP-WH	Decora style blank faceplate
CS12UD1PWH	Decora style faceplate, 1 port
CS12UD2PWH	Decora style faceplate, 2 ports
CS12UD3PWH	Decora style faceplate, 3 ports
CS12UD4PWH	Decora style faceplate, 4 ports
CS12UD6PWH	Decora style faceplate, 6 ports
CS22GD4PWH	Decora style faceplate, 4 ports, double gang

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Blank Surface Mount Box

Surface mount boxes are compatible with keystone jacks (keystone jacks are not included)
 Compatible with most standard Keystone Jacks/Inserts: Cat. 3, Cat. 5e, Cat. 6, Cat. 6A
 4 ports and 6 ports designs are available upon request



CSB01AWH



CSB02AWH



CSB01CWH



CSB02CWH

Part No.	Description
CSB01AWH	Surface mount box, 1 port with shutter, empty, white
CSB02AWH	Surface mount box, 2 ports with shutters, empty, white
CSB01CWH	Surface mount box, 1 port without shutter, empty, white (length of keystone jack less than 33mm)
CSB02CWH	Surface mount box, 2 ports without shutters, empty, white (length of keystone jack less than 33mm)

Floor Box Adaptor

Floor box adaptor is designed and made from ABS plastic material to ensure durable usage and in accordance with TIA/EIA 568-B, ISO/IEC11801 and EN 50173 standards. It accepts Cat. 5e and Cat. 6 modules to fit with different performance requirements.



CS-CF/DI-AM

Compatible with RJ45 keystone jacks
 Accepts both unshielded and shielded modules
 Integrated spring-loaded shutter for protection against dust

Part No.	Description
CS-CF/DI-AM	Floor mount adaptor for RJ45 modules, 25x38 mm, white
C6AU7Y1SWH	1 Port adaptor with shutter, 50x25 mm, white

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Floor Standing Rack Cabinets

Compliant with ANSI/EIA RS-310-D, DIN41497 Part 1, IEC297-2, DIN41494 Part 7, and GBIT3047.2-92 Standards.



CS Model



CS2 Model

Degree of Protection

IP20

Materials

SPCC Cold Rolled Steel

Thickness: 2.0mm, 1.2mm, 1.0mm

Surface Finish

Powder Coating

Loading Capacity

800kg

Thickness

Mounting Profile: 2.0mm, Others: 1.2 – 1.5mm

Features

- 19" standard mounting rails
- Removable side panels and optional side locks
- Cable entry on both top and bottom panels
- Turning angle of front door is over 180 degrees
- Numbered 19" mounting rails for easier rack unit identification
- Assembled and flat pack shipping options
- Integrated ventilation fans, shelves, leveling feet, and castors
- Two vertical cable management for 800mm-width cabinets

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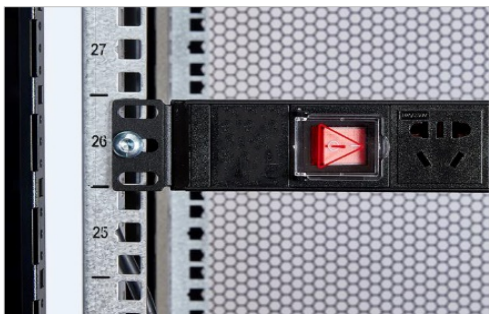
Cabinet Details



Handle Lock



Ventilation Fans



Zinc Plated Mounting Profile with U Marking



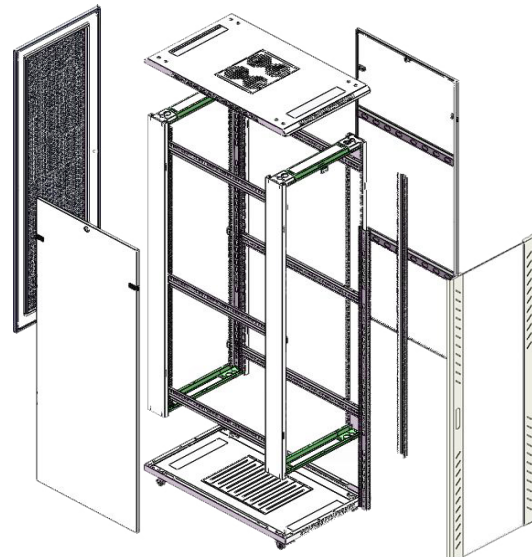
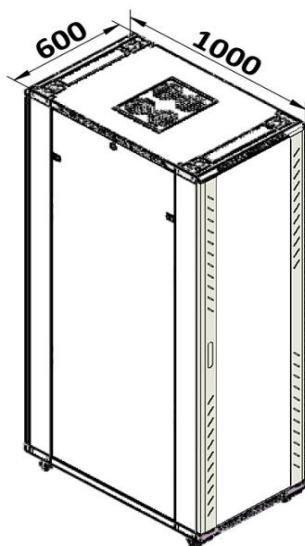
Removable Side Panels (Optional Side Lock)



Cable Entrance from Bottom Panel

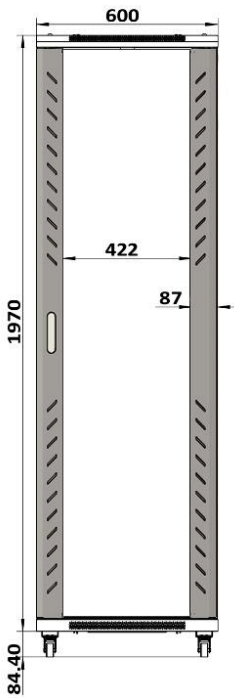


Bonding Accessories

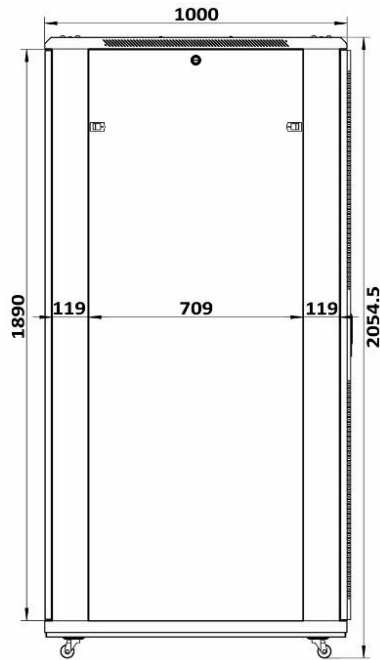


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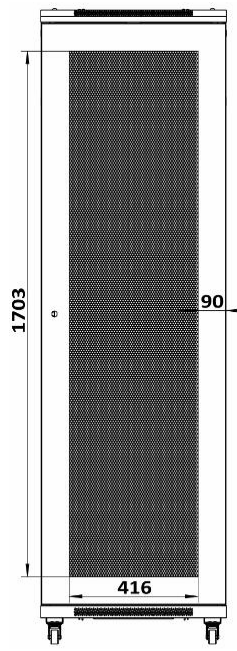
Dimensional Drawings of 42U Rack Cabinet, 600x1000 mm



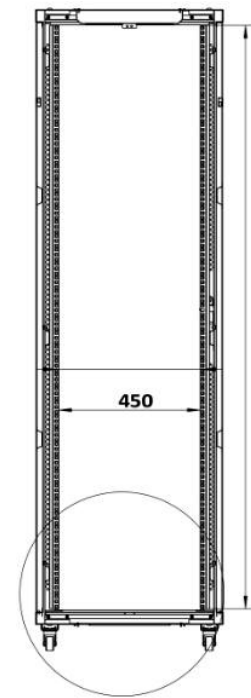
Front (Toughened Glass)



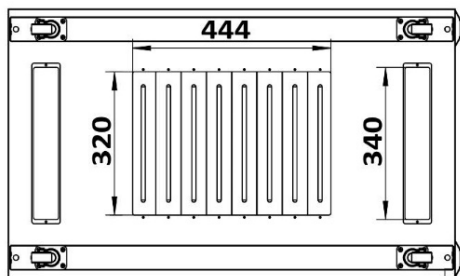
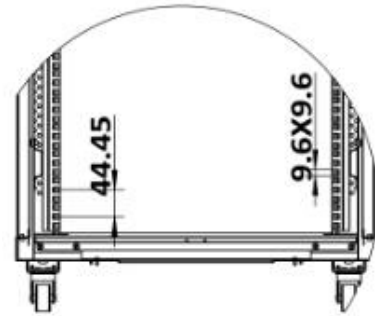
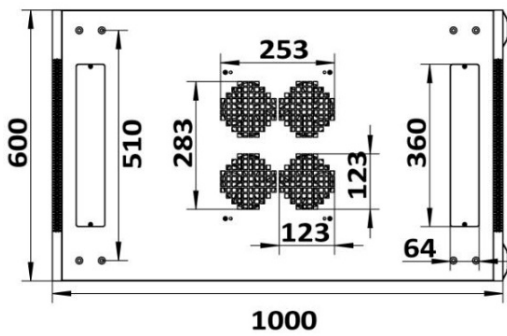
Side



Back



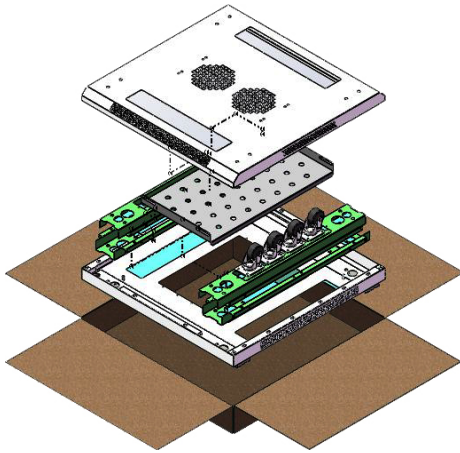
A-Section A



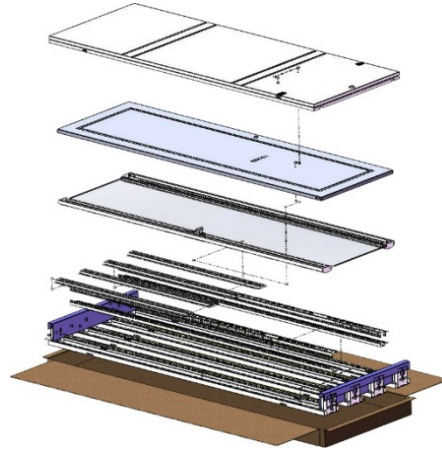
Bottom

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Unassembled Packing Details (2-4 Cartons)



Carton 1: Top Cover + Bottom Panel + 1 Shelf
Carton 3: Extra Shelf (if needed)



Carton 2: Frame + Mounting Profile + Door + Side Panel
Carton 4: Vertical Management (if needed)

Main Parts

SN	Specification	Quantity	Unit	Material	Surface Finish	Remark
1	Frame	2	Piece	SPCC cold rolled steel t1.0	Powder Coated	
2	Side panel	2	Piece	SPCC cold rolled steel t1.0	Powder Coated	
3	Top cover	1	Piece	SPCC cold rolled steel t1.0	Powder Coated	
4	Bottom panel	1	Piece	SPCC cold rolled steel t1.0	Powder Coated	
5	Mounting profile	4	Piece	SPCC cold rolled steel t1.0		
6	Mounting rail	4/6	Piece	SPCC cold rolled steel t1.0	Powder Coated	
7	Front door	1	Piece	5MM toughened glass door/SPCC t1.2	Powder Coated	
8	Back door	1	Piece	Single open mesh vented door t1.2	Powder Coated	
9	Castors	4	Piece			
10	Levelling feet	4	Piece			
11	Lock	2	Piece			with 2 keys
12	M6 Square nut	30	Piece	Steel	Color Zinc	
13	M6 B-head screw	30	Piece	Steel	Color Zinc	
14	Allen wrench		Piece	Steel	Color Zinc	

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Ordering Information

Model		Width (mm)		Depth (mm)		Height (U)		Cabinet Color	
CS	Glass front door, vented rear door	6	600	6	600	18	18U	1	Black
CS2	Glass front door, solid rear door	8	800	8	800	22	22U	2	Gray
CS3	Vented front door, vented rear door			0	1000	27	27U		
						32	32U		
						37	37U		
						42	42U		
						47	47U		

Example

Part No.	Description
CS2.8842.1	42U rack cabinet, 800mm x 800mm, glass front door, solid rear door, removable side panels, two vertical cable management, ventilation fans, shelves, leveling feet, castors, black

Rapid Network Cabinets

Specifications

- Comply with ANSI/EIA; RS-310-D; DIN41491; IEC297-2; DIN41494; PART7; GB/T3047.2-92 Standards
- Simple structure
- The volume of disassembly is only 1/3 – 1/2 of assembly
- International popular color tempered glass door
- Installed castors to move easily
- Quick installing of side panels and rear door
- The bottom cable entry can be closed with opening size that can be adjusted according to the requirements
- Various optional accessories
- Reliable quality
- Static loading capacity: 300kg

Surface Finish

Degreasing, pickling, phosphoric powder coated

Material

SPCC Cold Rolled Steel Plate
 Frame: Front Door 1.2mm, Others 0.8mm



Color

RAL 9004	RAL 7044	RAL 7039
 Black	 Silk Gray	 Quartz Gray



Part No.	Width x Depth x Height (mm)	Capacity (U)
CSEE6621	600 x 600 x 1200	21
CSEE6821	600 x 800 x 1200	
CSEE6627	600 x 600 x 1400	27
CSEE6827	600 x 800 x 1400	
CSEE6631	600 x 600 x 1600	31
CSEE6831	600 x 800 x 1600	
CSEE6636	600 x 600 x 1800	36
CSEE6836	600 x 800 x 1800	
CSEE6641	600 x 600 x 2000	41
CSEE6841	600 x 800 x 2000	

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Server Cabinets

Specifications

- Server cabinets with perforated doors (perforation percentage 78%)
- Protection class IP20
- Static load-carrying capacity up to 1600 kg
- Possible installation of different servers

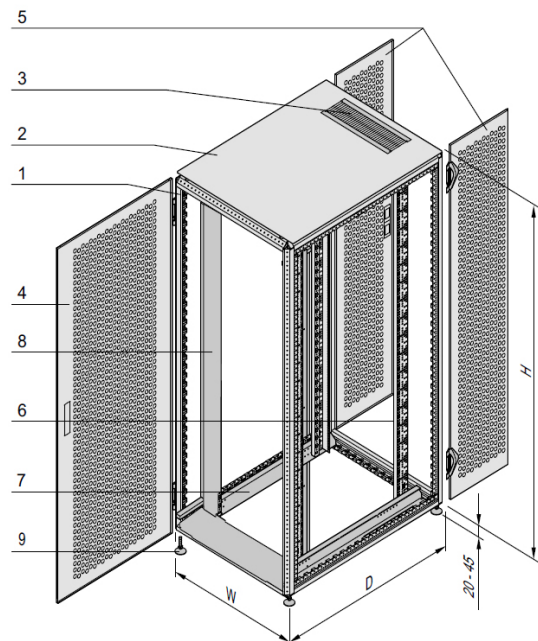


RAL 7021



RAL 7035

Item	QTY	Description
1	1	Welded basic frame (Slim-Line) from steel profiles, RAL 7021
2	1	Flat top cover, St, RAL 7021, with pre punched perforation for retrofitting the brush strip, perforated cover plate (width 600 mm) or perforated and lateral fan tray (width 800 mm)
3	1	Brush strip for 600 mm and 800 mm widths.
4	1	Front door, perforated, St, with 180° hinges, 3-point locking and lever handle (option to upgrade with DIN profile half cylinder), colors RAL 7035, RAL 7021, or RAL 9003.
5	1	Rear double door, perforated, St, with 180° hinges, 3-point locking and lever handle (option to upgrade with DIN profile half cylinder), colors RAL 7035, RAL 7021, or RAL 9003.
6	4	19" panel/slide mounts, St, mounted in 740 mm intervals, with U marking, color RAL 7035, RAL 7021, or RAL 9003.
7	4	Cross member, St (to accept 19" panel/slide mounts in 800 mm wide cabinets)
8	1	Baffle kits to separate the front side of 19" plane, St, 1.5 mm, color RAL 7035, RAL 7021, or RAL 9003
9	4	Adjustable foot
10	1	Earthing (GND) kit, fitted






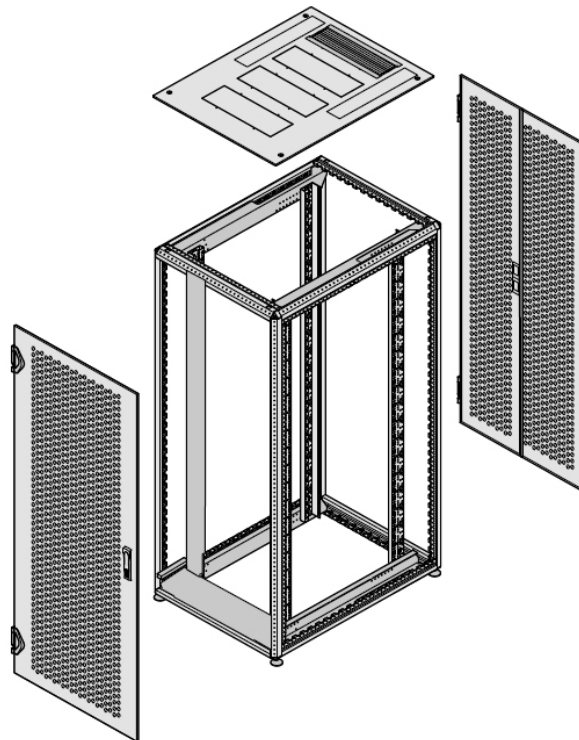
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Ordering Information

Part Number			Capacity	Height (H)	Width (W)	Depth (D)
RAL 7021	RAL 7035	RAL 9003	U	mm	mm	mm
14213-075	14223-075	14233-075	42	2000	600	1000
14213-085	14223-085	14233-085	42	2000	600	1200
14213-076	14223-076	14233-076	42	2000	800	1000
14213-086	14223-086	14233-086	42	2000	800	1200
14713-079	14723-079	14733-079	47	2200	600	1000
14713-089	14723-089	14733-089	47	2200	600	1200
14713-080	14723-080	14733-080	47	2200	800	1000
14713-090	14723-090	14733-090	47	2200	800	1200
15213-083	15223-083	15233-083	52	2450	600	1000
15213-093	15223-093	15233-093	52	2450	600	1200
15213-084	15223-084	15233-084	52	2450	800	1000
15213-094	15223-094	15233-094	52	2450	800	1200

Color

RAL 7021	RAL 7035	RAL 9003
 Stone Gray	 Light Gray	 Signal White



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Double Section Wall Mounted Cabinets

Compliant with ANSI/EIA RS-310-D, DIN41497 Part 1, DIN41494 Part 7, and GB/T3047.2-92 Standards.



Features

- Double section welded frame, reliable structure
- Easy operation and maintaining at the back
- 19" standard installation
- Removable side panels with optional side locks
- Knock-out holes for entering cables from top cover and bottom panel
- 120mm fan (optional)
- Turning angle of front door is above 180 degrees
- Turning angle of rear door is above 90 degrees

Material

SPCC Cold Rolled Steel.
Thickness: 2.0mm, 1.2mm, 1.0mm

Surface Finish

Degreasing, Phosphoric, Powder Coated

Thickness

Mounting Profile: 2.0mm, Others: 1.2 – 1.5mm

Loading Capacity

60KG

Degree of Protection

IP20

Colors

RAL 9004	RAL 7044	RAL 7039
Black	Silk Gray	Quartz Gray

Part No.	Width x Depth x Height (mm)	Capacity (U)
CSWMD6406	600 x 450 x 368	6
CSWMD6606	600 x 600 x 368	
CSWMD6409	600 x 450 x 501	9
CSWMD6609	600 x 600 x 501	
CSWMD6412	600 x 450 x 635	12
CSWMD6612	600 x 600 x 635	
CSWMD6415	600 x 450 x 769	15
CSWMD6615	600 x 600 x 769	
CSWMD6418	600 x 450 x 901	18
CSWMD6618	600 x 600 x 901	
CSWMD6522	600 x 550 x 1082	22
CSWMD6622	600 x 600 x 1082	
CSWMD6527	600 x 550 x 1304	27
CSWMD6627	600 x 600 x 1304	

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Wall Mounted Cabinets

Single Section Wall Mounted Cabinets

Compliant with ANSI / EIA RS-310-D, DIN41491, IEC297-2, DIN41491 Part 7, and GB/T3047.2-92 Standards.



Features

- Welded frame, reliable structure
- Floor standing or wall mounting installations
- Adjustable feet and heavy-duty castors are optional
- Easy mounting installation
- 19" standard installation
- Removable side panels with optional side locks
- Knock-out holes for entering cable from top cover and bottom panel
- 120mm fan (optional)
- Turning angle of front door is over 180 degrees



Materials

SPCC Cold Rolled Steel
Thickness: 2.0mm, 1.2mm, 1.0mm

Surface Finish

Degreasing, Phosphoric, Powder Coated

Thickness

Mounting Profile 2.0mm, Others: 1.2 – 1.5mm

Loading Capacity

60KG

Degree of Protection

IP20

Colors

RAL 9004	RAL 7044	RAL 7039
Black	Silk Gray	Quartz Gray

Part No.	Width x Depth x Height (mm)	Capacity (U)
CSWMS6406	600 x 450 x 368	6
CSWMS6606	600 x 600 x 368	
CSWMS6409	600 x 450 x 501	9
CSWMS6609	600 x 600 x 501	
CSWMS6412	600 x 450 x 635	12
CSWMS6612	600 x 600 x 635	
CSWMS6415	600 x 450 x 769	15
CSWMS6615	600 x 600 x 769	
CSWMS6418	600 x 450 x 901	18
CSWMS6618	600 x 600 x 901	
CSWMS6522	600 x 550 x 1082	22
CSWMS6622	600 x 600 x 1082	
CSWMS6527	600 x 550 x 1304	27
CSWMS6627	600 x 600 x 1304	

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FTTH ONT Flush Mount Cabinet

FTTH ONT flush mount cabinet is available in various sizes and colors to suit all applications and compatible with all international standards including 19" and ETSI.

Features

- Constructed with welded frame and reliable structure
- Recessed or surface mount installation
- Cable entry through bottom and top panel
- Adjustable 19" mounting rails
- 3U perforated mounting plate for active equipment
- Turning angle of front door is over 180 degrees
- Front door with tempered glass and lock
- Vented front door for ventilation/heat dissipation
- RoHS Compliant



Applications

LAN & WAN Networking
Telecommunications
FTTH/FTTX/PON Networks

Standards

DIN 41494-1, 7
EIA-310-E
IEC 60529 (IP 20)
IEC 60297-3

Technical Specifications

Material	SPCC cold rolled steel
Thickness	Mounting profile 1.5mm
	Mounting angle 1.5mm
	Others 1.2mm
Degree of Protection	IP20
Surface Finish	Degreasing, phosphoric, powder coated
Loading Capacity	30 KGS
Color	RAL 9016 / Traffic White
Capacity (U)	12
Dimension	600 x 450 x 150
	600 x 600 x 150
	600 x 600 x 300

Ordering Information

Part No.	Description
CS.6412.9150	FTTH ONT flush mount cabinet, 12U, 600 x 450 x 150 mm, glass front door, traffic white (RAL 9016)
CS.6612.9150	FTTH ONT flush mount cabinet, 12U, 600 x 600 x 150 mm, glass front door, traffic white (RAL 9016)
CS.6612.9300	FTTH ONT flush mount cabinet, 12U, 600 x 600 x 300 mm, glass front door, traffic white (RAL 9016)

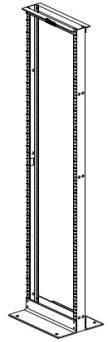
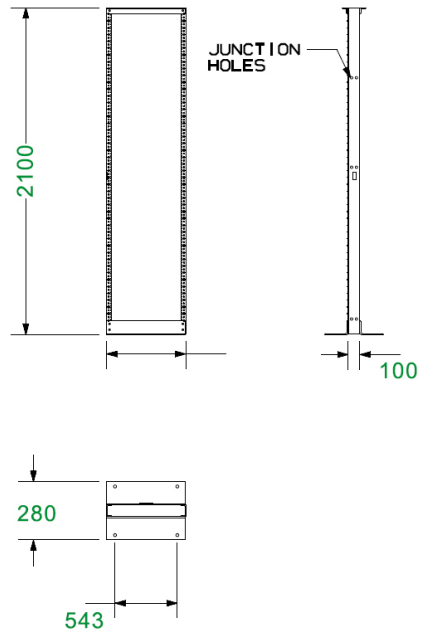
* FTTH surface mount ONT cabinets are available upon request.
* Other designs and colors are available upon request.

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Open Racks

2-Post Open Racks



Part No.	Description
CR2201-GY	2-Post open rack, 543 x 280 x 22U, gray
CR2201-BK	2-Post open rack, 543 x 280 x 22U, black
CR2401-BK	2-Post open rack, 543 x 280 x 24U, black
CR3701-BK	2-Post open rack, 543 x 280 x 37U, black
CR4601-BK	2-Post open rack, 543 x 280 x 46U, black

Wall Mount Bracket

Surface Finish

Degreasing, pickling, phosphoric powder coated

Material

SPCC Cold Rolled Steel Plate
Material Thickness 2mm



Part No.	Description
CSWMB01	Wall mount bracket, 1.75 x 19 x 4 inch, 1U
CSWMB02	Wall mount bracket, 3.5 x 19 x 4 inch, 2U
CSWMB03	Wall mount bracket, 5.25 x 19 x 4 inch, 3U
CSWMB04	Wall mount bracket, 7 x 19 x 4 inch, 4U
CSWMB05	Wall mount bracket, 7 x 19 x 12 inch, 4U
CSWMB06	Wall mount bracket, 12.25 x 19 x 12 inch, 7U

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Cable Management Panels

For neat and orderly cable routing
1U or 2U options

Part No.	Description
CS001CM	19" Cable management panel, 25 slots, metal, 1U
CS002CM	19" Cable management panel, 25 slots, metal, 2U



CS001CM

Part No.	Description
CSCM02-1U	19" Cable management panel, 12 slots, metal, 1U
CSCM02-2U	19" Cable management panel, 12 slots, metal, 2U



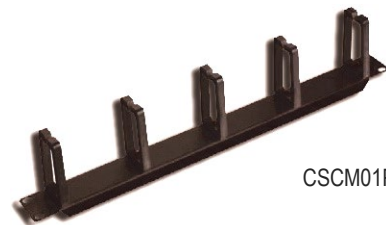
CSCM02-1U

Part No.	Description
CSCM01-1U	19" Cable management panel, 5 metal D-rings, 1U
CSCM01-2U	19" Cable management panel, 5 metal D-rings, 2U



CSCM01-1U

Part No.	Description
CSCM01P-1U	19" Cable management panel, 5 plastic D-rings, 1U
CSCM01P-2U	19" Cable management panel, 5 plastic D-rings, 2U



CSCM01P-1U

Part No.	Description
CSCM05-1U	19" Cable management panel, 12 slots, plastic, 1U
CSCM05-2U	19" Cable management panel, 12 slots, plastic, 2U



CSCM05-2U

Part No.	Description
CSCM05-1UD	19" Cable management panel, 12 slots, plastic, double sided, 1U
CSCM05-2UD	19" Cable management panel, 12 slots, plastic, double sided, 2U



CSCM05-2UD

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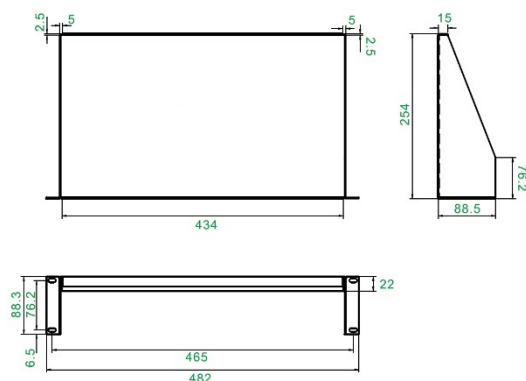
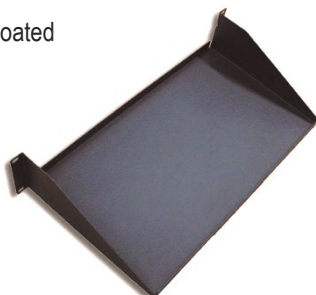
Cantilever Shelves

Surface Finish

Degreasing, pickling, phosphoric powder coated

Material

SPCC Cold Rolled Steel
Material Thickness 1.2mm



Part No.	Description
CA001	19" Cantilever shelf, 14.5-inch depth, 22kg load capacity, 2U
CA002	19" Cantilever shelf, 10-inch depth, 22kg load capacity, 2U

Blank Panels

Surface Finish

Degreasing, pickling, phosphoric powder coated

Material

SPCC Cold Rolled Steel
Material Thickness 1.2mm

Color

RAL 9004 / RAL 7044



Part No.	Description
CSJMB1U	19" Blank panel, metal, 1U
CSJMB2U	19" Blank panel, metal, 2U
CSJMB3U	19" Blank panel, metal, 3U
CSJMB4U	19" Blank panel, metal, 4U

Brush Panels

Surface Finish

Degreasing, pickling, phosphoric powder coated

Material

SPCC Cold Rolled Steel
Material Thickness 1.2mm

Color

RAL 9004 / RAL 7044



Part No.	Description
CS-BP-1.2-1U	19" Brush panel, 1U

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Power Distribution Units

- 19" horizontal mounting
- Various socket styles
- Compliant with international standards
- Other PDU options are available upon request

Part No.	Description
CS-PDU-US7W	19" US power distribution unit, 7 ways, horizontal mounting
CS-PDU-GR8W	19" Germany power distribution unit, 8 ways, horizontal mounting
CS-PDU-UK6W	19" UK power distribution unit, 6 ways, horizontal mounting



Screws

Surface Finish

Nickel Plating, Galvanized

Part No.	Description
CA1032	10/32 Screw for rack, black
CA1224	12/24 Screw for rack, black

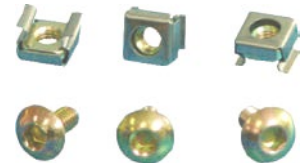


Screws & Nuts

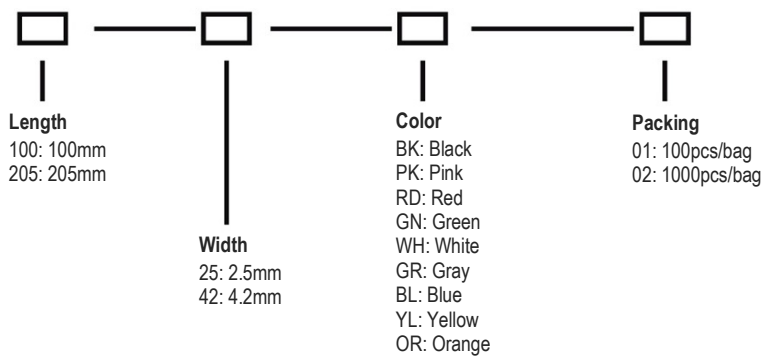
Surface Finish

Nickel Plating, Galvanized

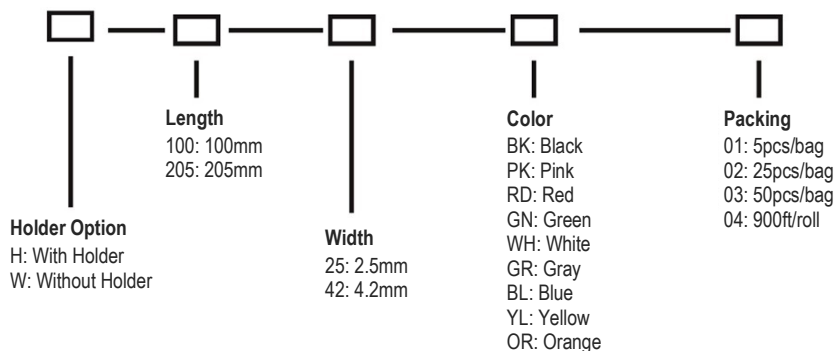
Part No.	Description
CSM6	Screw M6 x 16, Nut M6
CSM8	Screw M8 x 16, Nut M8



Cable Ties



Velcro Ties



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Modular Plug Crimping/Stripping/Cutting Tools



CS-TL-315



CS-TL-568



CS-TL-S501A



CS-TL-5021

Part No.	Description	Remarks
CS-TL-315	Modular plug crimping, stripping, and cutting tool, 7.7" (195mm)	For 8P8C/RJ45, 6P6C/RJ12, 6P4C/RJ11, 4P4C/RJ9 plugs
CS-TL-568	Modular plug crimping, stripping, and cutting tool, 7.3" (185mm)	For 8P8C/RJ45, 6P6C/RJ12, 6P4C/RJ11 plugs
CS-TL-S501A	UTP/STP cable stripping and cutting tool, 4.8" (122mm)	For cable diameter from 3.2mm to 9mm maximum
CS-TL-5021	Precise cutter and stripper tool, 6.6" (168mm)	Spring loaded plastic handles with locking lever

Punch Down Tools



CS-TL-IT01



CS-TL-3141A



CS-TL-110



CS-TL-315DR

Part No.	Description	Remarks
CS-TL-IT01	Insertion tool	For 110 wiring blocks
CS-TL-3141A	Krone type punch down tool, 7.1" (180mm)	Insertion tool for terminals with simultaneous cutting
CS-TL-110	Impact punch down tool, 7.4" (188mm)	For 110/88 type blades
CS-TL-315DR	5-pair 110 punch down tool, 4.3" (108mm)	For 5-pair 110 type blades

Tool Kits







CS-TL-K568RT



CS-TL-K4015

Part No.	Description
CS-TL-K568RT	Network tool kit, 300 x 220 x 60 mm
CS-TL-K4015	Network modular tool kit, 350 x 250 x 60 mm

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Category	Description	Pairs	Packing
	Boxes and Drums		Pallet Outer Packing
	Telecom Cables		Metal Drum or Wooden drum
	HDMI Cables		Blister Pack, Paper Pack, or Plastic Pack
Patch Cords	4P		
	Miniature Cables		Paper Box or Plastic Reel

Category	Description	Pairs	Packing
	<p>Cat. 3 – Cat. 7A Cables</p>	<p>4P & Under 4P</p>	<p>100m: Paper Box 305m: Pull Box or Reel in Box 500m/1000m: Wooden Drum</p>
	<p>Cat. 3 – Cat. 5e Cables</p>	<p>4P – 100P</p>	<p>305m, 500m, 1000m: Wooden Drum</p>
	<p>Bundled Cables PCM Data Cables</p>	<p>4P – 50P</p>	<p>305m, 500m, 1000m: Wooden Drum</p>



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SETTING THE STANDARD IN STRUCTURED CABLING

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