

Product Catalog by equip

solutions with a high value of benefit



The brand equip stands for a product development driven by quality management and continuous adjustments to the requirements of the market.

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BETTER LIFE



USB 2.0 CABLE A TO A

- USB Type A Male to Type A Male
- Double shielded
- Gold flash contact

USB 2.0, 1.8m	128870
USB 2.0, 3m	128871
USB 2.0, 5m	128872



USB 2.0 A TO B ADAPTER CABLE

- USB Type A Male to Type B Male
- Nickel Plated
- Double shielding for error-free data transfer
- Jacket: PVC

USB 2.0, 1m	128863
USB 2.0, 1.8m	128860
USB 2.0, 3m	128861
USB 2.0, 5m	128862
USB 2.0, 1m, Transparent	128653
USB 2.0, 1.8m, Transparent	128650
USB 2.0, 3m, Transparent	128651
USB 2.0, 5m, Transparent	128652



USB 2.0 A TO MICRO-B ADAPTER CABLE

- USB Type A Male to Micro-B Male
- Nickel Plated
- Double shielding for error-free data transfer
- Jacket: PVC

USB 2.0, 1m, With ferrite beads	128596
USB 2.0, 1.8m, With ferrite beads	128551
USB 2.0, 3m	128594
USB 2.0, 5m	128523
USB 2.0, 1m, Retractable	128595



USB 2.0 A MALE TO C MALE CABLE

- Type A male to Type C Male
- PVC molding
- Certified USB Type C Connector
- Nickel plated

1.0m	12888107
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USB 2.0 B MALE TO C MALE CABLE

- Type B Male to Type C Male
- PVC molding
- Certified USB Type C Connector
- Nickel plated

1.0m	12888207
------	----------



USB 2.0 C MALE TO C MALE CABLE

- Type C Male to Type C Male
- PVC molding
- Certified USB Type C Connector
- Nickel plated

1.0m	12888307
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USB 2.0 TYPE A EXTENSION CABLE MALE TO FEMALE

- USB Type A Female
- USB Type A Male
- Nickel Plated
- Double shielding for error-free data transfer
- Jacket: PVC

USB 2.0, 1.8m, A/M-A/F	128850
USB 2.0, 3m, A/M-A/F	128851
USB 2.0, 5m, A/M-A/F	128852



USB 2.0 TYPE A ACTIVE EXTENSION CABLE MALE TO FEMALE

- USB Type A Female
- USB Type A Male
- Over current protection
- Nickel Plated
- USB Bus Powered
- Double shielding for error-free data transfer
- Jacket: PVC

USB 2.0, 5m, A/M-A/F, Active	133336
USB 2.0, 10m, A/M-A/F, Active	133310
USB 2.0, 15m, A/M-A/F, Active	133311



USB 2.0 A TO MINI-B ADAPTER CABLE

- USB 2.0
- USB Type A Male
- Mini USB Male
- Nickel Plated
- Jacket: PVC

1.8m	128521
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USB 2.0 MICRO-B MALE TO C MALE CABLE

- Micro B Male to Type C Male
- PVC molding
- Certified USB Type C Connector
- Nickel plated

1.0m	12888407
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USB 3.0 TYPE A TO TYPE B CABLE

- USB 3.0
- USB Type A Male
- USB Type B Male
- Jacket: PVC
- Nickel Plated

1m	128291
1.8m	128292
3.0m	128293



USB 3.0 A MALE TO C MALE CABLE

- Type A Male to Type C Male
- PVC molding
- Certified USB Type C Connector
- Nickel plated
- 10Gbps data transfer rate
- 3A charging output

0.25m	128343
0.5m	128345
1m	12834107



USB 3.1 C MALE TO C MALE CABLE

- Type C Male to Type C Male
- PVC molding
- Certified USB Type C Connector
- Nickel plated
- 10Gbps data transfer rate
- 3A charging output

1.0m 12834207



PLATINUM USB 3.1 TYPE C CABLE

- Type C Male to type C Male
- Built in Electronically-Marked IC
- Reversible connector
- 10Gbps data transfer rate
- 3A charging output

1m 128351
2m 128352



USB 3.0 TYPE A EXTENSION CABLE MALE TO FEMALE

- USB Type A Female
- USB Type A Male
- Nickel Plated
- Double shielding for error-free data transfer
- Jacket: PVC

USB 3.0, 2m, A/M-A/F 128398
USB 3.0, 3m, A/M-A/F 128399



AUDIO CABLE 3.5MM MALE TO 2 RCA MALE

- 3.5mm Audio Male to 2 RCA Male
- Nickel-plated plugs for better signal transmission and corrosion resistant

2.5m 14709207



AUDIO CABLE 3,5MM JACK, MALE - MALE

- 3.5mm Audio Male to 3.5mm Audio Male
- Nickel-plated plugs for better signal transmission and corrosion resistant
- PVC Jacket

2.5m 14708107



AUDIO CABLE 3,5MM, MALE - FEMALE

- 3.5mm Audio Male to 3.5mm Audio Female
- Nickel-plated plugs for better signal transmission and corrosion resistant
- PVC Jacket

2.5m 14708207



USB 3.0 A TO MICRO-B ADAPTER CABLE

- USB 3.0
- USB Type A Male
- Micro USB Male
- Jacket: PVC
- Nickel Plated

1.8m 128397



TOSLINK OPTICAL DIGITAL AUDIO CABLE

- 2 x Toslink (SPDIF) Male
- Gold Plated metal shell connector with polished lens
- Jacket Material: PVC

1.8m 147921
3m 147922
5m 147923



AUDIO SPLIT CABLE, MALE X 1 TO FEMALE X 2

- 3.5mm Mini-Jack Male x 1
- 3.5mm Mini-Jack Female x 2
- Length: 130mm
- Jacket Material: PVC

147941



AUDIO SPLIT CABLE, FEMALE X 1 TO MALE X 2

- 3.5mm Mini-Jack Female x 1
- 3.5mm Mini-Jack Male x 2
- Length: 130mm
- Jacket Material: PVC

147942



DISPLAYPORT 1.2 CABLE

- DisplayPort Male to Male
- Supports video resolutions up to 4K/60Hz
- Bandwidth up to 21.6Gbps
- Nickel Plated
- Jacket: PVC

1m	119331
2m	119332
3m	119333
5m	119337



DVI-D DUAL LINK CABLE

- DVI Dual-Link (24+1) Male
- Support WUXGA (1920 x 1200) @ 120Hz
- Support WQXGA (2560 x 1600) @ 60Hz
- Jacket: PVC
- Nickel Plated

1.8m	118932
3m	118933
5m	118935
10m	118937
1.8m, Male to Female	118972
3m, Male to Female	118973



HD15 VGA CABLE AM-AM

- Double Shielded
- Built with knurled screws
- Nickel Plated
- Jacket: PVC

1m	118810
1.8m	118817
3m	118811
5m	118812
8m	118813
10m	118814
15m	118815
20m	118816



HDMI 1.4 CABLE

- HDMI 1.4 compatible
- Support 3D and Audio Return Channel (ARC)
- Supports Dolby TrueHD and DTS-HD
- Master Audio
- Supports HDMI Ethernet Channel (HEC)
- Supports video resolutions up to 4K/30Hz

HDMI 1.4, 1.8m	119352
HDMI 1.4, 3m	119353
HDMI 1.4, 5m	119355
HDMI 1.4, 7.5m	119356
HDMI 1.4, 10m	119357
HDMI 1.4, 15m	119358
HDMI 1.4, 20m	119359



HDMI 2.0 SWIVEL CABLE

- HDMI 2.0 compatible
- 180 degrees swivel plug
- Bandwidth up to 18Gbps
- Enables transmission of High Dynamic Range (HDR) video
- Supports video resolutions up to 4K/60Hz
- Gold Plated Connectors for high signal quality
- Supports HDMI Ethernet Channel (HEC)

HDMI 2.0, 1m, Swivel plug	119361
HDMI 2.0, 2m, Swivel plug	119362
HDMI 2.0, 3m, Swivel plug	119363
HDMI 1.4, 5m, Swivel plug	119365



HDMI 2.0 CABLE

- HDMI 2.0 compatible
- Bandwidth up to 18Gbps
- Enables transmission of High Dynamic Range (HDR) video
- Supports video resolutions up to 4K/60Hz
- Gold Plated Connectors for high signal quality
- Supports HDMI Ethernet Channel (HEC)

HDMI 2.0, 1m, dual color	119341
HDMI 2.0, 2m, dual color	119342
HDMI 2.0, 3m, dual color	119343



HD15 VGA EXTENSION CABLE AM-AF

- HD15 VGA Female
- HD15 VGA Male
- Double Shielded
- Built with knurled screws
- Nickel Plated
- Jacket: PVC

1m, A/M-A/F	118800
1m, A/M-A/F	118807
3m, A/M-A/F	118801
5m, A/M-A/F	118802
8m, A/M-A/F	118803
10m, A/M-A/F	118804
15m, A/M-A/F	118805
20m, A/M-A/F	118806



HD15 PREMIUM VGA CABLE

- HD15 Male x 2
- Double Shielded
- Built with knurled screws
- Nickel Plated
- Jacket: PVC

1.8m	118860
3m	118861
5m	118862
10m	118864
15m	118865
20m	118866
30m	118867



HD15 PREMIUM VGA EXTENSION CABLE

- HD15 VGA Female
- HD15 VGA Male
- Double Shielded
- Built with knurled screws
- Nickel Plated
- Jacket: PVC

1.8m, A/M-A/F	118850
3m, A/M-A/F	118851
5m, A/M-A/F	118852
10m, A/M-A/F	118854
15m, A/M-A/F	118855
20m, A/M-A/F	118856



HDMI 2.0 CABLE

- HDMI 2.0 compatible
- Bandwidth up to 18Gbps
- Enables transmission of High Dynamic Range (HDR) video
- Supports video resolutions up to 4K/60Hz
- Gold Plated Connectors for high signal quality
- Supports HDMI Ethernet Channel (HEC)

HDMI 2.0, 5.0m	119340
HDMI 2.0, 7.5m	119346
HDMI 2.0, 10m	119347



HDMI 2.0 CABLE

- Bandwidth up to 18Gbps
- Enables transmission of High Dynamic Range (HDR) video
- Supports video resolutions up to 4K/60Hz
- Gold Plated Connectors for high signal quality
- Supports HDMI Ethernet Channel (HEC)

HDMI 2.0, 1.8m	119350
HDMI 2.0, 3m	119351
HDMI 2.0, 5M	119371
HDMI 2.0, 7.5M	119372
HDMI 2.0, 10M	119373
HDMI 2.0, 15M	119374
HDMI 2.0, 20M	119375



HDMI 2.0 ACTIVE OPTICAL CABLE, AM/AM

- HDMI 2.0 compatible
- Supports HDMI Ethernet Channel (HEC)
- Supports video resolutions up to 4K/60Hz
- Bandwidth up to 18Gbps
- Supports 3D display, HDCP2.2 and HDR
- Zinc Alloy housing
- The range of active optical leads give you up to 100m of distance

30m	119430
50m	119431
70m	119432
100m	119433



HDMI 2.1 ULTRA HIGH SPEED CABLE

- HDMI 2.1 Compatible
- Supports HDMI Ethernet Channel (HEC)
- Bandwidth up to 48Gbps
- Supports video resolutions up to 8K/60Hz
- Dynamic HDR (HDR Dynamic Metadata)
- Enhanced Audio Return Channel eARC
- Variable Refresh Rate (VRR)
- Quick Media Switching (QMS)
- Quick Frame Transport (QFT)
- Auto Low Latency Mode (ALLM)
- Display Stream Compression (DSC)

1m 119380
2m 119381



HDMI TO MINI HDMI ADAPTER CABLE

- HDMI Type A Male to Mini HDMI Male
- HDMI Ethernet Channel (HEC)
- 3D and Audio Return Channel (ARC)
- Video resolutions up to 4K x 2K

1m 119306
2m 119307



HDMI TO MICRO HDMI ADAPTER CABLE

- HDMI Type A Male to Micro HDMI Male
- HDMI Ethernet Channel (HEC)
- 3D and Audio Return Channel (ARC)
- Video resolutions up to 4K x 2K

1m 119309
2m 119308



USB-C TO VGA ADAPTER

- USB Type C to VGA Connectivity
- USB Type C Male
- HD15 VGA Female
- Supports video resolutions of up to 1920x1080/60HZ
- Length: 15CM

133451



USB-C TO HDMI ADAPTER

- USB Type C to HDMI connectivity
- Support resolution up to 4096 x 2160 @ 30Hz
- Length: 15CM

133452



USB-C TO DVI ADAPTER

- USB Type C to DVI connectivity
- Resolution up to 4096 x 2160 @ 30 Hz
- Length: 15CM

133453



USB-C TO ETHERNET ADAPTER

- Gigabit Ethernet connectivity
- Supports 10/100/1000BASE-T
- Length: 15CM

133454



USB-C TO USB A FEMALE ADAPTER

- USB Type C to USB A Adapter
- Support up to 5Gb transfer rate
- 1.5A Charger Output
- Length: 15CM

133455



USB-C MALE TO SATA MALE ADAPTER

- USB Type C to SATA connectivity
- Supports SATA 1.5/3/6 Gb/s
- Length: 50CM

133456



USB-C MALE TO MINI DISPLAYPORT FEMALE ADAPTER

- USB Type C to Mini DisplayPort Connectivity
- Support resolution up to 4096 x 2160 @ 60 Hz
- Length: 15CM
- Support Win.7/8/10 & Mac OS 10.x or above

133457



USB-C MALE TO DISPLAYPORT FEMALE ADAPTER

- USB Type C to DisplayPort Connectivity
- Support resolution up to 4096 x 2160 @ 60 Hz
- Length: 15CM

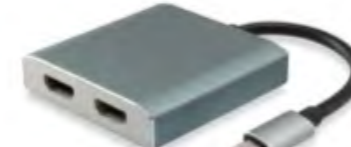
133458



USB TYPE C TO AUDIO ADAPTER

- USB Type C Male
- 3.5mm Female x 2
- Connect a 3.5mm stereo headphone or speaker
- Connect an external 3.5mm microphone

133460



USB TYPE C TO 2 X HDMI FEMALE ADAPTER

- USB Type C to HDMI x 2 Ports Adapter
- MST Hub Supported
- Resolution up to 4096 x 2160 @ 30 Hz
- Length: 15CM

133464



USB TYPE C TO HDMI CABLE MALE TO MALE

- HDMI Male
- Support resolution up to 4096 x 2160 @ 60 Hz
- Plug-and-Play

133466



USB TYPE C TO DISPLAYPORT CABLE MALE TO MALE

- DisplayPort Male
- Support resolution up to 4096 x 2160 @ 60 Hz
- Plug-and-Play

133467



USB TYPE C TO HDMI FEMALE/USB A FEMALE/PD ADAPTER

- Supports USB Power Delivery (PD) over USB Type C interface
- Supports USB 2.0/3.0 transmission
- Resolution up to 4096 x 2160 @ 30 Hz
- Length: 15CM

133461



USB TYPE C TO VGA FEMALE/USB A FEMALE/PD ADAPTER

- Supports USB 2.0/3.0 transmission
- Supports USB Power Delivery (PD) over USB Type C interface
- Supports video resolutions of up to 1920 x 1080
- Length: 15CM

133462



USB TYPE C TO MINI DISPLAYPORT FEMALE/USB A FEMALE/PD ADAPTER

- Supports USB Power Delivery (PD) over USB Type C interface
- Resolution up to 4096 x 2160 @ 30 Hz
- Supports USB 2.0/3.0 transmission
- Length: 15CM

133463



USB TYPE C TO DVI-D DUAL LINK CABLE MALE TO MALE

- Supports resolution up to 1920 x 1200
- DVI Dual-Link Male
- Plug-and-Play

133468



USB3.0 TO SATA ADAPTER

- Super Speed USB 3.0 (Backward compatible with USB 2.0 & 1.1)
- Support Plug and Play
- Transfer rate up to 5GB/s
- UASP supported
- Auto sleep function (hard disk will be in sleep mode after 15 mins without any data transfer)
- Support 2.5" SATA 1/2/3 HDD up to 2TB
- Cable length : 50cm

133471



USB-C MALE TO SATA MALE ADAPTER

- USB Type C Male
- Micro USB Female
- Material: Aluminum Shell

133472



USB TYPE C TO USB TYPE A ADAPTER

- USB Type C Male
- USB 3.0 Type A Female
- Support up to 5Gbps transfer rate
- Material: Aluminum
- Selling unit: 2pcs/pack

133473



HDMI TO HD15 VGA ADAPTER WITH AUDIO

- HDMI Male
- HD15 VGA Female
- 3.5mm Male x 1
- USB Type-A male (power supply)
- Length: 25CM
- Supports resolution up to 1920 x 1080

11903607



VGA TO HDMI ADAPTER WITH AUDIO

- HD15 VGA Male
- HDMI-A 19 pin female
- 3.5mm Male x 1
- USB Type-A male (power supply)
- Supports video resolutions of up to 1920x1080/60HZ

119038



MINI DISPLAYPORT TO HDMI ADAPTER

- Mini DisplayPort Male
- HDMI Female
- Supports video resolutions of up to 1920x1080/60HZ
- Length: 15CM

133434



MINI DISPLAYPORT TO HD15 VGA ADAPTER

- Mini DisplayPort Male
- HD15 VGA Female
- Supports video resolutions of up to 1920x1080/60HZ
- Length: 15CM

133432



MINI DISPLAYPORT TO VGA / HDMI / DVI ADAPTER

- Maximum resolution HDMI: 4096 x 2160 (4K) / 30 Hz
- Maximum resolution DVI & VGA: 1920 x 1080 / 60 Hz
- Simple Plug and Play installation, no additional power supply required

133439



DVI-D SINGLE LINK TO HDMI ADAPTER CABLE

- HDMI Type A Male to DVI (18+1) Male
- Gold plated contacts for superior conductivity and corrosion resistance
- Supports FullHD video streams

2m
3m
5m
10m

119322
119323
119325
119329



DVI-A TO HD15 VGA ADAPTER CABLE

- DVI-A Male to HDB15 Male
- Resolution up to 1920 x 1200

1.8m

118943



MINI DISPLAYPORT TO DVI-D DUAL LINK ADAPTER

- Mini DisplayPort Male
- DVI Female
- Supports video resolutions of up to 1920x1080/60HZ
- Length: 15CM

133433



MINI DISPLAYPORT TO DISPLAYPORT ADAPTER

- Mini DisplayPort Male to DisplayPort Female
- Length: 15CM
- Simple Plug and Play installation
- Supports video resolutions up to 4K/60Hz

133440



DISPLAYPORT TO HDMI ADAPTER

- DisplayPort Male to Male
- HDMI Female
- Supports video resolutions of up to 1920x1080/60HZ
- Length: 15CM

133438



DISPLAYPORT TO DVI-I DUAL LINK ADAPTER

- DisplayPort Male to Male
- DVI Female
- Supports resolution up to 1920 x 1200
- Length: 15CM

133431



DISPLAYPORT TO HD15 VGA ADAPTER

- DisplayPort Male to Male
- HD15 VGA Female
- Supports video resolutions of up to 1920x1080/60HZ
- Length: 15CM

133435



DISPLAYPORT TO DVI-D DUAL LINK ADAPTER CABLE

- DisplayPort Male to DVI-D Dual Link Male
- DVI Dual-Link (24+1) Male
- DisplayPort Male to Male
- Supports resolution up to 1920 x 1200
- Gold Plated Connectors

2m

119336



DISPLAYPORT TO HDMI ADAPTER CABLE

- DisplayPort Male
- HDMI Male
- Gold Plated Connectors
- Data rates of up to 10.2Gbps
- Supports video resolutions up to 4K/30Hz

119390 / 119391 / 119392



HDMI TO MICRO HDMI ADAPTER

- HDMI Type D Male to Type A Female
- Gold-plated connectors for high performance transmission
- Provide bridge connection between HDMI devices

118915



HDMI TO DVI-D DUAL LINK ADAPTER

- DVI-D Dual Link Male to HDMI Type A Female

118908

HDMI TO DVI-D DUAL LINK ADAPTER

- DVI-D Dual Link Female to HDMI Type A Male

118909



USB TO SERIAL DB9 ADAPTER

- Supports all common RS232 serial devices
- Supports remote wake-up and power management
- USB bus-powered

133382



HDMI ADAPTER 90° FLAT ANGLED ,M/F

- HDMI Type A Male to Type A Female
- Gold-plated connectors for high performance transmission
- 90 degrees flat angled
- Suitable for corner or tight spaces HDMI connection/extension

118910



HDMI ADAPTER 45° FOLDABLE, M/F

- HDMI Type A Male to Type A Female
- Gold-plated connectors for high performance transmission
- 45 degrees foldable
- Suitable for tight spaces HDMI connection/extension

118911



HDMI TO MINI HDMI ADAPTER

- HDMI Type C Male to Type A Female
- Gold-plated connectors for high performance transmission
- Provide bridge connection between HDMI devices

118914



USB TO PARALLEL ADAPTER CABLE

- USB Type A Male
- Centronics IEEE1284 36 pin male
- Simple Plug and Play installation
- 1.5 meters cable
- Supports EPP, ECP, bidirectional

133383



DB9 GENDER CHANGER

- DB9 Male to Male, metal

124300

- DB9 Female to Female, metal

124301



HDB15 GENDER CHANGER

- HDB15 Male to Male, metal

124320

- HDB15 Female to Female, metal

124321



SATA INTERNAL CONNECTION CABLE

- Snap-in mounting
- SATA 7pin to SATA 7pin
- With metal latch
- Foil shielded

0.5m, SATA 3.0	111900
1.0m, SATA 3.0	111901
0.5m, , SATA 3.0, angled	111902
1.0m, , SATA 3.0, angled	111903
0.3m SATA 2.0	111809
0.5m, , SATA 2.0	111800
1m, , SATA 2.0	111801
0.5m, , SATA 2.0, angled	111802
1m, , SATA 2.0, angled	111804



INTERNAL POWER SUPPLY CABLE

1 x MOLEX Male to 2 x MOLEX Female	112030
0.2m	



SATA POWER SUPPLY CABLE

1 x MOLEX Male to SATA 15pin,	112050
0.15m	
1 x MOLEX Male to SATA 15pin + MOLEX Female,	112052
0.3m	
1 x MOLEX Male to SATA 15pin, angled	112055
0.15m	



SATA POWER SUPPLY CABLE

• 1 x SATA 15pin to MOLEX + SATA 7pin 0.5m	112054
--	--------



2-PORT HDMI SPLITTER

- Distributes one video image to two displays
- Supports 3D format video transmission
- Powered from HDMI source
- Supports 480i, 480p, 720i, 720p, 1080i and 1080p
- Supports VGA, SVGA, XGA, UXGA mode
- HDCP ready
- Plug-and-play

332712



4-PORT HDMI SPLITTER

- Distributes one video image to four displays
- Supports 3D format video transmission
- Supports 480i, 480p, 720i, 720p, 1080i and 1080p
- Supports VGA, SVGA, XGA, UXGA mode
- HDCP ready
- Plug-and-play
- With 5V / 2A power adapter

332714



2-PORT VGA CABLE SPLITTER

- Distributes one video signal into two displays
- Cascadable up to 4 layers
- Additional USB port for input device
- Supports SVGA, VGA, XGA and multisync monitors
- Bandwidth 450 MHz
- High VGA resolution: 2048 x 1536 / 85Hz
- Supports wide screen displays
- Power supply via USB-Y-cable (0,40m)
- Plug-and-play

332521



CAT.5E RJ45 MODULAR ADAPTER

- Shielded
- RJ-45 plug to 2 x RJ-45 jack
- Split 1 x RJ45 port with 15cm cable into 2 x 10/100Base-T
- Connection two units are necessary

127608
127603



CAT.5E RJ-45 T-ADAPTER, 2M/1F, UTP

- 1x RJ-45 jack to 2 x RJ-45 plug
- Shares one installation cable with two different channel applications

127607



HDMI 1.4 SWITCH 3X1

- Compliant with HDMI1.4a, CTS 1.4a, DVI1.0 standard
- HDMI 1.4,support 3D
- Support 3D Video, 4Kx2K,8,10,12&16 bits per color depth
- Audio support: Dolby TrueHD, DTS-HD Master Audio 7.1 CH
- Low power consumption

332721



HDMI 1.4 SWITCH 5X1

- Compliant with HDMI1.4a, CTS 1.4a, DVI1.0 standard
- HDMI 1.4,support 3D
- Support 3D Video, 4Kx2K,8,10,12&16 bits per color depth
- Audio support: Dolby TrueHD, DTS-HD Master Audio 7.1 CH
- Low power consumption

332722



HDMI BI-DIRECTION SWITCH

- Option.1: Connect two HDMI sources to one HDMI display
- Option.2: Connect one HDMI source to toggle between two displays
- Support 4K 60HZ

332723



4X2 HDMI MATRIX SWITCH

- 4 x HDMI input and 2 x HDMI output
- MHL/HDMI dual-mode input with RCP function (HDMI Input 1)
- Extra audio output via SPDIF and 3.5mm ports (Output A)
- Supports video resolutions up to 4K x 2K@30Hz, 1080P@120Hz, 1080P 3D@60Hz
- Deep colour: 30/36/48 bit colour depths
- Support Blue-Ray 24/50/60fs/HD-DVD/xvYCC
- Audio format: DTS-HD/Dolby-trueHD/LPCM7.1/DTS/Dolby-AC3/DSD
- Support signal retiming

33271903



3X1 HDMI SWITCH

- Simple Plug and Play installation, no additional power supply required
- HDMI and HDCP complaint
- Deep colour: 36 bit colour depths
- Supports video resolutions of up to 1920 x 1080
- Easy switching between 3 HDMI devices

332703



MOUNT BRACKETS





23"-55" FLAT SCREEN TILT/SWIVEL WALL MOUNT BRACKET

- Supports 58~140cm (23"~55") Flat Screen Display
- Distance from TV to Wall: 56-610 mm
- -15°~15° Tilt, 180°Swivel, ± 3 Level Adjustment
- VESA Mount Standard: Maximum 400 x 400mm
- Hole Pattern (W x H): Maximum 400 x 400mm
- Support Flat Screen up to 35kgs/77lbs
- Material: Steel

650105



13"-42" ARTICULATING TV WALL MOUNT BRACKET

- Aluminum articulating swivel and tilt wall mount
- Slide-in wall plate provides easy access for attachment and detachment
- Integrated bubble level assures easy installation alignment
- Unique gear structure with fixing knob helps TV withstand vibrations
- Adjustment knob enables a full range of tilt/pan action
- Integrated cable management system
- VESA standards compliant

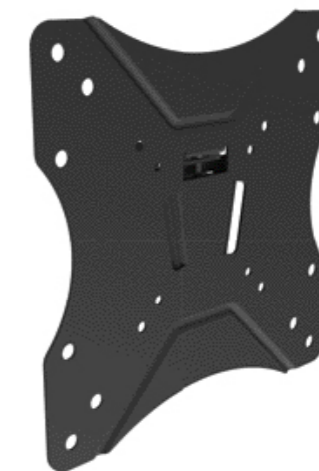
650106



23"-42" SLIM TV WALL MOUNT BRACKET

- Ultra Slim profile for space saving
- Max. Load Capacity: 25Kg
- Max. VESA: 200x200
- Tool-free tilt adjustment
- VESA standards compliant

650401



23"-42" PIVOTING TV WALL MOUNT BRACKET

- Max. Load Capacity: 25Kg
- Max. VESA: 200x200
- Adjustment knob enables a full range of tilt/swivel action
- VESA standards compliant

650402



13"-42" ARTICULATING TV WALL MOUNT BRACKET

- Aluminum articulating swivel and tilt wall mount
- Slide-in wall plate provides easy access for attachment and detachment
- Integrated bubble level assures easy installation alignment
- Unique gear structure with fixing knob helps TV withstand vibrations
- Adjustment knob enables a full range of tilt/pan action
- Integrated cable management system
- VESA standards compliant

650107



NEW

13"-55" ARTICULATING TV WALL MOUNT BRACKET

- Max. Load Capacity: 30Kg
- Max. VESA: 400x400
- Swivel and tilt wall mount
- Built-in Cable management
- VESA standards compliant
- Cable clips keep cables organized and protected

650108



23"-42" PIVOTING TV WALL MOUNT BRACKET

- Max. Load Capacity: 25Kg
- Max. VESA: 200x200
- Full motion mount
- Adjustment knob enables a full range of tilt action
- Cable clips keep cables organized and protected
- VESA standards compliant

650403



23"-42" ARTICULATING TV WALL MOUNT BRACKET

- Max. Load Capacity: 25Kg
- Max. VESA: 200x200
- Full motion mount
- Cable clips keep cables organized and protected
- Adjustment knob enables a full range of tilt action
- VESA standards compliant

650404



NEW

13"-55" ARTICULATING TV WALL MOUNT BRACKET

- Max. Load Capacity: 30Kg
- Max. VESA: 400x400
- Swivel and tilt wall mount
- VESA standards compliant

650405



NEW

650406...13"-55" PIVOTING TV WALL MOUNT BRACKET

- Max. Load Capacity: 30Kg
- Max. VESA: 400x400
- Swivel and tilt wall mount
- VESA standards compliant
- Built-in Cable management

650406



32"~ 55" FLAT SCREEN TILT WALL MOUNT BRACKET

- Supports 81~140cm (32"~55") Flat Screen Display
- 0° ~-14° tilt
- Distance from TV to Wall: 25mm
- VESA Mount Standard: Maximum 400 x 400mm
- Hole Pattern (W x H): Maximum 400 x 400mm
- Support Flat Screen up to 40kgs/88lbs
- Material: Steel

650311



32"-55" FLAT SCREEN TILT/SWIVEL WALL MOUNT BRACKET

- Supports 81~140cm (32"~55") Flat Screen Display
- Distance from TV to Wall: 53-518mm
- -15°~ + 5° Tilt, 120°Swivel
- VESA Mount Standard: Maximum 400 x 400mm
- Hole Pattern (W x H): Maximum 400 x 400mm
- Support Flat Screen up to 50kgs/110lbs
- Material: Aluminum + Steel + Plastic

650314



NEW

13"-55" ARTICULATING TV WALL MOUNT

- Max. Load Capacity: 30Kg
- Max. VESA: 400x400
- Swivel and tilt wall mount
- VESA standards compliant
- Built-in Cable management

650407



32"~ 55" FLAT SCREEN FIXED WALL MOUNT BRACKET

- Supports 81~140cm (32"~55") Flat Screen Display
- Distance from TV to Wall: 25mm
- VESA Mount Standard: Maximum 400 x 400mm
- Hole Pattern (W x H): Maximum 400 x 400mm
- Support Flat Screen up to 40kgs/88lbs
- Material: Steel

650310



32"-55" ARTICULATING TV WALL MOUNT BRACKET

- Max. Load Capacity: 50Kg (per screen)
- Max. VESA: 400x400
- Full motion mount
- VESA standards compliant
- Level adjustment ensures perfect positioning

650315



37"-70" ARTICULATING TV WALL MOUNT BRACKET

- Built-in level adjustment ensures perfect positioning
- Max. Load Capacity: 50Kg (per screen)
- Max. VESA: 600x400
- VESA standards compliant
- Full motion mount

650316



37"-70" ULTRA SLIM TV WALL MOUNT BRACKET

- Ultra Slim profile for space saving
- Tool-free tilt adjustment
- Built-in level adjustment ensures perfect positioning
- Max. Load Capacity: 35Kg
- Max. VESA: 600x400
- VESA standards compliant

650317



37"-70" LOW PROFILE TV WALL MOUNT BRACKET

- Integrated bubble level assures easy installation alignment
- Adjustment knob enables a full range of tilt action
- Easy-grip button for quick angling and locking
- Max. Load Capacity: 50Kg (per screen)
- Max. VESA: 600x400
- VESA standards compliant

650318



60"-100" TILT CURVED TV WALL MOUNT BRACKET

- Supports 152 ~ 254cm (60"~100") Flat Screen Display
- +15° ~ -15° tilt
- VESA Mount Standard: Maximum 1000 x 800mm
- Material: Cold Rolled Steel

650322



60"-100" FIXED CURVED TV WALL MOUNT BRACKET

- X-Large Heavy-duty Fixed Curved & Flat Panel TV Wall Mount
- Automatically click-in spring lock helps TV brackets snap into place for added safety
- Open architecture provides increased ventilation and easier access to wires
- VESA Standard
- Max. Load Capacity: 100Kg
- Max. VESA: 900x600

650323



32"-55" ECONOMY SLIM TILT TV WALL MOUNT BRACKET

- Free-tilting design for multiple monitor viewing angles
- Ultra Slim profile for space saving
- Freely angled for a variety of angles
- Max. Load Capacity: 35Kg
- Max. VESA: 400x400
- VESA standards compliant

650319



32"~ 55" FLAT SCREEN SLIM FIXED WALL MOUNT BRACKET

- Supports 81~140cm (32"~55") Flat Screen Display
- Distance from TV to Wall: 9mm
- VESA Mount Standard: Maximum 400 x 400mm
- Hole Pattern (W x H): Maximum 480 x 523mm
- Support Flat Screen up to 55kgs/110lbs
- Material: Steel

650320



37"-90" TILT/SWIVEL TV WALL MOUNT BRACKET

- Swiveling arm offer maximum viewing flexibility
- Built-in level adjustment ensures perfect positioning
- Swivel and tilt wall mount
- VESA standards compliant
- Max. Load Capacity: 75Kg
- Max. VESA: 800x400

650324



19"-55" PUSH-IN POP-OUT TV WALL MOUNT BRACKET

- Compatible with landscape and portrait mounting
- Push-In Pop-Out for easy access and after service
- Modular mount with unlimited video display configurations
- Built-in Cable management
- Max. Load Capacity: 50Kg (per screen)
- Max. VESA: 600x400

650325

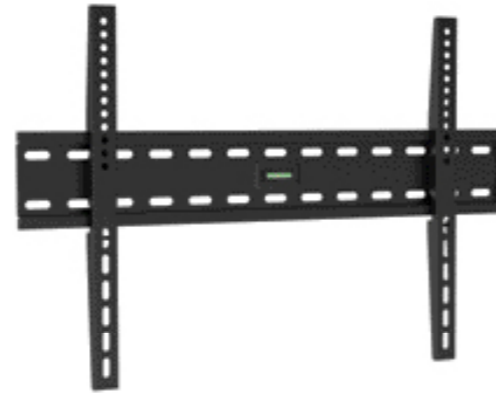
NEW



43"-70" PULL-DOWN TV WALL MOUNT BRACKET

- Max. Load Capacity: 35Kg
- Max. VESA: 600x400
- VESA standards compliant
- Swivel and tilt wall mount
- Built-in level adjustment ensures perfect positioning
- Gas Piston Auto-Stabilization
- Cable Management: keeps everything organized

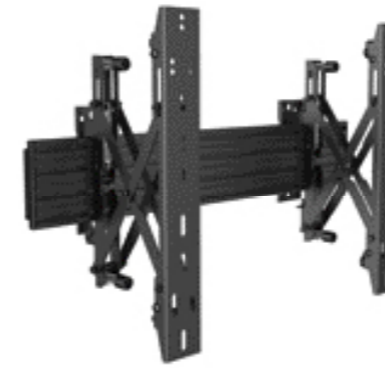
650326



37"~ 70" FLAT SCREEN SLIM FIXED WALL MOUNT BRACKET

- Supports 94~178cm (37"~70") Flat Panel Display
- Distance from TV to Wall: 23.5mm
- VESA Mount Standard: Maximum 600 x 400mm
- Hole Pattern (W x H): Maximum 620 x 408mm
- Support Flat Screen up to 50kgs/110lbs
- Material: Steel

650330



32"-65" MODULAR PUSH-IN POP-OUT TV WALL MOUNT BRACKET

- Compatible with landscape and portrait mounting
- Push-In Pop-Out for easy access and after service
- Built-in Cable management
- Modular mount with unlimited video display configurations
- VESA standards compliant
- Max. Load Capacity: 30Kg (per screen)
- Max. VESA: 600x400

650355



32"-55" FIXED TV WALL MOUNT BRACKET

- Integrated bubble level assures easy installation alignment
- Slide-in wall plate provides easy access for attachment and detachment
- VESA standards compliant
- Max. Load Capacity: 55Kg
- Max. VESA: 400x400

650363



37"~ 70" FLAT SCREEN TILT WALL MOUNT BRACKET

- Supports 94~178cm (37"~70") Flat Panel Display
- Distance from TV to Wall: 57mm
- -15°~+15° Tilt
- VESA Mount Standard: Maximum 600 x 400mm
- Hole Pattern (W x H): Maximum 610 x 405mm
- Support Flat Screen up to 50kgs/110lbs
- Material: Steel

650340



37"-65" MOTORIZED REMOTE CONTROL TV STAND

- Remote Control Included: for easy movements
- Max. Load Capacity: 50Kg (per screen)
- Max. VESA: 600x400
- VESA standards compliant
- Height adjustment
- Integrated cable management

650606

NEW



32"-65" CEILING MOUNT DUAL SCREEN TV BRACKET

- Compatible with landscape and portrait mounting
- Integrated bubble level assures easy installation alignment
- Adjustment knob enables a full range of tilt/swivel action
- VESA standards compliant
- Built-in Cable management
- Max. VESA: 600x400
- Max. Load Capacity: 40Kg (per screen)

650370



32"-70" CEILING TO FLOOR TV MOUNT BRACKET

- Telescoping height adjustment for the optimal viewing height
- Free-tilting & swiveling design for multiple TV viewing angles
- Built in Cable management
- Detachable VESA plate design enables easy installation
- Max. Load Capacity: 50Kg (per screen)
- Max. VESA: 400x400

650321



32"-65" CEILING MOUNT TRIPLE SCREEN TV BRACKET

- Compatible with landscape and portrait mounting
- Integrated bubble level assures easy installation alignment
- Adjustment knob enables a full range of tilt/swivel action
- VESA standards compliant
- Built-in Cable management
- Max. VESA: 600x400
- Max. Load Capacity: 30Kg (per screen)

650371



32"-65" CEILING MOUNT QUAD SCREEN TV BRACKET

- Integrated bubble level assures easy installation alignment
- Adjustment knob enables a full range of tilt/swivel action
- Compatible with landscape and portrait mounting
- Built-in Cable management
- VESA standards compliant
- Max. VESA: 600x400
- Max. Load Capacity: 30Kg (per screen)

650372



PROJECTOR CEILING MOUNT BRACKET

- Sturdy and lightweight aluminum construction
- Integrated cable management system
- Height adjustment: 130/220mm
- Height adjustment: 130/200mm, not 220mm
- Max Loading capacity: 10kg

650700



PROJECTOR CEILING WALL MOUNT BRACKET

- Height adjustment
- Height/length adjustment
- Integrated cable management system
- Mounting Range: 225~316mm
- Max Loading capacity: 20kg

Black
White

650702
650703



NEW

45"-55" DUAL SCREEN CEILING MOUNT

- Support TV 45"-55"
- Max. Load Capacity: 50Kg (per screen)
- Max. VESA: 600x400
- Free-tilting & Swiveling Design
- Sturdy and lightweight aluminum construction
- Level adjustment ensures perfect positioning
- Integrated cable management system
- Anti-Theft Locking Hole: for additional security preventing any unwanted removal

650373



NEW

45"-50" TRIPLE SCREEN CEILING MOUNT

- Support TV 45"-50"
- Max. Load Capacity: 50Kg (per screen)
- Max. VESA: 600x400
- Free-tilting & Swiveling Design
- Sturdy and lightweight aluminum construction
- Level adjustment ensures perfect positioning
- Integrated cable management system
- Anti-Theft Locking Hole: for additional security preventing any unwanted removal

650374



90° ROTATE SINGLE DISPLAY CART

- Material: Aluminum
- Suggested Screen size: 37"-70"
- Load Capacity: 50kg
- Max. VESA: 600x400
- Tilt Range: +5 ~ -12 degree
- Rotating: 0-90 degree
- Adjustable TV Height: YES

650602



ECONOMY MULTI-FUNCTIONAL TV CART

- Suggest Screen Size: 37"-70"
- Max. VESA: 600x400
- Rated Load(Screen): 50Kg/110lbs
- Tilt: +10 ~ -10 degree
- Adjustable TV height: Yes

650603



ULTRA-LARGE TELESCOPIC DISPLAY TV CART

- Height adjustment
- Free-tilting design for multiple monitor viewing angles
- Built-in Cable management
- Quick-release spring lock adjusts height effortlessly
- Quick assembly shelf assures easy post-intallation and height adjustable
- DVD/AV component shelf
- Wheels for mobility, lockable for safety
- Adjustable camera shelf/DVD shelf height for the desired position

650605



NEW

32"-55" UNIVERSAL TV CART

- Height adjustment
- Max. Load Capacity: 50Kg
- Max. VESA: 600x400
- Wheels for mobility, lockable for safety
- Free-tilting design for multiple monitor viewing angles
- Adjustable camera shelf/DVD shelf height for the desired position
- VESA standards compliant
- Telescopic height adjustment for optimum visibility
- Integrated cable management system

650607



NEW

2 X 2 VIDEO WALL MOBILE TROLLEY

- Support TV 45"-55"
- Max. Load Capacity: 50Kg (per screen)
- Max. VESA: 600x400
- Effortless micro-adjustments allow seamless display alignment
- Sturdy and lightweight aluminum construction
- Wheels for mobility, lockable for safety
- Integrated cable management system

650608



NEW

3 X 3 VIDEO WALL MOBILE TROLLEY

- Support TV 45"-50"
- Max. Load Capacity: 50Kg (per screen)
- Max. VESA: 600x400
- Effortless micro-adjustments allow seamless display alignment
- Sturdy and lightweight aluminum construction
- Wheels for mobility, lockable for safety
- Integrated cable management system

650609



OFFICE ERGONOMICS



13"-27" ARTICULATING MONITOR DESK MOUNT BRACKET

- Mounting Option: Clamp/Grommet
- Screen Rotation: 360°
- Max. VESA: 100x100
- Max. Load Capacity: 9Kg
- Sturdy and lightweight aluminum construction
- Gas spring structure offers perfect counterbalance presentation in all directions
- VESA standards compliant
- Tool-free height adjustment

13"-27" ARTICULATING DUAL MONITOR DESK MOUNT BRACKET

- Mounting Option: Clamp/Grommet
- Screen Rotation: 360°
- Max. VESA: 100x100
- Max. Load Capacity: 9Kg
- Sturdy and lightweight aluminum construction
- Gas spring structure offers perfect counterbalance presentation in all directions
- VESA standards compliant
- Tool-free height adjustment

13"-27" ARTICULATING DUAL MONITOR DESK MOUNT BRACKET

- Installation: Grommet and Clamp
- Max. Load Capacity: 8Kg
- Max. VESA: 100x100
- Screen Rotation: 360°
- Mounting Option: Clamp/Grommet
- Full motion mount
- Cable clips keep cables organized and protected
- Height adjustment
- VESA standards compliant

13"-27" LCD VESA DESK MOUNT, 3 SCREENS

- Mounting Option: Clamp/Grommet
- Max. Load Capacity: 8Kg
- Max. VESA: 100x100
- Screen Rotation: 360°
- Mounting Option: Clamp/Grommet
- Swivel and Tilt Desk Mount
- VESA standards compliant
- Cable clips keep cables organized and protected

650112

650113

650115

650116



13"-32" ARTICULATING MONITOR DESK MOUNT BRACKET

- Installation: Grommet and Clamp
- Max. VESA: 100x100
- Max. Load Capacity: 8Kg
- Screen Rotation: 360°
- Full motion mount
- Cable clips keep cables organized and protected
- VESA standards compliant
- Height adjustment

13"-32" ARTICULATING DUAL MONITOR DESK MOUNT BRACKET

- Installation: Grommet and Clamp
- Max. Load Capacity: 8Kg
- Max. VESA: 100x100
- Screen Rotation: 360°
- Full motion mount
- Cable clips keep cables organized and protected
- VESA standards compliant
- Height adjustment

13"-27" LCD VESA DESK MOUNT, 4 SCREENS

- Max. Load Capacity: 8Kg
- Max. VESA: 100x100
- Screen Rotation: 360°
- Mounting Option: Clamp/Grommet
- Swivel and Tilt Desk Mount
- VESA standards compliant
- Cable clips keep cables organized and protected
- Both grommet and desk clamp mounting available

13"-27" FREESTANDING LCD VESA DESK MOUNT, 2 SCREENS

- Max. Load Capacity: 8Kg
- Max. VESA: 100x100
- Screen Rotation: 360°
- VESA standards compliant
- Built-in Cable management
- Freely adjusting height for an optimal ergonomic position

650151

650152

650117

650118



13"-32" DOUBLE JOINT STEEL MONITOR ARM

- Max. Load Capacity: 8Kg
- Max. VESA: 100x100
- Screen Rotation: 360°
- Mounting Option: Clamp/Grommet
- VESA standards compliant
- Built-in Cable management

650119



13"-27" INTERACTIVE COUNTERBALANCE LCD VESA DESK MOUNT

- Max. Load Capacity: 6.5Kg
- Max. VESA: 100x100
- Screen Rotation: 360°
- Mounting Option: Clamp/Grommet
- Gas spring structure offers perfect counterbalance presentation in all directions
- Built-in Cable management
- VESA standards compliant

650120



32"-55" TV TABLETOP STAND

- Max. VESA: 600x400
- Max. Load Capacity: 40Kg (per screen)
- Height of the TV is adjustable with 5 set positions
- Solid, tempered-glass base allows secure application
- VESA standards compliant

650601



NEW

LAPTOP HOLDER FOR 10"-15.6"

- Mountable on VESA standards compliant 75x75 & 100x100
- Ventilated Design
- Width Adjustment
- Steel Construction with strength and durability

650155



13"-27" INTERACTIVE DUAL MONITOR DESK MOUNT BRACKET

- Max. Load Capacity: 6.5Kg
- Max. VESA: 100x100
- Screen Rotation: 360°
- Mounting Option: Clamp/Grommet
- Built-in Cable management
- VESA standards compliant

650121



13"-32" ARTICULATING MONITOR TABLETOP STAND

- Max. Load Capacity: 8Kg
- Max. VESA: 100x100
- Screen Rotation: 360°
- Built-in Cable management
- Freely adjusting height for an optimal ergonomic position
- VESA standards compliant

650122



NEW

CPU MOUNT BRACKET

- Steel Construction with strength and durability
- VESA Compatible: supports with standard VESA holes
- Increased storage room beneath the desktop
- 3-way installation: Clamped to the Pole / VESA Plate / Under Desktop
- Max. VESA: 100x100
- Max. Load Capacity: 5Kg

650890



NEW

17"-32" ECONOMY DUAL MONITOR TABLETOP STAND

- Max. Load Capacity: 8Kg
- Max. VESA: 100x100
- Screen Rotation: 360°
- Built-in Cable management
- VESA standards compliant
- Cable clips keep cables organized and protected
- Detachable VESA plate design, easy installation

650123

NEW



17"-27" TRIPLE MONITOR TABLETOP STAND

- Max. Load Capacity: 8Kg
- Max. VESA: 100x100
- Screen Rotation: 360°
- Built-in Cable management
- VESA standards compliant
- Cable clips keep cables organized and protected
- Detachable VESA plate design, easy installation

650125

NEW



DESKTOP MONITOR STAND

- Increased storage room beneath the desktop
- Non-skid Silicone Pads
- Raise your monitor to viewing comfort
- Max. Load Capacity: 20Kg

650880

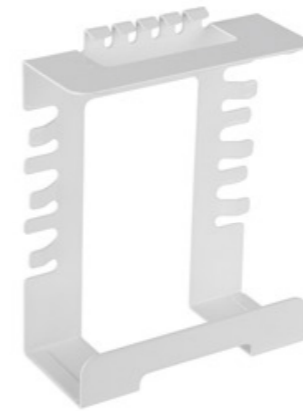


TABLE MOUNT POWER STRIP HOLDER

- Designed to work on an open desktop or shelf.
- Free up desk and floor space makes cleaning a breeze.
- Adhesive tape keeps both organizer & PowerStrip in place without damaging surfaces.
- Patterned grooves keep everything organized.
- Heavy-Duty steel construction protects the PowerStrip better.

650807



CABLE SPINE, BLACK

- Snap-together interlink blocks with 7" diameter steel base plate.
- Come with top hooking element to screw under top surface.

650808
650809

BLACK
WHITE



CLAMP-ON POWER STRIP HOLDER

- Clamps onto surfaces up to 2.0" (50mm) thick
- Adjustable width accommodates most PowerStrip from 1.6"– 2.4" (40-60mm)
- Silicone pads provide a firm grip on the PowerStrip
- EVA foam pads protect surfaces from scratches or scuffs
- Cable management keeps everything organized

650806

NEW



CPU UNDER DESK MOUNT BRACKET

- Steel Construction with strength and durability
- 360° Swivel
- Easy-Glide Sliding
- Under-Desk Installation to saves more space

650892



ERGO ELECTRIC SIT-STAND DESK FRAME, DUAL MOTOR

- Max. Load Capacity: 100Kg
- 3-Stage Dual Motors
- Easy-to-use press controller makes height adjustment easy
- Thermal and overload protected
- Strong lifting power with low noise level
- Adjustable width fits a variety of desktop shapes and sizes
- Built-in Cable management
- Desktop table is NOT included

650803 GREY

650804 WHITE

650805 BLACK





ERGO L SHAPED ELECTRIC SIT-STAND DESK FRAME, TRIPLE MOTOR

- 3-Leg Desk Frame: perfect for corner area
- Digital LED Memory Controller: For customizable settings
- Multiple Motors: offer heavier lifting ability and increased stability
- 3 Programmable Memory: presets save your desired height
- Sit/Stand Time Reminder: for regular movement
- Collision Avoidance System: safeguards against accidents and injuries
- Motor(s) is(are) Thermal and Overload Protected: for safety and longevity
- Switched Mode Power Supply: for energy and power efficiency
- Cable Management: keeps everything organized
- Adjustable Width: fits a variety of desktop shapes and sizes
- Three Stage Standard Column: offers more adjustability
- Desktop table is NOT included

650820 GREY

650821 WHITE



ERGO FACE TO FACE ELECTRIC SIT-STAND DESK FRAME

- Digital LED Memory Controller: For customizable settings
- Multiple Motors: offer heavier lifting ability and increased stability
- 3 Programmable Memory: presets save your desired height
- Sit/Stand Time Reminder: for regular movement
- Collision Avoidance System: safeguards against accidents and injuries
- Motor(s) is(are) Thermal and Overload Protected: for safety and longevity
- Switched Mode Power Supply: for energy and power efficiency
- Cable Management: keeps everything organized
- Adjustable Width: fits a variety of desktop shapes and sizes
- Three Stage Standard Column: offers more adjustability
- Desktop table is NOT included

650830 GREY

650831 WHITE



BETTER PRO

LC/LC OPTICAL FIBER PATCH CORD

- LC / LC connection
- Connector: ceramic-ferrule
- Cladding: low smoke and zero halogen
- Cable specification: I-VH 2 x 1E (singlemode) / I-VH 2 x 1G (multimode)
- Each cable packed with measure protocol
- REACH compliance



	OS2	OM3	OM4
core diameter	9/125µm	50/125µm	50/125µm
coating color	yellow	turquoise	violette
0.5m		255419	255519
1m	254431	255411	255511
2m	254432	255412	255512
3m	254433	255413	255513
5m	254435	255415	255515
7.5m			256515
10m	254436	255416	255516
15m	254437	255417	255517
20m	254438	255418	255518

LC/ST OPTICAL FIBER ADAPTER CABLE

- LC / ST connection
- Connector: ceramic-ferrule
- Cladding: low smoke and zero halogen
- Cable specification: I-VH 2 x 1E (singlemode) / I-VH 2 x 1G (multimode)
- Each cable packed with measure protocol
- REACH compliance



	OS2	OM3	OM4
core diameter	9/125µm	50/125µm	50/125µm
coating color	Yellow	turquoise	violette
0.5m		255219	255549
1m	254231	255211	255541
2m	254232	255212	255542
3m	254233	255213	255543
5m	254235	255215	255545
10m	254236	255216	255546
15m	254237	255217	255547
20m	254238	255218	255548

LC/SC OPTICAL FIBER ADAPTER CABLE

- LC / SC connection
- Connector: ceramic-ferrule
- Cladding: low smoke and zero halogen
- Cable specification: I-VH 2 x 1E (singlemode) / I-VH 2 x 1G (multimode)
- Each cable packed with measure protocol
- REACH compliance



	OS2	OM3	OM4
core diameter	9/125µm	50/125µm	50/125µm
coating color	yellow	turquoise	violette
0.5m		255319	255539
1m	254331	255311	255531
2m	254332	255312	255532
3m	254333	255313	255533
5m	254335	255315	255535
10m	254336	255316	255536
15m	254337	255317	255537
20m	254338	255318	255538

SC/SC OPTICAL FIBER PATCH CORD

- SC / SC connection
- Connector: ceramic-ferrule
- Cladding: low smoke and zero halogen
- Cable specification: I-VH 2 x 1E (singlemode) / I-VH 2 x 1G (multimode)
- Each cable packed with measure protocol
- REACH compliance



	OS2	OM1	OM3	OM4
core diameter	9/125µm	62.5/125µm	50/125µm	50/125µm
coating color	yellow	orange	turquoise	violette
0.5m			255329	255529
1m	253331	253321	255321	255521
2m	253332	253322	255322	255522
3m	253333	253323	255323	255523
5m	253335	253325	255325	255525
10m	253336	253320	255326	255526
15m	253337		255327	255527
20m	253338		255328	255528
30m			255333	

SC/ST OPTICAL FIBER ADAPTER CABLE

- SC / ST connection
- Connector: ceramic-ferrule
- Cladding: low smoke and zero halogen
- Cable specification: I-VH 2 x 1E (singlemode) / I-VH 2 x 1G (multimode)
- Each cable packed with measure protocol
- REACH compliance

	OS2
core diameter	9/125µm
coating color	yellow
1m	252331
2m	252332
3m	252333
5m	252335
10m	252336
15m	252337
20m	252338



ST/ST OPTICAL FIBER PATCH CORD

- ST / ST connection
- Connector: ceramic-ferrule
- Cladding: low smoke and zero halogen
- Cable specification: I-VH 2 x 1E (singlemode) / I-VH 2 x 1G (multimode)
- Each cable packed with measure protocol
- REACH compliance

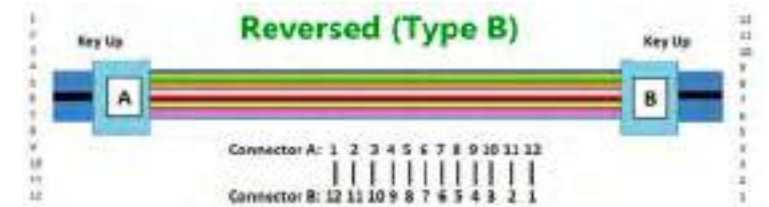
	OS2	OM3
core diameter	9/125µm	50/125µm
coating color	yellow	Aqua
1m	252231	25224107
2m	252232	25224207
3m	252233	25224307
5m	252235	25224507
10m	252236	25224607
15m	252237	25224707
20m	252238	25224807



MTP/MTP TRUNK FIBER PATCH CORD

- MTP/MTP trunk fiber connection
- 12 fiber MM black (PPS)
- Heat shrink tubing length: 5.0cm
- Fiber overcut (MTP): 1.0~ 3.0µm
- Compliance with RoHS, REACH
- Type B connection

	OM4
core diameter	50/125µm
coating color	Violette
3m	25555307
5m	25555507
7m	25555407
10m	25555607
15m	25555707
20m	25555807



MTP/LC TRUNK FIBER PATCH CORD

- MTP/LC trunk fiber connection
- 12 fiber MM black (PPS)
- Heat shrink tubing length: 5.0cm
- Fiber overcut (MTP): 1.0~ 3.0µm
- Compliance with RoHS, REACH

	OM4
core diameter	50/125µm
coating color	Violette
3m	25556307
5m	25556507
7m	25556407
10m	25556607
15m	25556707
20m	25556807



MTP/SC TRUNK FIBER PATCH CORD

- MTP/SC trunk fiber connection
- 12 fiber MM black (PPS)
- Heat shrink tubing length: 5.0cm
- Fiber overcut (MTP): 1.0~3.0mμ
- Compliance with RoHS, REACH

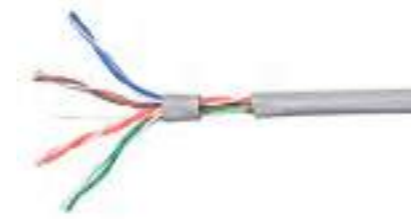
	OM4
core diameter	50/125mμ
coating color	Aqua
3m	25557307
5m	25557507
7m	25557407
10m	25557607
15m	25557707
20m	25557807



LC / PC PIGTAILS OPTICAL FIBER CABLE

- Single Mode-Duplex
- Multi Mode-Duplex
- Connector: Ceramic Ferrule
- Low Smoke Zero Halogen (LSZH/LSOH)
- Selling Unit: 12pcs/Pack

	OS2	OM2	OM3	OM4
core diameter	9/125μm	62.5/125μm	50/125μm	50/125μm
coating color	xxxxx	xxxxx	xxxxx	xxxxx
0.5m	255601	255621	255631	255641
1m	255602	255622	255632	255642
2m	255603	255623	255633	255643

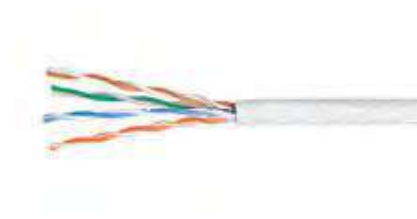


CAT.5e U/UTP BULK CABLE

- 24/1 AWG
- 100MHz
- Solid bare copper conductor
- Jacket: LSZH/LSOH
- Unshielded
- Color: beige
- RoHS compliant
- CPR Certified, Class Eca

305m

401413

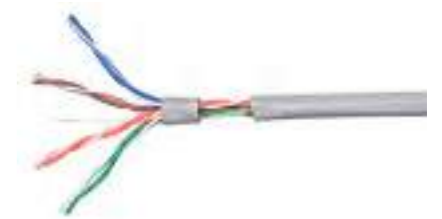


CAT.5e U/UTP BULK CABLE

- 24/1 AWG
- 100MHz
- Solid bare copper conductor
- Jacket: PVC
- Unshielded
- RoHS compliant
- Color: beige

305m

401456



CAT.5e U/UTP BULK CABLE

- 26/7 AWG
- 100MHz
- Stranded bare copper conductor
- Jacket: (LSZH/LSOH)
- Unshielded
- RoHS compliant
- Color: Beige

100m

40145507



CAT.5e F/UTP BULK CABLE

- 24/1AWG
- 100 MHz
- Solid bare copper conductor
- Single shielded
- Jacket: PVC
- Twisted pair copper cable
- RoHS Compliant
- Color: beige
- CPR Certified, Class Eca

100m
305m

403421
403429



CAT.5e U/UTP BULK CABLE

- 24/1 AWG
- 100 MHz
- Copper Clad Aluminum (CCA) conductor
- Jacket: (LSZH/LSOH)
- Unshielded
- RoHS compliant
- CPR Certified, Class Eca

100m
305m

401458
40145407



CAT.5e SF/UTP BULK CABLE

- 26/7 AWG
- 100MHz
- Jacket: (LSZH/LSOH)
- Stranded bare copper conductor
- RoHS Compliant
- CPR Certified, Class Eca

100m

40243307



CAT.5e SF/UTP BULK CABLE

- 24/1AWG
- 100MHz
- Solid bare copper conductor
- Jacket: (LSZH/LSOH)
- RoHS Compliant
- CPR Certified, Class Eca

100m 40242407



CAT.5e SF/UTP BULK CABLE

- 24/1 AWG
- 100MHz
- Solid bare copper conductor
- Jacket: PVC
- RoHS Compliant
- CPR Certified, Class Eca

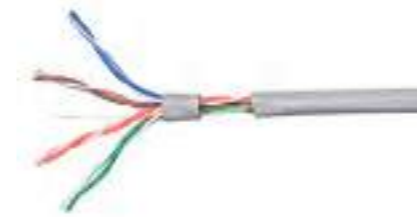
100m 402423



CAT5e U/UTP OUTDOOR BULK CABLE

- 24/1 AWG
- Jacket: PE
- 100MHz
- Twisted 4-Pair
- Solid bare copper conductor
- Unshielded
- RoHS Compliant
- Color:black

305m 40441007



CAT.6 U/UTP BULK CABLE

- 23/1 AWG
- 250 MHz
- Solid (CCA) Conductor
- Jacket: (LSZH/LSOH)
- RoHS Compliant
- CPR Certified, Class Eca
- Jacket: (LSZH/LSOH)

100m 404521
305m 40146807



CAT.6 U/UTP OUTDOOR BULK CABLE

- 23/1 AWG
- 250MHz
- Twisted 4-Pair
- Jacket : PE
- Solid bare copper conductor
- RoHS Compliant
- Unshielded
- TIA/EIA certified
- Color: black

305m 40451007



CAT.6 SF/UTP BULK CABLE

- 23/1 AWG
- 250 MHz
- Solid bare copper conductor
- Jacket: (LSZH/LSOH)
- Double shielded
- Twisted pair copper cable
- RoHS Compliant
- Color: beige
- CPR Certified, Class Eca

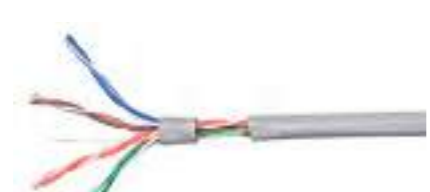
305m 401483



CAT.6 U/UTP BULK CABLE

- 24/7 AWG
- 250 MHz
- Stranded bare copper conductor
- Jacket: PVC
- Twisted pair copper cable
- RoHS compliant
- Color: beige

100m 100461
305m 100463



CAT.6 U/UTP BULK CABLE

- 23/1 AWG
- 250 MHz
- Solid bare copper conductor
- Twisted pair copper cable
- RoHS compliant
- Color: beige
- Jacket: PVC
- CPR Certified, Class Eca

100m 401461
305m 401463



CAT.6 U/UTP BULK CABLE

- 23/1 AWG
- 250 MHz
- Solid bare copper conductor
- Twisted pair copper cable
- Color: beige
- Jacket: LSZH
- RoHS compliant
- CPR Certified, Class Eca

100m 404531
305m 404532



CAT.6 S/FTP BULK CABLE

- 23/1 AWG
- 250MHz
- Solid bare copper conductor
- Jacket: (LSZH/LSOH)
- RoHS compliant• Color: Beige
- CPR Certified, Class Eca

100m 40148507
305m 401486



CAT.6A U/UTP BULK CABLE

- 23/1 AWG
- 500 MHz
- Solid bare copper conductor
- Twisted pair copper cable
- Jacket: LSZH
- Color:beige
- RoHS compliant
- CPR Certified, Class Eca

305m 401496



CAT.6A S/FTP BULK CABLE

- 23/1 AWG
- 500 MHz
- Solid bare copper conductor
- Double shielded
- PIMF (pairs in metal foil)
- Twisted pair copper cable
- RoHS compliant
- Color: beige
- CPR Certified, Class Eca

100m 401491
305m 401493



CAT.7 S/FTP SIMPLEX BULK CABLE

- AWG 23/1, 0.56mm
- Simplex
- Solid bare copper conductor
- 1000MHz
- Low Smoke Zero Halogen (LSZH/LSOH)
- EN60332-3C
- Foil and braid shield reduces EMI/RFI interference
- Color: Orange
- CPR Certified, Class Eca

100m 187321
200m 187323



CAT.7 S/FTP DUPLEX BULK CABLE

- AWG 23/1, 0.56mm
- Duplex
- Solid bare copper conductor
- 1000MHz
- Low Smoke Zero Halogen (LSZH/LSOH)
- EN60332-3C
- Foil and braid shield reduces EMI/RFI interference
- Color: Orange
- CPR Certified, Class Eca

500m 187331
1000m 187332



TELEPHONE BULK CABLE

- 28 AWG stranded conductor
- 4 wires, flat-satin
- Color: black

100m 117006

CAT.5e U/UTP PATCH CABLE

- Stranded 26AWG with 100MHz performance
- Gold plated contacts for best connection
- Molded assemblies with great strain relief properties
- PVC jacket for flexibility and durability
- ISO/IEC 11801, EN50288 and TIA/EIA 568-C.2



	Beige	Red	Blue	Green	Black	Yellow
0.25m	825413	825423	825433	825443	825453	825463
0.5m	825417	825427	825437	825447	825457	825467
1.0m	825410	825420	825430	825440	825450	825460
2.0m	825411	825421	825431	825441	825451	825461
3.0m	825412	825422	825432	825442	825452	825462
5.0m	825414	825424	825434	825444	825454	825464
7.5m	825415	825425	825435	825445	825455	825465
10m	825416	825426	825436	825446	825456	825466
15m	825418	825428	825438	825448	825458	825468
20m	825419	825429	825439	825449	825459	825469
30m	825480					

CAT.5e F/UTP PATCH CABLE

- Stranded 26AWG with 100MHz performance
- Foil-shielded to reduce EMI interference
- Gold plated contacts for best connection
- Molded assemblies with great strain relief properties
- PVC jacket for flexibility and durability
- ISO/IEC 11801, EN50288 and TIA/EIA 568-C.2



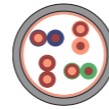
	Beige	Red	Blue	Green	Black	Yellow	Black Crossover
0.25m	225413						
0.5m	225417	225427	225437	225447	225457	225467	225917
1.0m	225410	225420	225430	225440	225450	225460	
2.0m	225411	225421	225431	225441	225451	225461	
3.0m	225412	225422	225432	225442	225452	225462	
5.0m	225414	225424	225434	225444	225454	225464	
7.5m	225415	225425	225435	225445	225455	225465	
10m	225416	225426	225436	225446	225456	225466	
20m	225419						

CAT.5e SF/UTP PATCH CORD

- Stranded 26AWG with 100MHz performance
- Foil-shielded with branding to reduce signal cross talk
- Gold plated contacts for best connection
- Molded assemblies with great strain relief properties
- PVC jacket for flexibility and durability
- Copper (CU) wire
- SO/IEC 11801, EN50288 and TIA/EIA 568-C.2



	beige	red	blue	green	yellow	Black Crossover
0.25m	705413	705429	705439	705449	705469	
0.5m	705417	705427	705437	705447	705467	
1m	705410	705420	705430	705440	705460	705910
2m	705411	705421	705431	705441	705461	705911
3m	705412	705422	705432	705442	705462	705912
5m	705414	705424	705434	705444	705464	705914
7.5m	705415	705425	705435	705445	705465	
10m	705416	705426	705436	705446	705466	705916
15m	705418	705428	705438	705448	705468	
20m	705419	705423	705433	705443	705463	
30m	705830				705860	
40m	705840					
50m	705850					



CAT.6 S/FTP PATCH CORD

- Stranded 28AWG with 250MHz performance
- Foil-shielded with branding to reduce signal cross talk
- Pair in metal foil (PIMF) to further enhance EMI interference
- 50 microns gold plated contacts for best connection
- Molded assemblies with great strain relief properties
- Low Smoke Zero Halogen (LSZH) jacket
- Copper (CU) wire
- ISO/IEC 11801, EN50288 and TIA/EIA 568-C.2



	white	red	blue	green	yellow	grey	orange	black	pink	purple
0.25m	605513	605523	605533	605543	605563	605503	605573	605593	605583	605553
0.5m	605517	605527	605537	605547	605567	605507	605577	605597	605587	605557
1m	605510	605520	605630	605640	605560	605500	605570	605590	605580	605555
2m	605511	605521	605531	605541	605561	605501	605571	605591	605581	605551
3m	605512	605522	605532	605542	605562	605502	605572	605592	605582	605552
5m	605514	605524	605534	605544	605564	605504	605574	605594	605584	605554
7.5m	605515	605525	605535	605545	605565	605505	605575	605595	605585	615555
10m	605516	605526	605536	605546	605566	605506	605576	605596	605586	605556
15m	605518	605528	605538	605548	605568	605508	605578	605598	605588	605558
20m	605519	605529	605539	605549	605569	605509	605579	605599	605589	605559
30m	605530									
40m	605540									
50m	605550					605603				

CAT.6 U/UTP PATCH CABLE

- Stranded 26AWG
- 250MHz performance
- Gold plated contacts for best connection
- Molded assemblies with great strain relief properties
- PVC jacket for flexibility and durability
- SO/IEC 11801, EN50288 and TIA/EIA 568-C.2



	Beige	Red	Blue	Green	Black	Yellow
0.25m	625413	625423	625433	625443	625453	625463
0.5m	625417	625427	625437	625447	625457	625467
1.0m	625410	625420	625430	625440	625450	625460
2.0m	625411	625421	625431	625441	625451	625461
3.0m	625412	625422	625432	625442	625452	625462
5.0m	625414	625424	625434	625444	625454	625464
7.5m	625415	625425	625435	625445	625455	625465
10m	625416	625426	625436	625446	625456	625466
15m	625418	625428	625438	625448	625458	625468
20m	625419	625429	625439	625449	625459	625469

CAT.6A U/UTP PATCH CABLE

- Stranded 26AWG
- 500MHz performance
- Copper (CU) wire
- Gold Plated Connectors for high signal quality
- Unshielded
- Low Smoke Zero Halogen (LSZH/LSOH)
- ISO/IEC 11801, EN50288 and TIA/EIA 568-C.2



	white
0.5m	603001
1m	603002
2m	603003
3m	603004
5m	603005
7.5m	603006
10m	603007
15m	603008
20m	603009

CAT.6A S/FTP PATCH CABLE

- Stranded 26AWG with 500MHz performance
- Foil-shielded with branding to reduce signal cross talk
- Pair in metal foil (PIMF) to further enhance EMI interference
- 50 microns gold plated contacts for best connection
- Molded assemblies with great strain relief properties
- Low Smoke Zero Halogen (LSZH) jacket
- Copper (CU) wire
- ISO/IEC 11801, EN50288 and TIA/EIA 568-C.2



	white	red	blue	green	yellow	orange	black
0.25m	606001	606501	606201	606401	606301	606601	606101
0.5m	606002	606502	606202	606402	606302	606602	606102
1m	606003	606503	606203	606403	606303	606603	606103
2m	606004	606504	606204	606404	606304	606604	606104
3m	606005	606505	606205	606405	606305	606605	606105
5m	606006	606506	606206	606406	606306	606606	606106
7.5m	606007	606507	606207	606407	606307	606607	606107
10m	606008	606508	606208	606408	606308	606608	606108
15m	606009	606509	606209	606409	606309	606609	606109
20m	606010	606510	606210	606410	606310	606610	606110
30m	606011	606511	606211	606411	606311	606611	606111



CAT.6A PLATINUM S/FTP PATCH CORD

- Stranded 26AWG with 500MHz performance
- Foil-shielded with branding to reduce signal cross talk
- Pair in metal foil (PIMF) to further enhance EMI interference
- 50 microns gold plated contacts for best connection
- Molded assemblies with great strain relief properties
- Low Smoke Zero Halogen (LSZH) jacket
- Copper (CU) wire
- UL listed, 3P certified
- ISO/IEC 11801, EN50288 and TIA/EIA 568-C.2



	white	red	blue	green	yellow	grey	orange	black	purple
0.5m	605617	605627	605637	605647	605667	605607	605677	605697	605657
1m	605610	605620	605830	605840	605660	605600	605670	605690	605650
2m	605611	605621	605631	605641	605661	605601	605671	605691	605651
3m	605612	605622	605632	605642	605662	605602	605672	605692	605652
5m	605614	605624	605634	605644	605664	605604	605674	605694	605654
10m	605616	605626	605636	605646	605666	605606	605676	605696	605656
15m	605618	605628	605638	605648	605668	605608	605678	605698	605658
20m	605619	605629	605639	605649	605669	605609	605679	605699	605659



CAT.6A S/FTP SLIM PATCH CABLE

- Stranded 32AWG with 500MHz performance
- Foil-shielded to reduce signal cross talk
- Pair in metal foil (PIMF) to further enhance EMI interference
- Molded assemblies with great strain relief properties
- LowSmokeZeroHalogen(LSZH)jacket
- Copper(CU)wire
- ISO/IEC11801,EN50288andTIA/EIA568-C.2



	Beige	Black	Blue	Red
0.25m	606112	606122	606132	606142
0.5m	606113	606123	606133	606143
1m	606114	606124	606134	606144
2m	606115	606125	606135	606145
3m	606116	606126	606136	605146
5m	606117	606127	606137	606147
7.5m	606118	606128	606138	606148
10m	606119	606129	606139	606149
15m	606120	606130	606140	606150
20m	606121	606131	606141	606151



CAT.6A S/FTP FLAT PATCH CORD

- Stranded 32AWG patch cord with 500MHz performance
- Ultra slim with 1.9mm thinness only
- Pair in metal foil (PIMF) to reduce signal cross talk
- 50 microns gold plated contacts for best connection
- Molded assemblies with great strain relief properties
- PVC jacket for flexibility and durability
- ISO/IEC 11801, EN50288 and TIA/EIA 568-C.2
- Copper (CU) wire

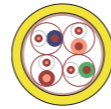


	White	Red	Green	Yellow
0.5m	607817	607827	607847	607867
1m	607810	607820	607840	607860
2m	607811	607821	607841	607861
3m	607812	607822	607842	607862
5m	607814	607824	607844	607864
10m	607816	607826	607846	607866



CAT.6A PRO S/FTP PATCH CABLE WITH CAT.7 RAW CABLE

- Stranded 26AWG with 600MHz performance
- Strain relief prevents the cable from being bent at sharp angles and to minimize the stress at the plug termination point
- Pair in metal foil (PIMF) to further enhance EMI interference
- Low Smoke Zero Halogen (LSZH) cables
- Copper (CU) wire, oxygen-free
- Gold Flash Contact
- Molded boot
- High performance and easy installation



	white
0.5m	605717
1m	605710
2m	605711
3m	605712
5m	605714
7.5m	605715
10m	605716
15m	605718
20m	605719



CAT.3 ISDN PATCH PANEL

- Telephone distribution panel
- Unshielded
- Dual IDC (LSA and 110) compatible
- 19" 1U

color: light grey (RAL 7035)		
25-port	125296	
50-port	125297	
color: black		
25-port	125298	
50-port	125295	



CAT.5E PATCH PANEL - SHIELDED

- 45° dual IDC (LSA and 110) compatible
- Sheet steel housing with cable entry
- Fully shielded
- 19" 1U

color: light grey (RAL 7035)		
16-port	327316	
24-port	327324	
color: black		
24-port	327425	



CAT.5E PATCH PANEL - UNSHIELDED

- 45° dual IDC (LSA and 110) compatible
- Numbered RJ45 Ports, label fields
- Color coded LSA terminals clamps according to EIA/TIA 568A/B
- 19" 1U

color: black		
16-port	235316	
24-port	235325	



CAT.5E 12-PORT PATCH PANEL

- 45° dual IDC (LSA and 110) compatible
- Fast and easy installation
- Compact design
- 10" 1U

color: light grey (RAL 7035)		
Shielded	208012	
Unshielded	208015	



CAT.5E DESKTOP PATCH PANEL

- 45° dual IDC (LSA and 110) compatible
- Suitable for desktop or wall mounting
- Metal chassis with cable feed

color: light grey (RAL 7035)		
8-port	227308	



CAT.6 KEYSTONE PATCH PANEL - SHIELDED

- Snap-in mounting
- Incl. support bar
- Suitable for shielded keystone jack: 767210, 767211
- Without jacks
- 19" 1U

color: light grey (RAL 7035)		
24-port	767124	
color: black		
24-port	769124	



CAT.6 KEYSTONE PATCH PANEL - UNSHIELDED

- Snap-in mounting
- Incl. support bar
- Suitable for unshielded keystone jack: 769210, 769211
- Without jacks
- 19" 1U

color: black
24-port 769224



CAT.6 KEYSTONE PATCH PANEL - SHIELDED

- Snap-in mounting
- Incl. support bar
- Incl. earthing cable green/yellow
- Incl. cable ties
- Suitable for shielded keystone jack: 767210, 767211
- Without jacks
- 19" 2U

color: black
48-port 769349



CAT.6 KEYSTONE PATCH PANEL - UNSHIELDED

- Snap-in mounting
- Incl. support bar
- Suitable for unshielded keystone jack: 769210, 769211
- Without jacks
- 19" 2U

color: black
48-port 769249



CAT.6 (CLASS E) PATCH PANEL - SHIELDED

- Class E according to ISO/IEC 11801 and EN50173
- 45° dual IDC (LSA and 110) compatible
- Fast and easy installation
- Shielded components
- Compact design
- 10" 1U

color: light grey (RAL 7035)
12-port 208014



CAT.6 (CLASS E) DESKTOP PATCH PANEL

- Class E according to ISO/IEC 11801 and EN50173
- 45° dual IDC (LSA and 110) compatible
- Suitable for desktop or wall mounting
- Metal chassis with cable feed

color: light grey (RAL 7035)
8-port 227369
12-port 227362



48-PORT KEYSTONE CAT.6 UNSHIELDED PATCH PANEL

- Snap-in mounting
- Incl. support bar
- Incl. cable ties
- Suitable for unshielded keystone jack: 769212
- Without jacks
- 19" 1U

color: black
48-port 769248



CAT.6 (CLASS E) PATCH PANEL - SHIELDED

- Class E according to ISO/IEC 11801 and EN50173
- 45° dual IDC (LSA and 110) compatible
- Sheet steel housing with cable entry
- Fully shielded
- 19" 1U

color: light grey (RAL 7035)
48-port 326349
color: black
48-port 326449



CAT.6 (CLASS E) PATCH PANEL - SHIELDED

- Class E according to ISO/IEC 11801 and EN50173
- 45° dual IDC (LSA and 110) compatible
- 19" 1U

color: light grey (RAL 7035)
16-Port 326316
24-Port 326325
color: black
16-Port 326416
24-Port 326425



CAT.6 (CLASS E) PATCH PANEL - UNSHIELDED

- Class E according to ISO/IEC 11801 and EN50173
- 45° dual IDC (LSA and 110) compatible
- Sheet steel housing with cable entry
- 19" 1U

color: black
24-port 135425



CAT.6A KEYSTONE PATCH PANEL - SHIELDED

- Snap-in mounting
- Incl. support bar
- Incl. earthing cable green/yellow
- Incl. cable ties
- Suitable for shielded keystone jack: 767221
- Without jacks
- 19" 1U

color: black
24-port 769324



CAT.6A KEYSTONE PATCH PANEL - UNSHIELDED

- Snap-in mounting
- Incl. support bar
- Suitable for unshielded keystone jack: 769221
- Without jacks
- 19" 1U

color: black
24-port 769225



CAT.6A (CLASS EA) PATCH PANEL - SHIELDED

- Fully shielded RJ45 Port with dust cover
- Class EA according to ISO/IEC 11801 with better NEXT than TIA/EIA standard
- 45° dual IDC (LSA and 110) compatible
- 19" 1U

color: light grey (RAL 7035)
326524
color: black
326624



BLANK PANEL

- Metal
- 19"

color: light grey (RAL 7035)
1U
2U

327504
327523

color: black
1U
2U

327503
327512



CABLE MANAGEMENT PANEL

- Metal
- With 5 plastic cable holders
- 19" 1U

color: light grey (RAL 7035)
327312

color: black
327311



BRUSH PANEL

- Metal
- Incl. support bar
- 19" 1U

color: light grey (RAL 7035)
327412
327414

color: black
327411
327413



SURFACE MOUNT BACK BOX FOR MODULAR FACEPLATE

- Material: ABS, 94-V0
- Selling unit: 5 pcs/pack

For modular faceplate
 color: pearl white (RAL 1013)
125560

color: pure white (RAL 9010)
125561

For keystone system
 color: pearl white (RAL 1013)
760302

For modular faceplate
 color: pure white (RAL 9010)
761302



CAT.6A (CLASS EA) GERMAN MODULAR FACEPLATE

- 2-port 45°/angled jack with dust cover
- Class EA according to ISO/IEC 11801 and EN50173
- LSA terminals
- Horizontal cable feed
- Fully shielded
- Selling unit: 5pcs/box

color: pearl white (RAL 1013)
125775

color: pure white (RAL 9010)
125772



CAT.6 (CLASS E) GERMAN MODULAR FACEPLATE

- 2-port 45°/angled jack
- Class E according to ISO/IEC 11801 and EN50173
- LSA terminals
- Horizontal cable feed
- Fully shielded
- Selling unit: 5pcs/box

color: pearl white (RAL 1013)
125765

color: pure white (RAL 9010)
125762



CAT.5E GERMAN MODULAR FACEPLATE

- 2-port 45°/angled jack
- LSA terminals
- Horizontal cable feed
- Fully shielded
- Selling unit: 5pcs/box

color: pearl white (RAL 1013)
125722

color: pure white (RAL 9010)
125725



GERMAN FACEPLATE - KEYSTONE SYSTEM

- German surface faceplate for surface mounting box
- 80 x 80mm for two keystone jacks
- Incl. modular insert and frame

color: pearl white (RAL 1013)
760303

color: pure white (RAL 9010)
761303



UNIVERSAL FACEPLATE - KEYSTONE SYSTEM

- Universal surface faceplate for surface mounting box
- 80 x 80mm for two keystone jacks
- Incl. 45° modular insert and frame
- Selling unit: 5pcs/box

color: pearl white (RAL 1013)
760301

color: pure white (RAL 9010)
761301



FRENCH MODULAR FACEPLATE - WINDOW

- 80.5 x 80.5mm
- 45 x 45mm window
- Color: pure white (RAL 9010)

125461



FRENCH MODULAR FACEPLATE - INSERT

- Fits 1 x keystone jack
- With dust cover
- Color: pure white (RAL 9010)

45 x 45mm
45 x 22.5mm

125471
125474



FRENCH MODULAR FACEPLATE - ANGLED INSERT

- 45 x 45mm
- With dust cover
- Color: pure white (RAL 9010)

1-port
2-port

761311
761312

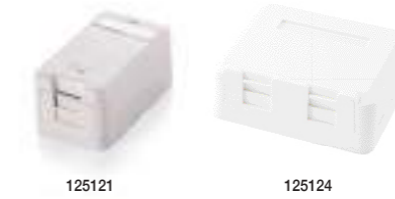


CAT.5E SURFACE MOUNT BOX

- Unshielded
- According to EIA/TIA 568A/B
- IDC/LSA terminals
- Color: pure white (RAL 9010)

1-Port
2-Port

235113
235112



KEYSTONE JACK SURFACE MOUNT BOX

- Unshielded
- Color: pure white (RAL 9010)
- With dust cover

1-Port
2-Port
2-Port

125121
125122
125124



12-PORT KEYSTONE JACK SURFACE MOUNT BOX

- Modular construction
- Plastic housing with up to 12 x keystone jack
- Without jacks
- Size: 170 x 112 x 38mm
- Color: white

125460



CAT.6 (CLASS E) GERMAN MODULAR OUTLET SET

- 2-port 45°/angled jack
- Class E according to ISO/IEC 11801 and EN50173
- LSA terminals
- Horizontal cable feed
- Fully shielded
- Incl. back box
- Retail packing

color: pearl white (RAL 1013)
125763

color: pure white (RAL 9010)
125761



CAT.5E GERMAN MODULAR OUTLET SET

- 2-port 45°/angled jack
- LSA terminals
- Horizontally cable feed
- Fully shielded
- Incl. back box
- Retail packing

color: pearl white (RAL 1013)
125723

color: pure white (RAL 9010)
125721

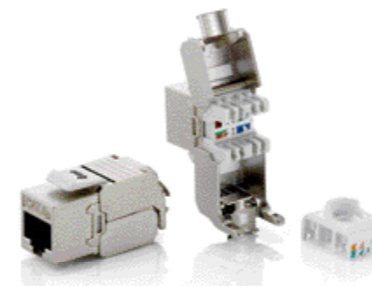


CAT.6 SURFACE MOUNT BOX

- Unshielded
- Class E according to ISO/IEC 11801 and EN50173
- According to EIA/TIA 568A/B
- IDC/LSA terminals
- Color: pure white (RAL 9010)

1-Port
2-Port

235211
235214



CAT.6A SHIELDED KEYSTONE JACK TOOLLESS

- Fully shielded, tool-free installation (also supports punch-down)
- 8P8C RJ45 Jack, 50u" Gold plated contacts
- IDC compatible with 110 and Krone tools
- Terminating 4-pairs, 22 ~ 26AWG
- Color-coded for T568A/B wiring schemes
- Works well with equip keystone patch panel 769324
- Works well with equip German/French/Universal Faceplates and Surface Mounted boxes
- Selling unit: 8pcs/pack

767221



CAT.6A UNSHIELDED KEYSTONE JACK TOOLFREE

- Cable Wire Gauge: 23AWG ~ 26AWG
- IDC T568A/T568B Color Coded
- Gold Flash Contact
- LSA Connector
- Class E according to ISO/IEC 11801 and EN50173
- Unshielded
- Selling unit: 8pcs/bag

769226



CAT.6 SHIELDED KEYSTONE JACK LSA

- Fully shielded
- LSA connector
- EIA/TIA 568 coded
- Snap-in mounting
- Suitable for keystone patch panel 767124, 769124, 769349
- Suitable for wall mounting outlet 760301, 761301, 760303, 761303
- Selling unit: 8pcs/bag

767210



CAT.6 UNSHIELDED KEYSTONE JACK LSA

- Unshielded
- LSA connector
- EIA/TIA 568 coded
- Snap-in mounting
- Suitable for keystone patch panel 769224, 769249
- Suitable for wall mounting outlet: 760301, 761301, 760303, 761303
- Selling unit: 8pcs/bag

769210



CAT.6 UNSHIELDED KEYSTONE JACK LSA, SLIM TYPE

- Unshielded
- LSA connector
- EIA/TIA 568 coded
- Snap-in mounting
- Suitable for keystone patch panel 769248
- Suitable for wall mounting outlet: 760304, 761304
- Selling unit: 8pcs/bag

769212



CAT.6 SHIELDED KEYSTONE JACK TOOLLESS

- Fully shielded
- Tool free connector
- EIA/TIA 568 coded
- Snap-in mounting
- Suitable for keystone patch panel 767124, 769124, 769349
- Suitable for wall mounting outlet 760301, 761301, 760303, 761303
- Selling unit: 8pcs/bag

767211



CAT.6 UNSHIELDED KEYSTONE JACK LSA, SLIM TYPE

- Gold Flash Contact
- Cable Wire Gauge: 23AWG ~ 26AWG
- LSA Connector
- IDC T568A/T568B Color Coded
- Class E according to ISO/IEC 11801 and EN50173
- Selling unit: 8pcs/bag

769213

COUPLER



NEW

CAT.6 SHIELDED KEYSTONE JACK TOOLLESS

- LSA Connector
- Shielded
- Gold Flash Contact
- Cable Wire Gauge: 23AWG ~ 26AWG
- IDC T568A/T568B Color Coded
- Class E according to ISO/IEC 11801 and EN50173
- Selling unit: 8pcs/bag

767213



CAT.6 UNSHIELDED KEYSTONE JACK TOOLLESS

- Unshielded
- Tool free connector
- EIA/TIA 568 coded
- Snap-in mounting
- Suitable for keystone patch panel 769224, 769249
- Suitable for wall mounting outlet 760301, 761301, 760303, 761303
- Selling unit: 8 pcs/bag

769211



NEW

CAT.6 UNSHIELDED KEYSTONE JACK TOOLLESS

- Unshielded
- Tool free connector
- EIA/TIA 568 coded
- Snap-in mounting
- Suitable for keystone patch panel 769224, 769249
- Suitable for wall mounting outlet 760301, 761301, 760303, 761303
- Selling unit: 8 pcs/bag

769216



ST FIBER OPTIC COUPLER

- Standard adapter for panels and outlets
- Suitable for multimode connection
- Phosphor bronze sleeve
- Snap-in or thread type
- Metal sleeve, metal housing
- Selling unit: 12pcs/Pack

Selling unit: 12pcs/set



SC ADAPTER/COUPLER

- Suitable for single-mode duplex connection
- Standard adapter for panels and outlets
- Ceramic sleeve
- Snap-in or thread type
- Built with dust-free cap
- Selling unit: 12pcs/bag

156101

singlemode, blue



SC ADAPTER/COUPLER

- Standard adapter for panels and outlets
- Suitable for multi-mode duplex connection
- Phosphor bronze sleeve
- Snap-in or thread type
- Built with dust-free cap
- Selling unit: 12pcs/bag

156131

OM3, turquoise

156143



SC FIBER OPTIC ADAPTER/ COUPLER

- Standard adapter for panels and outlets
- Suitable for multimode connection
- Phosphor bronze sleeve
- Snap-in or thread type
- Built with dust-free cap

OM1/OM2, beige
OM4, beige

156140
156146007



LC FIBER OPTIC ADAPTER/ COUPLER

- Standard adapter for panels and outlets
- Suitable for multimode connection
- Phosphor bronze sleeve
- Snap-in or thread type

156150
OM3
OM4

156151007
156152007



SC APC COUPLER

- Standard adapter for panels and outlets
- Suitable for singlemode connection
- Ceramic sleeve
- Snap-in or thread type
- Selling unit: 12pcs

156144



CAT.6 SHIELDED KEYSTONE INLINE COUPLER

- 2 x RJ45 jack
- Pin configuration 1:1
- Snap-in mounting
- Suitable for Cat.6 keystone patch panel 767124, 769124, 769349
- Suitable for wall mounting outlet 760301, 761301, 760303, 761303
- Selling unit: 8 pcs/bag

125589



CAT.6 UNSHIELDED KEYSTONE INLINE COUPLER

- 2 x RJ45 jack
- Pin configuration 1:1
- Snap-in mounting
- Suitable for Cat.6 keystone patch panel 769224, 769249
- Suitable for wall mounting outlet 760301, 761301, 760303, 761303
- Selling unit: 8 pcs/bag

125579



HDMI KEYSTONE COUPLER

- HDMI version 1.4
- Snap-in mounting
- Gold Flash Contact
- Selling unit: 8 pcs/Pack

769402



CAT.6A SHIELDED MODULAR INLINE COUPLER

- Fully shielded
- 2 x RJ45 jack
- Pin configuration: 1:1
- UL listed

221169



CAT.6A SHIELDED KEYSTONE INLINE COUPLER

- 2 x RJ45 jack
- Pin configuration 1:1
- Snap-in mounting
- Suitable for Cat.6A keystone patch panel 769324
- Suitable for wall mounting outlet 760301, 761301, 760303, 761303
- Selling unit: 8 pcs/bag

125596



CAT.6 SHIELDED MODULAR INLINE COUPLER

- Pin configuration: 1:1 Gold Flash Contact
- Shielded
- RJ45 Jack x 2
- UL listed

121169
121179



CAT.5E SHIELDED MODULAR INLINE COUPLER

- Fully shielded
- 2 x RJ45 jack
- Pin configuration: 1:1

221159



CAT.5E RJ45 INLINE COUPLER

- RJ-45 jack to RJ-45 jack
- Gold-plated contact
- Color: white

121252



RJ11/12/45 MODULAR PLUG

- For telephone and modem flat cable
- Unshielded
- Selling unit: 100pcs/bag



RJ45 MODULAR PLUG

- For round cable
- Unshielded
- 8P8C
- Selling unit: 100pcs/bag



RJ45 TOOL-LESS PLUG

- Phosphor bronze, nickel plated
- For use with 24-26AWG Stranded and Solid UTP wire
- Supports both T568A and T568B wiring styl
- Terminate patch cords without tool
- Selling unit: 2pcs/bag

4P4C
6P4C
6P6C
8P8C

121111
121121
121131
121151

Cat.5e with out boot
Cat.5e without boot
Cat.6 without boot

121145
121140
121144

Cat.5e with out boot
Cat.6 without boot

121163
121165



CAT.6 (CLASS E) SHIELDED JUNCTION BOX

- Class E according to ISO/IEC 11801 and EN50173
- Shielded
- Cat.6 FTP, SFTP installation cables can be extended or reconnected after damage with this module via LSA terminals
- Compatible with 110/Krone punch down tools

135621



CAT.5E SHIELDED JUNCTION BOX

- Shielded
- Cat.5e FTP, SFTP installation cables can be extended or reconnected after damage with this module via LSA terminals
- Compatible with 110/Krone punch down tools

135420



CAT.5E UNSHIELDED JUNCTION BOX

- Unshielded
- Cat.5e UTP installation cables can be extended or reconnected after damage with this module via LSA terminals
- Compatible with dual IDC (LSA and 110) punch down tools

135410

BOOT & ACCESSORIES



RJ45 PLUG SET

- For round cable
- Selling unit: 100 sets



LC CONNECTOR

- Polymer housing
- Suitable for multimode connection
- Beige boot
- Selling unit: 12pcs



SC CONNECTOR

- Polymer housing
- Zirconia ceramic ferrule
- Selling unit: 12pcs



CABLE BOOT

- Antikink boot for RJ45 plug
- Plastic
- Selling unit: 100pcs
- Color: black

151181



M6 CAGE NUT AND SCREW SET

- Set content: 1 x M6 screw, 1 x cage nut and 1 x washer
- Screw lenght: 16mm

922491 (4 sets per pack)

922492 (20 sets per pack)

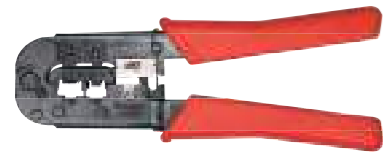
922493 (50 sets per pack)

unshielded
Cat.6 with boot, insert bar 121175

156021

multimode, beige 156020

shielded
Cat.6 with boot, insert bar 121181



UNIVERSAL CRIMPING TOOL

- Crimps modular connectors 6P/4C, 6P/6C, and 8P/8C
- With stripping and cutting function
- With round cable stripper

129403



PROFESSIONAL MODULAR CRIMPING TOOL

- Crimps 4P/2C, 4P/4C, 6P/4C, 6P/6C, 8P/8C, and DEC connectors
- With stripping and cutting function
- With stripping function for round cable
- With ratchet function

129404



UNIVERSAL STRIPPING TOOL

- For dismantling of UTP, STP, ISDN, telephone and data cables up to max. 9mm

129102



PROFESSIONAL TOOL BOX

- For UTP, STP and telephone cabling
- 1 x crimping tool professional, model no.129404
- 1 x fixing aid for keystone jacks, model no.760400
- 1 x LSA punch down tool
- 1 x universal stripping tool, model no.129102
- 1 x screw driver for crimping tool
- 20 x unshielded Cat.6 RJ45 plug
- 20 x antikink boot in black, model no. 151158

129504



CABLE TESTER

- Tests shielding, transmission, short circuit and wiring errors
- Extensive diagnostic display for pin-out and pair display for RJ45,RJ11/RJ12 cables
- Tests 2/4/6/8 pin patchcables (RJ11/12/45) as well as installed cables up to 1000ft
- LED indicators for power and TX/RX

129967



EQUIP LSA/IDC PUNCH DOWN TOOL

- Press in and punch down function
- Cut off function
- For IDC & LSA connector

129119



NETWORK / MODULAR / USB CABLES TESTER

- Master and remote unit
- Tests shielding, transmission, short circuit and wiring errors
- Extensive diagnostic display for pin-out and pair display for 10BaseT, 100BaseTX, 10Base2, USB
- Tests 4/6/8 pin patch cables (RJ11/12/45) as well as installed cables up to 100m

129964



NETWORK TOOL CASE

- 1 x punch down tool
- 1 x LAN cable tester
- 1 x cable stripper
- 1 x RJ45 crimping tool

129506
129503



19" 9-BAY POWER DISTRIBUTION UNIT

- 1U horizontal installation
- Power plug: Schuko CEE7/7 90° Angled
- 9-socket
- Power cord specification: 3 x 1.5 mm² x 1.8m
- 16A/250V, max. 3500W
- Plastic shell
- Color: black

German type (CEE 7/4) 333282



19" 8-BAY POWER DISTRIBUTION UNIT WITH SWITCH

- 1U horizontal installation
- Power plug: Schuko CEE7/7 90° Angled
- 8-socket
- With on/off switch
- Power cord specification: 3 x 1.5 mm² x 1.8m
- 16A/250V, max. 3500W
- Plastic shell
- Color: black

German type (CEE 7/4) 333283
French type (CEE 7/5) 333285



19" 9-BAY POWER DISTRIBUTION UNIT, ALUMINIUM SHELL

- 1U horizontal installation
- Power plug: Schuko CEE7/7 90° Angled
- 9-socket
- Power cord specification: 3 x 1.5 mm² x 1.8m
- 16A/250V, max. 3500W
- Aluminium shell
- Color: silver

German type (CEE 7/4) 333292



10" 3-BAY POWER DISTRIBUTION UNIT

- Power plug : Schuko CEE7/7 90° Angled
- 1U Horizontal installation
- 3 x DIN49440 Schuko
- Current rating: 16A
- Rating: 220-240V 50/60Hz / 16A
- Maximum power: 3500W
- Cable Length: 1.5m
- Material: Aluminum Shell

German type (CEE 7/4) 333299



POWER STRIP

- Power plug: IEC320 C14
- 3 x DIN49440 (Schuko)
- Rating: 220-240V 50/60Hz / 10A
- Cable Length: 1.1m
- Maximum power:2200W

3-Bay 333280



POWER STRIP

- Power plug: IEC320 C14
- 4 x DIN49440 (Schuko)
- Rating: 220-240V 50/60Hz / 10A
- Cable Length: 1.1m
- Maximum power:2200WColor: Black

4-Bay 333281



19" 8-BAY POWER DISTRIBUTION UNIT WITH SWITCH, ALUMINIUM SHELL

- 1U horizontal installation
- Power plug: Schuko CEE7/7 90° Angled
- 8-socket
- With on/off switch
- Power cord specification: 3 x 1.5 mm² x 1.8m
- 16A/250V, max. 3500W
- Aluminium shell
- Color: silver

German type (CEE 7/4) 333293



7-OUTLET GERMAN POWER DISTRIBUTION UNIT WITH SURGE PROTECTION AND SWITCH

- 7 x DIN49440 (German)
- Power plug: Schuko CEE7/7 90° Angled
- Surge Protection
- Cable Length: 1.8m
- 1U Horizontal installation
- Rating: 220-240V 50/60Hz
- Current rating: 16A
- Maximum power: 3500W
- Power ON/OFF switch
- Material: Aluminum

German type (CEE 7/4) 333309



19" POWER DISTRIBUTION UNIT WITH CABLE LOCK

- 1U horizontal installation
- IEC C14 plug
- 7 x IEC320 C13 sockets
- Power cord specification: 3 x 1.5 mm² x 1.8m
- 10A/250V, max. 3500W
- Aluminium shell
- Color: silver

IEC type (IEC 60320 C13) 333300



DESKTOP POP-UP POWER OUTLET

- Fit into 60mm hole on table
- 3 x German sockets
- 2 x USB Female
- Rating: 250VAC, 50/60Hz/16A
- Max. Power: 3500W
- Aluminum Shell
- Color: Silver

333304



8-WAYS GERMAN POWER DISTRIBUTION UNITS WITH USB

- 1U horizontal installation
- Power plug : Schuko CEE7/7 90° Angled
- 8 x DIN49440 (Schuko)
- 2 x USB Female
- Rating: 220-240V 50/60Hz, 16ACable Length: 1.8m
- Maximum power:3500W
- Surge Protection
- Aluminum Shell

333305



HIGH QUALITY POWER CORD

- 2 x IEC C13 Female
- 1 x IEC C14 Male
- Conductor: H05 VV F3G 0.75mm² / 1.0mm²
- Current load capacity: 250V/10A
- Length: 2.2m (0.6m/0.6m/1.0m)
- Reach compliant

112210



HIGH QUALITY POWER CORD

- 2 x IEC C13 Female
- 1 x Schuko (CEE 7/7)
- Conductor: H05 VV F3G 0.75mm² / 1.0mm²
- Current load capacity: 250V/10A
- Length: 2.6m (0.8m/0.8m/1.0m)
- Reach compliant

112220



HIGH QUALITY POWER CORD

- 1 x IEC C13 Female
- 1 x IEC C14 Male
- Current load capacity: 250V/10A
- Conductor: H05VV-F 3G 0.75mm²
- Cable Length: 1.8m
- Reach Compliant

112100



HIGH QUALITY POWER CORD

- 1 x IEC C13 Female
- 1 x Schuko (CEE 7/7)
- Conductor: H05VV-F 3G 0.75mm²
- Current load capacity: 250V/10A
- Cable Length: 1.8m
- Reach compliant

112120



HIGH QUALITY POWER CORD

- 1 x Schuko (CEE 7/7)
- 1 x IEC C5 Female
- Conductor: H05VV-F 3G 0.75mm²
- Current load capacity: 250V/2.5A
- Cable Length: 1.8m
- Reach compliant

112150



HIGH QUALITY POWER CORD

- 1 x Euro plug male (Type C, CEE 7/16)
- 1 x IEC 60320-C7 Female
- Conductor: H03VV H2-F 2x 0.75mm²
- Current load capacity: 250V/2.5A
- Cable Length: 1.8m
- Reach compliant

112160



TECHNICAL GLOSSARY

COPPER PATCH CORDS

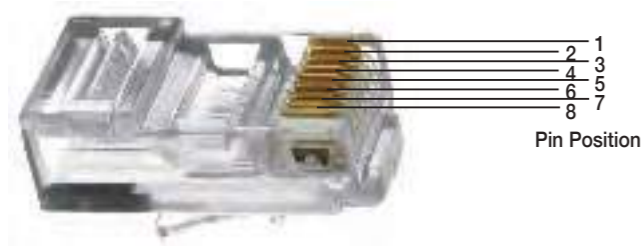
The copper patch cords are composed of four twisted pair of bare copper wires which conduct the electronic pulses smoothly. The eight wires of the patch cords are color-coded according to TIA/EIA 568A or TIA/EIA 568B standard. A cable with T568A at one end and T568B at the other is called a crossover cable, which is catering to connect two computing devices together directly without using a switch or a hub and also used to connect two hubs or two switches on their upstream ports.

TIA/EIA-568 T568A termination

Pin	Pair	Wire	Color
1	3	tip	white/green
2	3	ring	green
3	2	tip	white/orange
4	1	ring	blue
5	1	tip	white/blue
6	2	ring	orange
7	4	tip	white/brown
8	4	ring	brown

TIA/EIA-568 T568B termination

Pin	Pair	Wire	Color
1	2	tip	white/orange
2	2	ring	orange
3	3	tip	white/green
4	1	ring	blue
5	1	tip	white/blue
6	3	ring	green
7	4	tip	white/brown
8	4	ring	brown



CATEGORY AND CLASS

"Category" means something completely different than "Class". The category applies only on a single component e.g. a cable or an outlet, the component is verified by the labs of the manufacturer or independent verification labs. The class as such always applies to the installed link. The installed link is always tested according to classes.

The international standard ISO/IEC 11801 defines several classes of twisted-pair copper interconnects, which differ in the maximum frequency for which a certain channel performance is required:

Class D: up to 100 MHz using elements category 5e

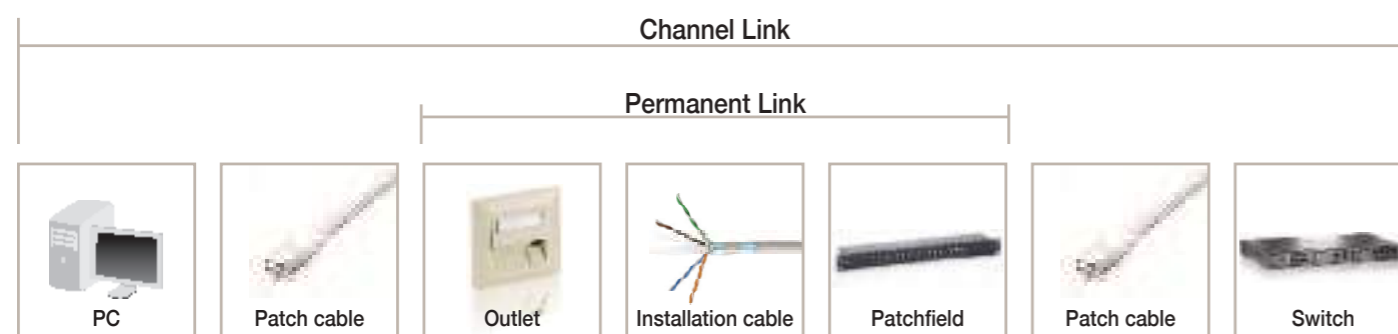
Class E: up to 250 MHz using elements category 6

Class EA: up to 500 MHz using elements category 6A

Class F: up to 600 MHz using elements category 7

Class FA: up to 1000 MHz using elements category 7A

The comparison of two different routes of cabling is drawn below:



COPPER PATCH CORDS

The Permanent Link covers the horizontal installation which includes the installation cable, patch panel, and the outlet or junction box at the other end. The Channel Link covers the patch cords as well as the components of permanent link. A set of measurements is defined in the ISO/IEC standard to unify the quality of structured cabling.

• Return Loss (RL)

The Return Loss is the measurement of the amount of signal that is reflected back toward the transmitter. The reflection of the signal is caused by the variations of impedance in the connectors and cable and is usually attributed to a poorly terminated wire. The greater the variation in impedance, the greater the return loss reading is.

• Attenuation-to-Crosstalk Ratio (ACR)

Attenuation-to-Crosstalk ratio (ACR) is the difference between the signal attenuation produced and NEXT. The ACR indicates how much stronger the attenuated signal is than the crosstalk at the destination (receiving) end of a communications circuit.

• Power Sum ACR (PSACR)

The difference from the ACR is PSACR used PSNEXT in the calculation rather than NEXT.

• Near-End Cross Talk (NEXT)

It is the difference in amplitude (in dB) between a transmitted signal and the crosstalk received on other cable pairs at the same end of the cabling. Higher NEXT values correspond to better cabling performance.

• Power Sum NEXT (PSNEXT)

Power Sum NEXT (PSNEXT) is the sum of NEXT values from 3 wire pairs as they affect the other wire pair.

• Far-End Crosstalk (ELFEXT)

FEXT is very similar to NEXT, but happens at the receiver side of the connection.

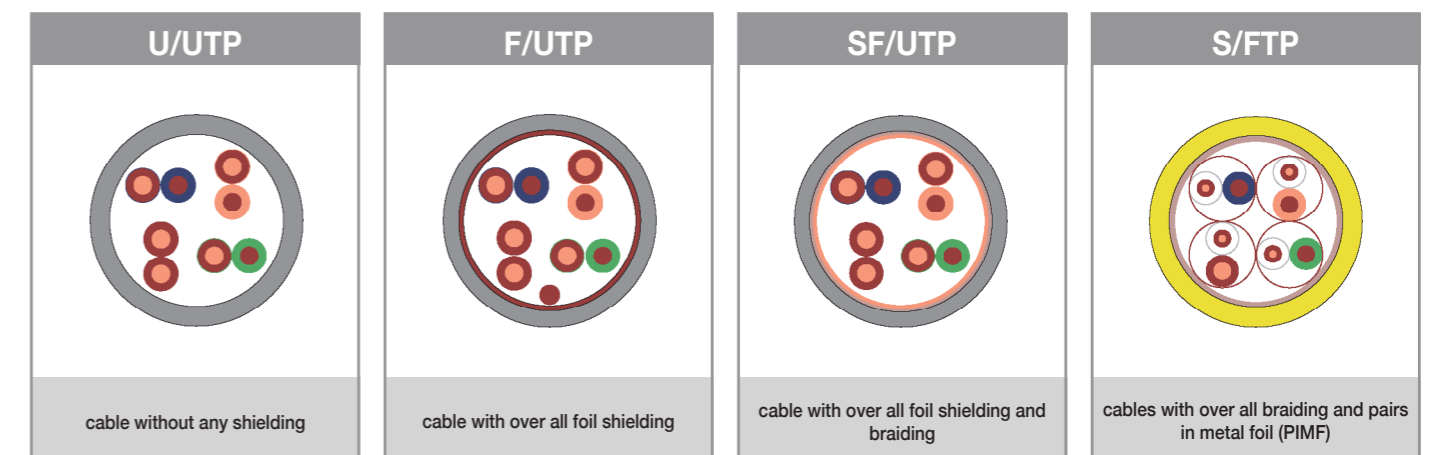
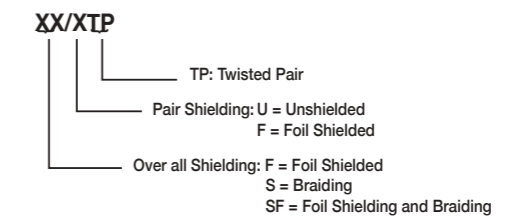
• Equal Level Far End Crosstalk (ELFEXT)

Equal Level Far End Crosstalk (ELFEXT) is a length-independent value for the transmission quality, which defines the ratio of the crosstalk output level to the actual output level. The second pair of wires strewn on the noise level is compared to the starting level.

• Power Sum ELFEXT (PSELFEXT)

Power Sum ELFEXT (PSELFEXT) is the sum of ELFEXT values from 3 wire pairs as they affect the other wire pair.

THE CONSTRUCTION OF CABLE



OPTICAL FIBER

An optical fiber system transmits the data using light pulses down the fiber lines instead of electronic pulses as the copper connections do. This means of communication is gradually replacing copper networking due to the relative low maintenance cost. The light travels through the fiber lines easily because of the principle known as the total internal reflection, which indicates that when the angle of incidence exceeds a critical value, light cannot get out of the glass; instead, the light bounces back in.

The way the ray disperses varies with the diameter of the glass fiber. In the thicker fiber line (50-100µm), the light is reflected in a zigzag pattern, and thus a higher attenuation occurs. The connection can be divided into two types based on the core of fiber line.

Single Mode Cable is constructed of a single strand of glass fiber with a diameter of 8.3 to 10µm. The smaller core eliminates the distortion of light wave and causes less attenuation. Therefore, it carries a higher bandwidth and sustains a longer distance (>1000m) than a multimode fiber cable does, but the cost is higher as well.

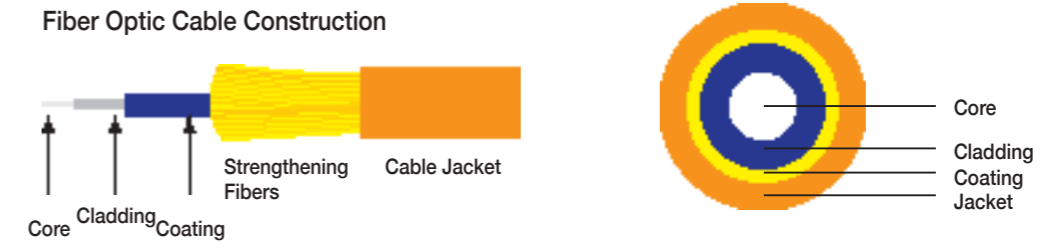


Multi Mode Cable has, on the other hand, a thicker core normally between 50 to 100µm. Typical core diameters of optical fiber patch cords are 50µm (OM2, OM3, OM4) and 62.5µm (OM1). The multi mode optical fibers feature attenuation is higher compared to the single mode cables but are able to offer a high bandwidth within a medium distance. As a result, the multi mode cables are more preferable in the deployments with a short range



	Multi Mode								Single Mode		
	OM1	OM2	OM3	OM4	OS1 / OS2						
Core Diameter (µm)	62.5	50	50	50	9						
Cladding Diameter (µm)	125	125	125	125	125						
Wavelength (nm)	850	1310	850	1310	850	1310	850	1310	1310	1550	
Max. Attenuation (dB/km)	2.9	0.7	2.4	0.7	2.5	0.7	2.4	0.6	0.34	0.19	
Max. Transmission	1Gbps	300m	500m	500m	500m	1000m	500m	1000m	500m	10km	50km
	10Gbps	30m	220m	80m	220m	300m	220m	500m	220m	10km	40km

CONSTRUCTION OF OPTICAL FIBER CABLE



TYPES OF OPTICAL FIBER CABLES

There are types of cables used in different application. Please contact us for those not listed in this catalog.



• Pigtails

Normally applied to the connection between outdoor cables and indoor splicing boxes, the pigtail is constructed with a Simplex fiber core of 900µm buffered with one assembled connector to an open end.



• Patch Cords

The patch cords are assembled with a connector at each end, ready for direct snap-in.



• Breakout Cables

Two simplex cables covered in one sheath, suitable for indoor installation with duct and conduit.



• Outdoor Cables

Covered by UV-resistant, rodent resistant, and waterproof material, the cable is suitable for underground deployment. Connector Type of Optical Fiber Patch Cords

The most commonly used connectors are LC, SC, and ST, especially the LC connector due to its compact size. The other types of connectors, however, are utilized in different scenarios.



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