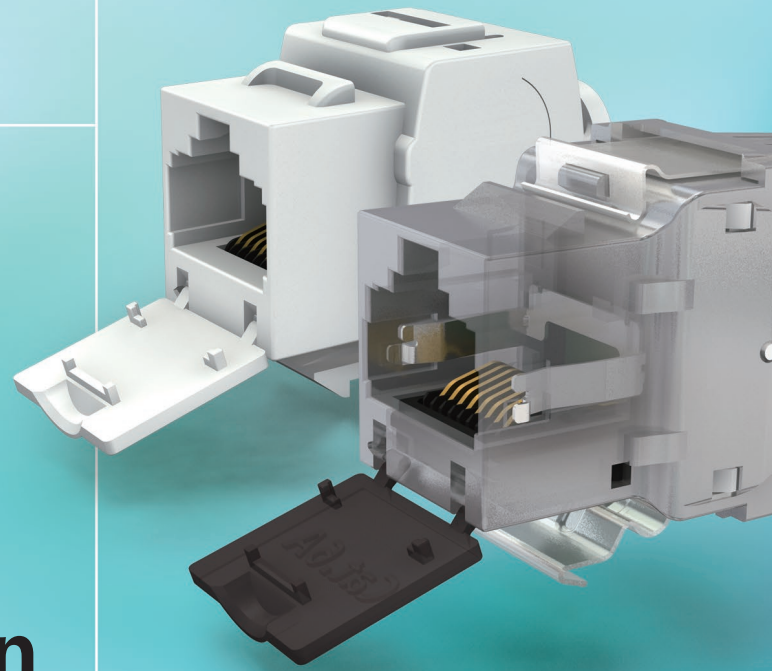


*Telebox*



# Cabling for Networking Telecommunication



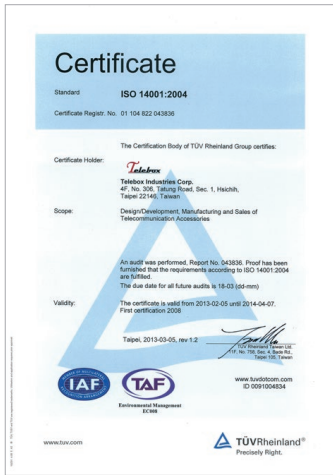
# About Telebox

- **We focus on** Customers satisfaction in product quality, on time delivery, and service.
- **Our principles** Long term partnership and cooperation with customers and suppliers.
- **Our people** We are proud 60 experienced long time service employees almost 50% are engineering educated and technical training .
- **Our quality policy** Improve our quality and skills.  
Improve cooperation for customer satisfaction.

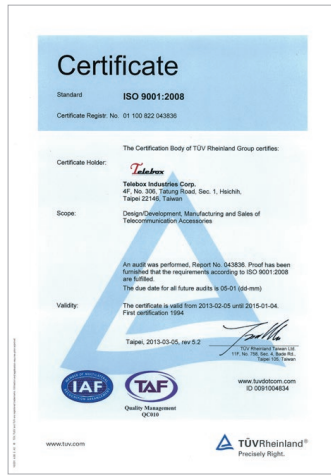
Product



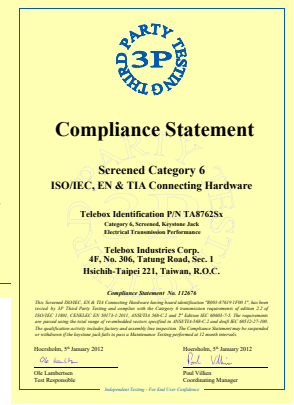
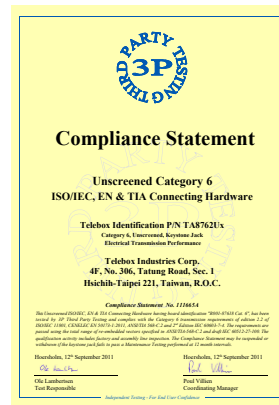
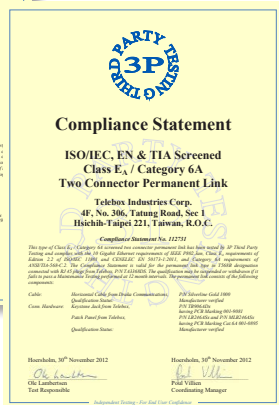
The quality assurance and production facilities of the Telebox Industries Corp. have been approved by 3P yearly inspection visit since 2005. It is concluded by 3P that generally quality assurance, working procedures, capabilities, production facilities and extent of end product testing should be acceptable to secure a continuous production of a high quality Connecting Hardware.



TÜV ISO 14001:2004 Certificate



TÜV ISO 9001:2008 Certificate

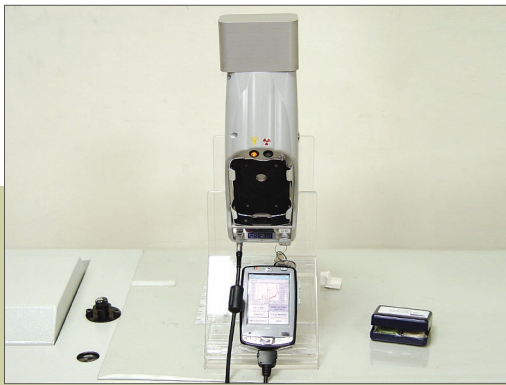


Cat.6A Permanent Link Compliance !

Connecting Hardware Factory Full Compliance !



# Index



Outlets & Modules **4**

Patch Panels **12**

Modular Plugs & Patch Cords **18**

Adapters & Couplers **26**

Surface Mount Boxes **30**

Cabling Tools **34**

Baluns **38**

Telecom **42**

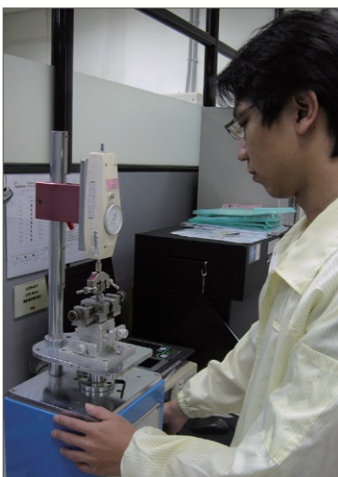
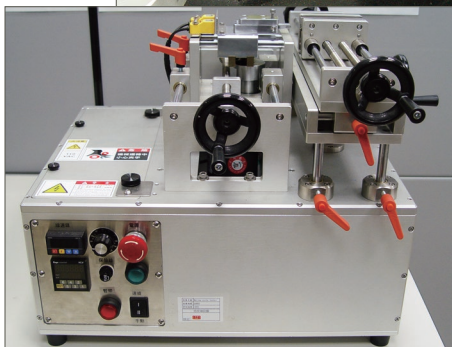
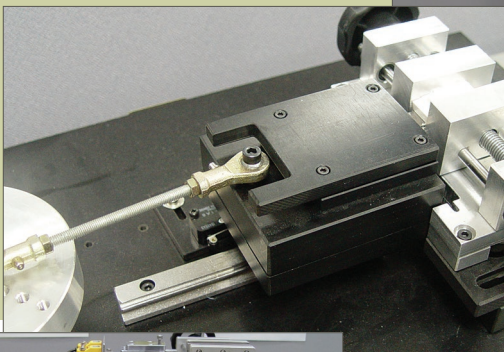
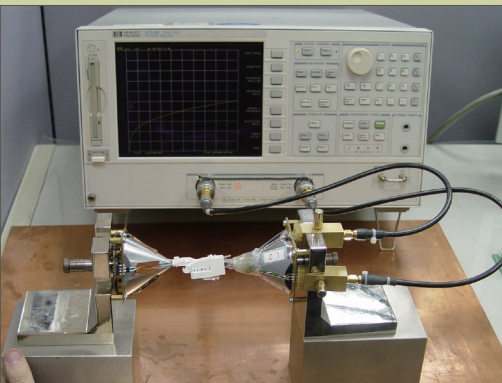
Faceplates **48**

Modular Jacks **58**

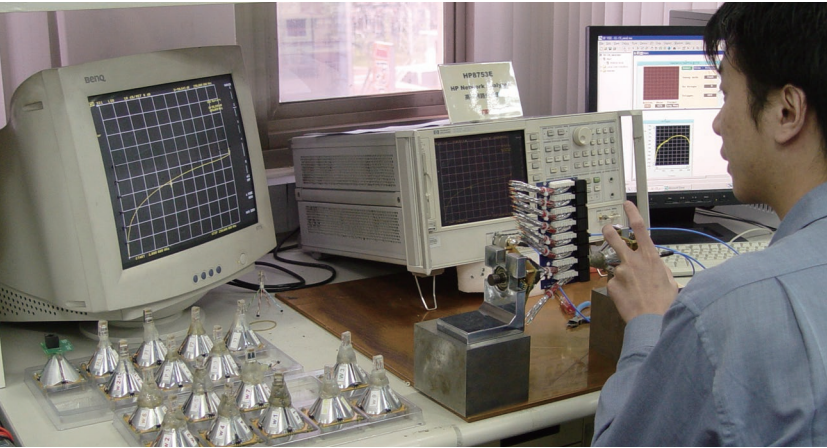
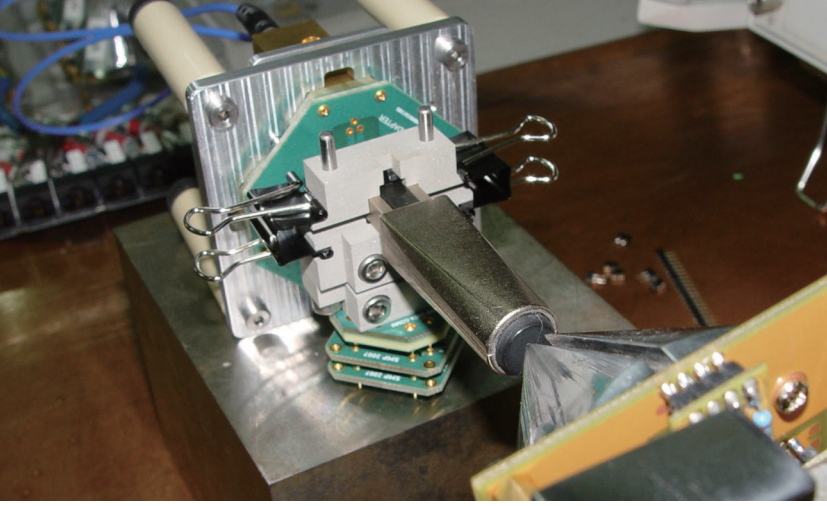
IDC **64**

Media Converters **66**

HDMI/USB **68**

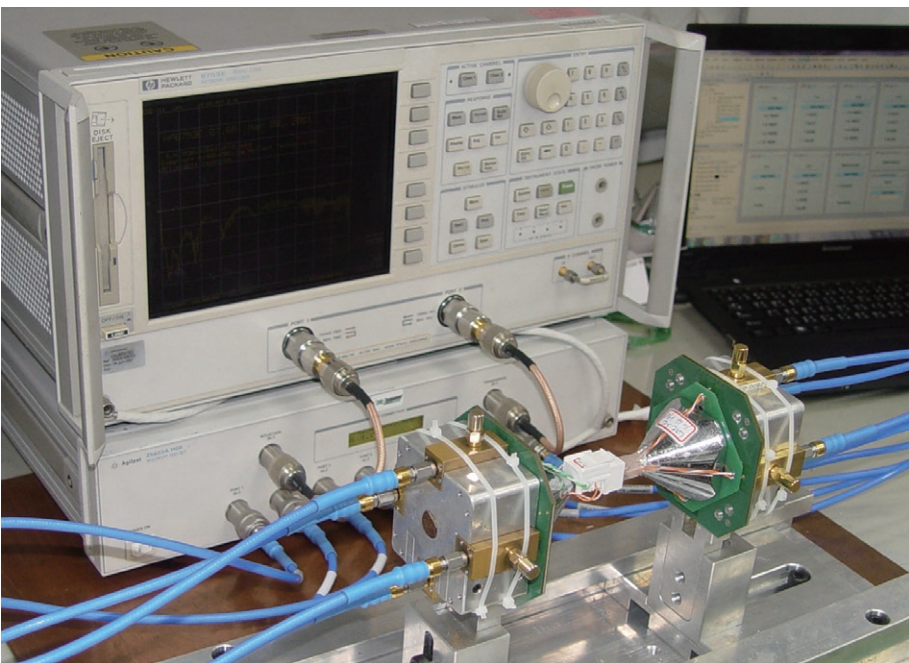
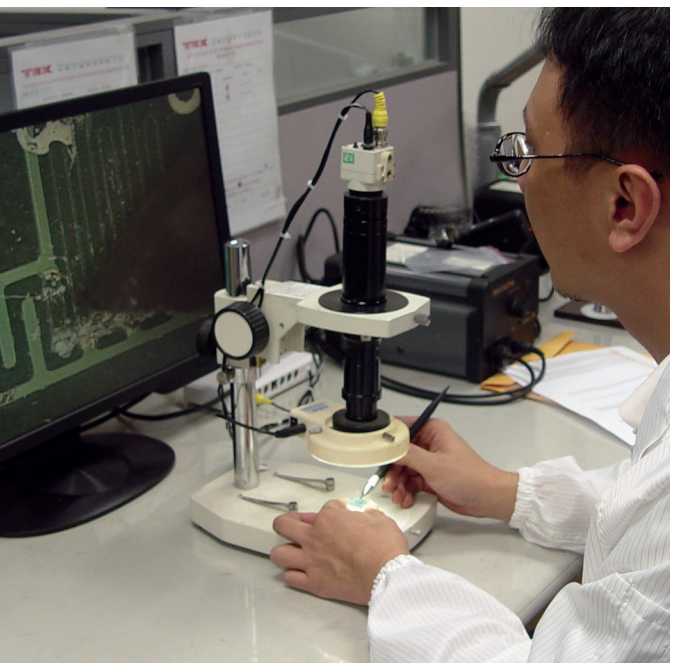
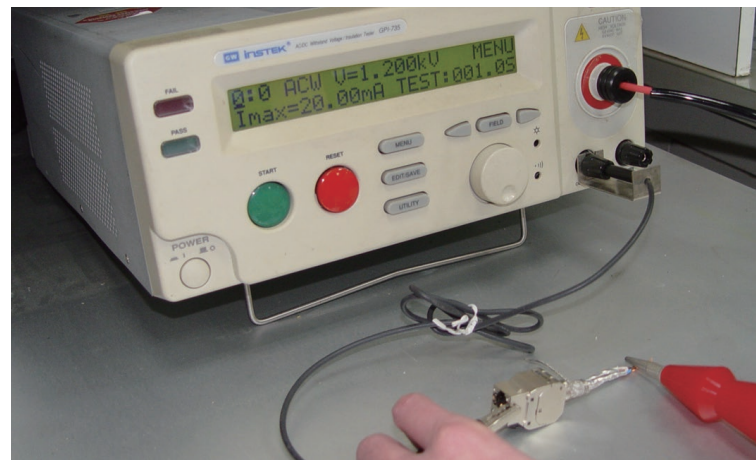




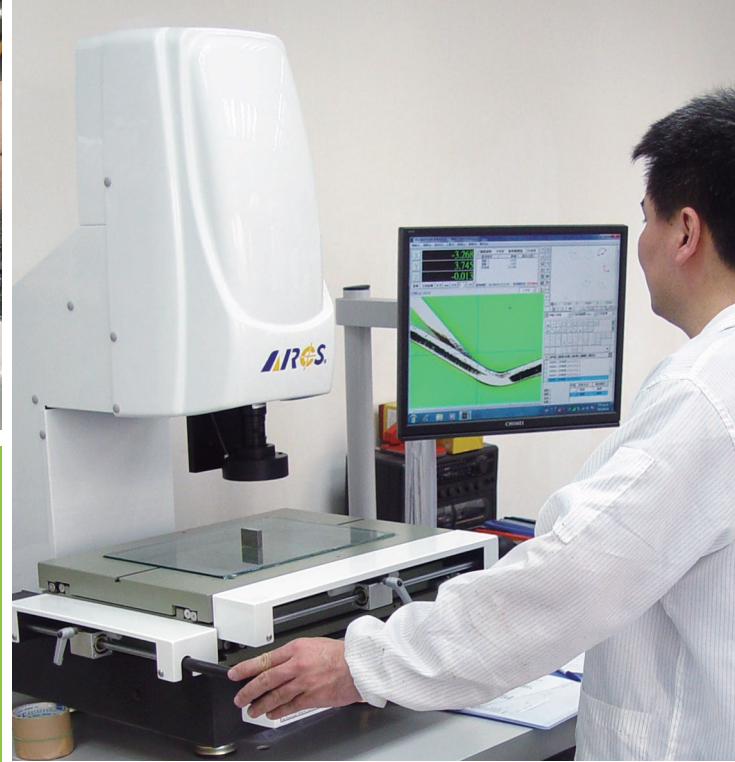
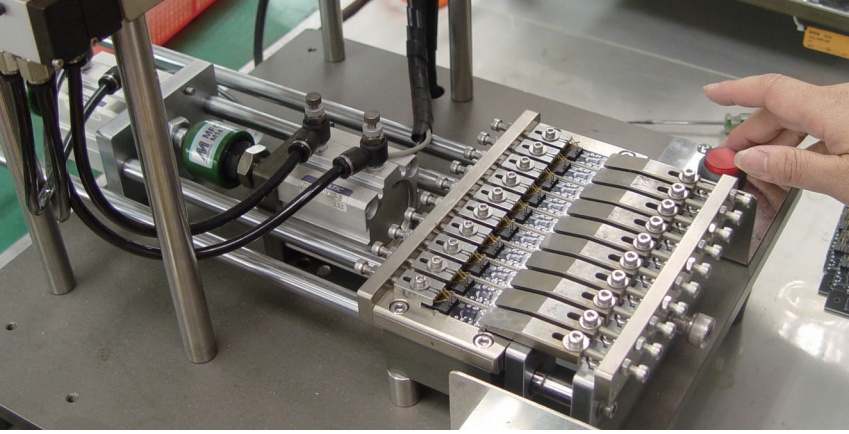


## Engineering Capabilities

- High Frequency Components testing
  - Re-embedded testing
  - Transfer impedance test
  - HP Network Analyzer
  - Coupling attenuation test
  - Fluke DTX-1800 Lab Adapter for cable and patch cord
- Permanent Link and Channel testing.
- Balun testing
- DC resistance and short circuit testing
- Mechanical testing
- Rapid prototyping
- Materials analysis
- 3D mechanical design
- Schematic & PCB layout design
- Tools, jigs & fixtures design
- Automachines design





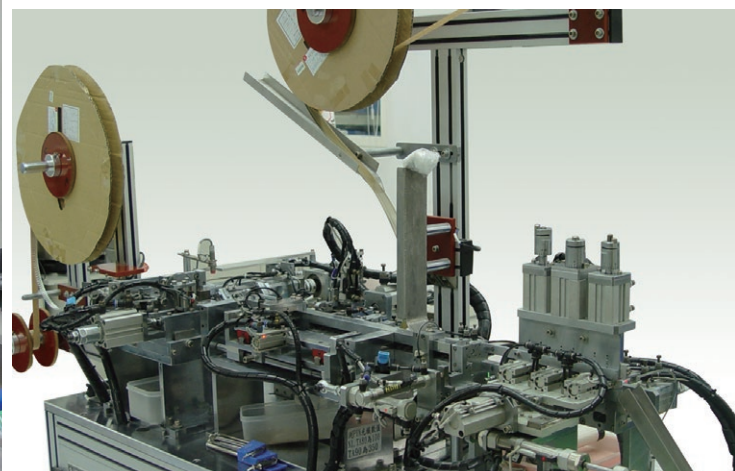


## Manufacturing Capabilities

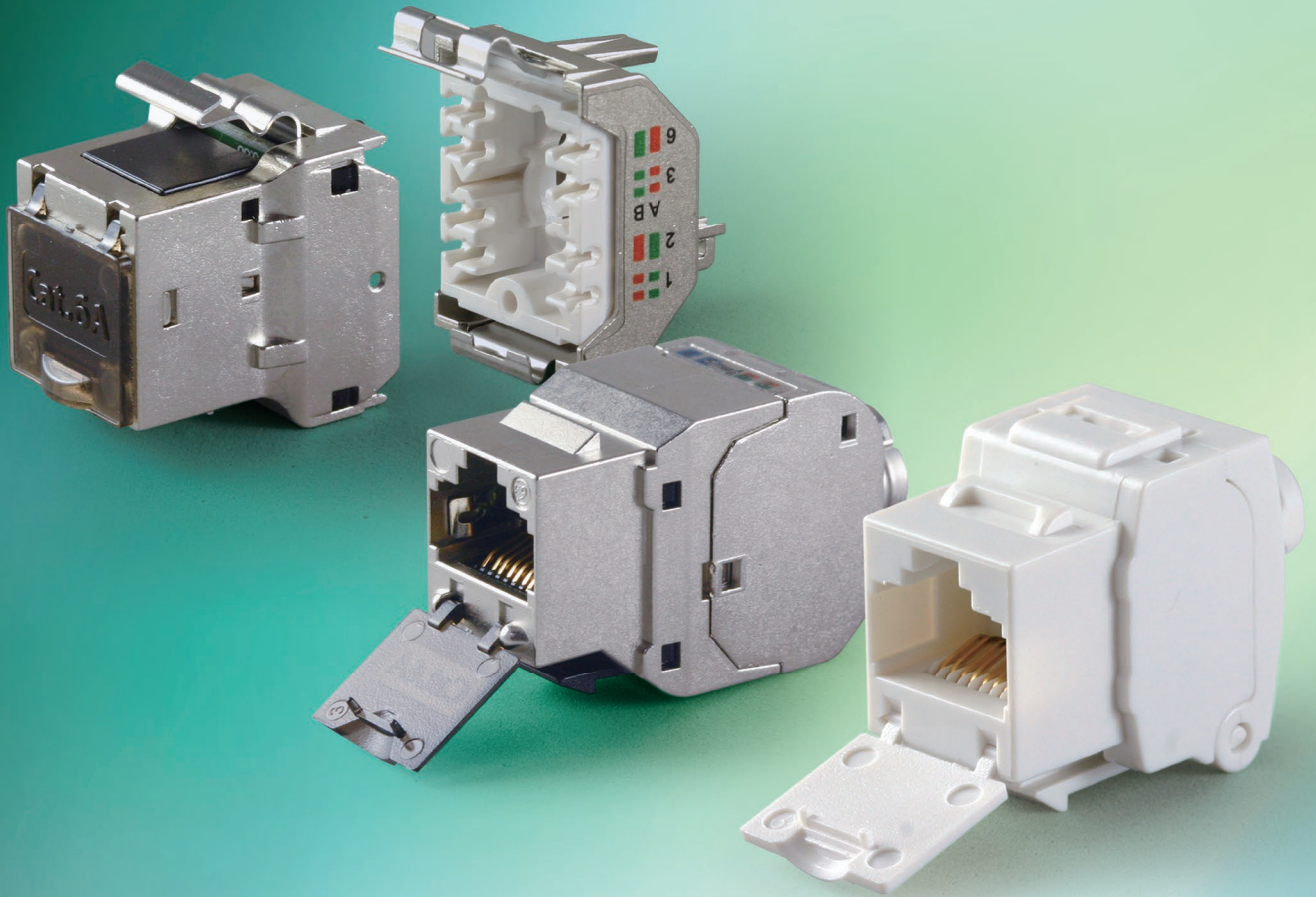
Our production control staffs and industrial engineers possess a superb skills and flexibility for quick integration, capacity expansion, and jigs and tools design. They formulated different processes to cope with customers' demand in different quantity, in extended items, and in fast delivery. All made it possible by the APEX Enterprise Resources Planning (ERP) system. Telebox therefore owns a total production process capability starting from tooling development, Die-casting molding & plating, Plastic injection, Metal Stamping, Automatic Machine, manual assembly, testing and packaging, to final shipping...etc.

A 100 % control for visual appearance, for shorts and interrupted connections, and for near end crosstalk in forward direction is carried out after the assembly operation.

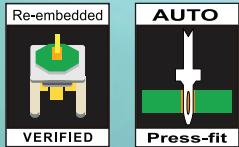
Telebox has long history of friendly touch and speedy manner to our customers. We hope you can choose Telebox as your partner in product development. You will like our services and enjoy our quality products.







# Outlets & Modules



The keystone jacks come with T568A or T568B wiring and fully comply with ANSI/TIA568-C-2 specifications for Insertion Loss (Attenuation), Near-End Crosstalk (NEXT), Return Loss, and Far-End Crosstalk (FEXT) for data transmissions of any pair combination with frequencies up to 500MHz.

**3P PARTY TESTING**

**Compliance Statement**

ISO/IEC, EN & TIA Screened Class E<sub>1</sub> / Category 6A Two Connector Permanent Link

Telebox Industries Corp.  
4F, No. 306, Tatung Road, Sec 1 Hsichih-Taipei 221, Taiwan, R.O.C.

*(Small text describing compliance details)*

Hsichih, 30<sup>th</sup> November 2012

**3P PARTY TESTING**

**Compliance Statement**

ISO/IEC, EN & TIA Screened Class E<sub>1</sub> / Category 6A Two Connector Permanent Link

Telebox Industries Corp.  
4F, No. 306, Tatung Road, Sec 1 Hsichih-Taipei 221, Taiwan, R.O.C.

*(Small text describing compliance details)*

Hsichih, 30<sup>th</sup> November 2012

**3P PARTY TESTING**

**Compliance Statement**

ISO/IEC, EN & TIA Screened Class E<sub>1</sub> / Category 6A Two Connector Permanent Link

Telebox Industries Corp.  
4F, No. 306, Tatung Road, Sec 1 Hsichih-Taipei 221, Taiwan, R.O.C.

*(Small text describing compliance details)*

Hsichih, 30<sup>th</sup> November 2012

**3P PARTY TESTING**

**Compliance Statement**

Unscreened Category 6 ISO/IEC, EN & TIA Connecting Hardware

Telebox Identification P/N TA8762Ux  
Category 6 Unscreened Keystone Jack  
Electrical Transmission Performance

Telebox Industries Corp.  
4F, No. 306, Tatung Road, Sec. 1 Hsichih-Taipei 221, Taiwan, R.O.C.

*(Small text describing compliance details)*

Hsichih, 12<sup>th</sup> September 2011

**3P PARTY TESTING**

**Compliance Statement**

Screened Category 6 ISO/IEC, EN & TIA Connecting Hardware

Telebox Identification P/N TA8762Sx  
Category 6 Screened Keystone Jack  
Electrical Transmission Performance

Telebox Industries Corp.  
4F, No. 306, Tatung Road, Sec. 1 Hsichih-Taipei 221, Taiwan, R.O.C.

*(Small text describing compliance details)*

Hsichih, 09<sup>th</sup> January 2012

Cat.6A Permanent Link Compliance !

Connecting Hardware Factory Full Compliance !



## Outlet Technical Data

	STP (Die-Casting)	STP (Shield metal)	UTP
<b>Transmission Characteristics</b>			
Cat.6A	Qualified screened Class E <sub>A</sub> /Category 6A Permanent Link/Channel of ANSI/TIA-568-C.2 IEC 60603-7-51 ISO/IEC 11801 AMD2 CENELEC EN 50173-1	Qualified screened Class E <sub>A</sub> /Category 6A Permanent Link/Channel of ANSI/TIA-568-C.2 IEC 60603-7-51 ISO/IEC 11801 AMD2 CENELEC EN 50173-1	Qualified unscreened Class E <sub>A</sub> /Category 6A Permanent Link/Channel of ANSI/TIA-568-C.2 IEC 60603-7-41 ISO/IEC 11801 AMD2 CENELEC EN 50173-1
Cat.6 Connecting Hardware		Screened Cat.6 Connecting Hardware ANSI/TIA-568-C.2 IEC 60603-7-5 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition	Unscreened Cat.6 Connecting Hardware ANSI/TIA-568-C.2 IEC 60603-7-4 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition
Cat.6	Screened Cat.6/Class E Permanent Link and Channel performance ANSI/TIA-568-C.2 IEC 60603-7-5 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition	Screened Cat.6/Class E Permanent Link and Channel performance ANSI/TIA-568-C.2 IEC 60603-7-5 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition	Unscreened Cat.6/Class E Permanent Link and Channel performance ANSI/TIA-568-C.2 IEC 60603-7-4 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition
Cat.5e	Screened Cat.5e/Class D Permanent Link and Channel performance ANSI/TIA-568-C.2 IEC 60603-7-3 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition	Screened Cat.5e/Class D Permanent Link and Channel performance ANSI/TIA-568-C.2 IEC 60603-7-3 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition	Unscreened Cat.5e/Class D Permanent Link and Channel performance ANSI/TIA-568-C.2 IEC 60603-7-2 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition
<b>Electrical Characteristics</b>			
Current Rating	1.5 Amps	1.5 Amps	1.5 Amps
Insulation Resistance	500 MΩ Min.	500 MΩ Min.	500 MΩ Min.
Contact Resistance	20 mΩ Max.	20 mΩ Max.	20 mΩ Max.
DC Resistance	0.1 Ω Max.	0.1 Ω Max.	0.1 Ω Max.
<b>Mechanical Characteristics</b>			
Plug Insertion Life	750 Cycles Min.	750 Cycles Min.	750 Cycles Min.
Plug & Jack Contact Force	100 Grams Min.	100 Grams Min.	100 Grams Min.
Plug Retention Force	30 lbs Min.	30 lbs Min.	30 lbs Min.
Temperature	-40°F to 150°F	-40°F to 150°F	-40°F to 150°F
<b>Physicals Characteristics</b>			
Shielding Housing	Zinc alloy Die-Casting	SPTE 0.30mm thickness	
Material	High impact flame retardant plastic	High impact flame retardant plastic	High impact flame retardant plastic
PCB	FR4	FR4	FR4
IDC Accept (Solid wire)	#23~25 AWG	#23~25 AWG	#23~25 AWG
IDC Accept (Stranded wire)	#24~26 AWG	#24~26 AWG	#24~26 AWG

Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cabling Tools

Baluns

Telecom

Faceplates

Modular Jacks

IDC

Media Converters

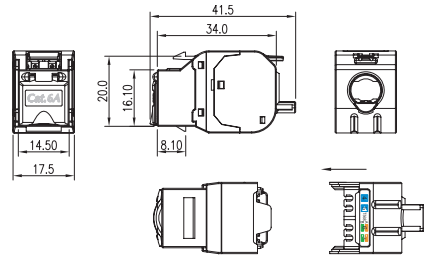
USB/HDMI



## 180° Slim Type Keystone Jack



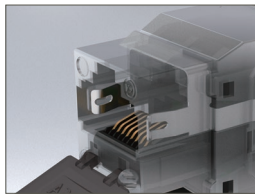
3P  
PARTY TESTING  
THIRD  
Factory Full Compliance!



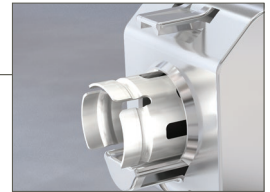
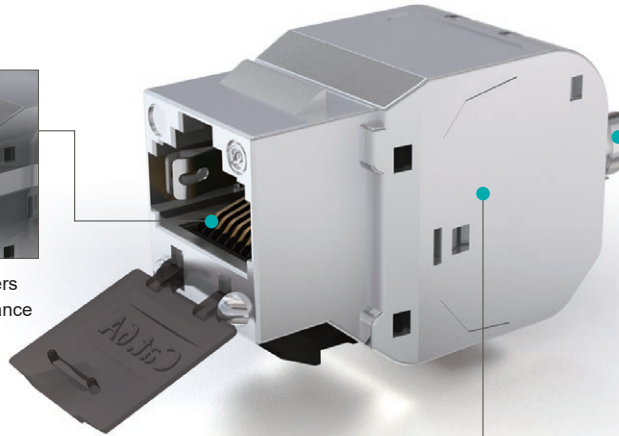
TB90	XX	X	X	-	XX
	6A : Cat.6A 68 : Cat.6 58 : Cat.5e	D : Die cast	D : Door T : Without door		BK : Black

\* Crimp tool see page 35, 36

## ■ ClassE<sub>A</sub>/ Cat.6A Die-Cast Keystone Jack



Metal contact: shield fingers for a better contact resistance and transmission.



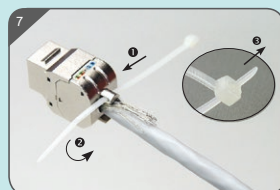
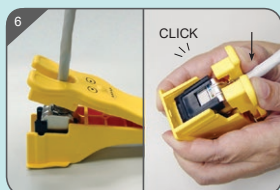
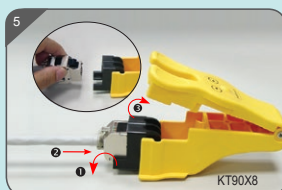
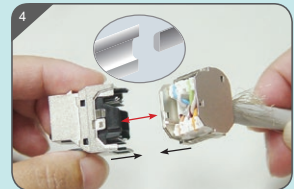
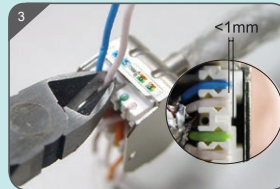
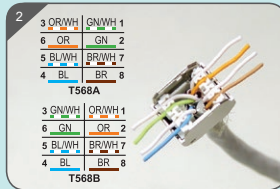
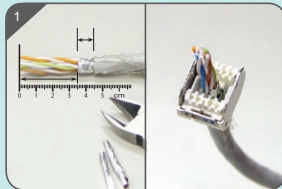
Cable holder with 360° Braiding Cover: provide better EMC, contact resistance and transmission.



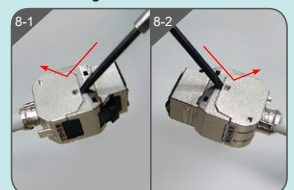
IDC contacts: IDC layout for better crosstalk performance.

## 180° Shielded Keystone Jack Installation

### Mounting:

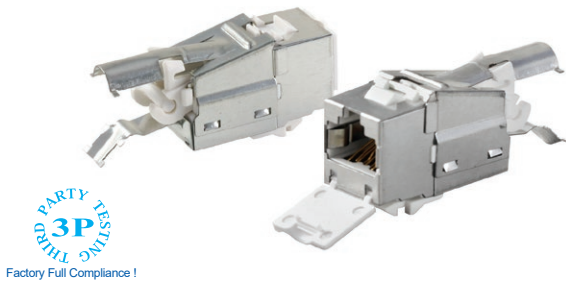


### Dismounting:

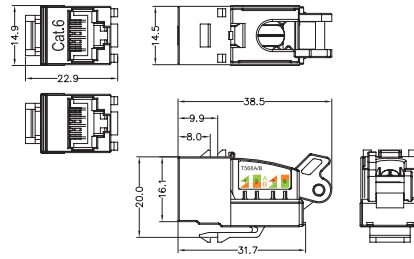
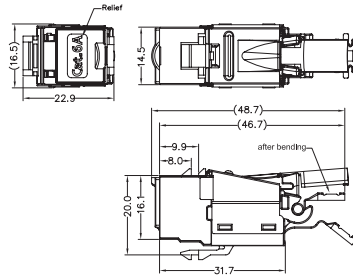




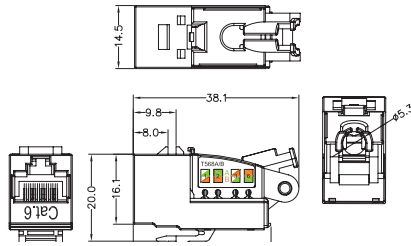
## 90° Keystone Jacks



Factory Full Compliance!



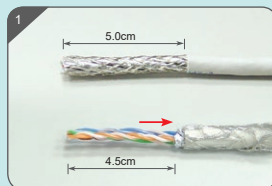
for Ø5.0~5.4mm cable



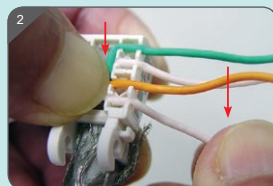
TB87	XX	X	X	-	3	XX
	6B : Cat.6A					
	62 : Cat.6 Connecting Hardware	U : Unshielded	D : Door			WH : White
	68 : Cat.6	S : Shielded	T : Without door			BK : Black
	58 : Cat.5e					

\* Cable tool see page 35, 36

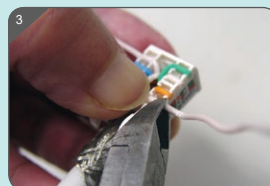
## 90° Shielded Keystone Jack Installation



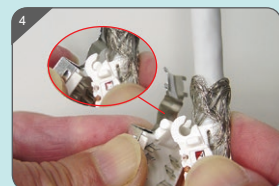
- Strip about 5.0cm of cable jacket.  
Roll back the copper braid when stripping the cable.  
Cut each pair's aluminum foil about 4.5cm.



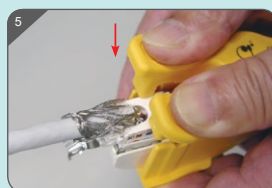
- Arrange the wires.



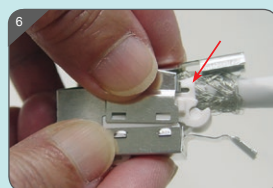
- Cut off redundant wires edgewise.



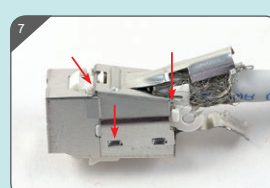
- Join the cap axis hole with the axis beam of the housing, the wired cap can rotate back and forth.



- Clamp down.



- Place shield guides into the wired-cap slot.



- Push to click shield knobs into the shield base.



- Push shield cap and shield base to touch copper braid.  
Place the cable-tie and cut the tail after tied down the cable.

Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cabling Tools

Baluns

Telecom

Faceplates

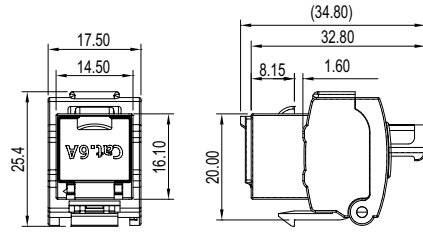
Modular Jacks

IDC

Media Converters

USB/HDMI

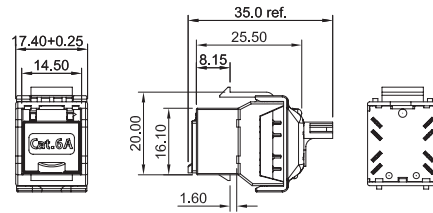
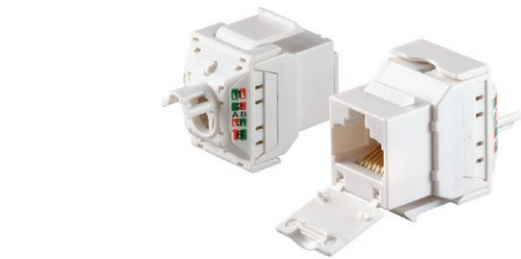
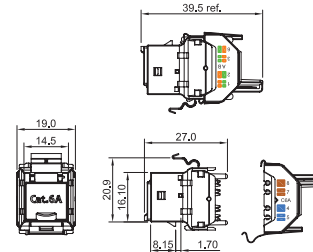
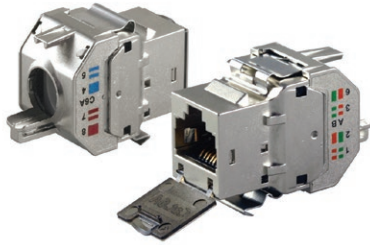
### 180° Keystone Jack



<b>TB91</b>	<b>XX</b>	<b>X</b>	<b>X</b>	-	<b>XX</b>
	6A : Cat.6A	U : Unshielded	D : Door		WH : White
	68 : Cat.6	S : Shielded	T : Without door		BK : Black
	58 : Cat.5e				

\* Cable tool see page 35, 36

### 180° Keystone Jacks

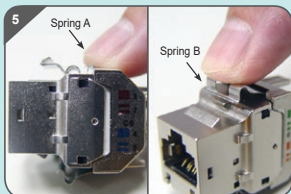
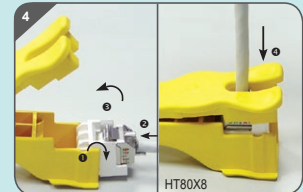
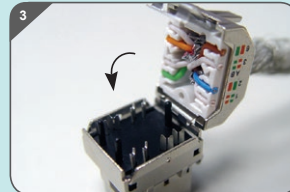
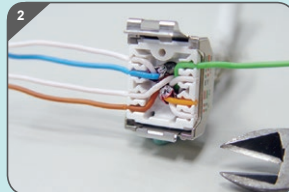
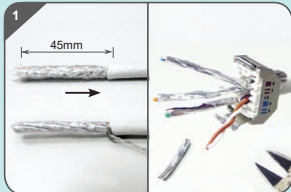


<b>TB80</b>	<b>XX</b>	<b>X</b>	<b>X</b>	-	<b>XX</b>
	6A : Cat.6A	U : Unshielded	D : Door		WH : White
	68 : Cat.6	S : Shielded	T : Without door		BK : Black
	58 : Cat.5e				

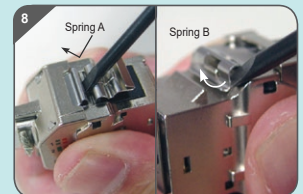
\* Cable tool see page 35, 36

### 180° Shielded Keystone Jack Installation

**Mounting:**

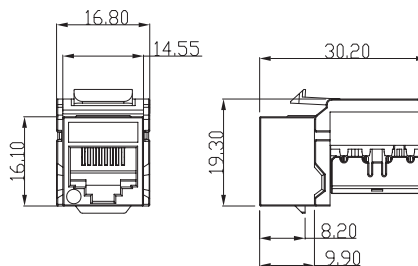


**Dismounting:**





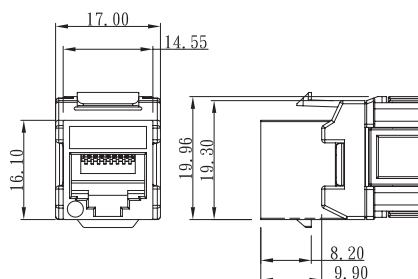
### 90° Punch Down Type Keystone Jack



<b>TA84</b>	<b>XX</b>	<b>X</b>	<b>X</b>	-	<b>XX</b>
	68 : Cat.6 58 : Cat.5e	U : Unshielded	D : with door T : without door		BK : Black WH : White

\* Cable tool see page 34

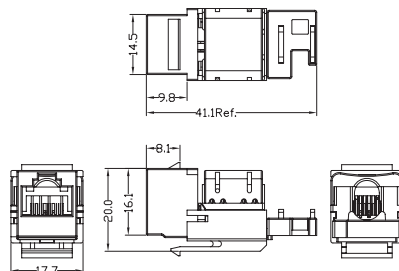
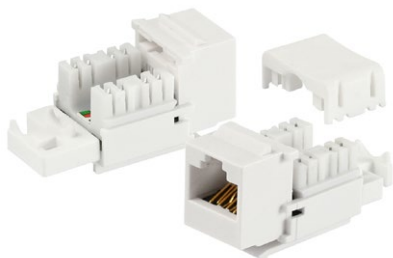
### 180° Punch Down Type Keystone Jack



<b>TB85</b>	<b>XX</b>	<b>X</b>	<b>X</b>	-	<b>XX</b>
	68 : Cat.6 58 : Cat.5e	U : Unshielded	D : with door T : without door		BK : Black WH : White

\* Cable tool see page 34

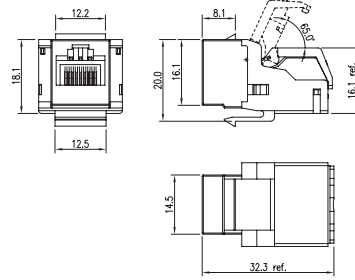
### 90° Punch Down Type Keystone Jack



<b>TA89</b>	<b>XX</b>	<b>X</b>	<b>X</b>	-	<b>X</b>	<b>XX</b>
	6A : Cat.6A 68 : Cat.6 58 : Cat.5e	U : Unshielded	IDC block C : Daul type		1 : Without cable holder 2 : With cable holder	BK : Black WH : White

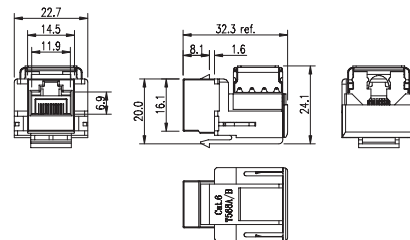
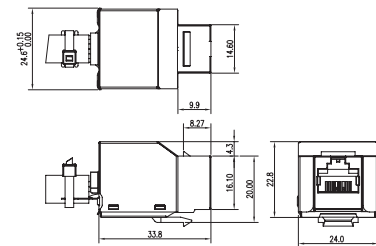
\* Cable tool see page 34

## 90° Toolless Keystone Jack



<b>TA88</b>	<b>XX</b>	<b>X</b>	<b>X</b>	-	<b>XX</b>
	68 : Cat.6 58 : Cat.5e	U : Unshielded	IDC block C : Dual type		BK : Black WH : White

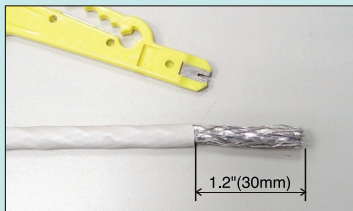
## STP 90° Punch Down Type Keystone Jacks



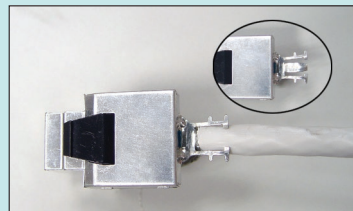
<b>TA86</b>	<b>XX</b>	<b>X</b>	<b>X</b>	-	<b>XX</b>
	61 : Cat.6 connecting hardware 68 : Cat.6 58 : Cat.5e	U : Unshielded S : Shielded	IDC block C : Dual type		BK : Black WH : White

\* Cable tool see page 34

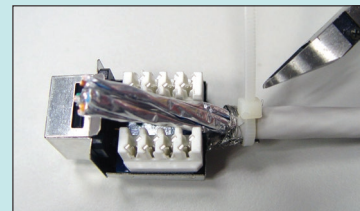
## STP 90° Punch Down Keystone Jack Installation



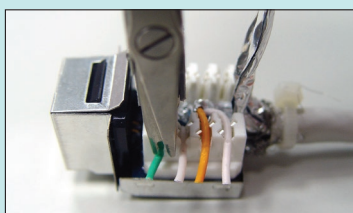
1. Bend back the copper braid over sheath.



2. Pierce bayonet between braid and aluminum foil all the way down and hit the shoulder. Place the cable tie-holder over the braid as photo illustrates.



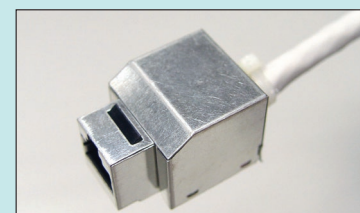
3. Place cable tie at assigned place. Squeeze the cable tie and cut the cable tie tail.



4. Arrange the wires according to the color and use punch down tool terminate each pair.



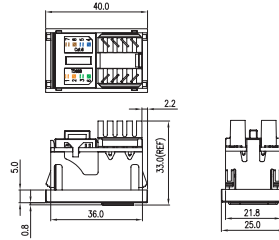
5. After termination completed, make sure the aluminum foil fully covers the wires all the way down to the block.



6. Complete view.

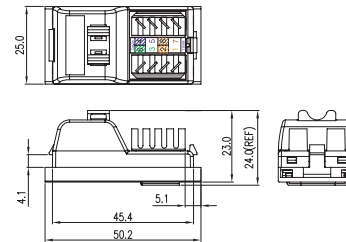
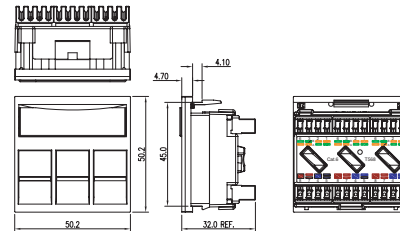
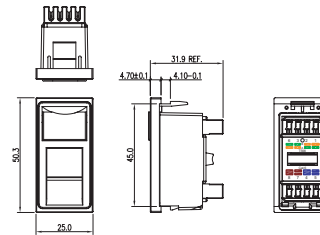


### British Type 6C Module (25x40mm)



TA22	X	XX
	1: Cat.6 2: Cat.5e	WH:White

### British Type Keystone Modules



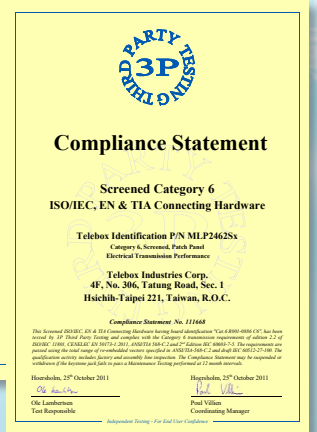
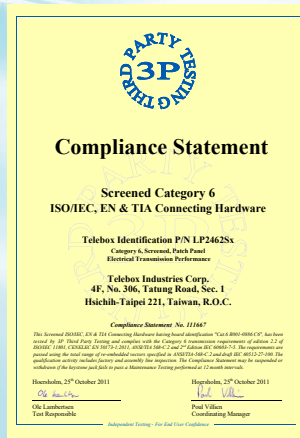
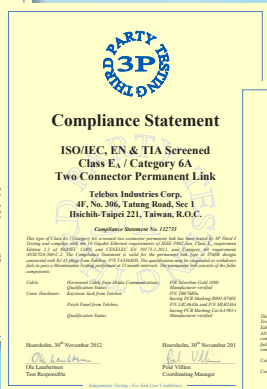
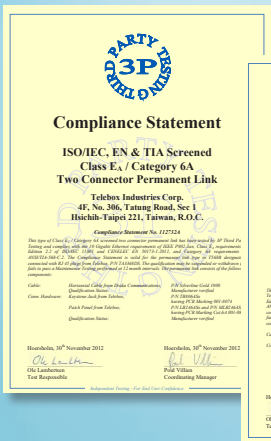
TA23	X	X	-	XX
	1: Cat.6 2: Cat.5e	A: 25x50 module B: 50x50 module C: 25x50 Low Profile D: 25x50 with shutter F: 25x50x17.40 Cat.6 G: 25x50x17.40 Cat.5E X: 12.5x50 blank cover		WH:White

# Patch Panels



The patch panels come T568A and T568B wiring and fully comply with ANSI/TIA-568-C.2 specifications for Insertion loss (Attenuation), Near-End Crosstalk (NEXT), Return Loss, and Far-End Crosstalk (FEXT) for data transmissions of any pair combination with frequencies up to 500MHz.

High density patch panels are most commonly used at the cross-connect area for switches to the distribution side of the network, and can be mounted on 19" racks or cabinets.



Cat.6A Permanent Link Compliance !

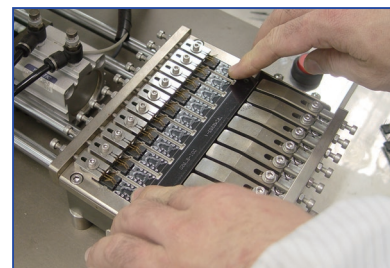
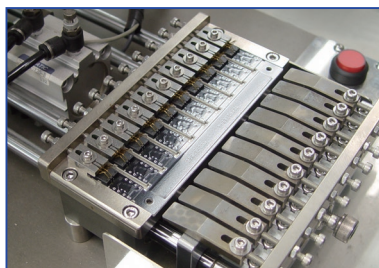
Connecting Hardware Factory Full Compliance !



## Patch Panel Technical Data

		90° Patch Panel		180° Patch Panel
		STP	UTP	UTP
<b>Transmission Characteristics</b>				
Cat.6A	Qualified screened Class E <sub>A</sub> /Category 6A Permanent Link/Channel of ANSI/TIA-568-C.2 IEC 60603-7-51 ISO/IEC 11801 AMD2 CENELEC EN 50173-1	Qualified unscreened Class E <sub>A</sub> /Category 6A Permanent Link/Channel of ANSI/TIA-568-C.2 IEC 60603-7-41 ISO/IEC 11801 AMD2 CENELEC EN 50173-1		
Cat.6 Connecting Hardware	Screened Cat.6 Connecting Hardware ANSI/TIA-568-C.2 IEC 60603-7-5 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition			
Cat.6	Screened Cat.6/Class E ANSI/TIA-568-C.2 IEC 60603-7-5 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition		Unscreened Cat.6/Class E ANSI/TIA-568-C.2 IEC 60603-7-4 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition	
Cat.5e	Screened Cat.5e/Class D ANSI/TIA-568-C.2 IEC 60603-7-3 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition		Unscreened Cat.5e/Class D ANSI/TIA-568-C.2 IEC 60603-7-2 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition	
<b>Electrical Characteristics</b>				
Current Rating	1.5 Amps	1.5 Amps	1.5 Amps	
Insulation Resistance	500 MΩ Min.	500 MΩ Min.	500 MΩ Min.	
Contact Resistance	20 mΩ Max.	20 mΩ Max.	20 mΩ Max.	
DC Resistance	0.1 Ω Max.	0.1 Ω Max.	0.1 Ω Max.	
<b>Mechanical Characteristics</b>				
Plug Insertion Life	750 Cycles Min.	750 Cycles Min.	750 Cycles Min.	
Plug & Jack Contact Force	100 Grams Min.	100 Grams Min.	100 Grams Min.	
Plug Retention Force	30 lbs Min.	30 lbs Min.	30 lbs Min.	
Temperature	-40°F to 150°F	-40°F to 150°F	-40°F to 150°F	
<b>Physicals Characteristics</b>				
Shielding Housing	SPCC nickel plating			
Material	High impact flame retardant plastic	High impact flame retardant plastic	High impact flame retardant plastic	
PCB	FR4	FR4	FR4	
IDC Accept (Solid wire)	#23~25 AWG	#23~25 AWG	#23~25 AWG	
IDC Type	Dual	Dual	Dual	

### Auto press-fit



Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cabling Tools

Baluns

Telecom

Faceplates

Modular Jacks

IDC

Media Converters

USB/HDMI

## 24P 1U L-type Patch Panels

Outlets & Modules

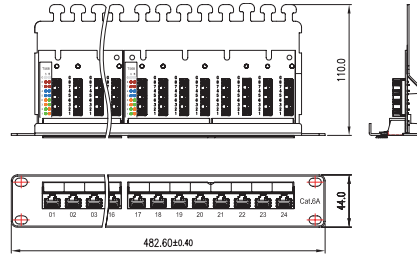
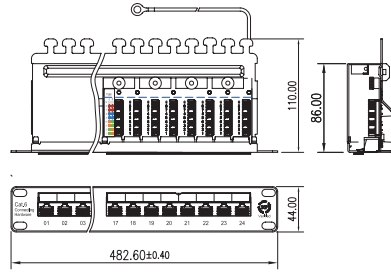
Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cablings Tools



<b>LB24</b>	<b>XX</b>	<b>X</b>	<b>X</b>	<b>X</b>
24 : 24ports	6A : Cat.6A 68 : Cat.6 58 : Cat.5e	U : Unshielded S : Shielded	Q : Dual type	A : T568A B : T568B X : T568A/T568B

## 24P 0.5U L-type Patch Panels

Baluns

Telecom

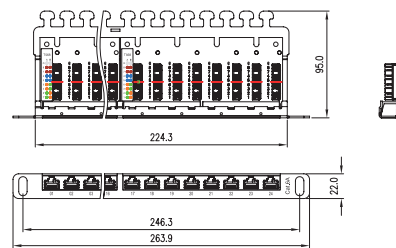
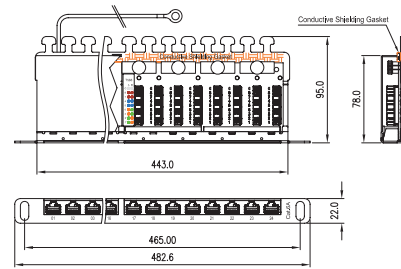
Faceplates

Modular Jacks

IDC

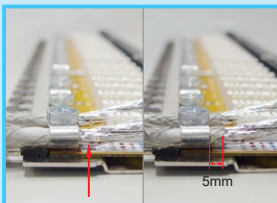
Media Converters

USB/HDMI

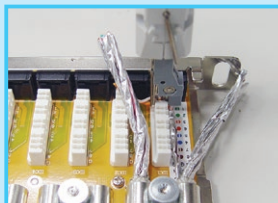


<b>MLB24</b>	<b>XX</b>	<b>X</b>	<b>X</b>	<b>X</b>
24 : 24ports	6A : Cat.6A 68 : Cat.6 58 : Cat.5e	U : Unshielded S : Shielded	Q : Dual type	A : T568A B : T568B X : T568A/T568B

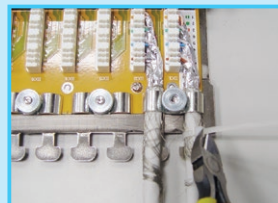
### STP L-type 0.5U Patch Panel Installation



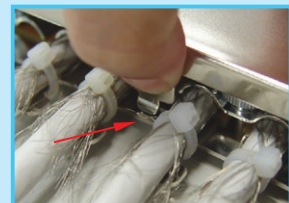
The cut of cable jacket to be fixed with metal clamp. The jut out of the cable jacket can't over 5mm.



After termination completed. Please make sure the aluminum foil fully covers the wires.



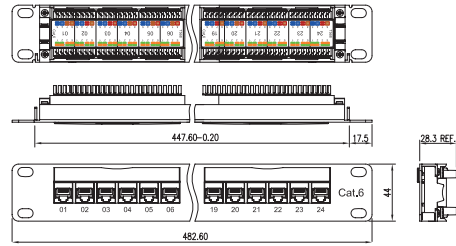
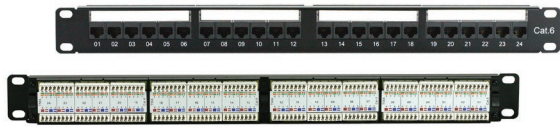
Thread the cable tie and cut the cable tie. Please do not use too much force to deform the cable.



Push onward the metal cover and push down into the snap holes.

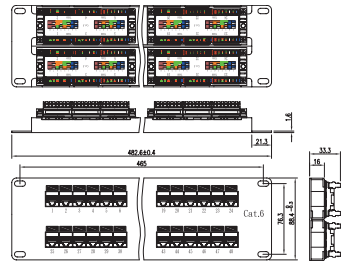
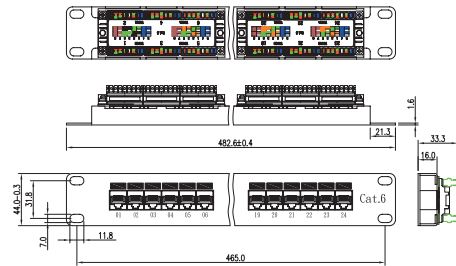


## UTP 180° Patch Panel



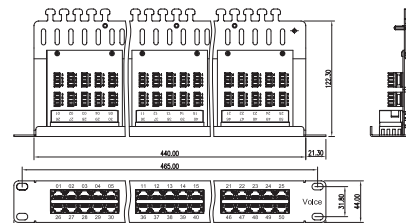
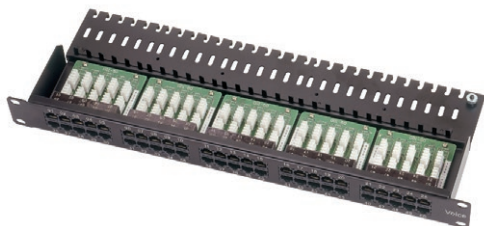
JP24	XX	X	X	X
24 : 24 ports	68 : Cat.6 58 : Cat.5e	E : Unshielded	IDC block C : Dual type	A : T568A B : T568B X : T568A/T568B

## UTP 180° Patch Panels



EP	XX	X	X	X	X
12 : 12 ports 16 : 16 ports 24 : 24 ports 32 : 32 ports 48 : 48 ports 96 : 96 ports	6 : Cat.6 8 : Cat.5e	U : Unshielded	IDC block C : Dual type I : 110 type	A : T568A B : T568B X : T568A/T568B	

## Voice Panel



VP	XX	X	X	X
16 : 16 ports 25 : 25 ports 32 : 32 ports 50 : 50 ports	4:8P4C 6:8P6C 8:8P8C	U : Unshielded	IDC block C : Dual type	

Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cabling Tools

Baluns

Telecom

Faceplates

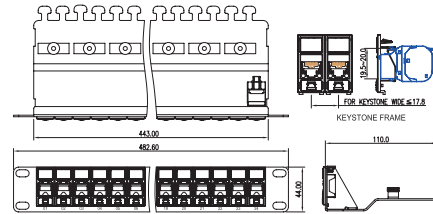
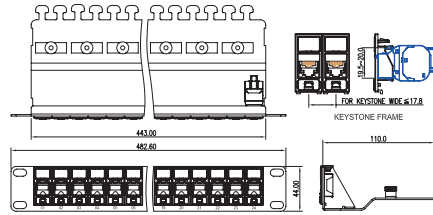
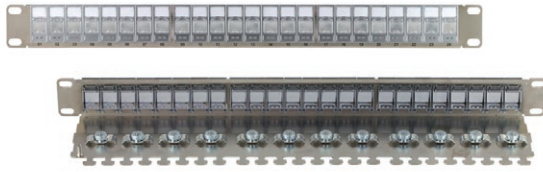
Modular Jacks

IDC

Media Converters

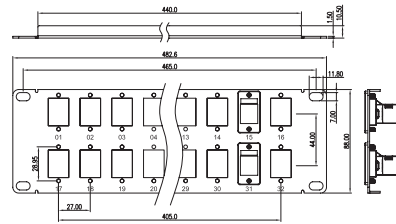
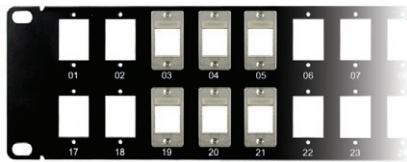
USB/HDMI

## 24P Keystone Frame Panels



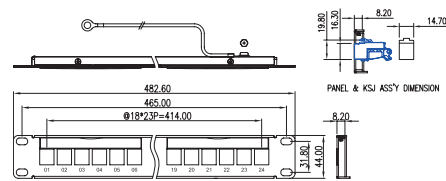
FP24	X	X
	U : Unshielded	D : with door
	S : Shielded	T : without door

## Die-Casting Flange Kits with Patch Panel



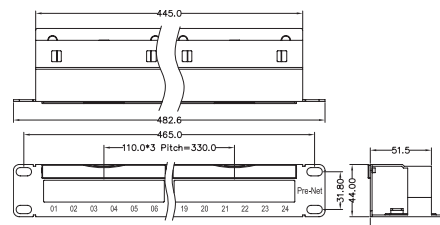
FG	XX	XX
	04 : Flange+ Panel	01 : 1U 16 ports
	05 : Blank Panel	02 : 2U 32 ports

## Keystone Type Patch Panel



KP	XX	XX
	16 : 16 ports	XX : With cable management SX : Without cable management
	24 : 24 ports	
	32 : 32 ports	
	48 : 48 ports	

## Cassette Panel



\* For 6 in 1 cassette (page 31)

Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cabling Tools

Baluns

Telecom

Faceplates

Modular Jacks

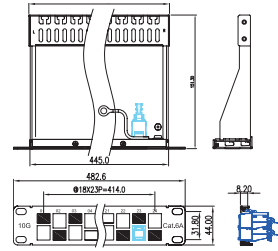
IDC

Media Converters

USB/HDMI



## Keystone Type Patch Panel for 10G UTP Solution



ZP24

XX

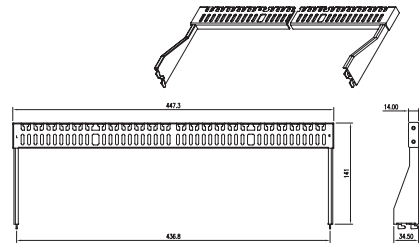
XX : With cable management

SX : Without cable management

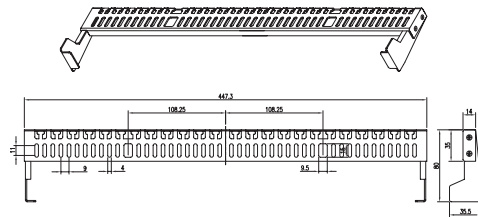
## Cable Managements



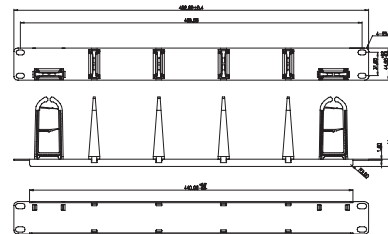
CMP9 for KP/ZP patch panels



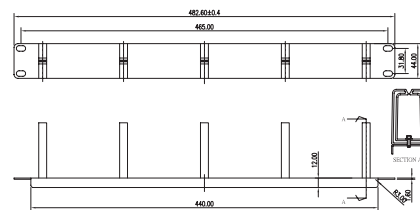
CMP8 for JB24 patch panel



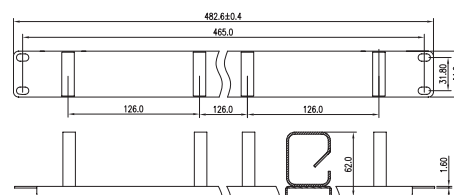
CMP7 snap-on ring x 6 (4 vertical + 2 x horizontal)



CMP4 metal plate with plastic hanger x 5



CMP3 metal plate with metal hanger x 4



Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cabling Tools

Baluns

Telecom

Faceplates

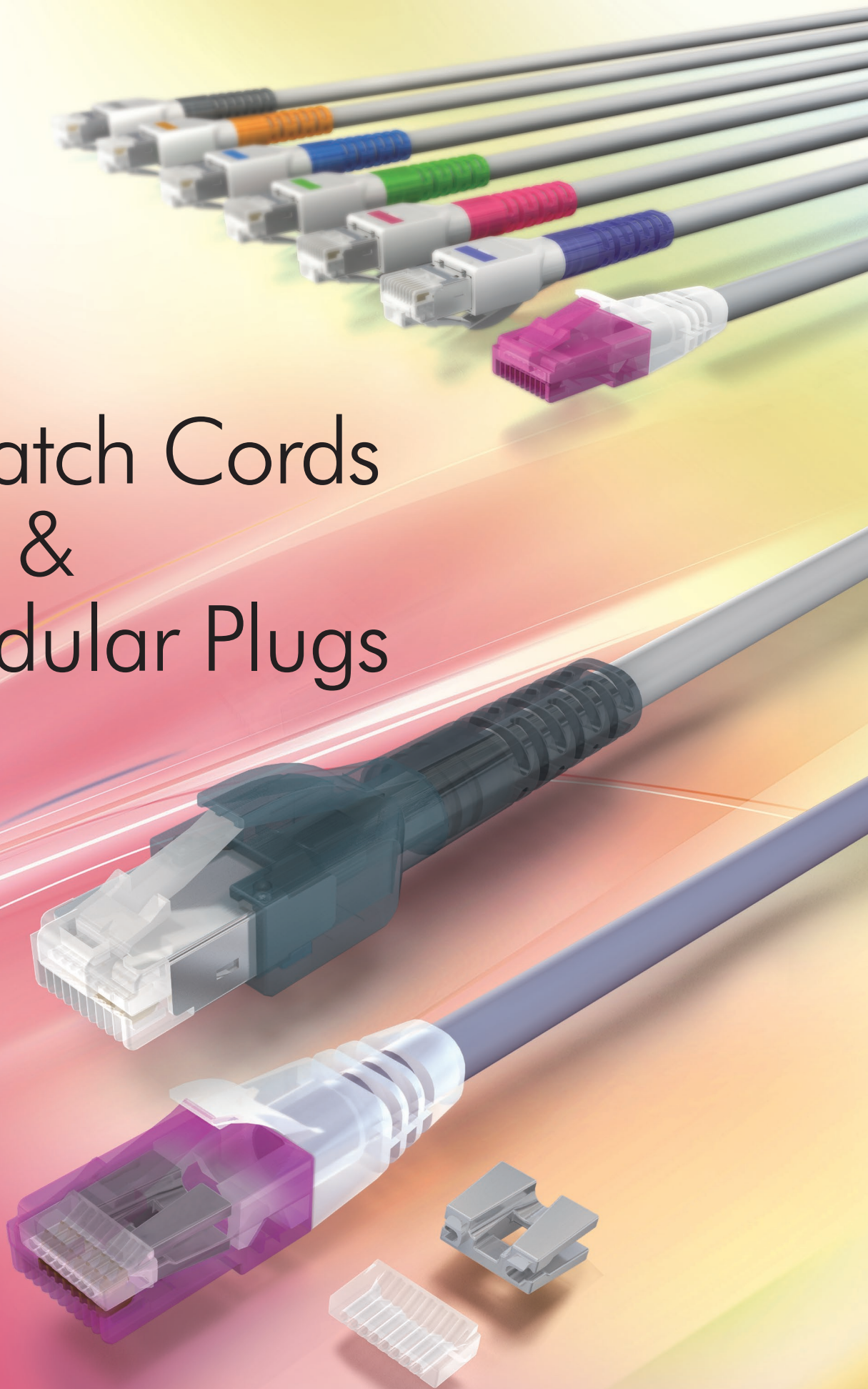
Modular Jacks

IDC

Media Converters

USB/HDMI

# Patch Cords & Modular Plugs





## Patch Cord Technical Data

	STP	UTP
<b>Transmission Characteristics</b>		
Cat.6A	Qualified screened Class EA/Category 6A Permanent Link/Channel of ANSI/TIA-568-C.2 IEC 60603-7-51 ISO/IEC 11801 AMD2 CENELEC EN 50173-1	Qualified unscreened Class EA/Category 6A Permanent Link/Channel of ANSI/TIA-568-C.2 IEC 60603-7-41 ISO/IEC 11801 AMD2 CENELEC EN 50173-1
Cat.6	Screened Cat.6/Class E ANSI/TIA-568-C.2-1 IEC 60603-7-5 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition	Unscreened Cat.6/Class E ANSI/TIA-568-C.2-1 IEC 60603-7-4 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition
Cat.5e	Screened Cat.5e/Class D ANSI/TIA-568-C.2 IEC 60603-7-3 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition	Unscreened Cat.5e/Class D ANSI/TIA-568-C.2 IEC 60603-7-2 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition

	Cat.6A		Cat.6		Cat.5e	
	STP	UTP	STP	UTP	STP	UTP
<b>Electrical Characteristics</b>						
Current Rating	1.5 Amps	1.5 Amps	1.5 Amps	1.5 Amps	1.5 Amps	1.5 Amps
Insulation Resistance	500 MΩ Min.	500 MΩ Min.	500 MΩ Min.	500 MΩ Min.	500 MΩ Min.	500 MΩ Min.
Contact Resistance	20 mΩ Max.	20 mΩ Max.	20 mΩ Max.	20 mΩ Max.	20 mΩ Max.	20 mΩ Max.
DC Resistance	0.1 Ω Max.	0.1 Ω Max.	0.1 Ω Max.	0.1 Ω Max.	0.1 Ω Max.	0.1 Ω Max.
<b>Mechanical Characteristics</b>						
Cable	S/FTP LSZH	U/UTP LSZH	S/FTP LSZH and PVC	U/UTP, F/UTP LSZH and PVC	SF/UTP LSZH and PVC	U/UTP, F/UTP LSZH and PVC
Outer Jacket	5.7 mm ± 0.2 mm	5.6 mm ± 0.2 mm	5.5 mm ± 0.2 mm	5.4 mm ± 0.2 mm	5.5 mm ± 0.2 mm	5.4 mm ± 0.2 mm
Plug & Jack Contact Force	100 Grams Min.	100 Grams Min.	100 Grams Min.	100 Grams Min.	100 Grams Min.	100 Grams Min.
Plug Retention Force	30 lbs Min.	30 lbs Min.	30 lbs Min.	30 lbs Min.	30 lbs Min.	30 lbs Min.
Temperature	-40°F to 150°F	-40°F to 150°F	-40°F to 150°F	-40°F to 150°F	-40°F to 150°F	-40°F to 150°F
<b>Physical Characteristics</b>						
For Stranded Wire	2-Contact blade, 3-Contact blade			2-Contact blade, 3-Contact blade		
For Solid Wire	2-Contact blade, 3-Contact blade			2-Contact blade, 3-Contact blade		
Shielding Housing	0.5 mm brass		0.5 mm brass		0.5 mm brass	
Wire AWG	#22-26 AWG	#22-26 AWG	#22-26 AWG	#22-26 AWG	#22-26 AWG	#22-26 AWG

Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cabling Tools

Baluns

Telecom

Faceplates

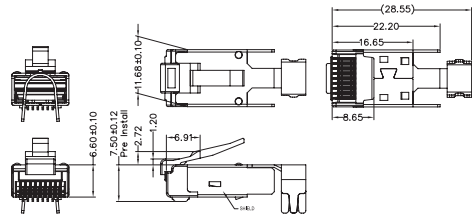
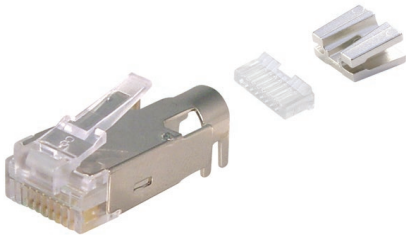
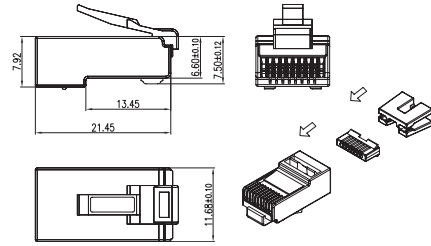
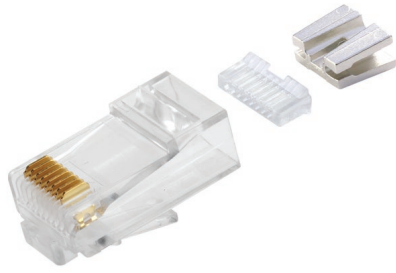
Modular Jacks

IDC

Media Converters

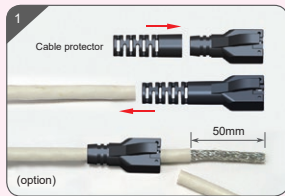
USB/HDMI

## RJ45 Plug (for Cat.6<sub>A</sub> Component Patch Cord)

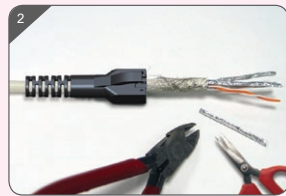


TA33	XX	-	D	X
	6A : Cat.6A (Zinc alloy organizer)			U : Unshielded
	68 : Cat.6 (Metalized organizer)			S : Shielded

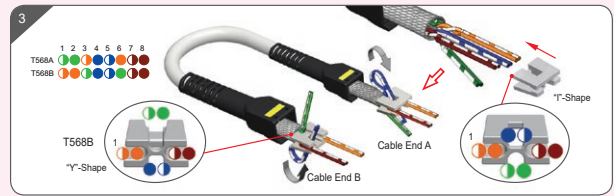
## STP Plug Termination Instruction



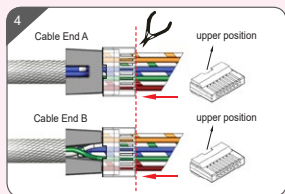
- Put cable protector & boots together, and install to the cable before stripping.
- Strip the cable jacket length about 50mm.



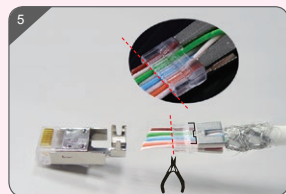
- Bend back the copper braid over plastic jacket, cut each pair's aluminum foil to root.



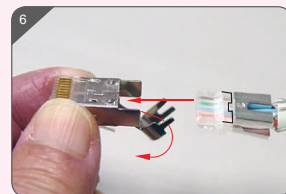
- Insert 4 pair wires into the organizer, Blue pair direct to "I-shape" organizer tunnel. Green pair direct to "Y-shape" organizer slot.



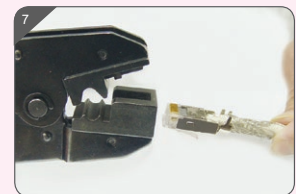
- Select indented loadbar on upper side position, thread wires thru loadbar, comb wires.



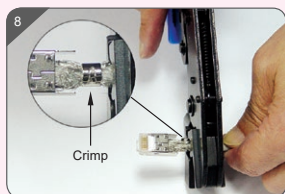
- ! Cut excess wires to the root. (important)



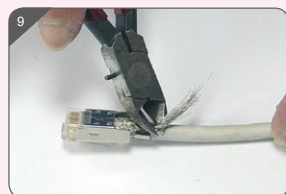
- Turn the shield SR(hook) down in order to push wire-organizer into plug housing.



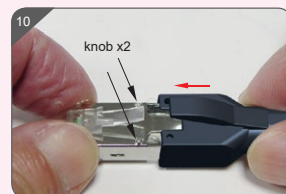
- Crimp and terminate the wires, by crimping tool.



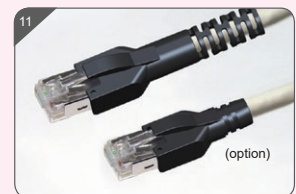
- Crimp shield SR(hook) with copper braid.



- Cut the excessive copper braid.



- Position boots with 2 knobs.



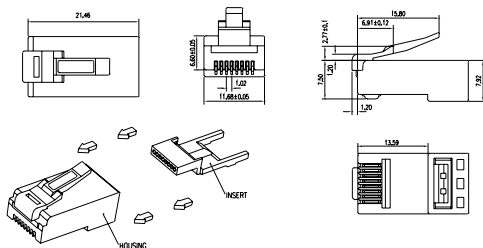
- Complete.



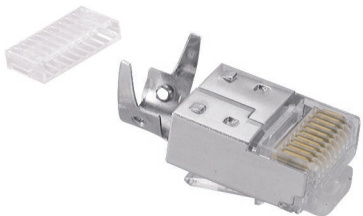
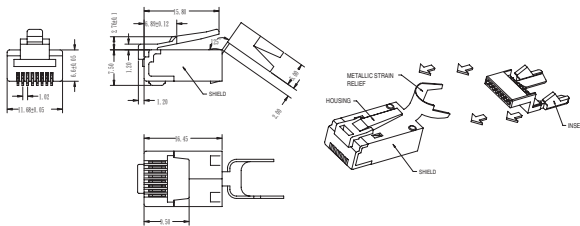
**RJ45 Plug**



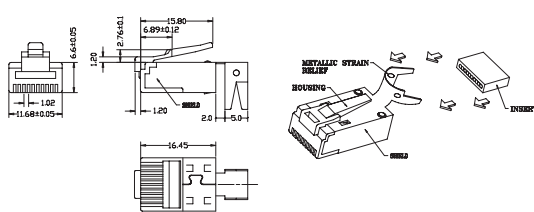
**TA5708AU** 8P8C UTP



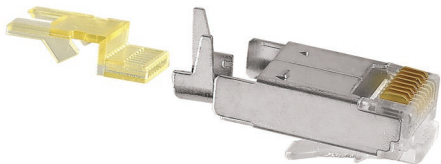
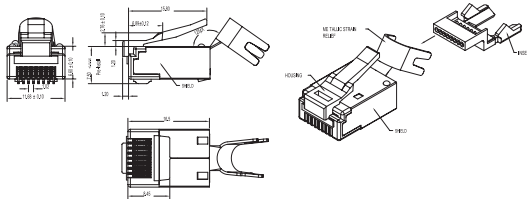
**TA5708FS** 8P8C STP



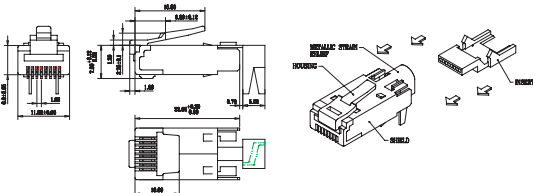
**TA5710FS** 10P10C STP



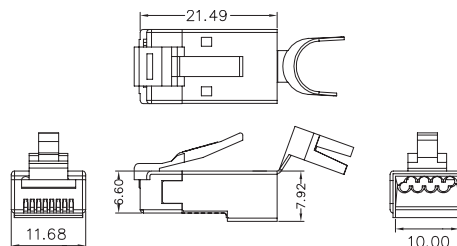
**TA5768FS** 8P8C STP



**TA5788HS** 8P8C Hirose type STP

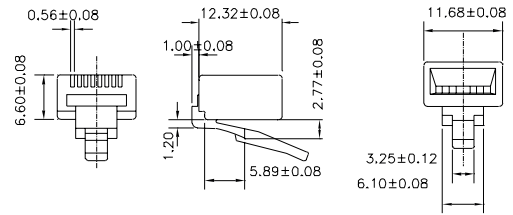
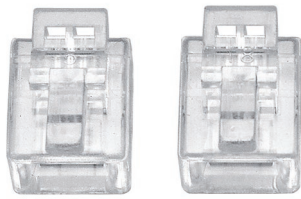


**TA5709CS** 8P8C STP for 22-23AWG



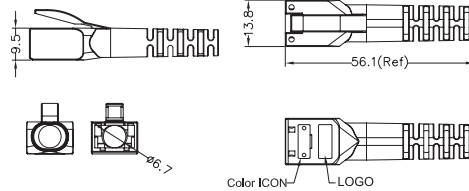
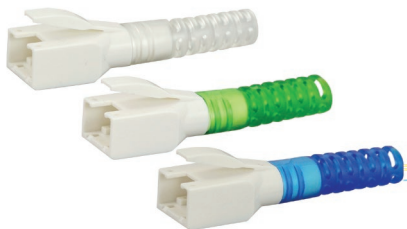
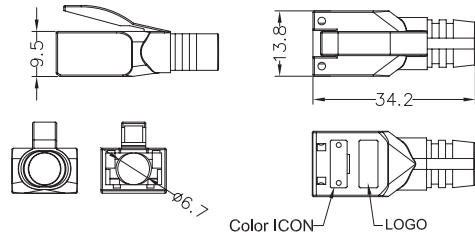
- Outlets & Modules
- Patch Panels
- Modular Plugs & Patch Cords**
- Adapters & Couplers
- Surface Mount Boxes
- Cabling Tools
- Baluns
- Telecom
- Faceplates
- Modular Jacks
- IDC
- Media Converters
- USB/HDMI

## RJ45 Plug



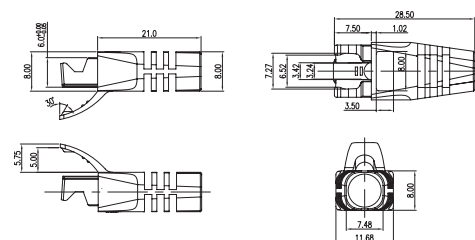
TA27	X	X	X	-	X	X
	4 : 4P	4 : 4C			A : for stranded wire	
	6 : 6P	6 : 6C			B : for solid wire blade (2-prong contact)	F : Flat cable
	8 : 8P	8 : 8P	K : Keyed		C : for solid wire blade (3-prong contact)	R : Round cable
	0 : 10P	0 : 10P				

## Plug Covers for STP Plugs



SR	XX (plug cover)	XX (strain Relief)	XX (indicator)
	01 : White	00 : none	00 : none
	02 : Black	01 : Transparent Blue	01 : Blue
	03 : Transparent Black	02 : Transparent Green	02 : Green
		03 : Transparent Red	03 : Red

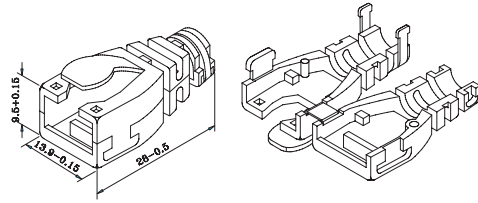
## Plug Covers for TA33XX UTP Plug



1433	-	8	XX
			GR : Grey
			BK : Black
			WH : White



Plug Covers for RJ45 Plug



Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cablings Tools

Baluns

Telecom

Faceplates

Modular Jacks

IDC

Media Converters

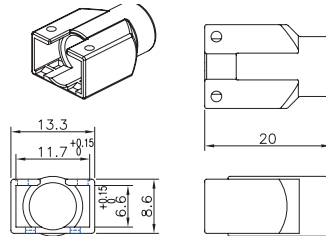
USB/HDMI

TA5608

XX

GR : Grey  
BK : Black  
WH : White

Plug Cover / SR



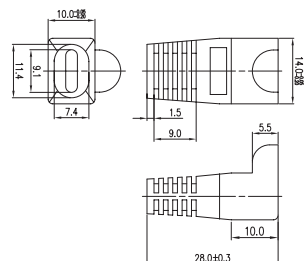
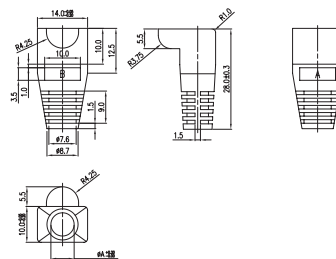
TA57PC

XX

Cable diameter : Ø6.0~6.5mm

WH : White  
BK : Black

Plug Covers / SRs



TA2788PC

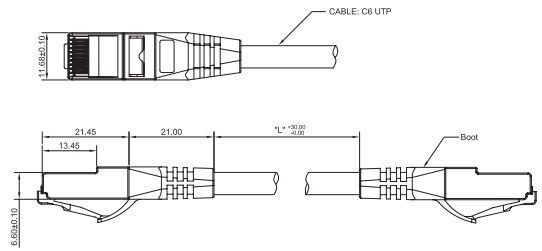
XX

XX

40 : 40 mm OD  
50 : 50 mm OD  
55 : 55 mm OD  
60 : 60 mm OD  
65 : 65 mm OD  
25 : for flat cable

WH : White  
BK : Black  
GR : Grey

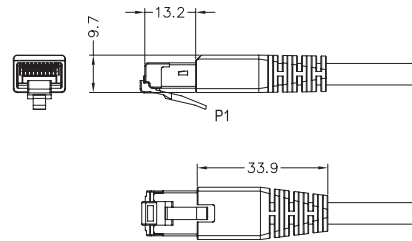
## UTP Patch Cord



TP33	XX	XXX	-	X	(X) (cable)	XX (cable color)
	A2 : Cat.6 <sub>A</sub> Connecting Hardware	010 : 1 M 020 : 2 M 030 : 3 M 050 : 5 M 100 : 10 M		B : Booted M : Molded	" " : PVC L : LSOH	GR : Grey

\* Crimping tool see page 36

## STP Patch Cord

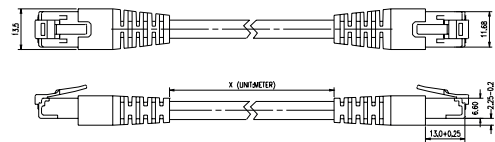


SF33	XX	XXX	-	X (plug cover)	X (strain relief)	X (icon)	(X) (cable)	XX (cable color)
	A2 : Cat.6 <sub>A</sub> Connecting Hardware	010 : 1 M 020 : 2 M 030 : 3 M 050 : 5 M 100 : 10 M		0 : Molded 1 : SR01 -XX (see page 22) A : TA5608-XX (see page 23)	0 : none 1 : Transparent Blue 2 : Transparent Green	0 : none 1 : Blue 2 : Green	" " : PVC L : LSOH	GR : Grey

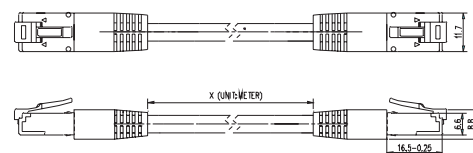
## Patch Cords



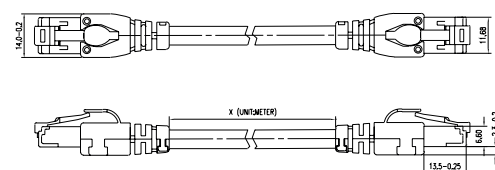
Molded 1



Molded 2



Booted



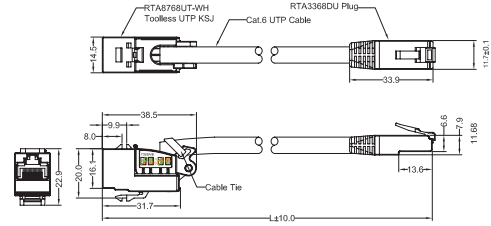
XX	5	8	XX.(X)	-	(X)	XX
TP : UTP ST : FTP SF : SFTP	Cat.5e	8 wires	01 : 1 M 02 : 2 M 03 : 3M 05 : 5M 10 : 10 M		" " : PVC L : LSOH	GR : Grey



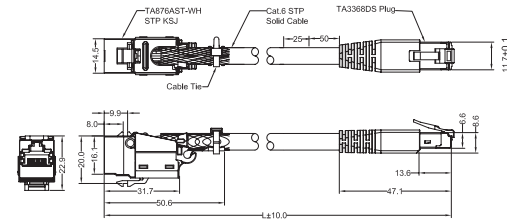
## Consolidation Point Cables



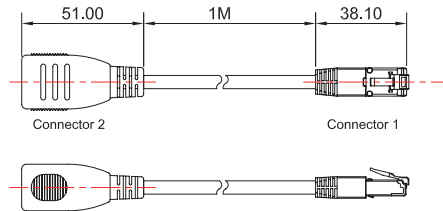
CP615



CP626



CP647



Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cabling Tools

Baluns

Telecom

Faceplates

Modular Jacks

IDC

Media Converters

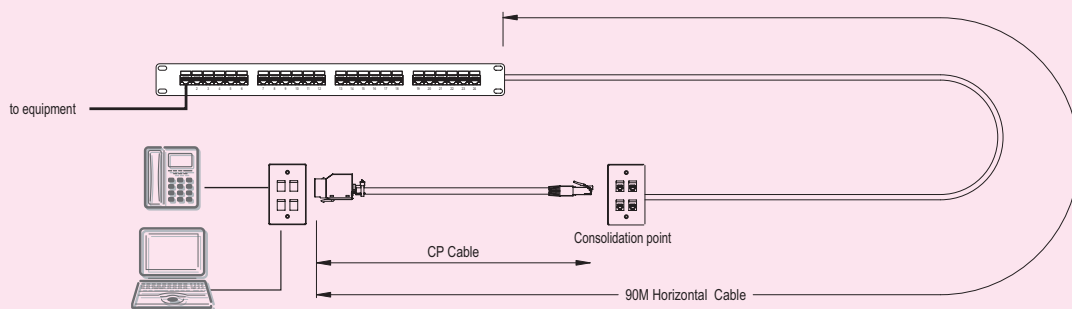
USB/HDMI

### What is CP Cable ?

The consolidation point functions as an interconnect between two sections of the horizontal cabling: the main cabling from the telecommunications closet and shorter distribution cables which serve outlets in the work area. Typically mounted in the ceiling or under access flooring.

### Where do you need CP Cable ?

- To provide increased flexibility and economy for installations with open office work spaces that require frequent reconfiguration.
- They deliver dedicated TOs (Telecommunication Outlets) to individual work areas and do not require provisions for extended cord lengths.



Note: To reduce the effects of multiple connections in close proximity, the CP should be located at least 15 meters from the HC(FD).



# Adapters & Couplers

Our coupler's the metal clip is robust, moveable and easy to install. Panel mount coupler is ideal for high density 24 ports feed through patch panel and flush mount wall plates. They are available in Cat.5e, Cat.6 and Cat.6A versions; and in shielded and unshielded types.

**Patented of spider contacts for reducing crosstalk**



## Adapters & Couplers Technical Data

	STP (Die-Casting)	STP (Metal Shield)	UTP
<b>Transmission Characteristics</b>			
Cat.6A	Qualified screened Category 6A Channel of ANSI/TIA-568-C.2 IEC 60603-7-51 ISO/IEC 11801 AMD2 CENELEC EN 50173-1	Qualified screened Category 6A Channel of ANSI/TIA-568-C.2 IEC 60603-7-51 ISO/IEC 11801 AMD2 CENELEC EN 50173-1	
Cat.6	Screened Cat.6/Class E Permanent Link and Channel performance ANSI/TIA-568-C.2-1 IEC 60603-7-5 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition	Screened Cat.6/Class E Permanent Link and Channel performance ANSI/TIA-568-C.2-1 IEC 60603-7-5 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition	Unscreened Cat.6/Class E Permanent Link and Channel performance ANSI/TIA-568-C.2-1 IEC 60603-7-4 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition
Cat.5e	Screened Cat.5e/Class D Permanent Link and Channel performance ANSI/TIA-568-C.2 IEC 60603-7-3 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition	Screened Cat.5e/Class D Permanent Link and Channel performance ANSI/TIA-568-C.2 IEC 60603-7-3 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition	Unscreened Cat.5e/Class D Permanent Link and Channel performance ANSI/TIA-568-C.2 IEC 60603-7-2 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition
<b>Electrical Characteristics</b>			
Current Rating	1.5 Amps	1.5 Amps	1.5 Amps
Insulation Resistance	500 MΩ Min.	500 MΩ Min.	500 MΩ Min.
Contact Resistance	20 mΩ Max.	20 mΩ Max.	20 mΩ Max.
DC Resistance	0.1 Ω Max.	0.1 Ω Max.	0.1 Ω Max.
<b>Mechanical Characteristics</b>			
Plug Insertion Life	750 Cycles Min.	750 Cycles Min.	750 Cycles Min.
Plug & Jack Contact Force	100 Grams Min.	100 Grams Min.	100 Grams Min.
Plug Retention Force	30 lbs Min.	30 lbs Min.	30 lbs Min.
Temperature	-40°F to 150°F	-40°F to 150°F	-40°F to 150°F
<b>Physical Characteristics</b>			
Shielding Housing	Zinc alloy Die-Casting	Bronze 0.25mm thickness	
Material	High impact flame retardant plastic	High impact flame retardant plastic	High impact flame retardant plastic
PCB	FR4	FR4	FR4

Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

**Adapters & Couplers**

Surface Mount Boxes

Cabling Tools

Baluns

Telecom

Faceplates

Modular Jacks

IDC

Media Converters

USB/HDMI



## RJ45 Keystone Couplers

Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

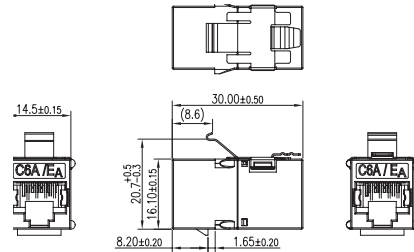
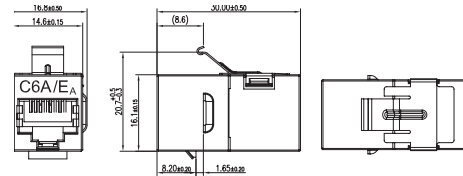
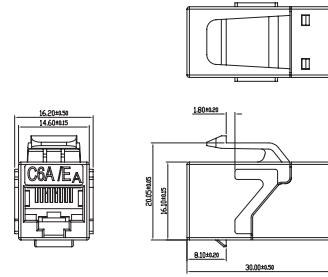
Adapters & Couplers

Surface Mount Boxes

Cablings Tools

Baluns

Telecom



TA19    XX    X    S    -    N    XX

6B : Cat.6A

U : Unshielded  
S : Shielded  
D : Die-Casting

S : Pin 1-1

WH : White  
BK : Black

## RJ45 Keystone Couplers

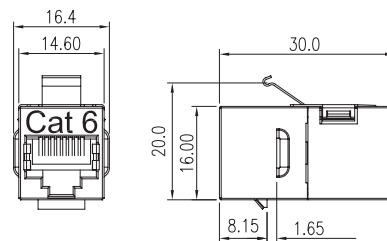
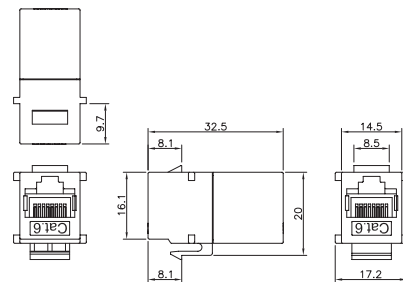
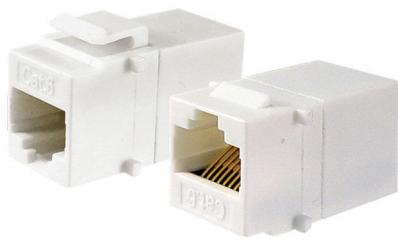
Faceplates

Modular Jacks

IDC

Media Converters

USB/HDMI



TA19    XX    X    S    -    N    XX

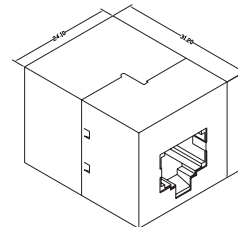
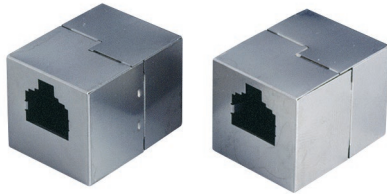
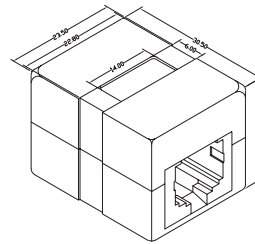
68 : Cat.6  
58 : Cat.5e

U : Unshielded  
S : Shielded  
D : Die-Casting

S : Pin 1-1

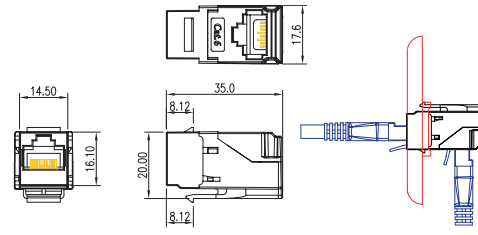
WH : White  
BK : Black

**In-Line Couplers**



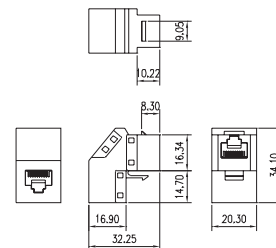
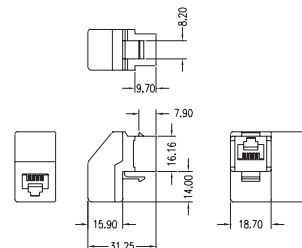
<b>TA69</b>	<b>XX</b>	<b>X</b>	<b>X</b>	<b>-</b>	<b>XX</b>
	68 : Cat.6 08 : Cat.5e	U : Unshielded S : Shielded G : Grounding	S : Pin 1-1 C : Pin 1-8		WH : White IV : Ivory

**UTP 90° Keystone Coupler**



<b>TA09</b>	<b>XX</b>	<b>X</b>	<b>-</b>	<b>XX</b>
	68 : Cat.6 58 : Cat.5e	U : Unshielded S : Shielded		WH : White BK : Black

**90° Keystone Type Couplers**



<b>TA79</b>	<b>XX</b>	<b>-</b>	<b>5</b>	<b>X</b>
	58 : Cat.5e			U : Unshielded S : Shielded



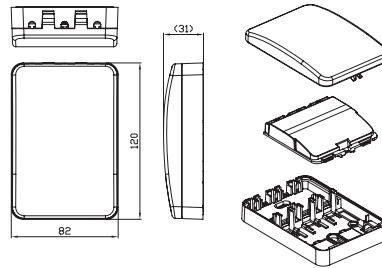
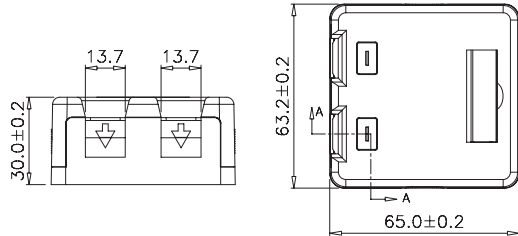
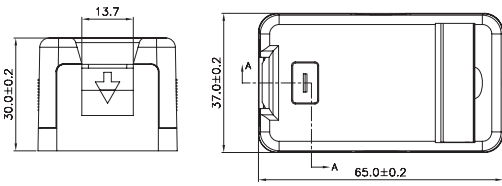
# Surface Mount Boxes

Ideal for surface mount applications, especially in confined spaces. Mount for either side or base entry of cables. Boxes come with mounting screws and adhesive tape, and a cable tie for strain relief. The snap-on cover enables easy closure or access for quick installation. Each box includes a write-on label and color icon for easy designation of different system or station.

- Snap-on Cover with Designation Areas — For color-coded icons/tabs and write-on labels
- Cable/Raceway Entry — Breakouts on different side and bottom
- Cable Tie Anchor Points — Facilitates strain relief for cable
- Optional Spring-loaded Shutter Door — Shutter door offer added protection from dust and other contaminants
- Conceals screw for security if desired

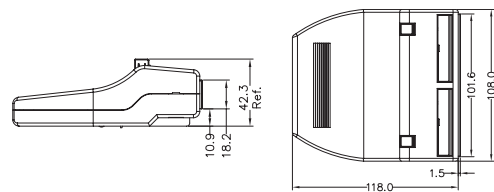


## Keystone Jack Boxes



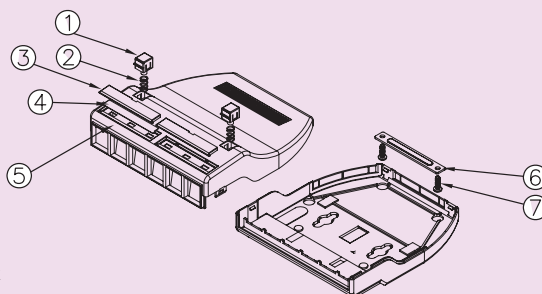
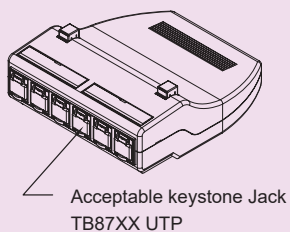
<b>SB</b>	<b>XX</b>	<b>XX</b>	-	<b>XX</b>
	11 : 1 port			
	12 : 2 ports	00 : Without keystone jack		WH : White
	13 : 3 ports			

## Pre-Net Cassette



<b>TA66</b>	<b>XX</b>	-	<b>XX</b>
6 ports	00 : Without keystone jack		WH : White

### TA6600 Pre-Net Cassette



1. Button
2. Spring
3. Lens
4. Name Sheet
5. Top Cover
6. Cable Holder
7. Tapping Screw

Assemble with PP24 patch panel, see page 16.

Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cablings Tools

Baluns

Telecom

Faceplates


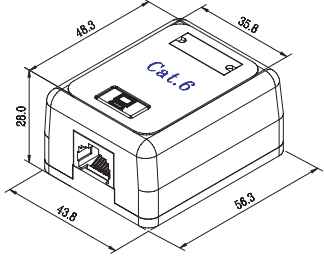

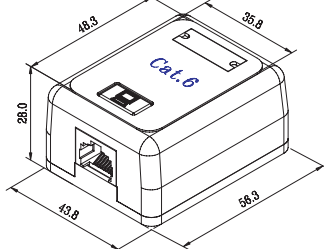

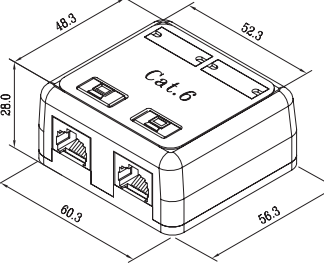

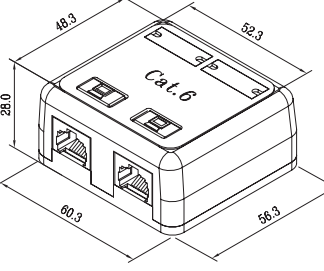

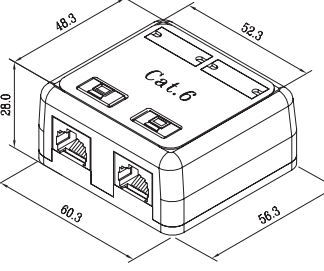

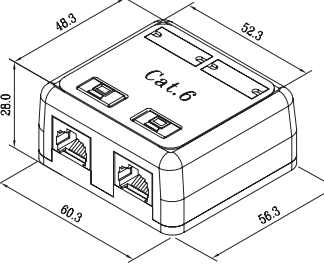

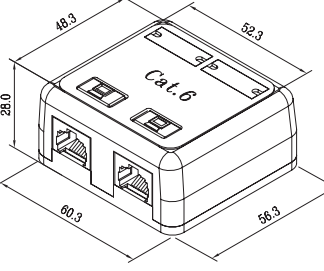
Modular Jacks

IDC

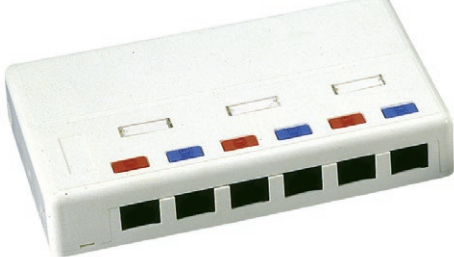
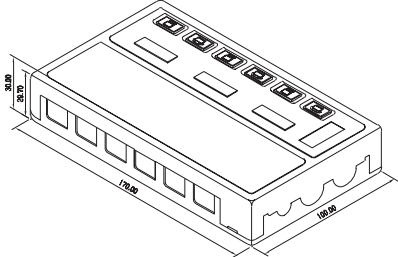
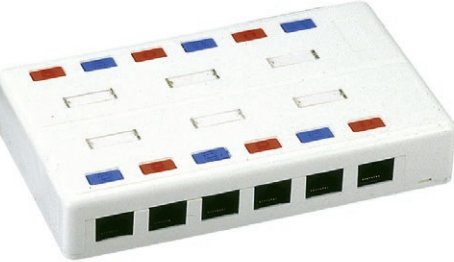
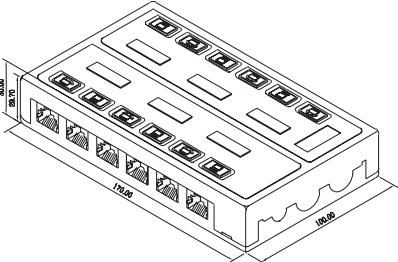
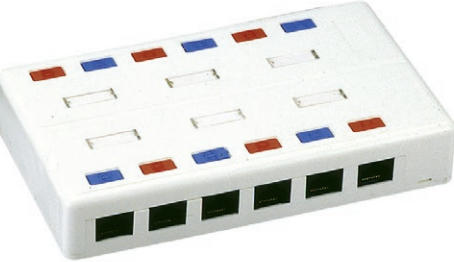
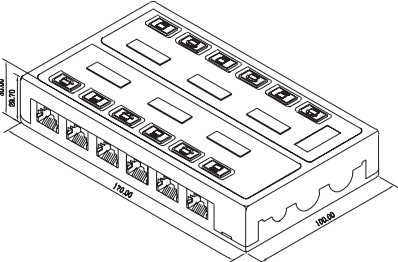
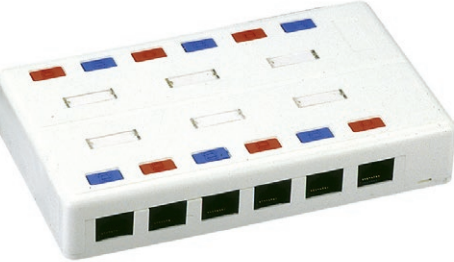
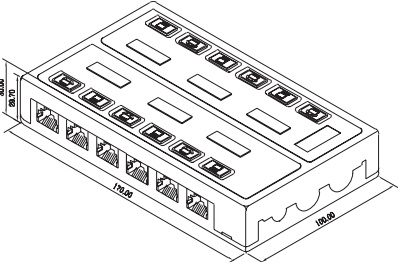
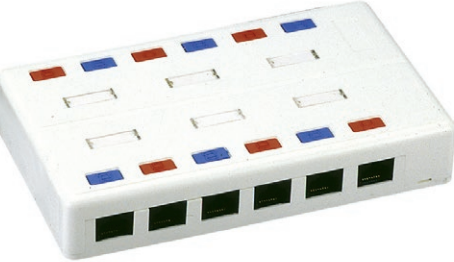
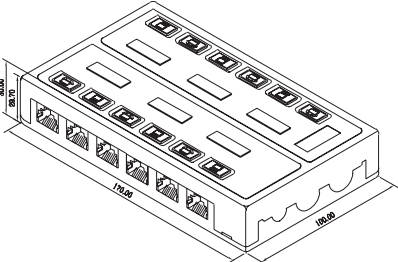
Media Converters

USB/HDMI

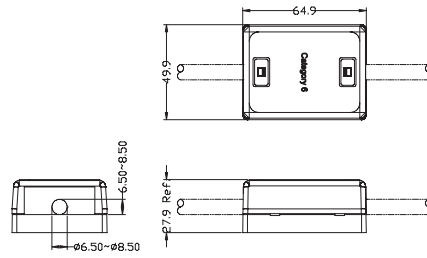
## Surface Mount Boxes

Outlets & Modules							
Patch Panels							
Modular Plugs & Patch Cords							
Adapters & Couplers							
Surface Mount Boxes							
Cabling Tools							
Baluns							
Telecom	TA6X	XX	X	X	-	(X)	XX
	1 : 1 port 2 : 2 ports	08 : 8P8C (RJ45) 00 : 10P10C	J : Unshielded K : Shielded	IDC block C : Dual type		6 : Cat.6 " " : Cat.5e	WH : White

## UTP Surface Mount Boxes

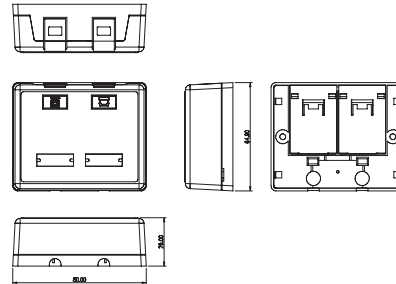
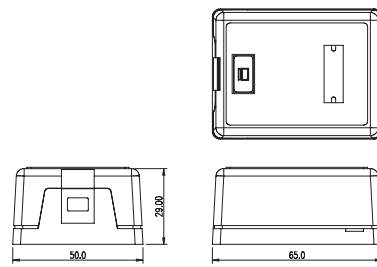
Faceplates							
Modular Jacks							
IDC							
Media Converters							
USB/HDMI							
	TA64	X	X	X	-	(X)	XX
		6 : 6 ports 2 : 12 ports	8 : 8P8C 0 : 10P10C	IDC block C : Dual type		6 : Cat.6 " " : Cat.5e	WH : White IV : Ivory

## IDC Box



<b>TA26</b>	<b>XX</b>	<b>XX</b>	<b>X</b>	-	<b>XX</b>
	66 : 6C 6C 68 : 6C 8C 88 : 8C 8C	U : Unshielded	C : Dual type		WH : White

## Keystone Jack Surface Mount Boxes



<b>TA8X</b>	<b>X</b>	<b>X</b>	<b>X</b>	-	<b>XX</b>
1 : 1 port 2 : 2 ports	0 : Without keystone jack	6 : 6P6C 8 : 8P8C 0 : 10P10C	U : Unshielded S : Shielded	K : Krone type IDC C : Dual type I : 110 type IDC 0 : Toolless keystone IDC	WH : White IV : Ivory GR : Grey



Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cablings Tools

Baluns

Telecom

Faceplates

Modular Jacks

IDC

Media Converters

USB/HDMI





# Cabling Tools

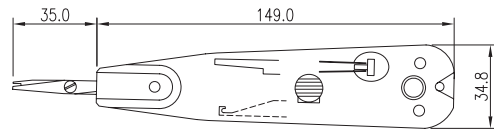
- Using the correct termination tool can increase your productivity by enabling you to install RJ45/RJ11 jacks many times faster.
- Punchdown tools increase accuracy and reliability, resulting in fewer reworks, which increases client confidence.
- Advanced punchdown tool includes the impact mechanism with consistent handle, internal spring machinery, and slotted blade. The combination of faster, more reliable terminations and less rework can reduce almost 80% of the installation effort.

## Keystone Jack Compression Tools

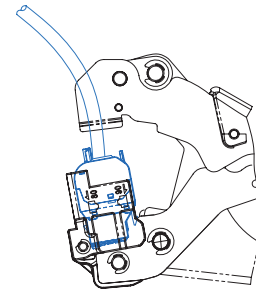
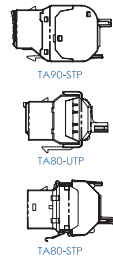


- Terminate wires on Krone IDC block
- Cutting wires

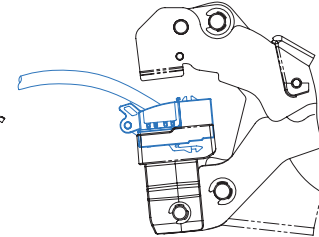
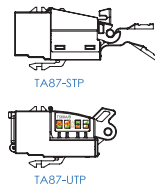
KT21



KT80 for keystone TB80/TB90/TB91

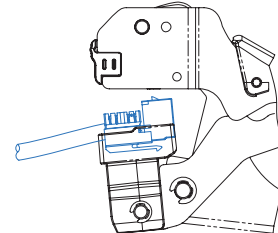
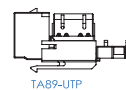


KT87 for keystone TB87

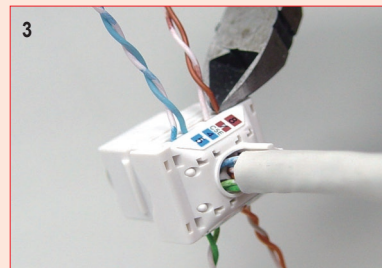
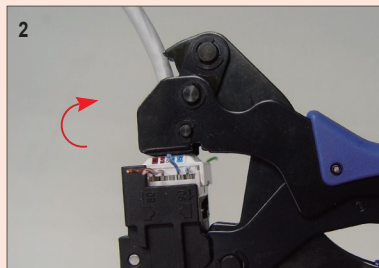
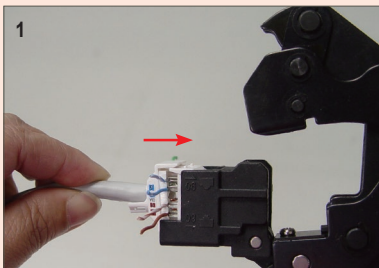


KT89 for keystone TA89

- With cutting wire function



\* Keystone Jack see page 6~10



Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cabling Tools

Baluns

Telecom

Faceplates

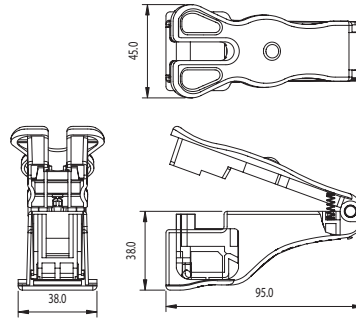
Modular Jacks

IDC

Media Converters

USB/HDMI

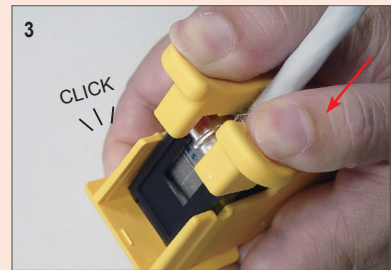
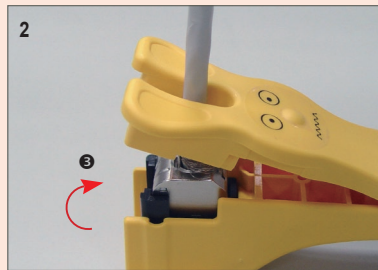
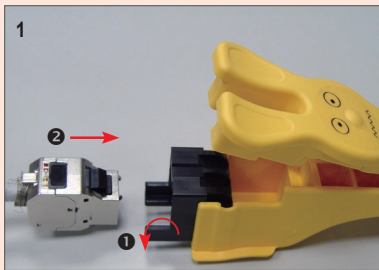
## Keystone Jack Hand Tool



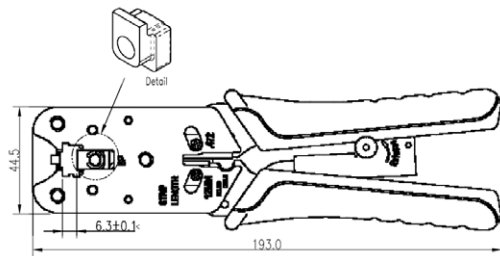
HT XX X 8

- 80 : For keystone TB80
- 87 : For keystone TB87
- 90 : For keystone TB90, TB91

\* Keystone Jack see page 6-10



## Unshielded Plug Crimping Tool



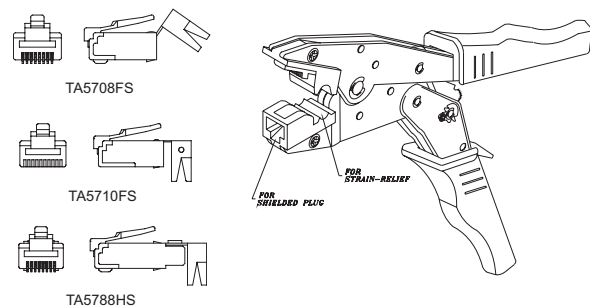
- Crimp the RJ45 plug
- Stripping cable
- Cutting wires

HT331X

For TA33 UTP plug

\* Plug TA33 UTP see page 20

## Multi-modular Crimping Tool For Shielded Plug



- Crimp the plug
- Strap the strain relief

TA58

XX

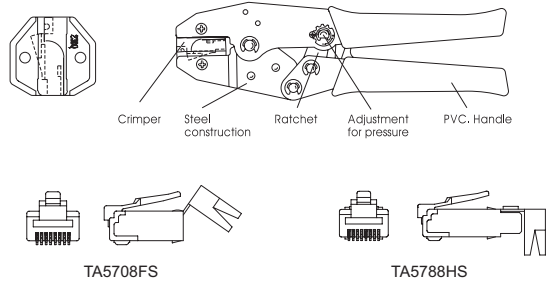
- 06 : 6P for TA5706FS
- 08 : 8P for TA5708FS, TA5788HS, TA3368DS
- 10 : 10P for TA5710FS



## Ratchet Modular Crimping Tool



- For crimping RJ-45 shielded plugs and strain-relief
- Length: 8.7" (220±5 mm)
- Frame: Made of 2.8mm thickness middle carbon steel.
- Hardness: HRC 42-48
- Frame: Black oxide finished.



TA28

XXX

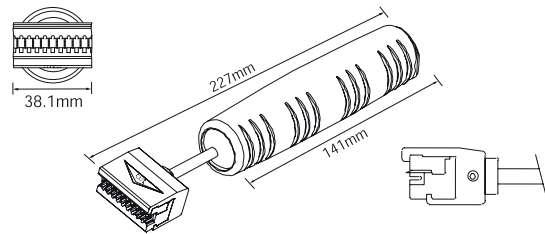
- 08F : For STP RJ45 plug
- 08H : For STP RJ45 plug (Hirose type)

## 5-pair 110 IDC Punchdown / Termination Tool



PDT5

- Terminate 22-24AWG solid and stranded wires
- Cutting wires

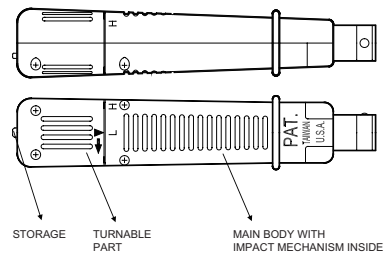


## 110 IDC Punchdown / Termination Tool



PDT110

- Terminate wires on 110 clips
- Cutting wires

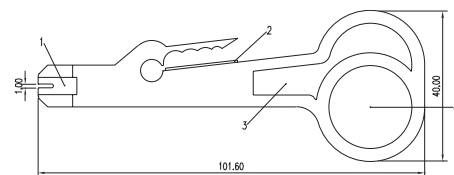


## Stripper Tool

- Stripping wires
- Terminate wires



TA4801



Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cabling Tools

Baluns

Telecom

Faceplates

Modular Jacks

IDC

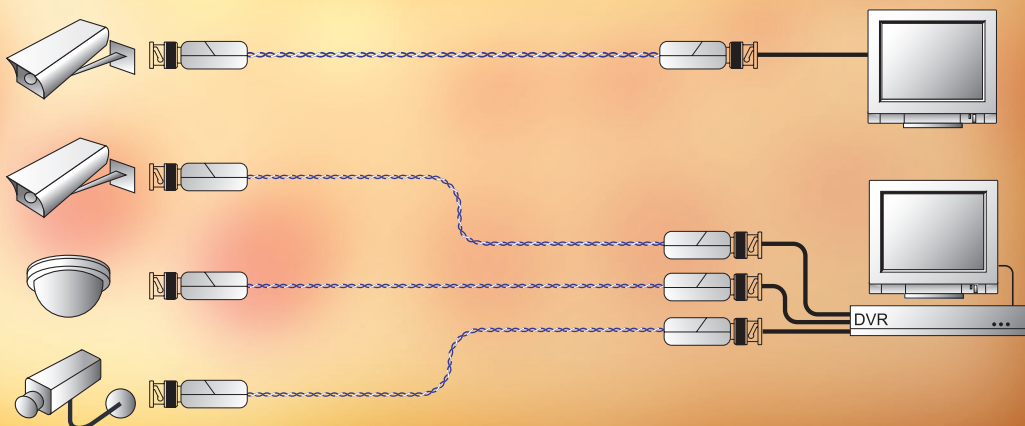
Media Converters

USB/HDMI



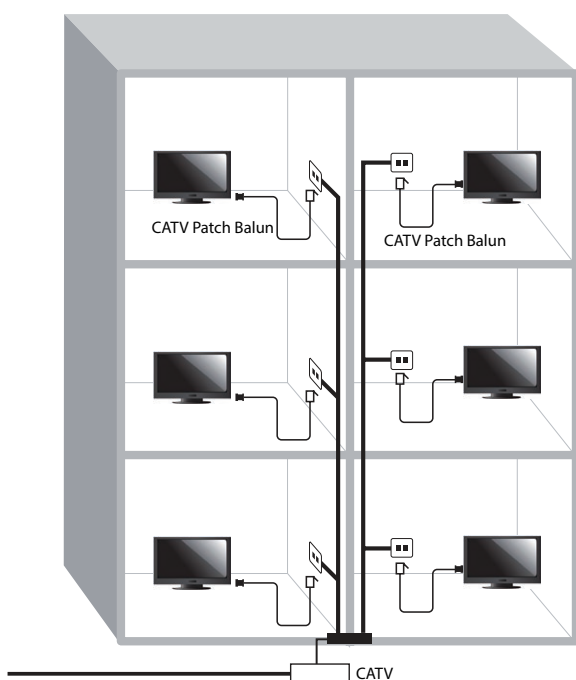
# Baluns

When network equipments and terminals are equipped with different type of cable and connectors. It makes the direct connection a problem. For example, using cable like coaxial, twinaxial, STP or UTP is not possible to terminate to different connectors like BNC, Twinaxial, or RJ45. Balun (Balanced-unbalanced) is created to match different cable impedance and connectors. A good Balun should be able to match the cabling system's impedance and attenuation, and minimize signal distortion.



## Balun Technical Data

	Video Balun	Video/Power/Data	Active Video Balun
<b>Specifications</b>			
Environment	Baseband video; NTSC, PAL, SECAM	Baseband video; NTSC, PAL, SECAM	
Devices	Close-circuit TV (CCTV) cameras , monitors, switchers, sequencers, multiplexers, digital video recorders (DVR) and other CCTV equipments.	Close-circuit TV (CCTV) cameras , monitors, switchers, sequencers, multiplexers, digital video recorders (DVR) and other CCTV equipments.	Active
<b>Technical Specifications</b>			
Bandwidth	DC to 8 MHz.	DC to 8 MHz.	Gain at 0 dB:110 MHz, Gain at 12 dB:30 MHz
Impedance	Input: 75 ohms (BNC); Output: 100 ohms (Toolless Connector)	Input: 75 ohms (BNC); Output: 100 ohms (RJ45)	Coax cable: 75 ohm UTP cable: 100 ohm
Maximum Input	1.1Vp-p	1.1Vp-p	
Insertion Loss	<1 dB, Frequency range from DC to 8 MHz range from DC to 8 MHz	<1 dB, Frequency range from DC to 8 MHz	
Return Loss	-20dB, Frequency range from DC to 8 MHz from DC to 8 MHz	-20dB, Frequency range from DC to 8 MHz	
Common Mode Rejection	-50dB, Frequency range from DC to 8 MHz	-50dB, Frequency range from DC to 8 MHz	
Max. Distance - Colour	Cat.3 -1,200 ft (365m); Cat.5e - 2,200 ft (670m)	Cat.3 -1,200 ft (365m); Cat.5e - 2,200 ft (670m)	
Max. Distance - Black & White	Cat.3 -1,500 ft (457m); Cat.5e - 2,500 ft (762m)	Cat.3 -1,500 ft (457m); Cat.5e - 2,500 ft (762m)	
<b>Mechanical &amp; Environmental</b>			
Cable – UTP	24 AWG or lower solid copper twisted pair wire impedance: 100 ohms at 1 MHz Maximum capacitance: 20 pf/foot. Attenuation: 6.6 dB/1000 ft at 1 MHz	24 AWG or lower solid copper twisted pair wire impedance: 100 ohms at 1 MHz Maximum capacitance: 20 pf/foot. Attenuation: 6.6 dB/1000 ft at 1 MHz	UTP 24 AWG solid copper wire, Cat.5e or better Balanced, 100 ohm Attenuation: 75 ohm to 100 ohm about 0.4 dB
Cable – Coax	Impedance: 75 Ω at 1 MHz. (RG59/U). Max. 25 ft. of coax allowed end to end.	Impedance: 75 Ω at 1 MHz. (RG59/U). Max. 25 ft. of coax allowed end to end.	Unbalanced, 75 ohm
Connectors	(BNC) Male ; Output: toolless connector	(BNC) Male ; Output: RJ45	BNC Male, BNC Female
Temperature	Operating: 0° to 55°C. Storage:-20° to 85°C.	Operating: 0° to 55°C. Storage:-20° to 85°C.	Operating: 0° to 55°C. Storage:-20° to 85°C.
Enclosure	Fire retardant plastic	Fire retardant plastic	Fire retardant plastic



Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cabling Tools

**Baluns**

Telecom

Faceplates

Modular Jacks

IDC

Media Converters

USB/HDMI



## CCTV Passive Flip-Top Toolless Video Baluns

Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cablings Tools

Baluns

Telecom

Faceplates

Modular Jacks

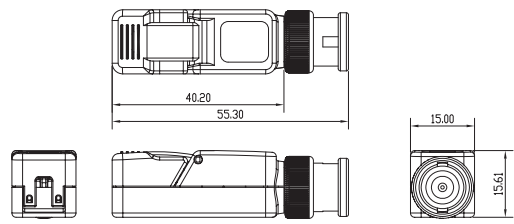
IDC

Media Converters

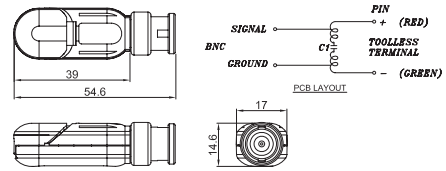
USB/HDMI



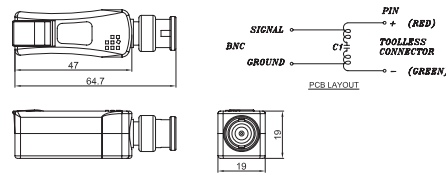
BL3235



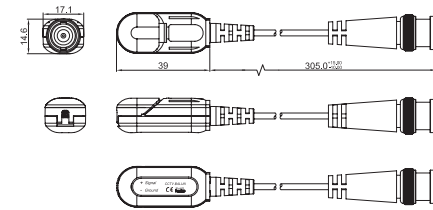
BL3295



BL3285



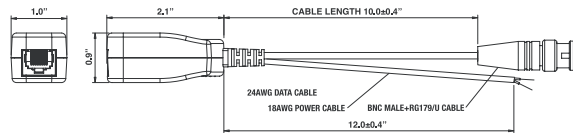
BL3395



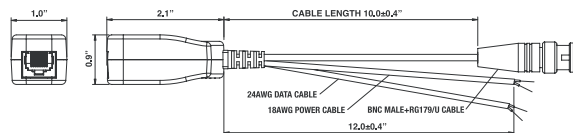
## Passive Single Channel Video Transceivers



BL3315-4 Passive video/power transceiver



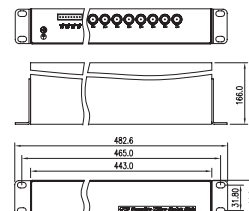
BL3315-5 Passive video/power/data transceiver



## Passive Video Transceiver Hub 16-port (with surge protection)



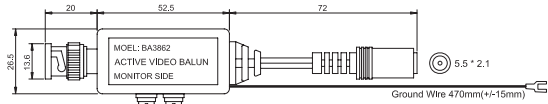
PH1621



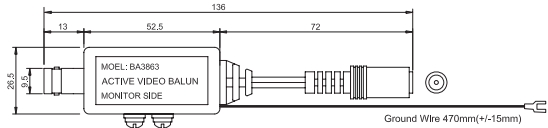
## Active CCTV Video Baluns



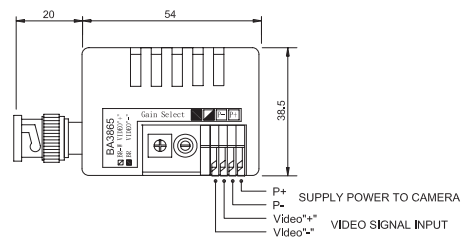
**BA3862 (BNC Male)**



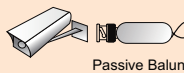
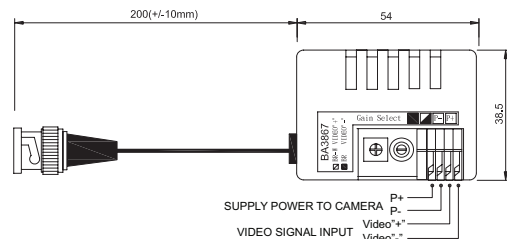
**BA3863 (BNC Female)**



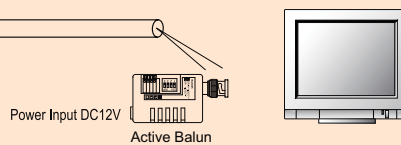
**BA3865**



**BA3867**



Passive Balun

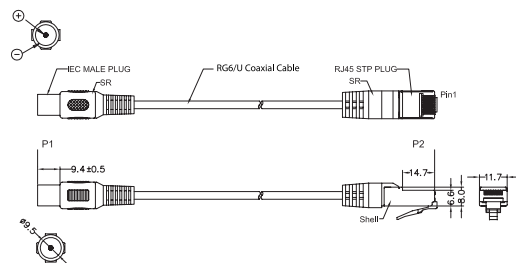


Active Balun

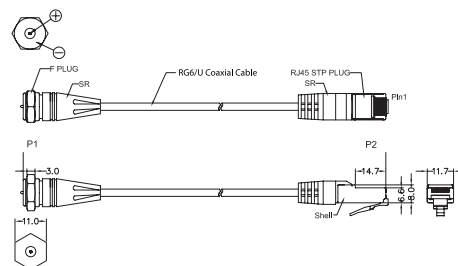
## CATV Patch Baluns



**TR11XXX-WH RJ45 STP plug to IEC male connector**



**TR21XXX-WH RJ45 STP plug to F male connector**



Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cabling Tools

Baluns

Telecom

Faceplates

Modular Jacks

IDC

Media Converters

USB/HDMI



# Telecom

## **ADSL**

Plain Old Telephone Service (POTS) filter allows only voice signals to pass through to the subscriber's phone answering/fax machine and other analog devices while DATA signals pass onto the computer. DSL filter, "PHONE" line (pin 3&4) is conditioned and ADSL line (pin 2/5 & 3/4) is remained clear for DSL compatible devices.

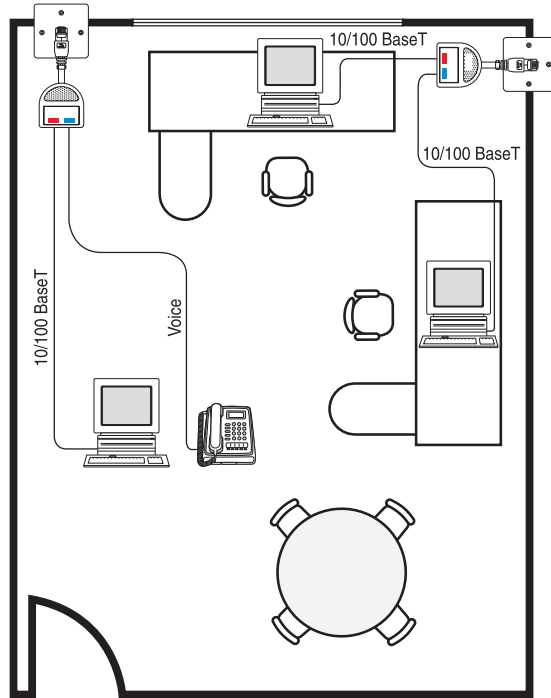
## **ISDN**

Integrated Services Digital Network (ISDN) is a type of circuit switched telephone network system, designed to allow digital transmission of voice and data over ordinary telephone copper wires, resulting in better quality and higher speeds than available with analog systems. More broadly, ISDN is a set of protocols for establishing and breaking circuit switched connections, and for advanced call features for the user.



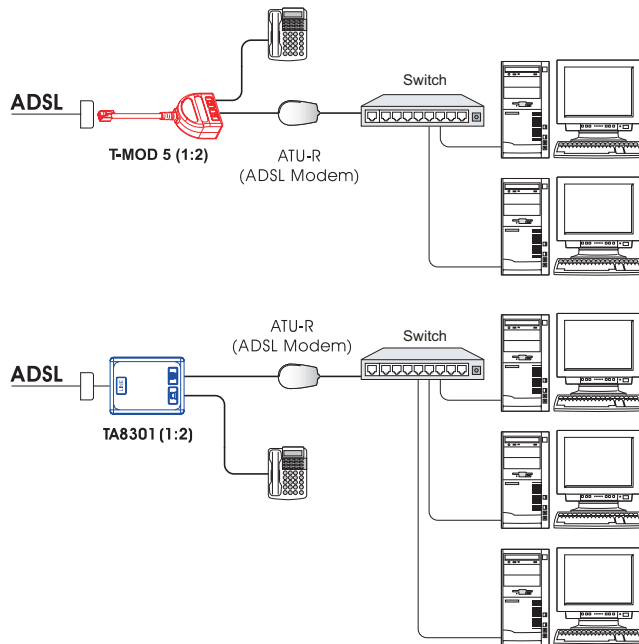
## ISDN Technical Data

Electrical Characteristics	
Current Rating	1.5 Amps
Insulation Resistance	500 MΩ minimum
Contact Resistance	20 mΩ maximum
DC Resistance	0.1 Ω maximum
Mechanical Characteristics	
Plug Insertion Life	750 cycles minimum
Plug & Jack Contact Force	100 grams
Plug Retention Force	30 lbs minimum
Temperature	-40°F to 150°F



## ADSL Technical Data

Electrical Characteristics	
Cutoff Point	3dB
Frequency	12KHz
Attenuation	20KHz: 9.0dB 40KHz: 20.0dB
Insertion Loss	200Hz to 4KHz: 0.5dB
Pass Band Ripple	200Hz to 4KHz: +/-0.5dB
D.C Resistance	4.0 ohms max
Return Loss	1KHz 600 ohms ref.: 27dB
Mechanical Characteristics	
Housing & Cover	ABS
Strain-relief	PVC
PCB	FR4
Jack	6P4C
Plug	6P4C



Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cabling Tools

Baluns

Telecom

Faceplates

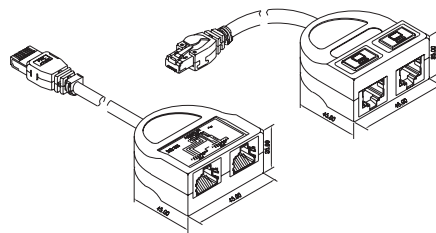
Modular Jacks

IDC

Media Converters

USB/HDMI

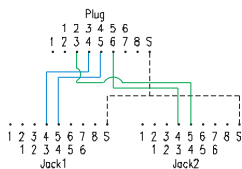
## T-MOD 3 Splitter for ISDN



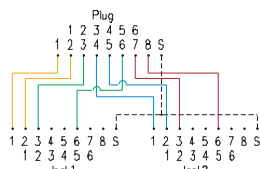
T-MOD 3	-	X	XX
		J : Unshielded K : Shielded	Wiring (as below)

## T-MOD 3 Wiring diagram

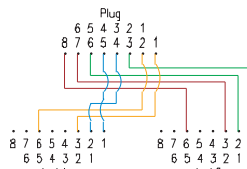
T-MOD3-J201 unshielded  
T-MOD3-K201 shielded



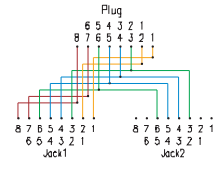
T-MOD3-J501 unshielded  
T-MOD3-K501 shielded



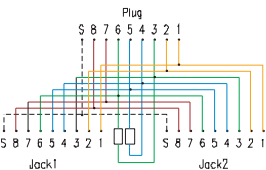
T-MOD3-J502 unshielded



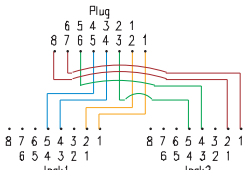
T-MOD3-J701 unshielded



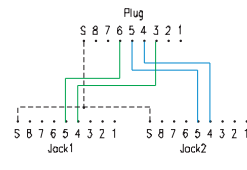
T-MOD3-K8 shielded



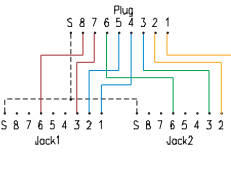
T-MOD3-J9 unshielded



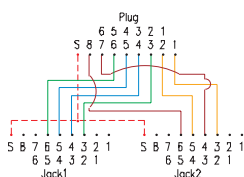
T-MOD3-K9 shielded



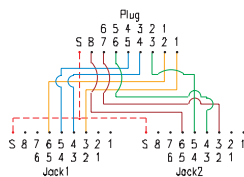
T-MOD3-K10 shielded



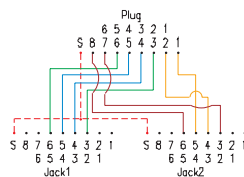
T-MOD3-J1 unshielded  
T-MOD3-K1 shielded



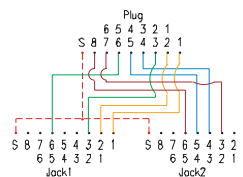
T-MOD3-J2 unshielded  
T-MOD3-K2 shielded



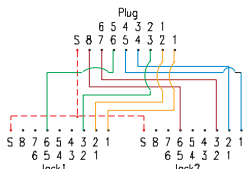
T-MOD3-J3 unshielded  
T-MOD3-K3 shielded



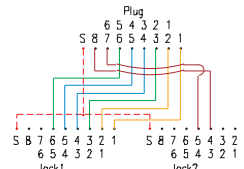
T-MOD3-J4 unshielded  
T-MOD3-K4 shielded



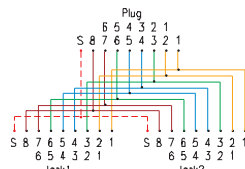
T-MOD3-J5 unshielded  
T-MOD3-K5 shielded



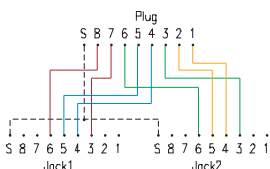
T-MOD3-J6 unshielded  
T-MOD3-K6 shielded



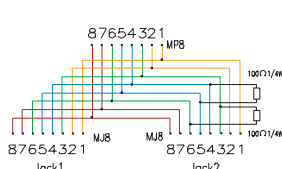
T-MOD3-J7 unshielded  
T-MOD3-K7 shielded



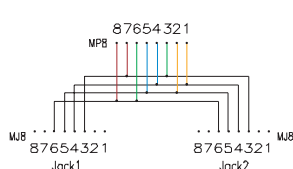
T-MOD3-K11 shielded



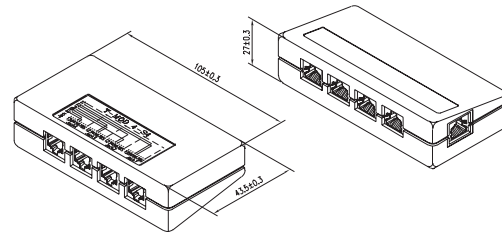
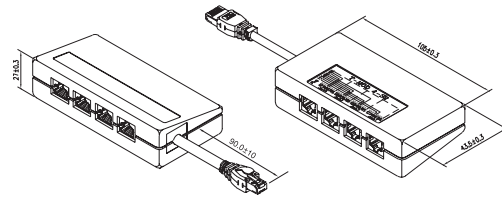
T-MOD3-J11 unshielded



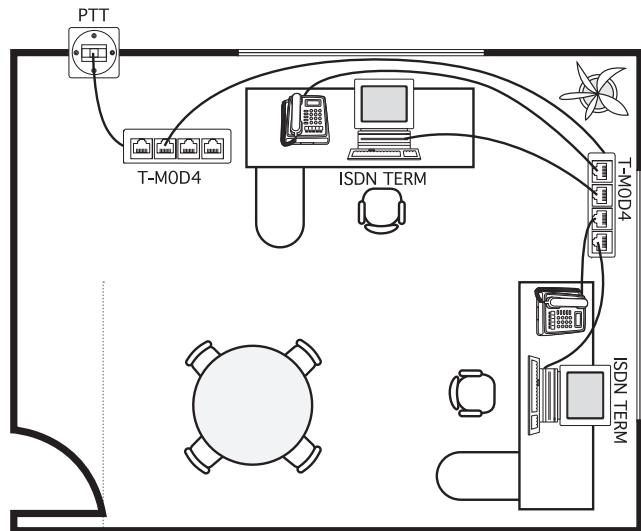
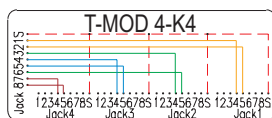
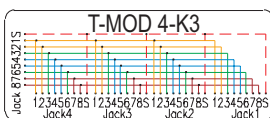
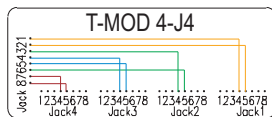
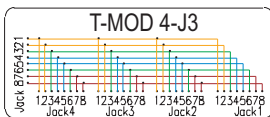
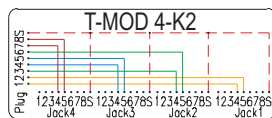
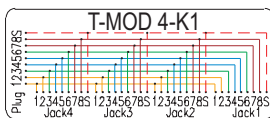
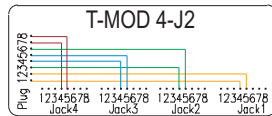
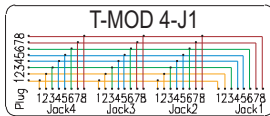
T-MOD3-J13 unshielded



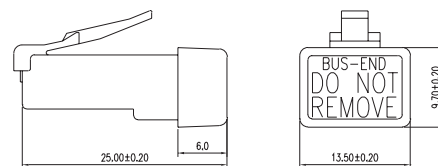
## T-MOD 4 Compact Boxes



<b>T-MOD 4</b>	-	<b>X</b>	<b>X</b>	<b>XX</b>
		<b>J</b> : Unshielded	1 : 8C with side-entry cable 2 : 2C with side-entry cable 3 : 8C without cable 4 : 2C without cable	<b>GR</b> : Grey
		<b>K</b> : Shielded		



## ISDN Terminator



### TA27T

ISDN terminator active pin 3-6 and 4-5

Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cablings Tools

Baluns

Telecom

Faceplates

Modular Jacks

IDC

Media Converters

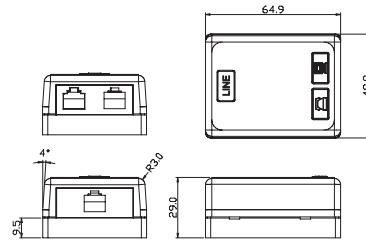
USB/HDMI



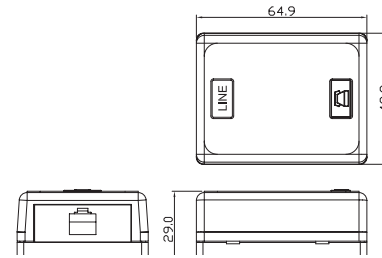
## ADSL Microfilter Splitter Boxes



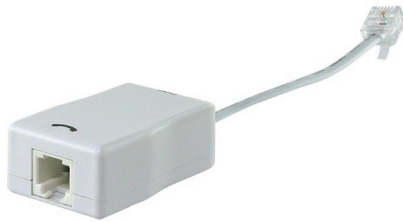
**TA8301** RJ11x1 to RJ11x2



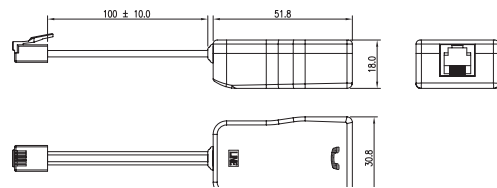
**TA8311** RJ11x1 to RJ11x1



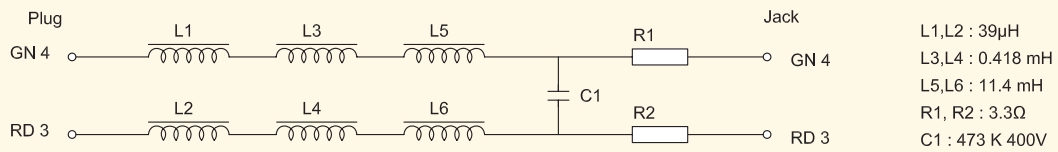
## ADSL/PSTN Filter



**T-MOD 8 - 11UWH**



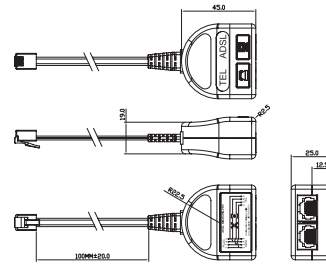
### T-MOD8-XX ADSL/PSTN Filter



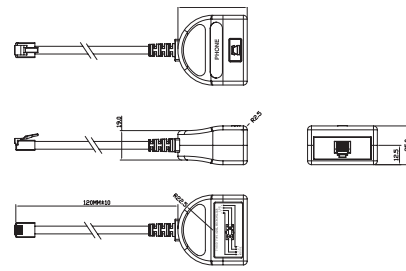
## ADSL Splitter



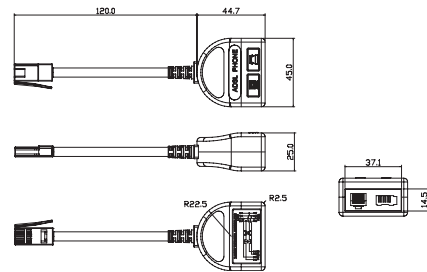
T-MOD 5-01 RJ11x2 to RJ11 splitter for ADSL



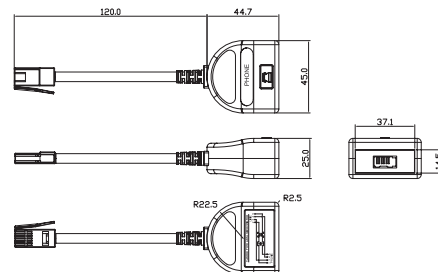
T-MOD 5-11 RJ11 to RJ11 filter for DSL phone



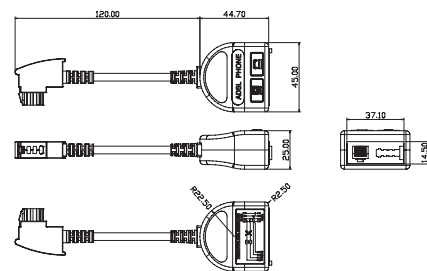
T-MOD 5-02 RJ11+BT to BT splitter for ADSL



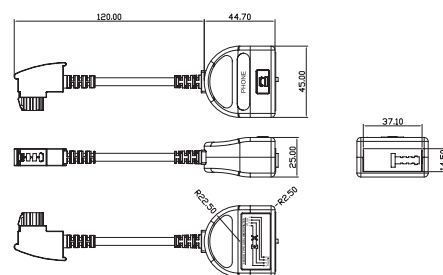
T-MOD 5-22 BT filter for DSL phone



T-MOD 5-03 TAE to RJ11+TAE splitter for ADSL



T-MOD 5-33 TAE filter for DSL phone



Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cabling Tools

Baluns

Telecom

Faceplates

Modular Jacks

IDC

Media Converters

USB/HDMI



# Faceplates

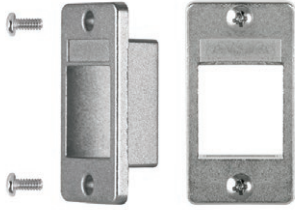
Telebox faceplates hold many combinations of keystone type connectors in a simple, stylish interface that mounts to any wall. This solution offers a variety of connectors that snap into the plate for easy installation and a nice, clean look. The available ports are RJ45 for Ethernet CAT5e, CAT.6, and CAT.6A, RJ11 for telephones, F81 for Coaxial, and Blank Insert.

## Faceplates Technical Data

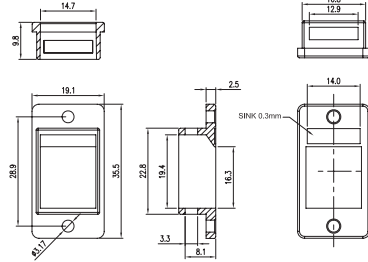
	USA	British	French
Mechanical Characteristics			
Dimensions: Single gang	70x114 mm	86x86 mm	81x81 mm
Dimensions: Double gang	114x114 mm	86x146mm	
Center plate: Single gang		50x50mm	45x45mm
Material	ABS, UL94V-0 / Stainless	ABS, UL94V-0	ABS, UL94V-0
Temperature	-40°F to 150°F	-40°F to 150°F	-40°F to 150°F
Faceplate Type	Flat	Flat / Angle	Flat / Angle



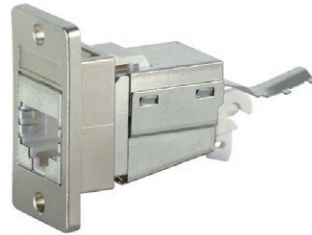
**RJ45 Die-Casting Flange Kits**



FG01

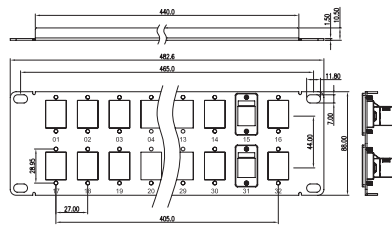
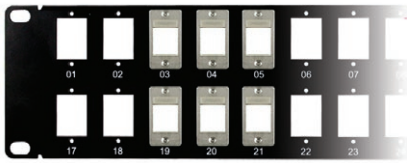


FG02



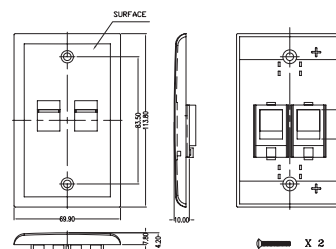
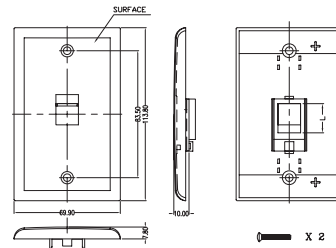
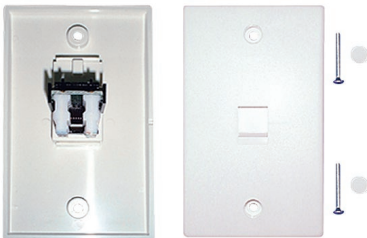
FG03

**Die-Casting Flange Kits with Patch Panel**



FG	XX	XX	XX	-	XX
	04 : Flange+ Panel	01 : 1U 16 ports	01 : with logo printing		BK : Black
	05 : Blank Panel	02 : 2U 32 ports	02 : without logo printing		WH : White

**USA Type Faceplates with Shutter**



TA518	X	-	XX
	1 : 1 port		WH : White
	2 : 2 ports		IV : Ivory
	4 : 4 ports		

Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cablings Tools

Baluns

Telecom

Faceplates

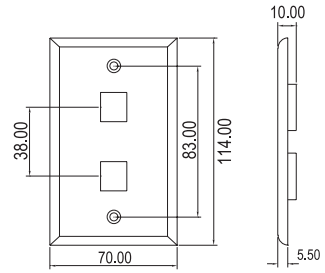
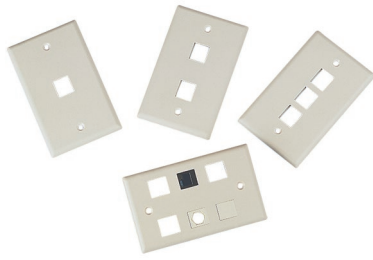
Modular Jacks

IDC

Media Converters

USB/HDMI

### USA Type Faceplates (70x114mm)

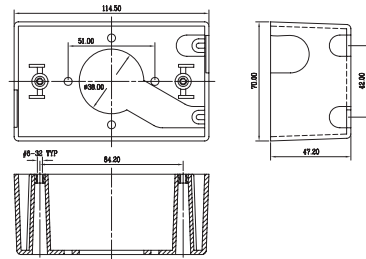
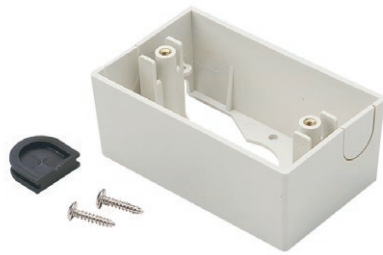


TA3700 - X XX

- B : Blank Insert
- 1 : 1 port
- 2 : 2 ports
- 3 : 3 ports
- 4 : 4 ports
- 6 : 6 ports

- WH : White
- IV : Ivory

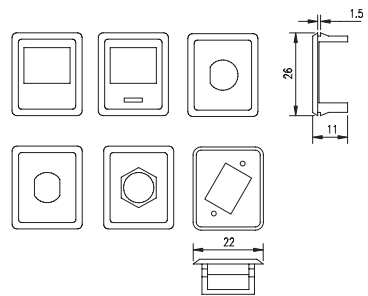
### USA Type Back Box



TA4709 - XX

- WH : White

### Color Frames (22x26mm)

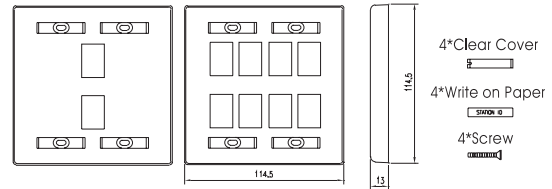
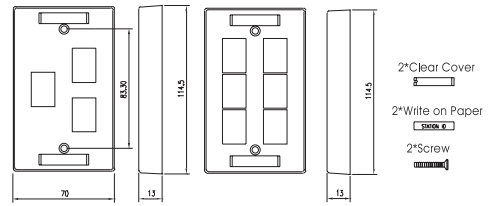


TA550 X - XX

- 0 : Blank
- 1 : for Keystone Jack
- 2 : for keystone Jack and SNAP-in icon
- 3 : for BNC or TNC
- 4 : for ST fiber coupler
- 5 : for TV coupler
- 6 : for SC adapter
- 7 : for Keystone Jack (22x30mm)

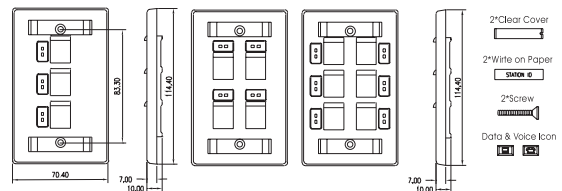
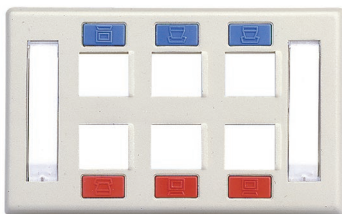
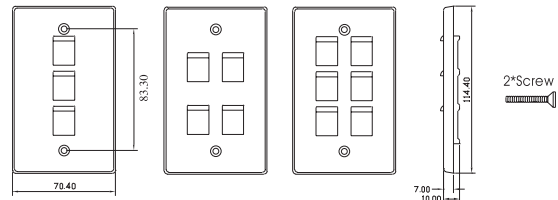
- WH : White
- BK : Black
- RD : Red
- YL : Yellow
- BL : Blue
- GR : Grey

## USA Type Faceplates



TA55	X	X	-	XX
	1 : Single Gang 2 : Double Gang	0 : Blank 2 : 2 ports 3 : 3 ports 6 : 6 ports 8 : 8 ports		WH : White IV : Ivory

## USA Type Faceplates



TA68	X	X	-	XX
	0 : without icon 1 : with icon	1 : 1 port 2 : 2 ports 3 : 3 ports 4 : 4 ports 6 : 6 ports		WH : White IV : Ivory

Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cabling Tools

Baluns

Telecom

Faceplates

Modular Jacks

IDC

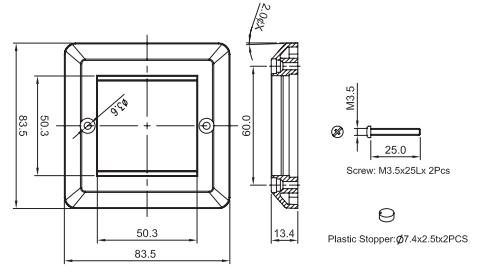
Media Converters

USB/HDMI

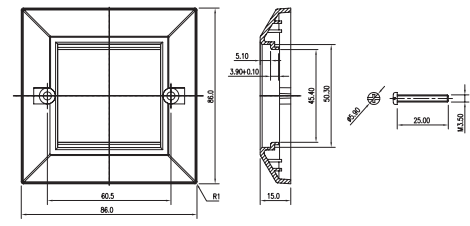
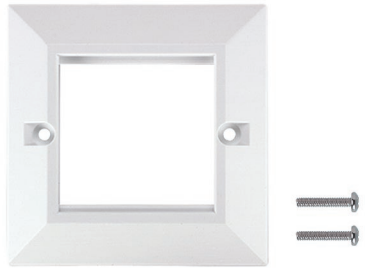


## British Type Faceplates

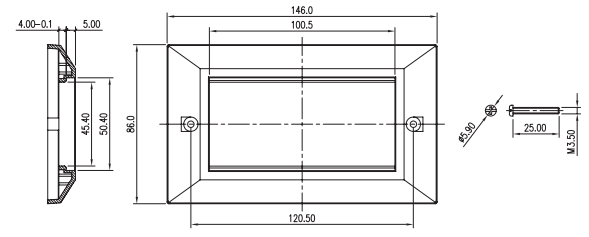
- Outlets & Modules
- Patch Panels
- Modular Plugs & Patch Cords
- Adapters & Couplers
- Surface Mount Boxes
- Cabling Tools
- Baluns
- Telecom



TA5105-2WH05



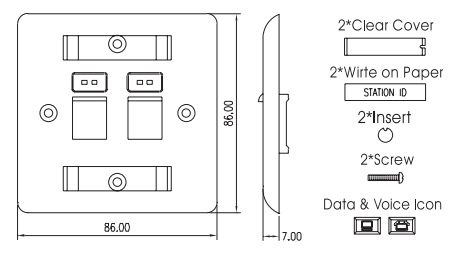
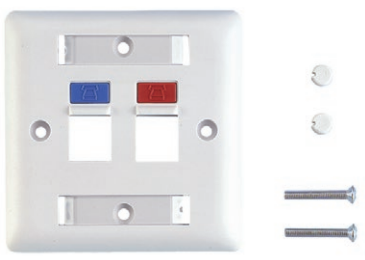
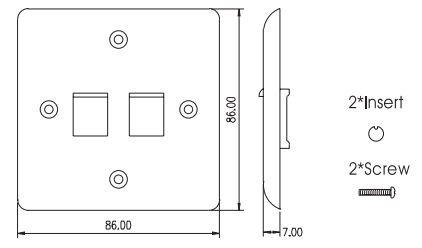
TA5105-2WH



TA5105-4WH

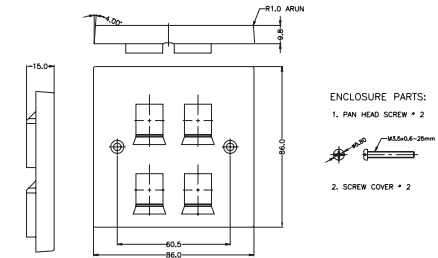
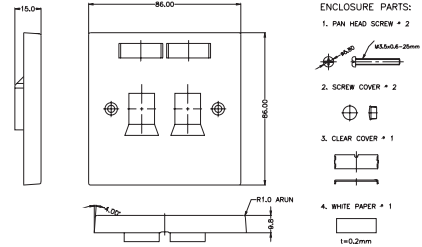
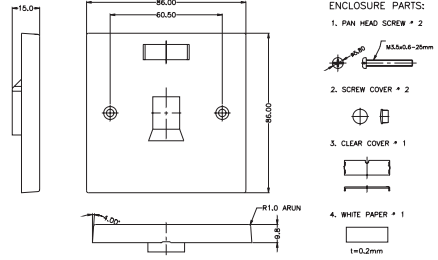
## British Type Faceplates

- Faceplates
- Modular Jacks
- IDC
- Media Converters
- USB/HDMI



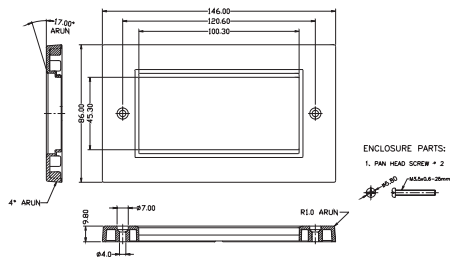
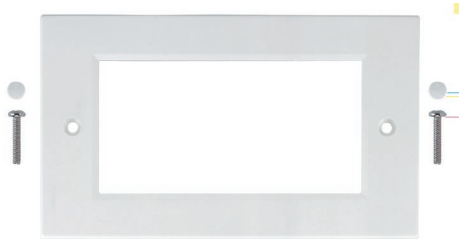
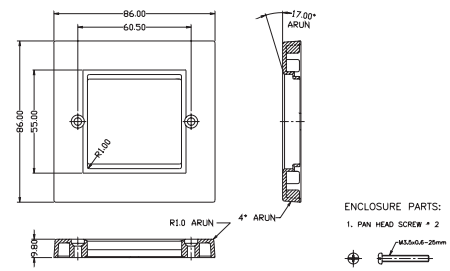
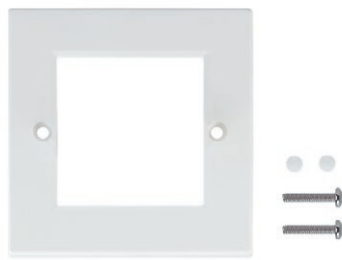
TA51	X	X	-	XX
	3 : without icon 4 : with icon	1 : 1 port 2 : 2 ports		WH : White

## British Type Faceplates



<b>TA515</b>	<b>X</b>	<b>-</b>	<b>XX</b>
	1 : 1 port		
	2 : 2 ports		WH : White
	4 : 4 ports		

## British Type Flat Faceplates



<b>TA516</b>	<b>X</b>	<b>-</b>	<b>XX</b>
	2 : 1 Gang (86x86 mm)		
	4 : 2 Gangs (86x146 mm)		WH : White

Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cabling Tools

Baluns

Telecom

Faceplates

Modular Jacks

IDC

Media Converters

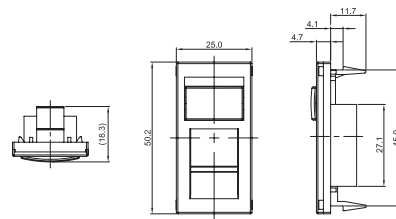
USB/HDMI

### British Type 45° Frames



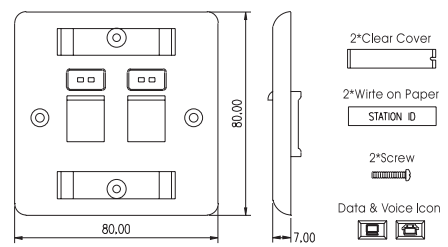
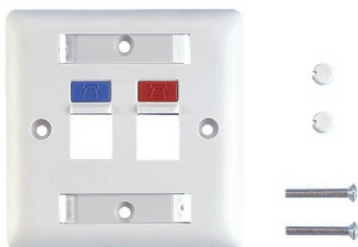
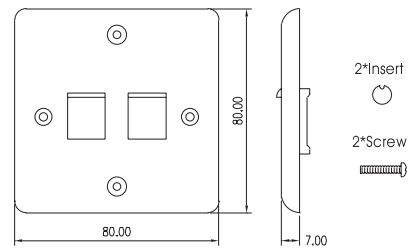
<b>TA516</b>	<b>X</b>	-	<b>XX</b>
	A : RJ45 Jack w/o icon B : RJ45 Jack with icon C : SC w/o icon D : SC with icon E : ST w/o icon F : ST with icon X : Blank		WH : White

### British Type Keystone Frame (25x50mm)



<b>TA23XA</b>	-	<b>XX</b>
		WH : White

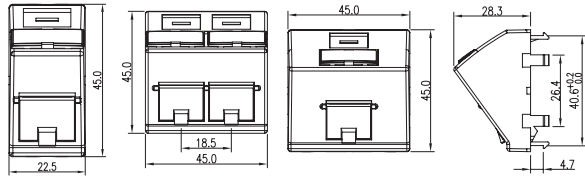
### French Type Faceplates



<b>TA51</b>	<b>X</b>	<b>X</b>	-	<b>XX</b>
	1 : without icon 2 : with icon	1 : 1 port 2 : 2 ports		WH : White

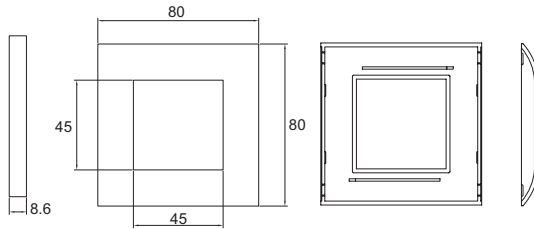
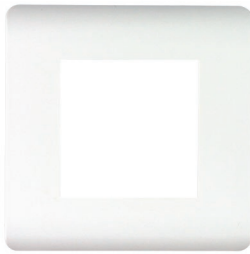


### French Module Angle Frames

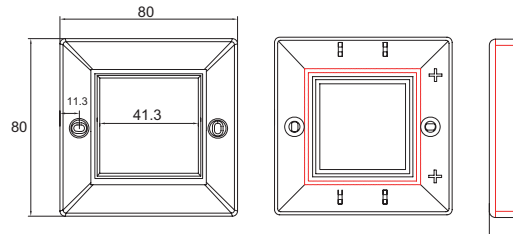


<b>TA517X</b>	<b>X</b>	<b>-</b>	<b>XX</b>
	6 : 1G1P		
	7 : 2G1P		WH : White
	8 : 2G2P		

### French Type Faceplates (80x80mm)

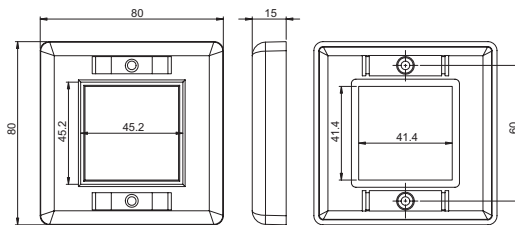


TA52201-WH



TA52202-WH

### French Type Faceplate (80x80mm)



<b>TA517</b>	<b>X</b>	<b>-</b>	<b>XX</b>
	1 : Blank		WH : White
	2 : with station ID		GN : Green
			RD : Red
			YL : Yellow

Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cabling Tools

Baluns

Telecom

Faceplates

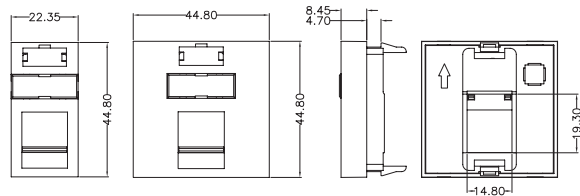
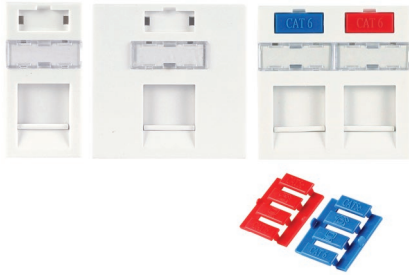
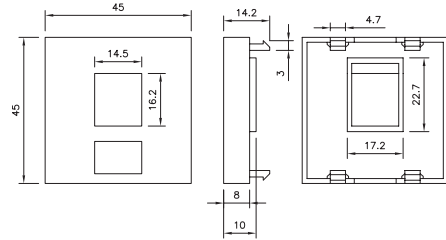
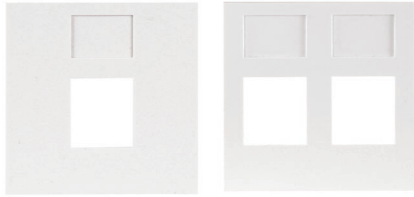
Modular Jacks

IDC

Media Converters

USB/HDMI

## French Type Center Plates



TA523 X - XX

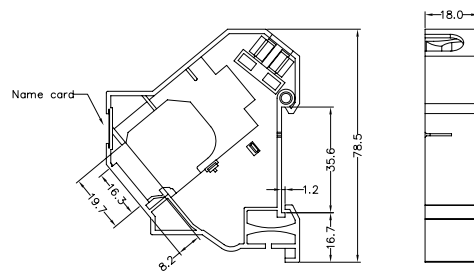
- 00 : 1/2 Cover plate (45x22.5mm)
- 01 : 1 port w/o icon (45x45mm)
- 02 : 2 ports w/o icon (45x45mm)
- 03 : 1 port with red icon (45x45mm)
- 04 : 2 ports with red icon (45x45mm)
- 05 : 1 port with blue icon (45x45mm)
- 06 : 2 ports with blue icon (45x45mm)
- 07 : 1/2 port with red icon (45x22.5mm)
- 08 : 1/2 port with blue icon (45x22.5mm)

WH : White

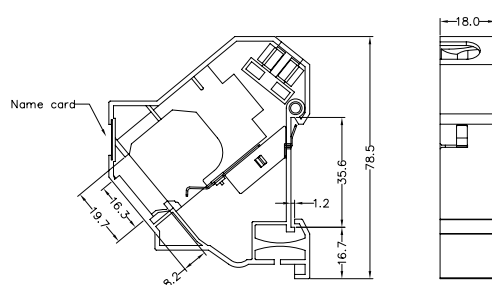
## DIN Rail Adapter



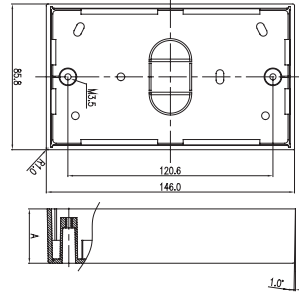
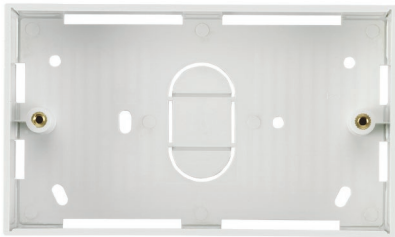
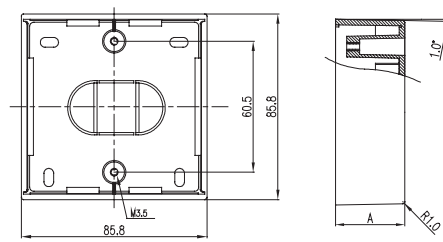
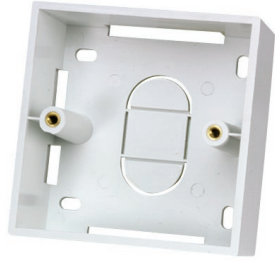
**DR0101U-GR** for UTP keystone jack



**DR0101S-GR** for STP keystone jack



## British Type Back Boxes



TA521      X                      X (H)                      -                      XX

5 : 86x86 mm

7 : 86x146 mm

A : 27 mm

B : 32 mm

C : 37 mm

D : 42 mm

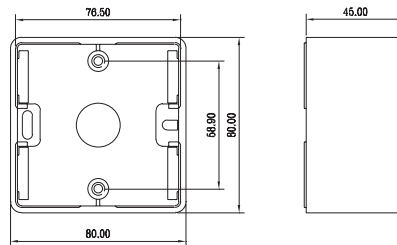
WH : White

IV : Ivory

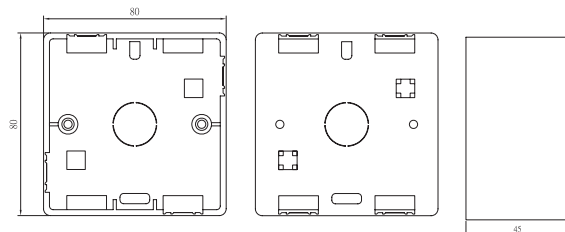
## French Type Back Boxes



TA5203-WH for faceplate TA5171-WH, TA5172-WH



TA5204-WH for faceplate TA52201-WH, TA52202-WH



Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cabling Tools

Baluns

Telecom

Faceplates

Modular Jacks

IDC

Media Converters

USB/HDMI



# Modular Jacks

Telebox provides a cost effective solution for applications requiring multiple ports. Modular jack RJ45 housings have eight contact positions for mating to TIA568 compliant cables. Jacks can be specified for Category 3/4, Category 5e, Category 6, or Category 6A transmission performance. Unshielded and Shielded modular jacks are available with panel flanges on top and on both sides for effective grounding.



Technical Data		
	STP	UTP
<b>Transmission Characteristics</b>		
Cat.6	Screened Cat.6/Class E Permanent Link and Channel performance ANSI/TIA-568-C.2-1 IEC 60603-7-5 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition	Unscreened Cat.6/Class E Permanent Link and Channel performance ANSI/TIA-568-C.2-1 IEC 60603-7-4 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition
Cat.5e	Screened Cat.5e/Class D Permanent Link and Channel performance ANSI/TIA-568-C.2 IEC 60603-7-3 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition	Unscreened Cat.5e/Class D Permanent Link and Channel performance ANSI/TIA-568-C.2 IEC 60603-7-2 ISO/IEC 11801 2nd Edition EN 50173 2nd Edition
<b>Electrical Characteristics</b>		
Current Rating	1.5 Amps	1.5 Amps
Insulation Resistance	500 MΩ Min.	500 MΩ Min.
Contact Resistance	20 mΩ Max.	20 mΩ Max.
DC Resistance	0.1 Ω Max.	0.1 Ω Max.
<b>Mechanical Characteristics</b>		
Plug Insertion Life	750 Cycles Min.	750 Cycles Min.
Plug & Jack Contact Force	100 Grams Min.	100 Grams Min.
Plug Retention Force	30 lbs Min.	30 lbs Min.
Temperature	-40°F to 150°F	-40°F to 150°F
<b>Physicals Characteristics</b>		
Shielding Housing	Stainless steel 0.25mm thickness	
Material	High impact flame retardant plastic	High impact flame retardant plastic
Angle	180° / 90° / 45°	180° / 90° / 45°

Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cabling Tools

Baluns

Telecom

Faceplates

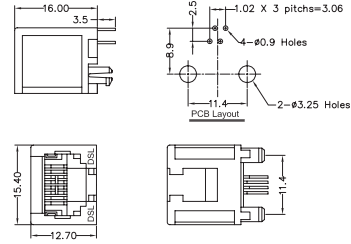
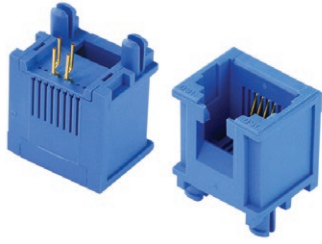
Modular Jacks

IDC

Media Converters

USB/HDMI

## Shorting Jack

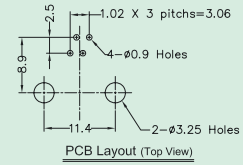
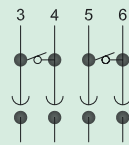


<b>SJ01</b>	<b>X</b>	<b>23</b>	<b>-</b>	<b>XX</b>
	D : 8P4C			
	E : 8P6C			BL : Blue
	F : 8P8C			

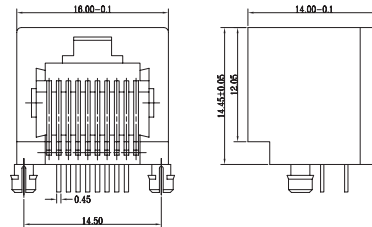
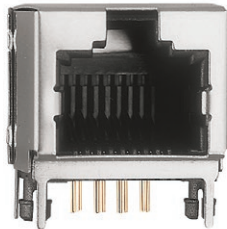
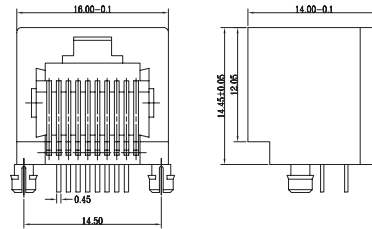
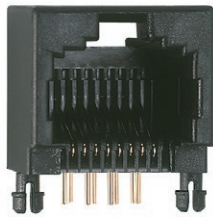
### Shorting Jack

The RJ45 shorting jack equips a wiring switch mechanism for different electrical circuitries in printed circuit board when RJ45 plug connects to or disconnects from this shorting jack.

Blue (Shorting)

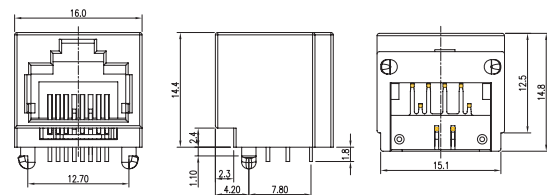


## Side Entry Jacks



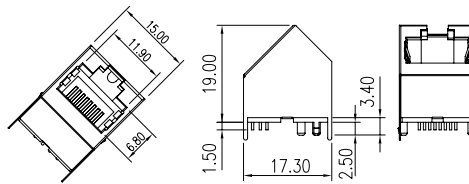
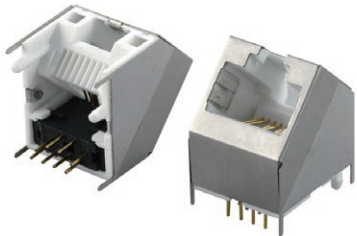
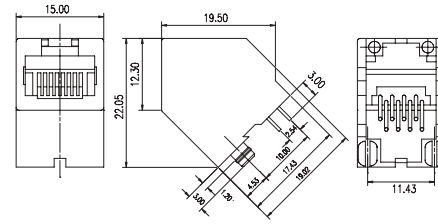
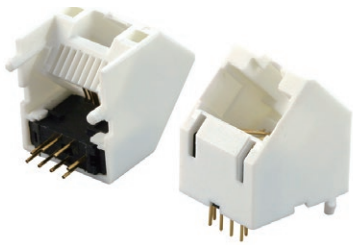
<b>MJ0546</b>	<b>-</b>	<b>XX</b>	<b>X</b>
		88 : 8P8C	S : Shielded
		00 : 10P10C	U : Unshielded

## High Freq. Reduced Crosstalk 90° PCB Jack



<b>MJ9128</b>	<b>-</b>	<b>XX</b>	<b>X</b>
		88 : 8P8C	U : Unshielded

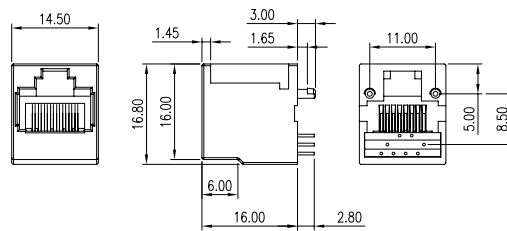
### Reduced Crosstalk 45° PCB Jacks



MJ7028 - XX X

88 : 8P8C  
U : Unshielded  
S : Shielded

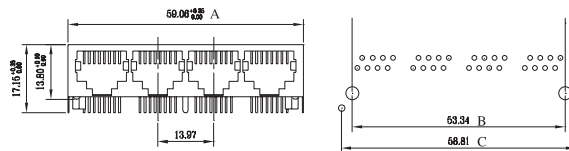
### Reduced Crosstalk 180° PCB Jack



MJ60X8 - XX X

1 : Cat.5e  
2 : Cat.6  
88 : 8P8C  
U : Unshielded

### RJ45 Gang Jacks



MJ0501 - X X

1 : 1 port  
2 : 2 ports  
3 : 3 ports  
S : Shielded

Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cablings Tools

Baluns

Telecom

Faceplates

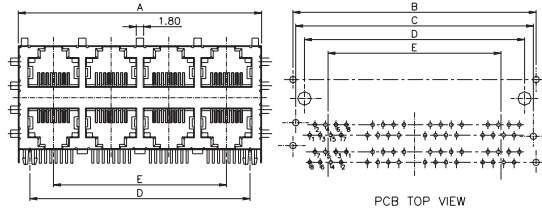
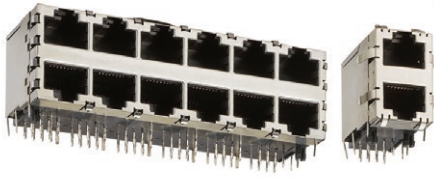
Modular Jacks

IDC

Media Converters

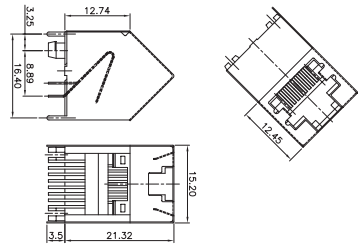
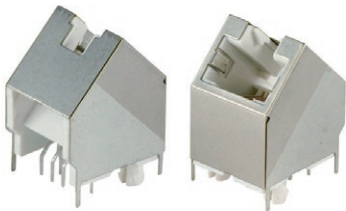
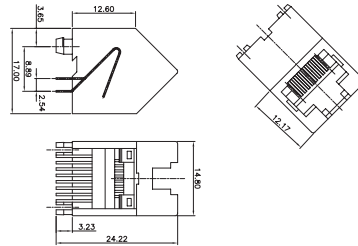
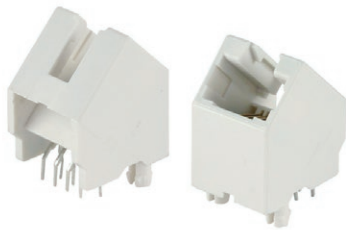
USB/HDMI

## RJ45 Two Rows Gang Jacks



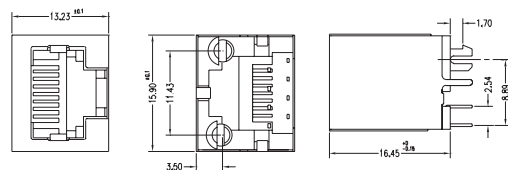
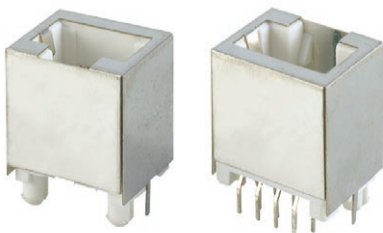
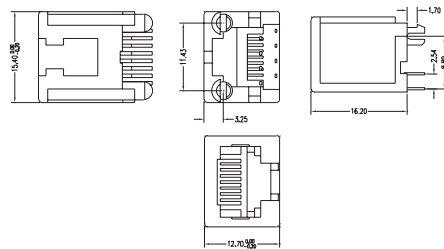
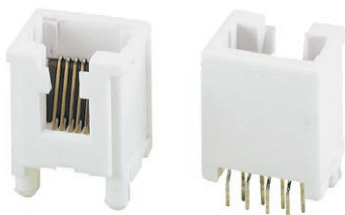
MJ0502	-	X	X
		2 : 2 ports	
		4 : 4 ports	
Cat.3		6 : 6 ports	S : Shielded
		⋮	

## 45° PCB Jacks



MJ0504	-	XX	X
		88 : 8P8C	S : Shielded
			U : Unshielded

## SMT Top Entry Jacks



MJ3017	-	XX	X
		88 : 8P8C	U : Unshielded
			S : Shielded

Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cabling Tools

Baluns

Telecom

Faceplates

Modular Jacks

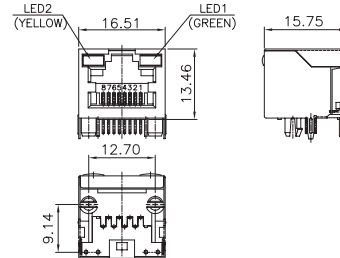
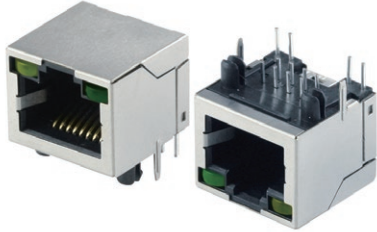
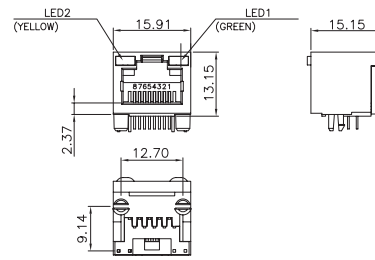
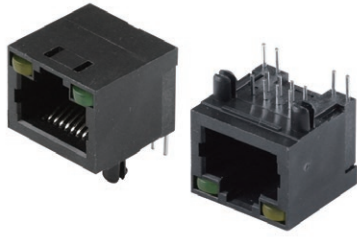
IDC

Media Converters

USB/HDMI

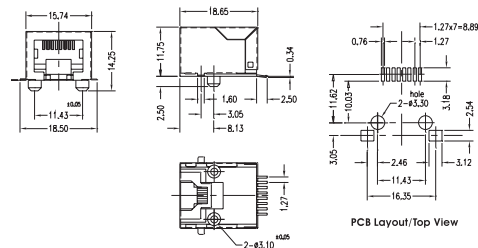
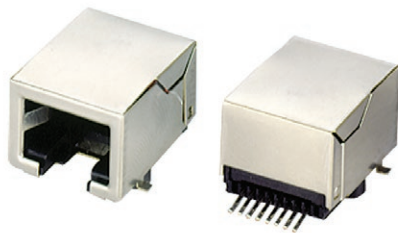
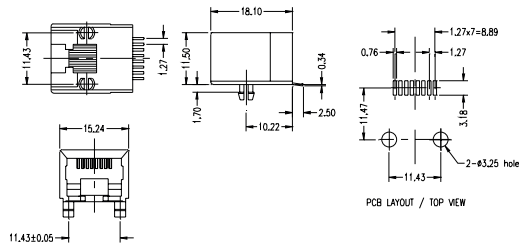
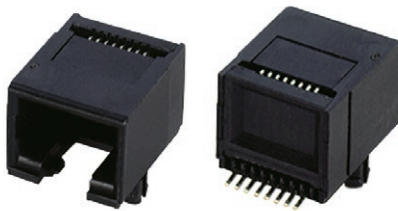


## STP Jacks With LED



MJ0505	-	XX	X
		88 : 8P8C	S : Shielded U : Unshielded

## SMT 90° Jacks



MJ3014	-	XX	X
		88 : 8P8C	U : Unshielded S : Shielded

Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cablings Tools

Baluns

Telecom

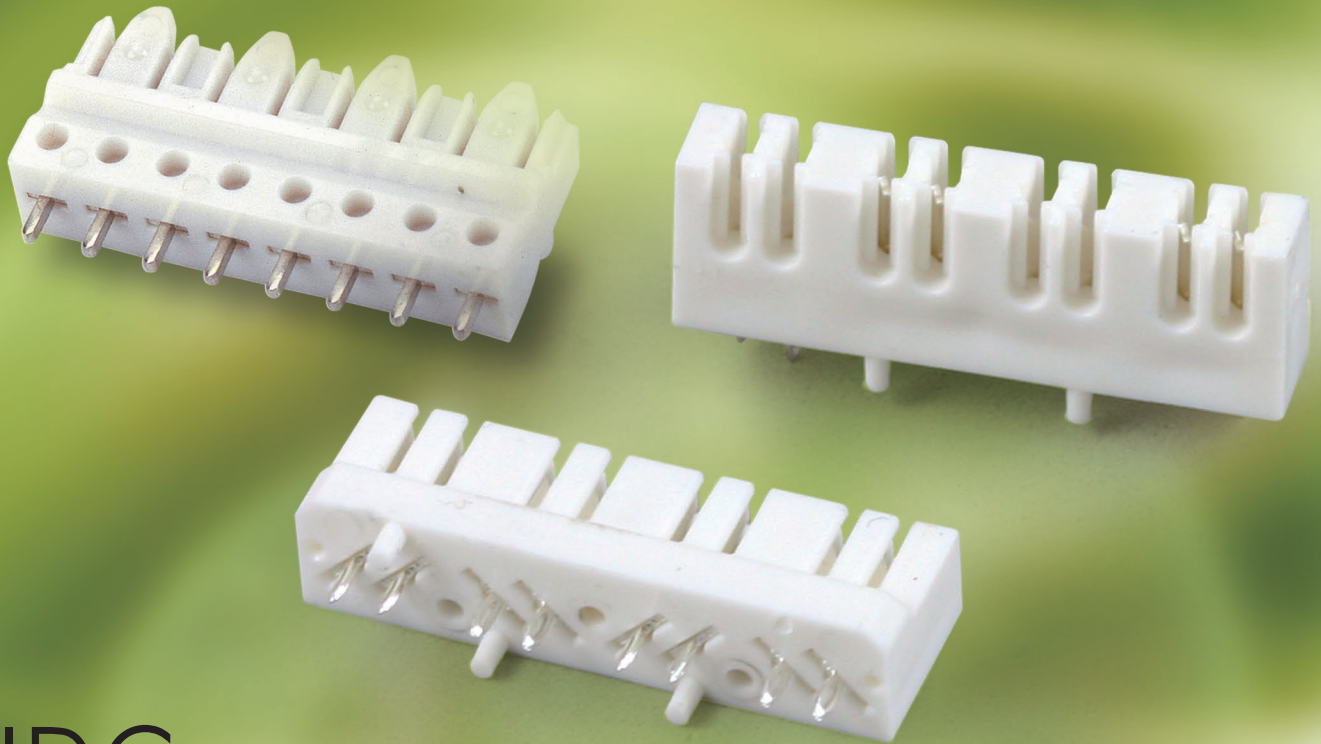
Faceplates

Modular Jacks

IDC

Media Converters

USB/HDMI



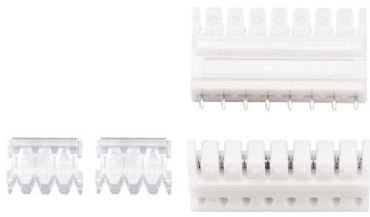
# IDC

For data & voice cross-connect applications, wiring blocks accommodate a range of conductor sizes from 23~26 AWG solid or stranded and are designed to exceed Category 6 specifications. They can be configured to build a cross-connect system for any application. Wiring blocks can be ordered with mounting legs for routing cable behind the block, or without legs where the space is limited.

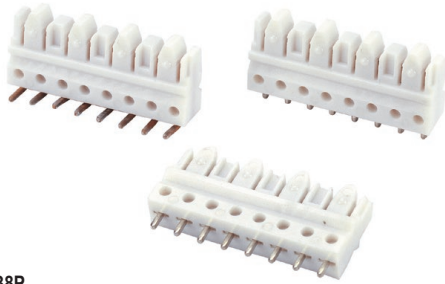
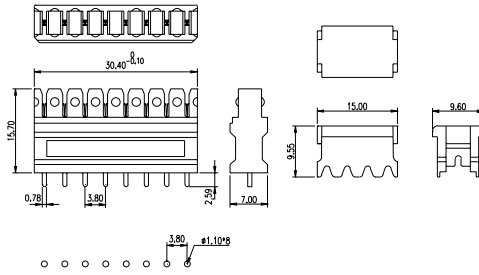
## IDC Technical Data

	110 IDC Type	Dual Type	LSA (Krone) Type
Physicals Characteristics			
Housing	Polycarbonate (PC)	Polycarbonate (PC)	Polycarbonate (PC)
Contact	Phosphor bronze, Tin plating	Phosphor bronze, Tin plating	Phosphor bronze, Tin plating
Cover	Polycarbonate (PC)	Polycarbonate (PC)	ABS UL 94V-0
IDC Accept (Solid wire)	#23~24 AWG	#23~24 AWG	#23~24 AWG
IDC Accept (Stranded wire)	#24~26 AWG	#24~26 AWG	#24~26 AWG
Pin	4P / 8P	4P / 5P / 8P	8P / 9P

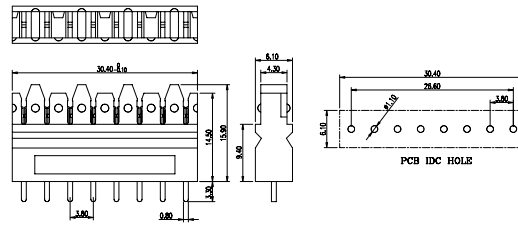
## 110 Type IDC



TA0528P-02 4 pins also available



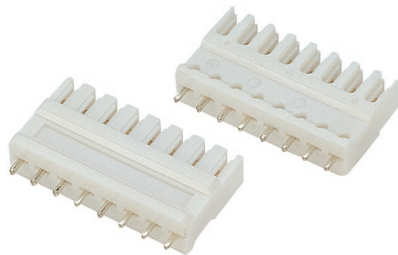
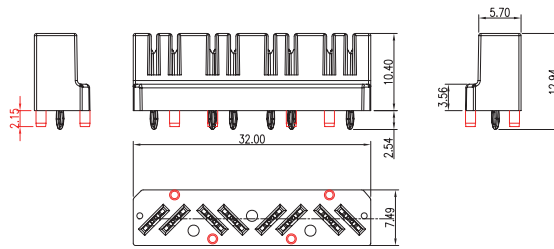
TA0538P



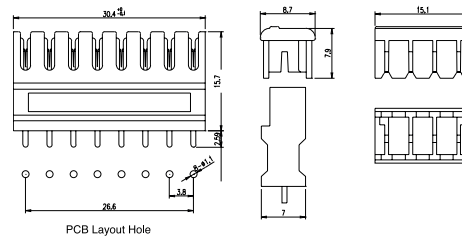
## Dual Type IDC



TA0588P-01 9 pins also available



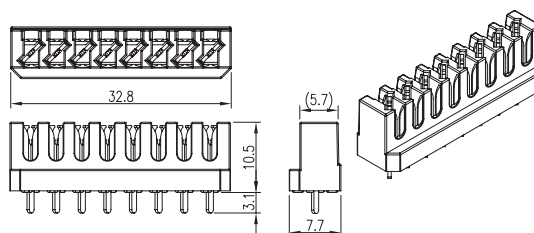
TA0518P-01



## LSA (Krone) Type IDC



TA0568P-03 4 pins also available



Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cablings Tools

Baluns

Telecom

Faceplates

Modular Jacks

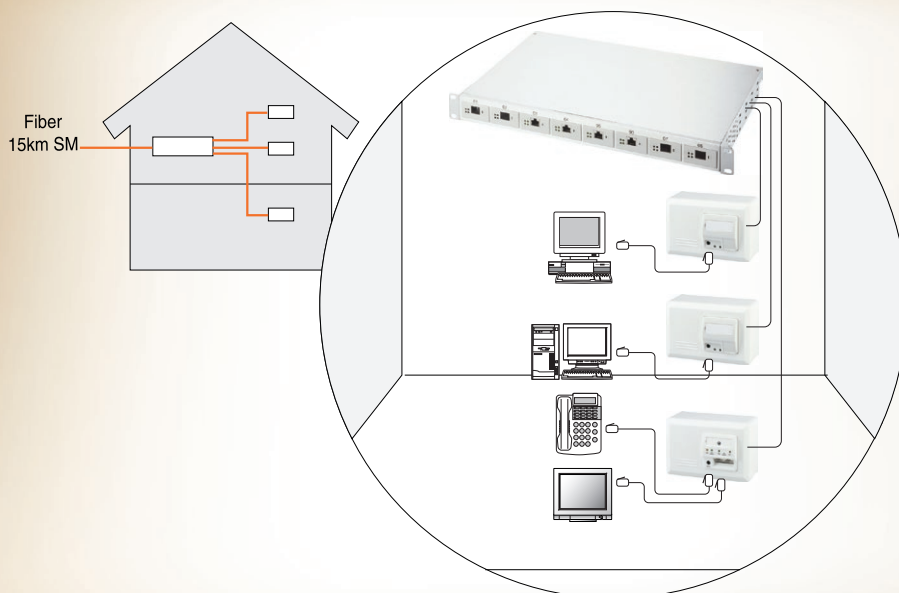
IDC

Media Converters

USB/HDMI



# Media Converters

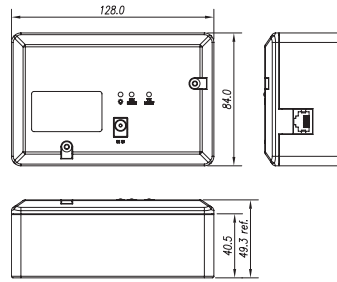




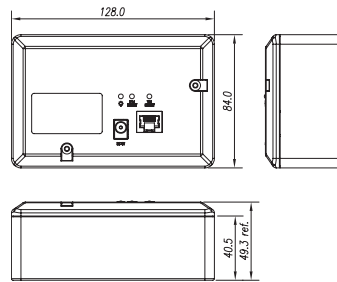
## 1.5U Converter Switches



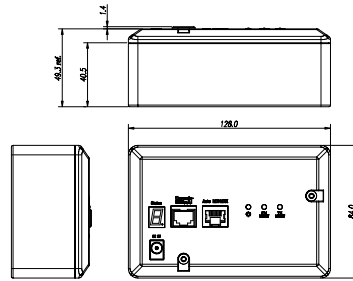
**FC13** 1P side-entry fiber 10/100M converter switch



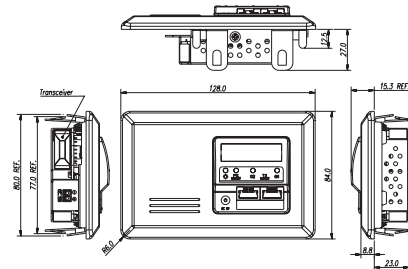
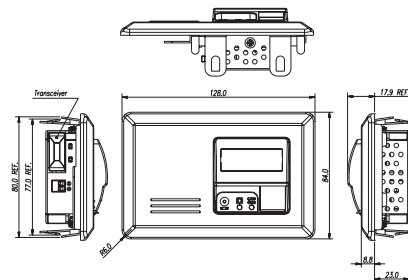
**FC15** 1P top-entry fiber 10/100M converter switch



**FC17** SNMP converter outlet



## 1.5U Fiber Converter Outlets



**FC**      **XX**      **XX**

- |                             |   |
|-----------------------------|---|
| 46 : 1 port<br>56 : 2 ports | 12 : SC, single mode 60km<br>22 : SC, Multi-mode<br>25 : MT-RJ, Multi-mode<br>26 : VF-45, Multi-mode<br>32 : SC, single mode 15km |
|-----------------------------|---|

Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cabling Tools

Baluns

Telecom

Faceplates

Modular Jacks

IDC

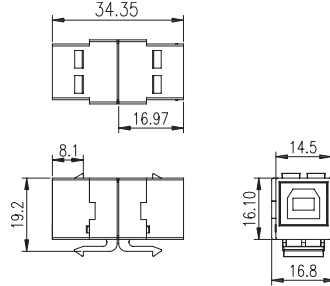
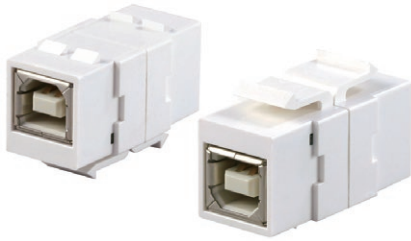
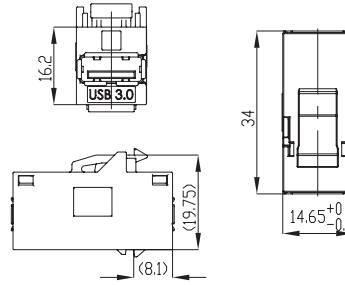
Media Converters

USB/HDMI



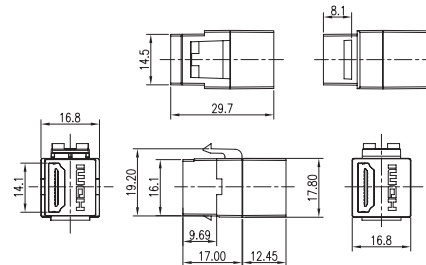
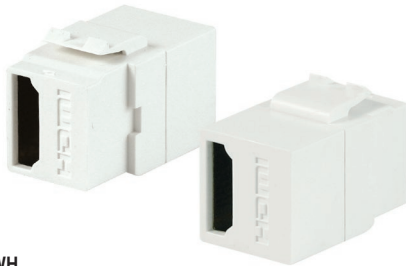
# USB/HDMI Series Modules

## USB Keystone Type Modules



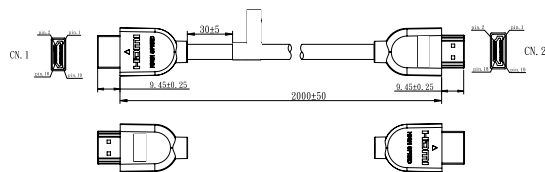
UB	X	X	X	XX (Angle)	-	XX
	1 : 2.0 A type 2 : 3.0 A type	2 : 34 mm	1 : A type 2 : B type 3 : Mini-A type 4 : Mini-B type 5 : Micro-A type 6 : Micro-B type	01 : 180° 02 : 90°		WH : White BK : Black

## HDMI Keystone Type Module

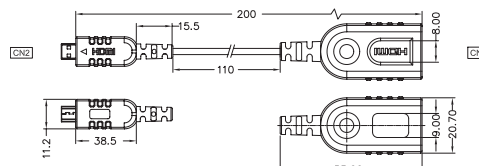


HD1101-WH

## HDMI Patch Cords



HDC11



HDJ11

Outlets & Modules

Patch Panels

Modular Plugs & Patch Cords

Adapters & Couplers

Surface Mount Boxes

Cabling Tools

Baluns

Telecom

Faceplates

Modular Jacks

IDC

Media Converters

USB/HDMI

# Premium Economy Series



**Telebox**

**Telebox Industries Corp.**  
**浩揚工業股份有限公司**

4F, No. 306 Tatung Road, Sec. 1, Hsichih-Taipei 22146, Taiwan

Tel : +886-2-26429337

Fax : +886-2-26425779

E-mail: sales@telebox.com

http ://www.telebox.com