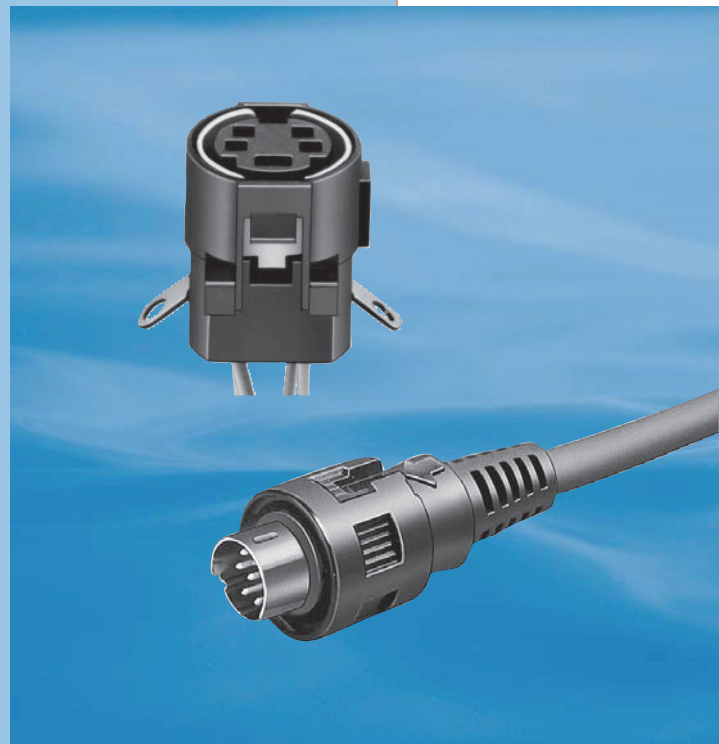


# Miniature Circular Connectors



Contents / Specifications .....	1
Arrangements / Specifications for Standard Cables .....	2
Product Lineup.....	3 - 5
Plugs & Sockets Mating Table .....	6
Moulded Type Straight Plugs .....	7 - 8
Moulded Type Right Angle Plugs .....	9
Assembly Type Right Angle Plugs .....	10
S-Video Cable.....	11
S-Video Sockets .....	12
Horizontal Sockets.....	13 - 18
Vertical Sockets .....	19 - 22
Chassis Mount Type Sockets.....	23
Sockets with Cable .....	24
Horizontal Sockets (Quick Lock Type) .....	25 - 26
Plugs (Quick Lock Type) .....	27
Sockets with Cable (Quick Lock Type).....	28
Sockets (Screw Lock Type).....	29
7P Connectors.....	30
9P Connectors.....	31
9P Plugs (Moulded Type).....	32
9P Sockets .....	33 - 34
10P Plugs (Quick Lock Type).....	35
10P Sockets (Quick Lock Type) .....	36
10P Connectors (Quick Lock Type).....	37 - 39
13P Connectors (Quick Lock Type).....	40
13P Sockets (Quick Lock Type) .....	41
Insulating Caps.....	42

## Specifications

Rating	1A 100V AC max. or 2A 12V DC max.
Insulation Resistance	50M $\Omega$ min. at 250V DC
Dielectric Strength	250V AC / 1 minute
Contact Resistance	30m $\Omega$ max.
Engaging Force	45N max.
Separating Force	9N to 30N

## Pin & Contact Arrangement

Number of Pins	3	4	5a	5b	5c	6	7	8a	8b
<b>Plugs</b>									
<b>Sockets</b>									

## 9P Connectors Pin & Contact Arrangement

Number of Pins	9
<b>Plugs</b>	

Number of Contacts	9
<b>Sockets</b>	

## 7P / 9P Connectors (TCP8939) Pin & Contact Arrangement

Number of Pins	7	9
<b>Plugs</b>		

Number of Contacts	7	9
<b>Sockets</b>		

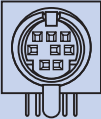
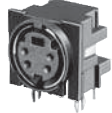



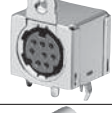
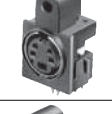
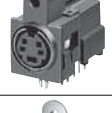
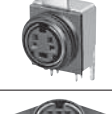
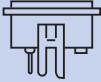


## Specification for Standard Cords













- A. UL Standards  
UL2835(60°C 30V VW-1)
- B. Shielding  
Overall shielding, 90% braided wire
- C. Number of conductors  
5 or 8
- D. Color  
Black(semigloss)  
Gray #1 (Ivory) semigloss  
Gray #2 (Ivory) semigloss
- E. Cable Diameter  
∅ 4.8mm

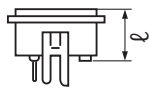
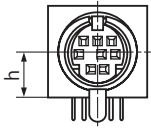
Reference:  
Cable colors should be assigned according to pin numbers as shown below.

Pin No.	芯数 / Number of Conductors						
	3	4	5	6	7	8	
1	Red	Red	Red	Red	Red	Red	
2	White	White	White	White	White	White	
3	Black	Black	Black	Black	Black	Black	
4		Yellow	Yellow	Yellow	Yellow	Yellow	
5			Blue	Blue	Blue	Blue	
6				Green	Green	Green	
7					Brown	Brown	
8						Gray	
<b>Remarks</b>	(In case of 3 pin, unnecessary conductors to be cut.)			(In case of 6 pin and 7 pin, unnecessary conductors to be cut.)			

Style	(mm)	Series No.	Photograph	Sockets												EMI Proof	Snapfit Type	Switch	Remarks
				Contact Arrangements															
				3	4	5a	5b	5c	6	7	8a	8b							
<b>Horizontal Style</b> 	h=4.6	TCS7726			○											○			
	h=6.5	TCS75□8		○	○	○	○	○	○	○	○	○	○						
		TCS7930		○	○	○	○		○	○	○	○				○			
		TCS75□9		○	○	○	○		○	○	○							1P-1T(N.C)	
		TCS7931		○	○	○	○		○	○	○				○			1P-1T(N.C)	
		TCS75□7		○	○	○	○		○	○	○			○	○				
		TCS7737-2□			○					○	○			○	○				
		TCS7927-7□			○	○				○	○	○	○			○			
		TCS7927-1□			○	○				○	○					○			
		TCS7927-5□			○	○				○	○	○	○		○	○			
		TCS7927-2□			○	○				○	○	○	○		○	○			
		TCS7927-6□			○	○				○	○	○	○		○	○			
		TCS7976			○											○		1P-1T(N.O)	

Sockets																	
Style	h or ℓ (mm)	Series No.	Photograph	Contact Arrangements								EMI Proof	Snapfit Type	Switch	Remarks		
				3	4	5a	5b	5c	6	7	8a					8b	
<b>Horizontal Style</b> 	h=6.5	TCS7969			○									○	1P-1T(N.O)		
		TCS7959			○										○	2P-2T	
	h=6.5	TCS71□7			○	○				○	○			○		Quick Lock	
		TCS72□2			○					○	○			○			
		TCS72□6			○					○	○			○	○		
	h=8	TCS7934			○										○		
		TCS7953			○										○	2P-2T	
		TCS7939			○									○		Screw Lock	
	<b>Vartical Style</b> 	—	TCS7910		○	○	○			○	○	○	○		Chassis Mount Type		
TCS7943					○												

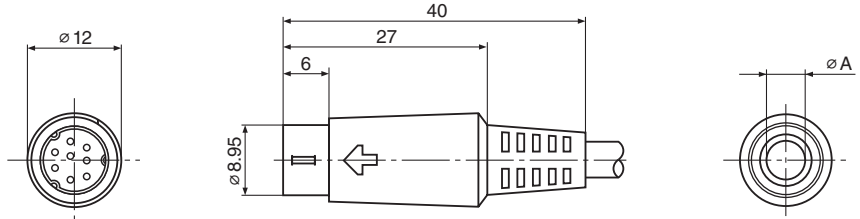
Sockets																	
Style	h or $\ell$ (mm)	Series No.	Photograph	Contact Arrangements								EMI Proof	Snapfit Type	Switch	Remarks		
				3	4	5a	5b	5c	6	7	8a					8b	
<b>Vartical Style</b> 	$\ell=7.5$	TCS7926				○				○		○					
	$\ell=9.5$	TCS76□8		○	○	○	○				○	○	○				
		TCS7948			○						○					1P-1T(N.O)	
		TCS76□9			○								○				
	$\ell=13.5$	TCS71□6		○									○				Quick Lock
		TCS78□8		○	○	○					○	○	○	○			Screw Lock
		TCS7935			○										○		
	$\ell=17$	TCS7932			○	○									○		
		TCS7949			○											1P-1T(N.O)	
	<b>with Cable</b>	—	TCS7908 TCS7909			○	○				○		○	○			
TCS71□5					○						○		○				



Series No.	Mating Plugs									Insulating Caps
	TCP8500	TCP8600	TCP8300	TCP7100	TCP7282	TCP7285	TCP7286	TCP8700	TPX3784	TCP9906
Photograph										
TCS7726	○	○	○	*	*	*	*	*		○
TCS75□8	○	○	○	*	*	*	*	*	*	○
TCS7930	○	○	○	*	*	*	*	*	*	○
TCS75□9	○	○	○	*	*	*	*	*	*	○
TCS7931	○	○	○	*	*	*	*	*	*	○
TCS75□7	○	○	○	*	*	*	*	*	*	○
TCS7737-2□	○	○	○	*	*	*	*	*	*	○
TCS7927-7□	○	○	○	*	*	*	*	*	*	○
TCS7927-1□	○	○	○	*	*	*	*	*	*	○
TCS7927-5□	○	○	○	*	*	*	*	*	*	○
TCS7927-2□	○	○	○	*	*	*	*	*	*	○
TCS7927-6□	○	○	○	*	*	*	*	*	*	○
TCS7976	○	○	○	*	*	*	*	*	*	○
TCS7969	○	○	○	*	*	*	*	*	*	○
TCS7959	○	○	○	*	*	*	*	*	*	○
TCS71□7	*	*	*	○	○	○	○	*		○
TCS72□2	*	*	*	○	○	○	○	*		○
TCS72□6	*	*	*	○	○	○	○	*		○
TCS7934	○	○	○	*	*	*	*	*	*	○
TCS7953	○	○	○	*	*	*	*	*	*	○
TCS7939	*	*	*	*	*	*	*	○	○	○
TCS7910	○	○	○	*	*	*	*	*	*	○
TCS7943	○	○	○	*	*	*	*	*	*	○
TCS7926	○	○	○	*	*	*	*	*		○
TCS76□8	○	○	○	*	*	*	*	*	*	○
TCS7948	○	○	○	*	*	*	*	*	*	○
TCS76□9	○	○	○	*	*	*	*	*	*	○
TCS71□6	*	*	*	○	○	○	○	*		○
TCS78□8	*	*	*	*	*	*	*	○	○	○
TCS7935	○	○	○	*	*	*	*	*	*	○
TCS7945	○	○	○	*	*	*	*	*	*	○
TCS7932	○	○	○	*	*	*	*	*	*	○
TCS7949	○	○	○	*	*	*	*	*	*	○
TCS7940	○	○	○	*	*	*	*	*	*	○
TCS7909	○	○	○	*	*	*	*	*	*	○
TCS7908	○	○	○	*	*	*	*	*	*	○
TCS71□5	*	*	*	○				*		○

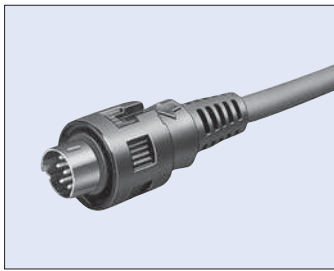
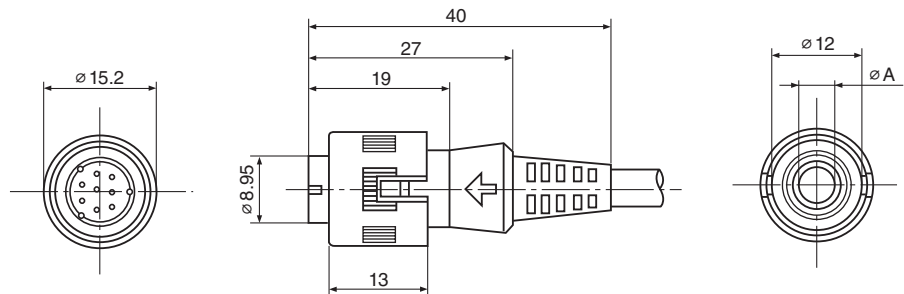
Notes) "\*"means physically fittable, but specification may not fully applied.

## TCP8500 Series


**TCP8580**


## TCP8700 Series

### Screw Lock Type


**TCP8780**

**Notes:**

1. The TCP8500, TCP8700 series plugs are made by insertion molding with cables. Plugs cannot be sold independently.
2. The insulation materials of the above products are recognized by UL (94V-0).
3. Combinations with sockets
  - ① Please see Mating Table.
  - ② The combinations of the 5P (a) plug and the 6P socket, the 8P (a) plug and the 6P socket, and the 8P (a) plug and the 7P socket are not designed for error connecting prevention.
4. Color: Black, Gray #1, Gray #2

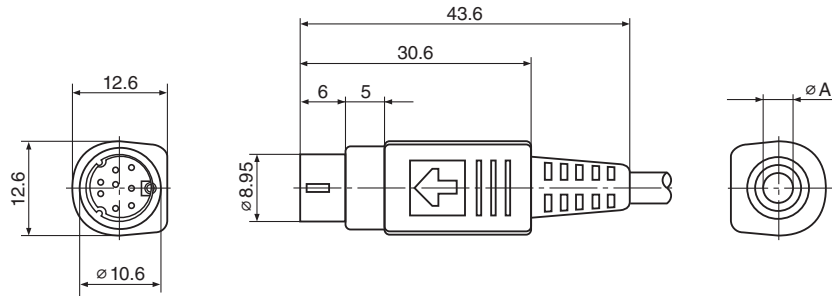
**Model No. Table**

Pin Arrangement Cord diameter A	3	4	5a	5b	5c	6	7	8a	8b
<b>4.8mm</b> TCP8500 Series	TCP8530	TCP8540	TCP8550	TCP8510	TCP8520	TCP8560	TCP8570	TCP8580	
<b>3.8mm</b> TCP8500 Series	TCP8531	TCP8541	TCP8551	TCP8511	TCP8521	TCP8561	TCP8571	TCP8581	TCP8591
<b>4.8mm</b> TCP8700 Series	TCP8730	TCP8740	TCP8750			TCP8760	TCP8770	TCP8780	TCP8790

## TCP8300 Series

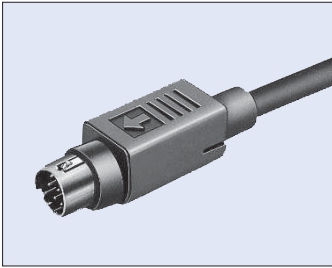


**TCP8380**  
EMI-Proof

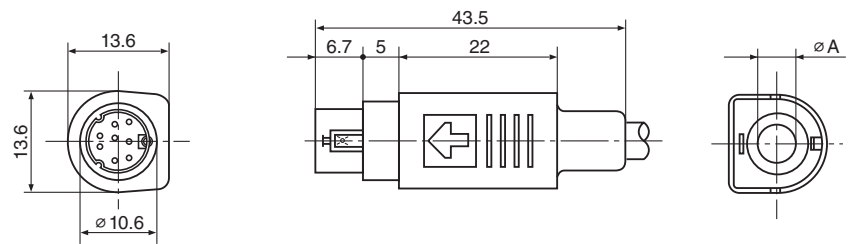


## TCP7100 Series

### Quick Lock Type



**TCP7180**  
EMI-Proof



**Notes:**

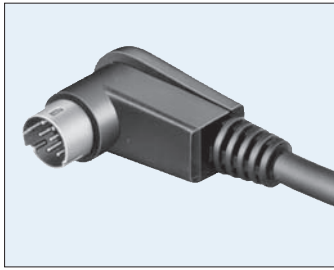
1. The TCP8300, TCP7100 series plugs are made by insertion molding with cables. Plugs cannot be sold independently.
2. The insulation materials of the above products are recognized by UL (94V-0).
3. Combinations with sockets
  - ① Please see Mating Table.
  - ② The combinations of the 5P (a) plug and the 6P socket, the 8P (a) plug and the 6P socket, and the 8P (a) plug and the 7P socket are not designed for error connecting prevention.
4. Color: Black, Gray #1, Gray #2

**Model No. Table**

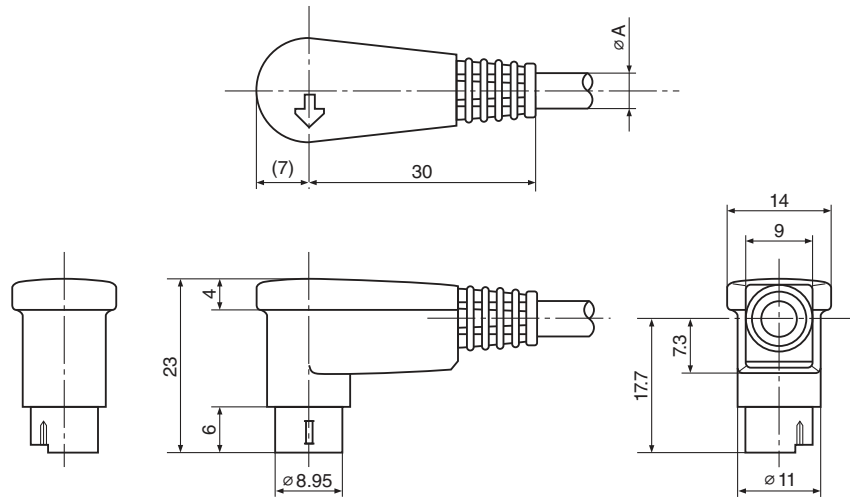
Pin Arrangement	3	4	5a	5b	6	7	8a	8b
Cord diameter A	3	4	5a	5b	6	7	8a	8b
<b>4.8mm</b> TCP8300 Series	TCP8330	TCP8340	TCP8350	TCP8310	TCP8360	TCP8370	TCP8380	TCP8390
<b>3.8mm</b> TCP8300 Series	TCP8331	TCP8341	TCP8351	TCP8311	TCP8361	TCP8371	TCP8381	TCP8391
<b>4.8mm</b> TCP7100 Series	TCP7130	TCP7140	TCP7150	/	TCP7160	/	TCP7180	/

## TCP8600 Series

### A Type (Cord Drawing)

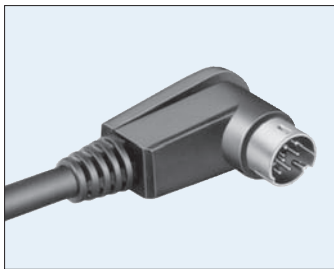


TCP8680

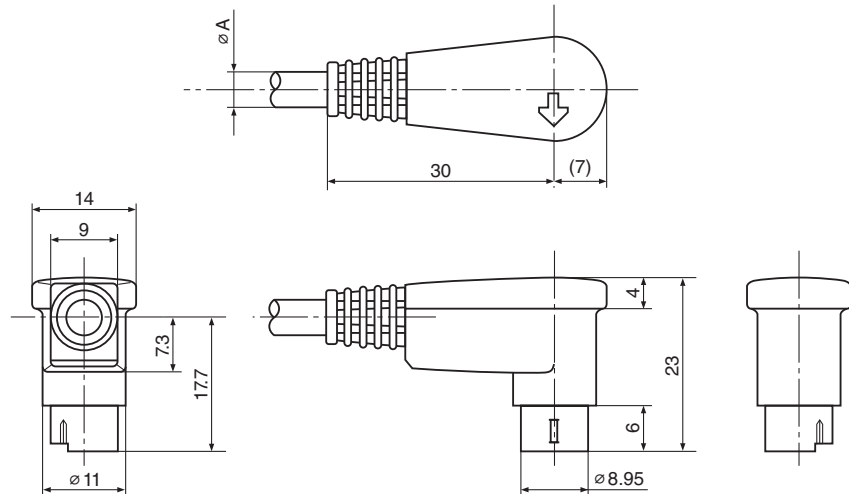


## TCP8600 Series

### B Type (Cord Drawing)



TCP8685



#### Notes:

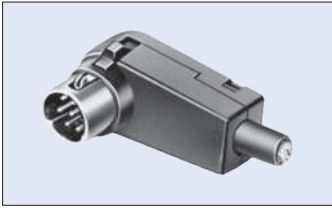
- The TCP8600 series plugs are made by insertion molding with cables. Plugs cannot be sold independently.
- The insulation materials of the above products are recognized by UL (94V-0).
- Combinations with sockets
  - Please see Mating Table.
  - The combinations of the 5P (a) plug and the 6P socket, the 8P (a) plug and the 6P socket, and the 8P (a) plug and the 7P socket are not designed for error connecting prevention.
- Color: Black, Gray #1, Gray #2

#### Model No. Table

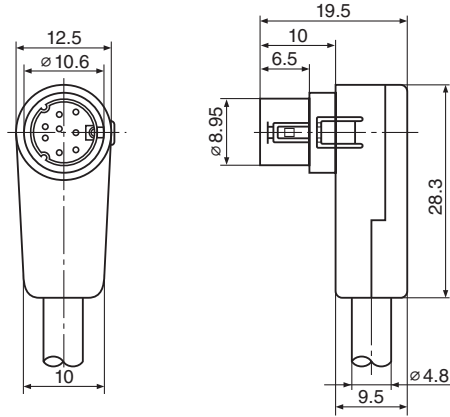
Pin Arrangement		3	4	5a	6	7	8a
Cord drawing	Cord diameter A						
A Type TCP8600 Series	4.8mm	TCP8630	TCP8640	TCP8650	TCP8660	TCP8670	TCP8680
	3.8mm	TCP8631	TCP8641	TCP8651	TCP8661	TCP8671	TCP8681
B Type TCP8600 Series	4.8mm	TCP8635	TCP8645	TCP8655	TCP8665	TCP8675	TCP8685
	3.8mm	TCP8636	TCP8646	TCP8656	TCP8666	TCP8676	TCP8686

**TCP7285 Series**

Push Lock Type

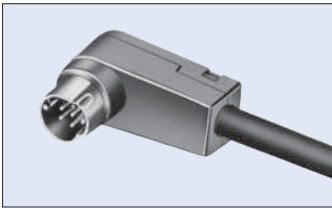


**TCP7285-010105**  
(Color:Black)

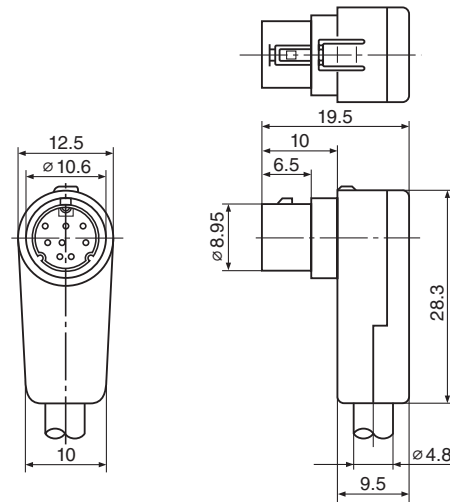


**TCP7286 Series**

Push Lock Type



**TCP7286-010105**  
(Color:Black)



※Combinations with sockets:TCS7187, TCS7282

**Model No. Table**

Pin Arrangement	4	6	8a
<b>TCP7285 Series</b>	TCP7245	TCP7265	TCP7285
<b>TCP7286 Series</b>	TCP7246	TCP7266	TCP7286

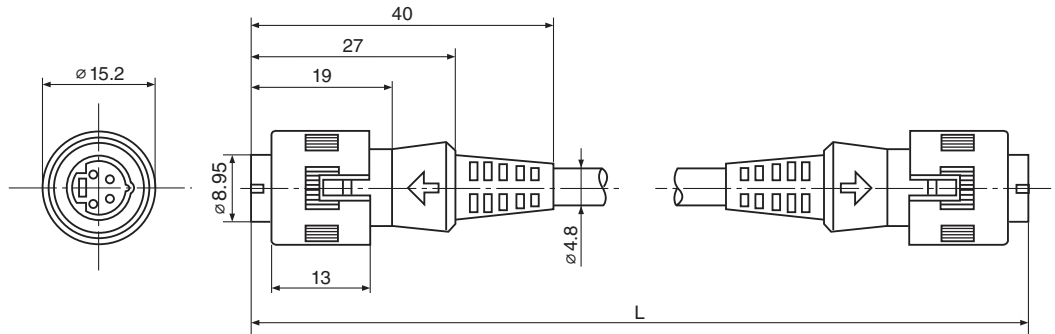
The TCP72□□ series plugs are equipped with a cables. (Plugs cannot be sold independently.)

**TPX3784 Series**

**Screw Lock Type**



**TPX3784**

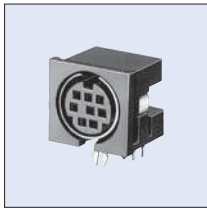


※Length "L" is on request.

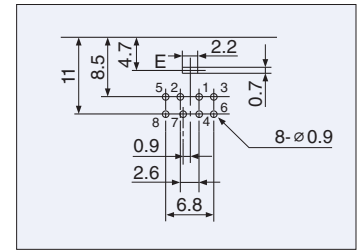
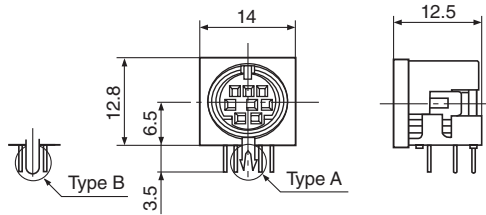


**TCS75□8 / 7930 Series**

h=6.5mm



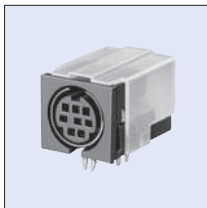
**TCS7930-18-401**



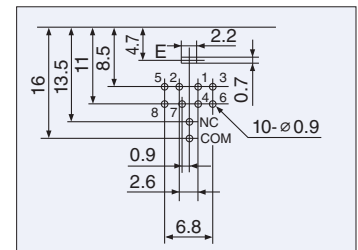
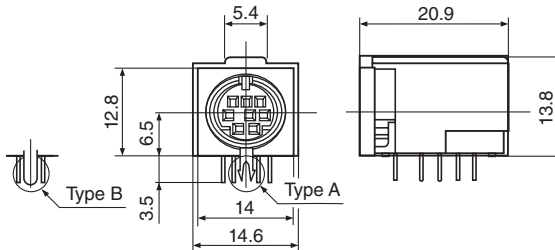
Hole Layout  
(Bottom View)

**TCS75□9 / 7931 Series**

h=6.5mm



**TCS7931-18-401**



Hole Layout  
(Bottom View)

Contact Arrangement	3	4	5a	5b
TCS75□9 / 7931 Series Hole Layout (Bottom View)				
5c	6	7	8a	8b

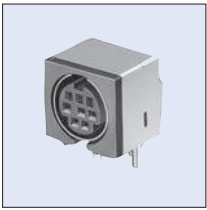
※TCS75□8/7931 series are same products as TCS75□9/7931 series without holes for NC and COM.

**Model No. Table**

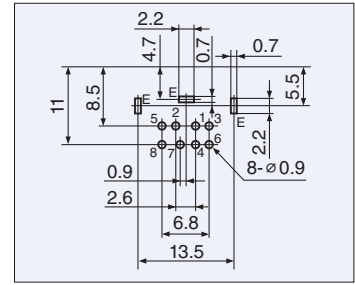
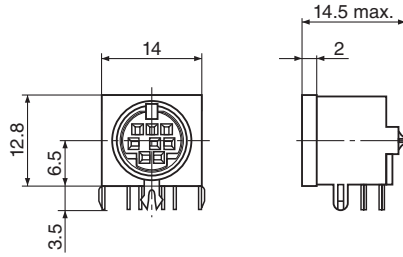
Contact Arrangement		3	4	5a	5b	5c	6	7	8a	8b
Terminal										
Type B	TCS75□8Series	TCS7538-01-201	TCS7548-01-201	TCS7558-01-201	TCS7518-01-201	TCS7528-01-201	TCS7568-01-201	TCS7578-01-201	TCS7588-01-201	TCS7598-01-201
	TCS75□9Series	TCS7539-01-201	TCS7549-01-201	TCS7559-01-201	TCS7519-01-201		TCS7569-01-201	TCS7579-01-201	TCS7589-01-201	
Type A	TCS7930Series	TCS7930-13-401	TCS7930-14-401	TCS7930-15-401	TCS7930-11-401		TCS7930-16-401	TCS7930-17-401	TCS7930-18-401	TCS7930-19-401
	TCS7931Series	TCS7931-13-401	TCS7931-14-401	TCS7931-15-401			TCS7931-16-401	TCS7931-17-401	TCS7931-18-401	

**TCS75□7 Series**

h=6.5mm



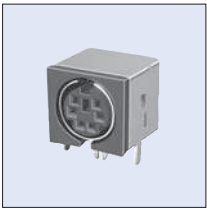
**TCS7587-0121077**  
EMI-Proof



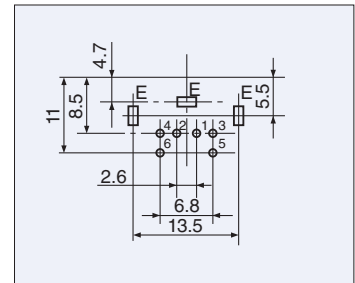
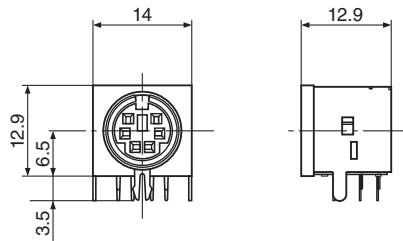
Hole Layout  
(Bottom View)

**TCS7737-2□ Series**

h=6.5mm



**TCS7737-2620887**  
EMI-Proof

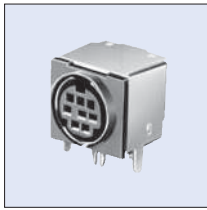


Hole Layout  
(Bottom View)

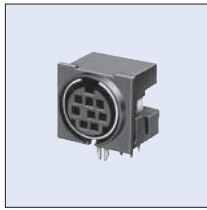
Contact Arrangement	3	4	5a	5b
TCS75□7 / 7737-2□ Series Hole Layout (Bottom View)				
5c	6	7	8a	8b

**Model No. Table**

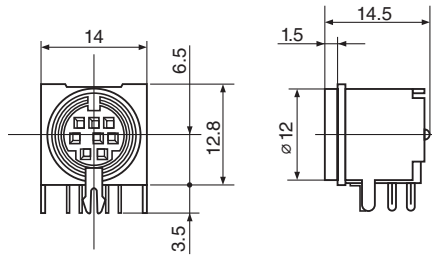
Contact Arrangement	3	4	5a	5b	6	7	8a	8b
TCS75□7 Series	TCS7537-0121077	TCS7547-0121077	TCS7557-0121077	TCS7517-0121077	TCS7567-0121077	TCS7577-0121077	TCS7587-0121077	TCS7597-0121077
TCS7737-2□ Series		TCS7737-2420887			TCS7737-2620887		TCS7737-2820887	

**TCS7927-□□-401 Series**    h=6.5mm


**A-Type**  
TCS7927-5841177  
EMI-Proof

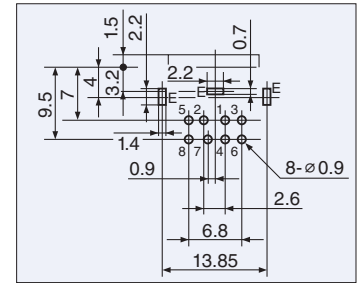


**B-Type**  
TCS7927-78-401

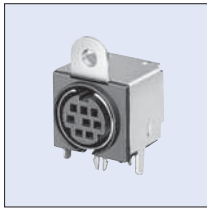


TCS7927-5841177

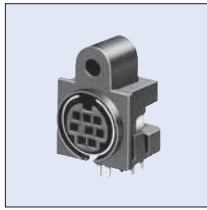
**A-Type**



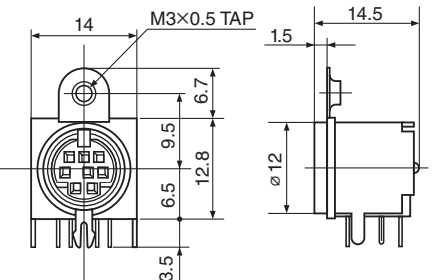
Hole Layout  
(Bottom View)



**A-Type**  
TCS7927-2801177  
EMI-Proof

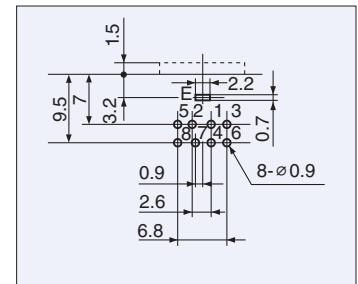


**B-Type**  
TCS7927-18-401

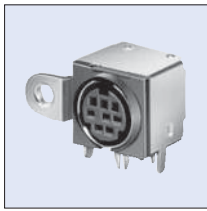


TCS7927-2801177

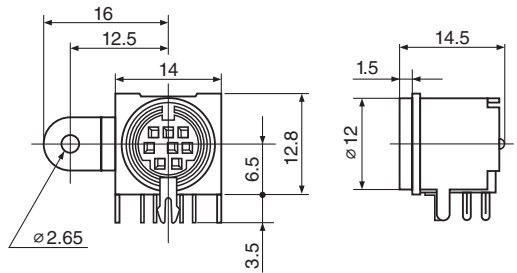
**B-Type**



Hole Layout  
(Bottom View)



**A-Type**  
TCS7927-6821177  
EMI-Proof



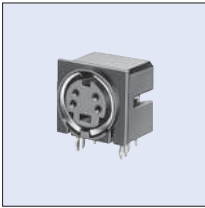
Contact Arrangement	3	4	5a	5b
TCS7927-□□-401 Series Hole Layout (Bottom View)				
5c	6	7	8a	8b

**Model No. Table**

Contact Arrangement	4	5a	6	7	8a	8b
<b>TCS7927-□□-401 Series</b>	TCS7927-74-401	TCS7927-75-401	TCS7927-76-401	TCS7927-77-401	TCS7927-78-401	TCS7927-79-401
	TCS7927-14-401	TCS7927-15-401	TCS7927-16-401		TCS7927-18-401	
	TCS7927-5441177	TCS7927-5541177	TCS7927-5641177	TCS7927-5741177	TCS7927-5841177	TCS7927-5941177
	TCS7927-2401177	TCS7927-2501177	TCS7927-2601177	TCS7927-2701177	TCS7927-2801177	TCS7927-2901177
	TCS7927-6421177	TCS7927-6521177	TCS7927-6621177	TCS7927-6721177	TCS7927-6821177	TCS7927-6921177

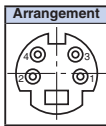
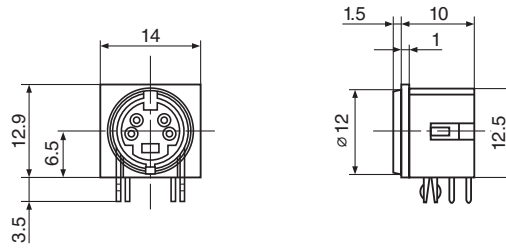
**TCS7976 Series**

h=6.5mm

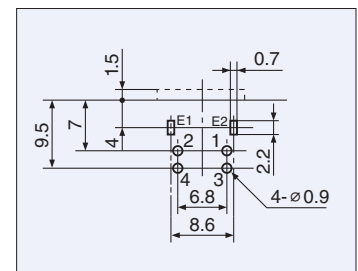


Separate Cover

**TCS7976-14-201**



**Note:** The cover consists of two parts allowing it to be used as a 1P-1T switch when a plug is inserted.

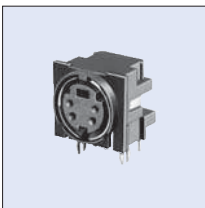


Hole Layout  
(Bottom View)

**TCS7969 Series**

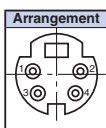
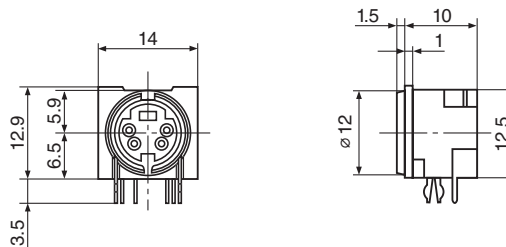
Reverse key groove type

h=6.5mm

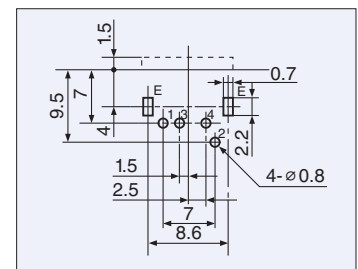


Separate Cover

**TCS7969-14-101**



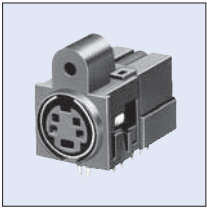
**Note:** The cover consists of two parts allowing it to be used as a 1P-1T switch when a plug is inserted.



Hole Layout  
(Bottom View)

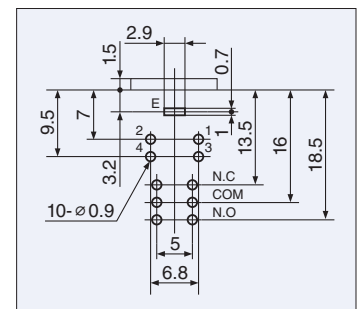
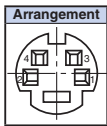
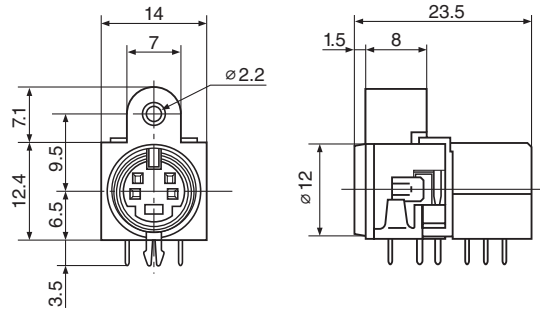
**TCS7959 Series**

h=6.5mm



**TCS7959-14-201**

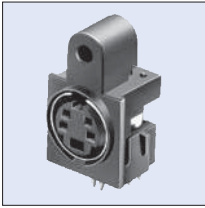
With Switch(2P-2T)



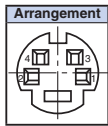
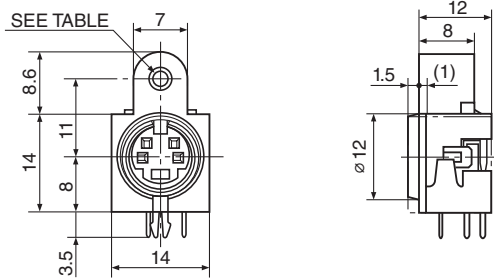
Hole Layout  
(Bottom View)

**TCS7934 Series**

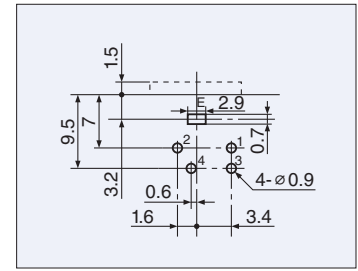
h=8mm



**TCS7934-01-201**



∅ 2.2	TCS7934-01-201
∅ 2.6	TCS7934-01-211

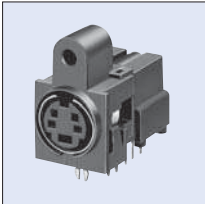


Hole Layout  
(Bottom View)

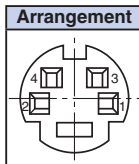
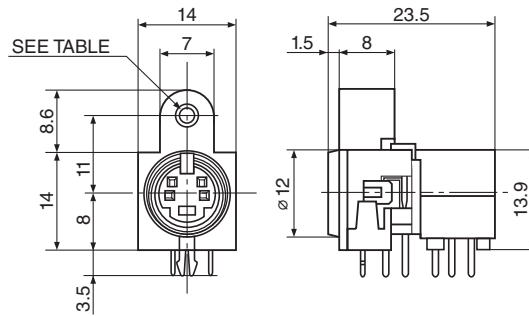
**TCS7953 Series**

h=8mm

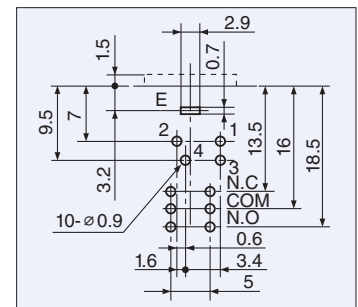
With Switch(2P-2T)



**TCS7953-14-201**



∅ 2.2	TCS7953-14-201
∅ 2.6	TCS7953-14-211



Hole Layout  
(Bottom View)

**Notes:**

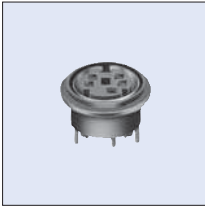
1. Combinations with plugs

① Can be fit with the TCP8500 series, the TCP8600 series, the TCP8300 series and TPX4115.

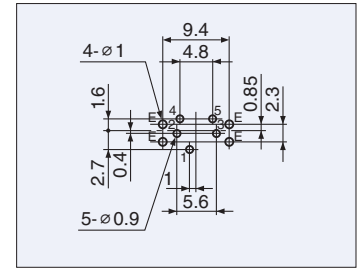
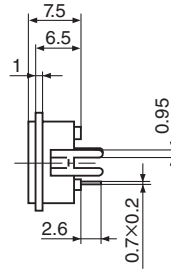
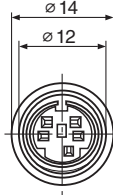
② Connection with the TCP7100 series is possible, but some specifications are not applicable. Please inquire concerning special specification.

**TCS7926 Series**

$\ell=7.5\text{mm}$



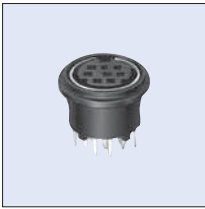
**TCS7926-15-301**



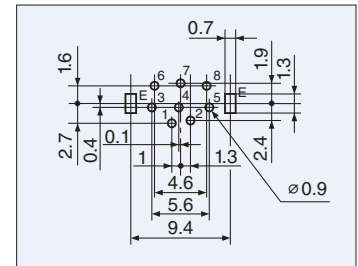
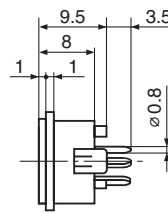
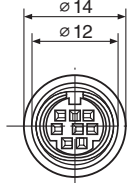
Hole Layout  
(Bottom View)

**TCS76□8 Series**

$\ell=9.5\text{mm}$



**TCS7688-01-201**



Hole Layout  
(Bottom View)

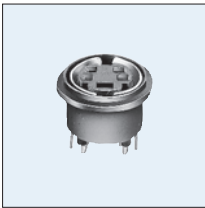
**Model No. Table**

Contact Arrangement	5a	6	8a
Hole Layout (Bottom View)			
TCS7926 Series	TCS7926-15-301	TCS7926-16-301	TCS7926-18-301

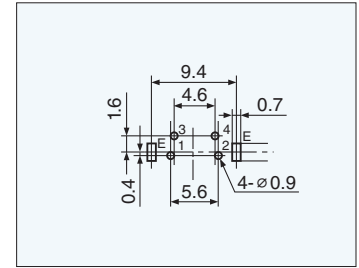
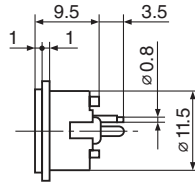
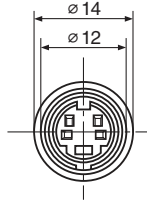
**Model No. Table**

Contact Arrangement	3	4	5a	5b
Hole Layout (Bottom View)				
TCS76□8 Series	TCS7638-01-201	TCS7648-01-201	TCS7658-01-201	TCS7618-01-201
Contact Arrangement	6	7	8a	8b
Hole Layout (Bottom View)				
TCS76□8 Series	TCS7668-01-201	TCS7678-01-201	TCS7688-01-201	TCS7698-01-201

### TCS7948 Series

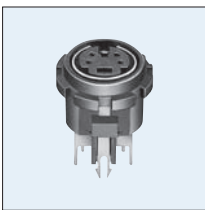
 $\ell=9.5\text{mm}$ 

**TCS7948-01-201**

Separate Cover


 Hole Layout  
(Bottom View)

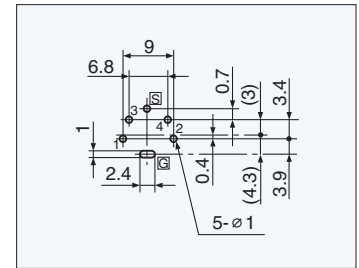
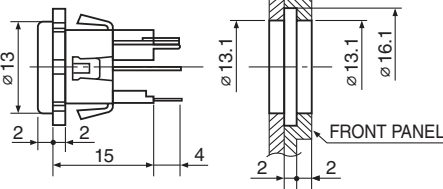
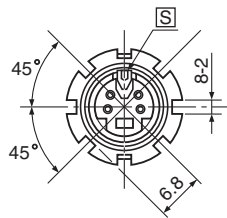
**Note:** The cover consists of two parts allowing it to be used as a 1P-1T switch when a plug is inserted.

### TCS7940-0120177

 $\ell=17\text{mm}$ 


With Contact for Switching

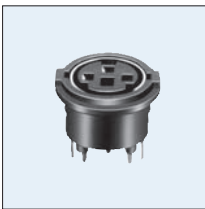
With Contact for Switching


 Hole Layout  
(Bottom View)

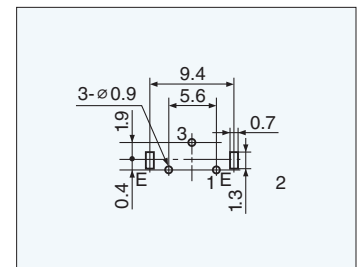
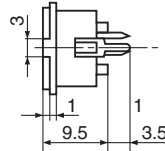
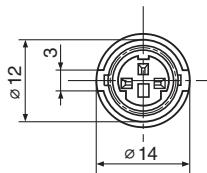
**Note:** The cover G and contact S can be used as a 1P-1T switch when a plug is inserted.

### TCS71□6 Series

Quick Lock Type

 $\ell=9.5\text{mm}$ 

**TCS7136-01-201**

With Contact for Switching


 Hole Layout  
(Bottom View)

**Notes:**

1. Combinations with plugs

① Can be fit with the TCP7100 series.

② Connection with the TCP8500 series, the TCP8600 series and the TCP8300 series are possible, but some specifications are not applicable. Please inquire concerning special specification.

③ The combinations of the 6P socket and the 5P (a) plug, the 6P socket and the 8P (a) plug, and the 7P socket and 8P (a) plug are not designed for error connecting prevention.

### Model No. Table

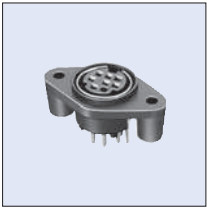
Contact Arrangement	4	6
Hole Layout (Bottom View)		
TCS7948 Series	TCS7948-01-201	TCS7948-16-201

### Model No. Table

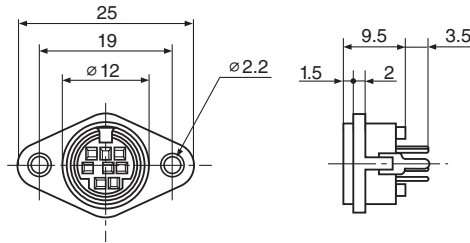
Contact Arrangement	3	8a
Hole Layout (Bottom View)		
TCS71□6 Series	TCS7136-01-201	TCS7186-01-201

**TCS76□9 Series**

ℓ=9.5mm



TCS7689-5120177

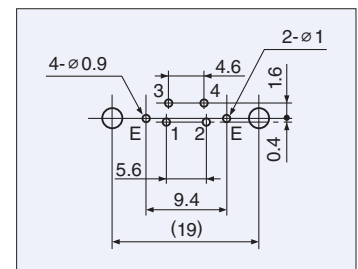
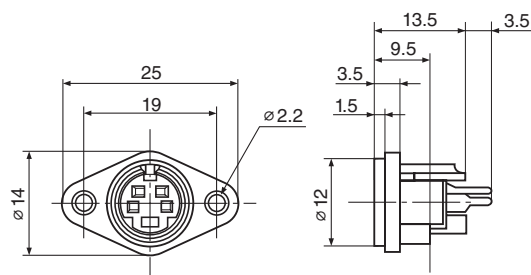
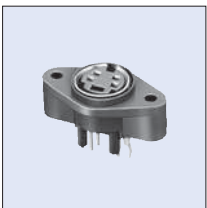


**Model No. Table**

Contact Arrangement	4	8a
<b>Hole Layout (Bottom View)</b>		
TCS76□9 Series	TCS7649-5120177	TCS7689-5120177

**TCS7935-14-201**

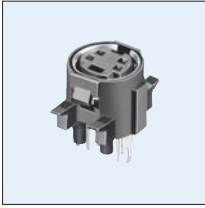
ℓ=13.5mm



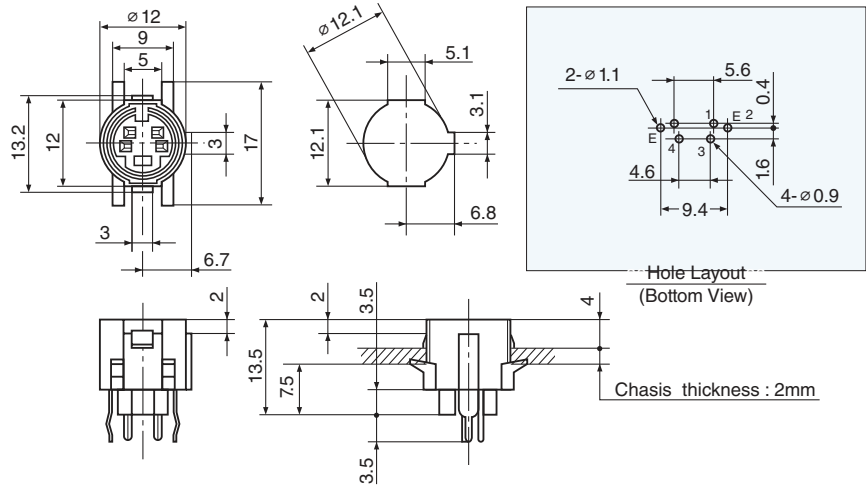
Hole Layout (Bottom View)

**TCS7932 Series**

ℓ=13.5mm



**TCS7932-14-211**



**Notes:**

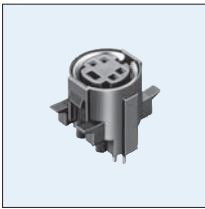
1. Combinations with plugs

- ① Can be fit with the TCP8500 series, the TCP8600 series, the TCP8300 series and TPX4115.
- ② Connection with the TCP7100 series is possible, but some specifications are not applicable. Please inquire concerning special specification.
- ③ The combinations of the 6P socket and the 5P (a) plug, the 6P socket and the 8P (a) plug, and the 7P socket and 8P (a) plug are not designed for error connecting prevention.

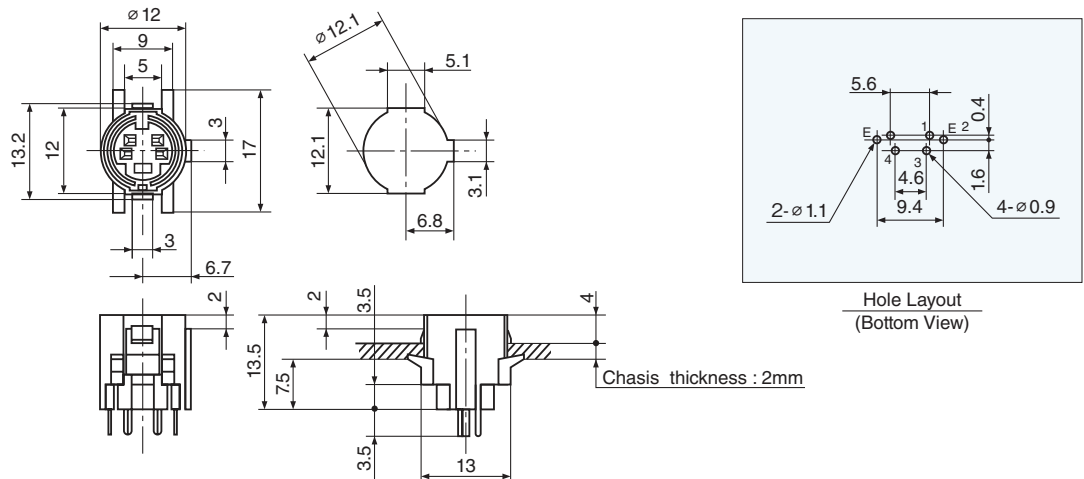
Contact Arrangement	4	5a	8a
Hole Layout (Bottom View)			
TCS7932 Series	TCS7932-14-211	TCS7932-15-211	TCS7932-18-211

**TCS7949**

ℓ=13.5mm

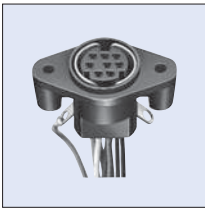


**TCS7949-01-202**

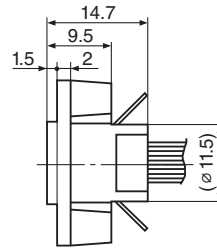
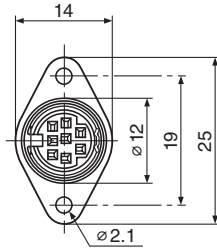


**Note:** The cover consists of two parts allowing it to be used as a 1P-1T switch when a plug is inserted.

**TCS7910 Series**




**TCS7910-18-201**



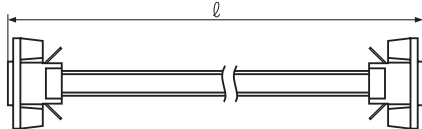
**TCS7910 series with cords.**

The TCS7910 series sockets equipped with cables are available as the TPX series. The following standard models are available. Regarding the length and color of the cable, please contact us.

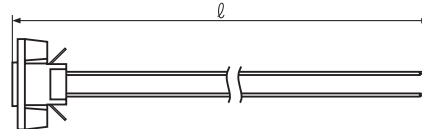
- Notes:** 1. Applicable wire size: AWG #26 (UL1061)  
The size of grounding wire is AWG #22.

2. An M3 round terminal (  ) can also be used as a grounding terminal.

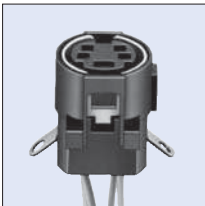
**1. Model No. TPX3212 (TCS7910 Series – TCS7910 Series)**



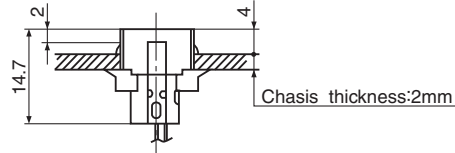
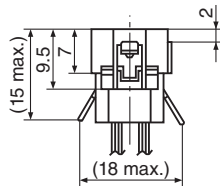
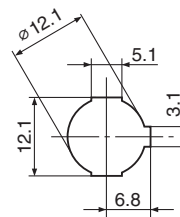
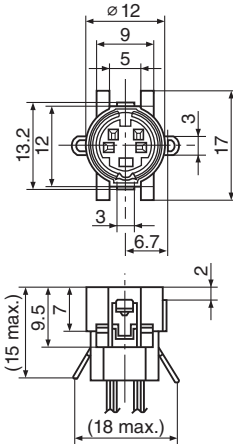
**2. Model No. TPX3213 (TCS7910 Series – Solder-plated at the Lead Ends)**



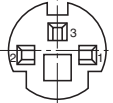
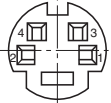
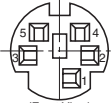
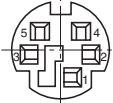
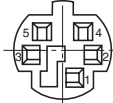
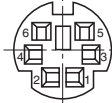
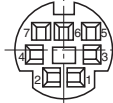
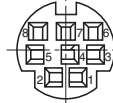
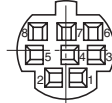
**TCS7943 Series**



**TCS7943-01-0100**



**Model No. Table**

	3	4	5a	5b	5c	6	7	8a	8b
<b>Contact Arrangement</b>			 (Front View)						
<b>TCS7910 Series</b>	TCS7910-13-201	TCS7910-14-201	TCS7910-15-201			TCS7910-16-201	TCS7910-17-201	TCS7910-18-201	TCS7910-19-201
<b>TCS7943 Series</b>		TCS7943-01-0100							

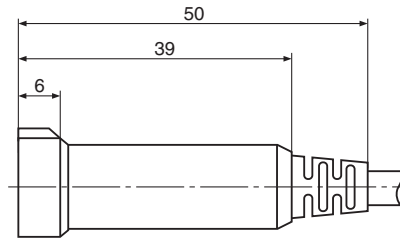
**Notes:**

- Wires are connected to the contacts by crimping.
- Applicable wire size: AWG #26~#30  
Finished outside diameter: 1 mm max.
- The socket is equipped with a cable.  
Regarding the length and color of the cord, please contact us.
- Contacts are not included. To crimp the contacts, a special tool is required.
- Combinations with plugs
  - Can be fit with the TCP8500 series and TCP8600 series.
  - The combinations of the 6P socket and the 5P (a) plug, the 6P socket and the 8P (a) plug, and the 7P socket and 8P (a) plug are not designed for error connecting prevention.

## TCS7909 / TCS7908 Series



TCS7909-18-0100



### Model No. Table

Contact Arrangement		4	5a	6	8a	8b
Suitable Cable Dia A	Color					
4.8 mm TCS7909 Series	Black	TCS7909-14-0100	TCS7909-15-0100	TCS7909-16-0100	TCS7909-18-0100	TCS7909-19-0100
	Gray#1	TCS7909-14-0200	TCS7909-15-0200	TCS7909-16-0200	TCS7909-18-0200	TCS7909-19-0200
	Gray#2	TCS7909-14-0300	TCS7909-15-0300	TCS7909-16-0300	TCS7909-18-0300	TCS7909-19-0300
3.8 mm TCS7908 Series	Black	TCS7908-14-0100	TCS7908-15-0100	TCS7908-16-0100	TCS7908-18-0100	TCS7908-19-0100
	Gray#1	TCS7908-14-0200	TCS7908-15-0200	TCS7908-16-0200	TCS7908-18-0200	TCS7908-19-0200
	Gray#2	TCS7908-14-0300	TCS7908-15-0300	TCS7908-16-0300	TCS7908-18-0300	TCS7908-19-0300

#### Notes:

- Wires are connected to the contacts by crimping. The type of the contacts are shown in the table below.
- The insulation materials of the products are not recognized by UL but products with insulation materials recognized by UL are also available. Please contact us for details.
- The socket is equipped with a cable.
- Contacts are not included. To crimp the contacts, a special tool is required.
- Combinations with plugs
  - Can be fit with the TCP8500 series and TCP8600 series.
  - The combinations of the 5P (a) plug and the 6P socket, the 8P (a) plug, and the 6P socket, and the 8P (a) plug and the 7P socket are not designed for error connecting prevention.

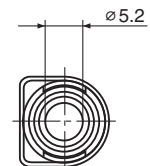
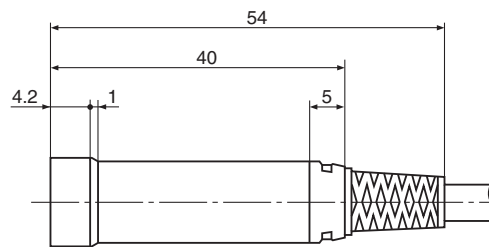
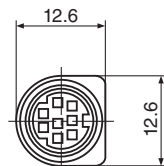
Part No.of Contact	Applicable Wire Size	Finished Outside Diameter	4	5a	6, 7	8a	8b
TCS9200-10-010	AWG #26~30	$\phi$ 1 max.	All	All	All	All	All
TCS9200-11-010	AWG #22~24	$\phi$ 1.3 max.	All	All	3, 4, 5, 6	3, 5	3, 5

## TCS71□5

### Quick Lock Type



TCS7185-210105



### Model No. Table

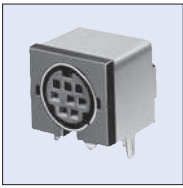
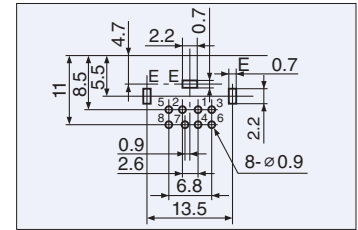
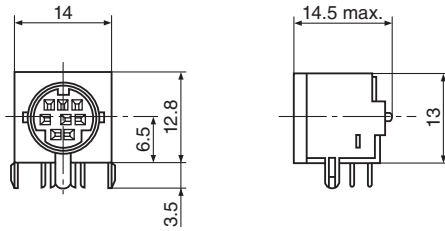
Contact Arrangement	4	6	8a
TCS71□5 Series	TCS7145-210105	TCS7165-210105	TCS7185-210105

#### Notes:

- Combinations with plugs: TCP7100 Series
- The TCS71□5 series are sold as products with cable (TPX series). Please see Drawing and Specification for details.
- Color: Black, Gray #1, Gray #2

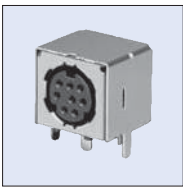
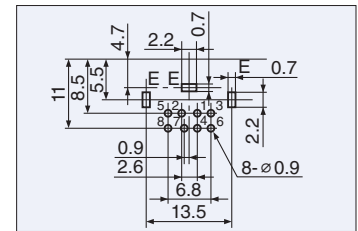
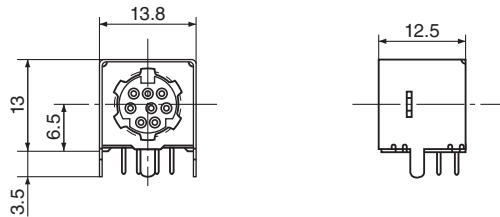
### TCS71□7 Series

h=6.5mm


**TCS7187-012177**  
EMI-Proof

 Hole Layout  
(Bottom View)

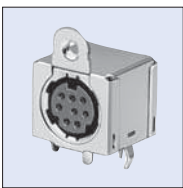
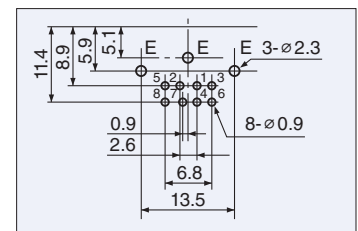
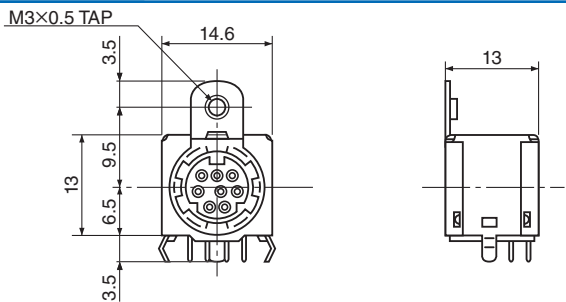
### TCS72□2 Series

h=6.5mm


**TCS7282-012177**  
EMI-Proof

 Hole Layout  
(Bottom View)

### TCS72□6 Series

h=6.5mm


**TCS7286-0124177**  
EMI-Proof

 Hole Layout  
(Bottom View)

**Notes:**

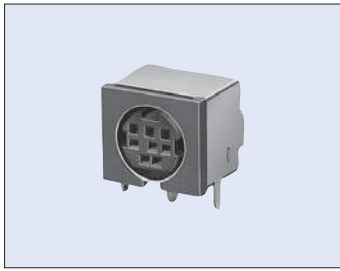
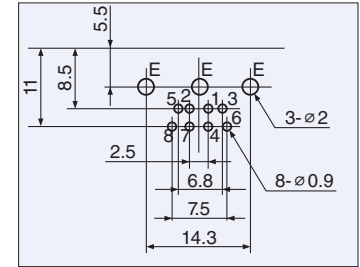
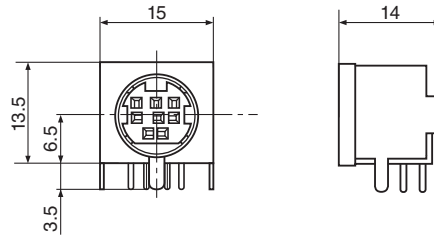
1. Combinations with plugs

- ① Can be fit with the TCP7100 series.
- ② Connection with the TCP8500 series, the TCP8600 series and the TCP8300 series are possible, but some specifications are not applicable. Please inquire concerning special specification.
- ③ The combinations of the 6P socket and the 5P (a) plug, the 6P socket and the 8P (a) plug, and the 7P socket and 8P (a) plug are not designed for error connecting prevention.

Contact Arrangement	3	4	6	8a
Hole Layout (Bottom View) TCS71□7 Series				
TCS71□7 Series	TCS7137-012177	TCS7147-012177	TCS7167-012177	TCS7187-012177
Contact Arrangement	4	5a	6	8a
Hole Layout (Bottom View) TCS72□2 Series				
TCS72□2 Series	TCS7242-012177	TCS7252-012177	TCS7262-012177	TCS7282-012177
Contact Arrangement	4	5a	6	8a
Hole Layout (Bottom View) TCS72□6 Series				
TCS72□6 Series	TCS7246-0124177	TCS7256-0124177	TCS7266-0124177	TCS7286-0124177

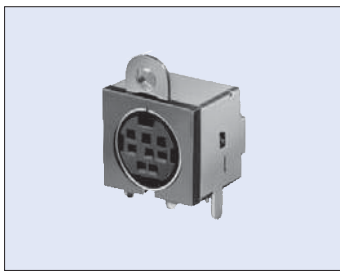
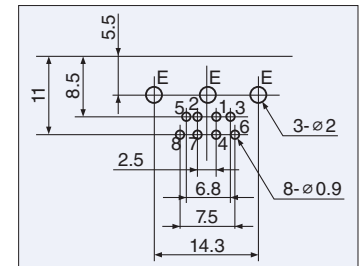
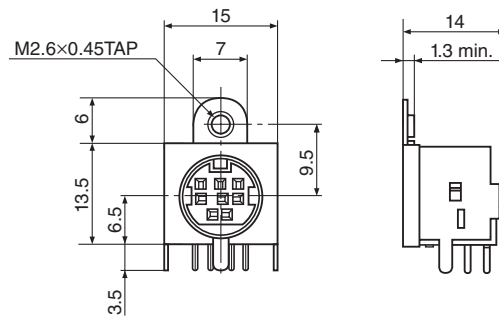
**TCS61□0 Series**

h=6.5mm


**TCS6180-0110177**  
EMI-Proof

 Hole Layout  
(Bottom View)

**TCS61□6 Series**

h=6.5mm


**TCS6186-0123177**  
EMI-Proof

 Hole Layout  
(Bottom View)

**Notes:**

Combinations with plugs.

1. Can be fit with the TCP6100 series.
2. The combinations of the 8P (a) plug and the 7P socket are not designed for error connecting prevention.

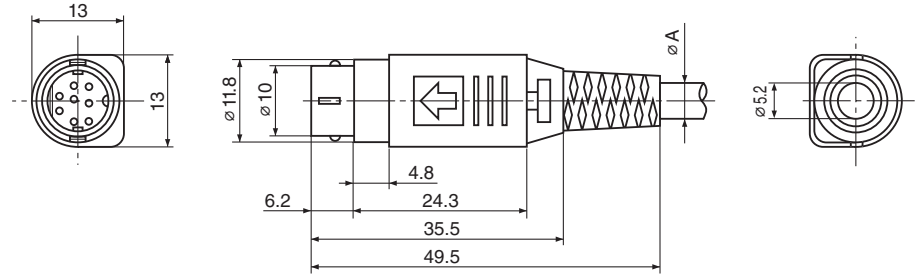
Contact Arrangement	4	5a	6	7	8a
Hole Layout (Bottom View)					
TCS61□0 Series	TCS6140-0110177	TCS6150-0110177	TCS6160-0110177	TCS6170-0110177	TCS6180-0110177
TCS61□6 Series	TCS6146-0123177	TCS6156-0123177	TCS6166-0123177	TCS6176-0123177	TCS6186-0123177

## TCP6100 Series

## Plugs



TCP6180-1111267

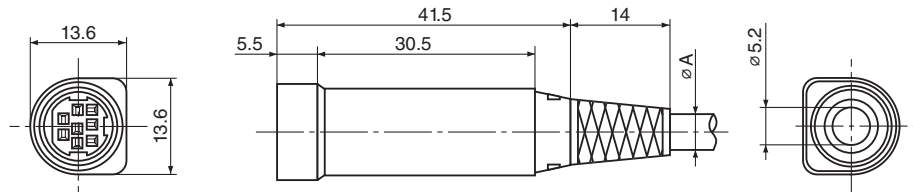


Contact Arrangement		4	5a	6	7	8a
Suitable Cord Dia. A	Color					
	4.8mm TCP6100 Series	Black TCP6140-1111267	Gray#1 TCP6140-1112267	Gray#2 TCP6140-1113267	TCP6150-1111267 TCP6150-1112267 TCP6150-1113267	TCP6160-1111267 TCP6160-1112267 TCP6160-1113267

### Notes:

- Wires are connected to the contacts by soldering.
- Parts, not assembled, are sold in a set. For the package style, refer please the specification.
- Combinations with sockets
  - Can be fit with the TCS6100 series.
  - The combinations of the 8P (a) plug and the 7P socket are not designed for error connecting prevention.

**TCS61□5 Series**
**Quick Lock Type**

**TCS6185-011125**


Contact Arrangement		4	6	7	8a
Suitable Cord Dia. A	Color				
	4.8mm TCS61□5 Series	Black TCS6145-011125 Gray#1 TCS6145-011225 Gray#2 TCS6145-011325	TCS6165-011125 TCS6165-011225 TCS6165-011325	TCS6175-011125 TCS6175-011225 TCS6175-011325	TCS6185-011125 TCS6185-011225 TCS6185-011325

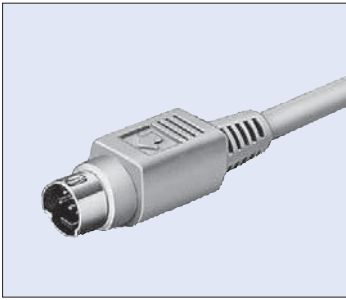
**Notes:**

1. Sockets are equipped with a cable. (Sockets cannot be sold independently.)
2. Wires are connected to the contacts by crimping. The types of the contacts are shown in the table below.
3. The contacts are optional. To crimp the contacts, a special tool is required.
4. Combinations with plugs
  - ① Can be fit with the TCP6100 series.
  - ② The combinations of the 8P (a) plug and the 7P socket are not designed for error connecting prevention.

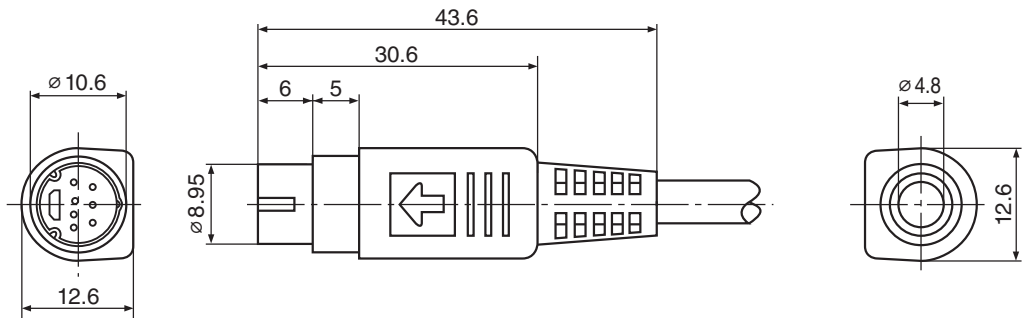
Part No. of Contact	Applicable Wire Size	Finished Outside Diameter	6	7	8a
TCS9200-10-010	AWG #26~30	$\phi$ 1 max.	All	All	All
TCS9200-11-010	AWG #22~24	$\phi$ 1.3 max.	3~6	3~7	3~8



**TCP8939**



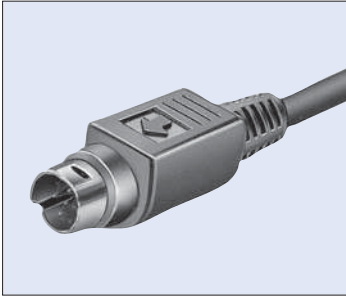
**TCP8939-27**  
EMI-Proof



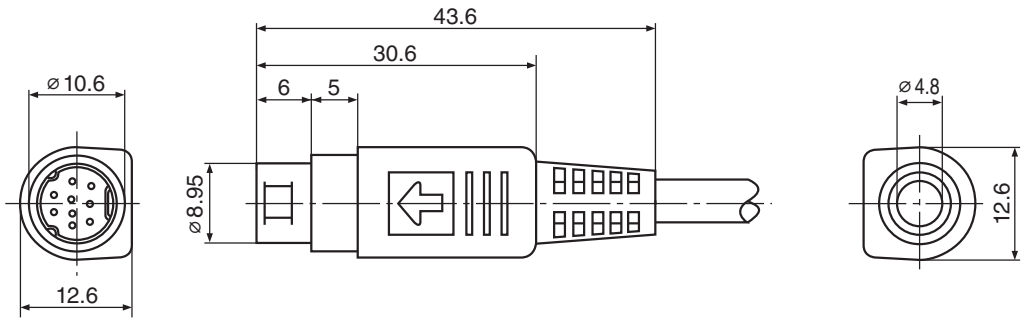
Color: Black, Gray#1, Gray#2

Plugs are equipped with a cable. (Plugs cannot be sold independently.)

**TCP8939**



**TCP8939-29**  
EMI-Proof



Color: Black, Gray#1, Gray#2

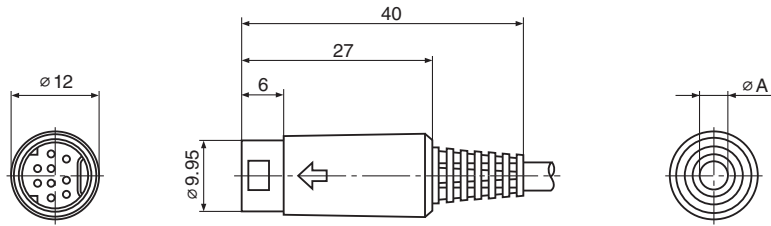
Plugs are equipped with a cable. (Plugs cannot be sold independently.)

**TCP8920 Series**



**TCP8920**

Suitable	4.8 mm	TCP8920
Cord Dia. A	3.8 mm	TCP8913



Combinations with sockets: TCS7913, TCS7928, TCS7712, TCS7717

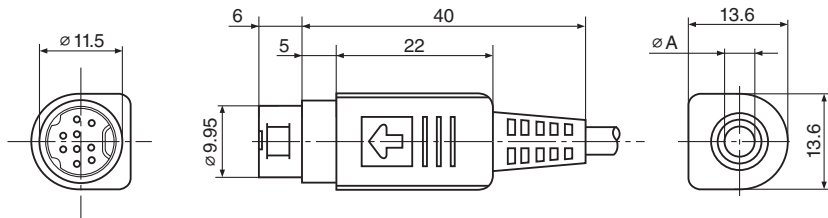
Color: Black, Gray#1, Gray#2

**TCP8926 Series**



**TCP8926**

Suitable	4.8 mm	TCP8926
Cord Dia. A	3.8 mm	TCP8923



Combinations with sockets: TCS7913-43, TCS7963, TCS7717

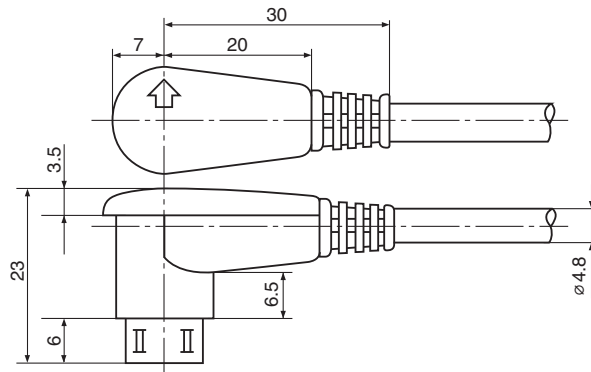
Color: Black, Gray#1, Gray#2

**TCP8942 Series**



**TCP8942**

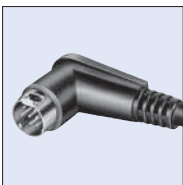
Can be also available for 3.8 Dia.Cable.



Combinations with sockets: TCS7913

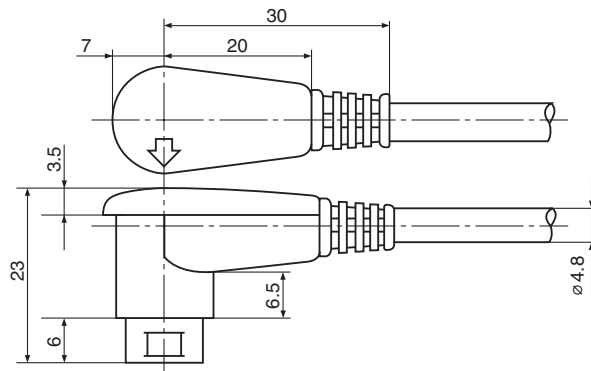
Color: Black

**TCP8943 Series**



**TCP8943**

Can be also available for 3.8 Dia.Cable.

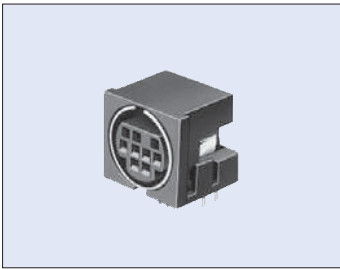


Combinations with sockets: TCS7913

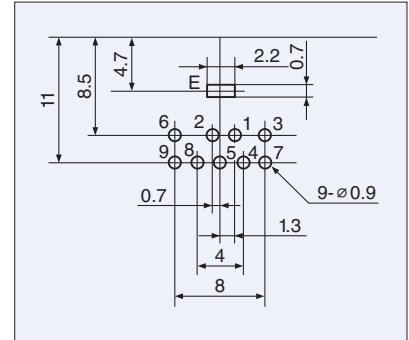
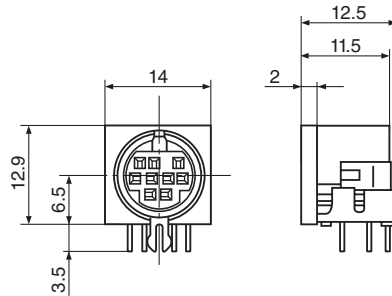
Color: Black

Plugs are equipped with a cable. (Plugs cannot be sold independently.)

**TCS7913**



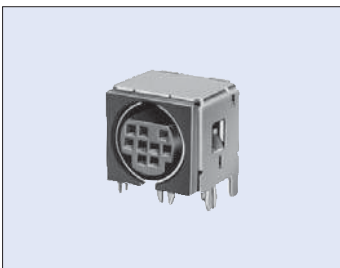
**TCS7913-01-201**



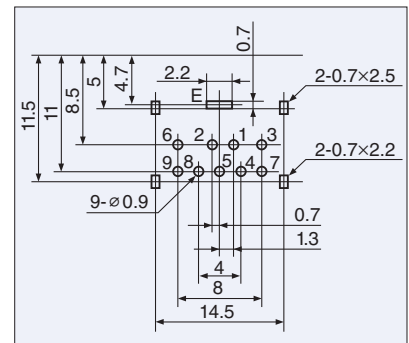
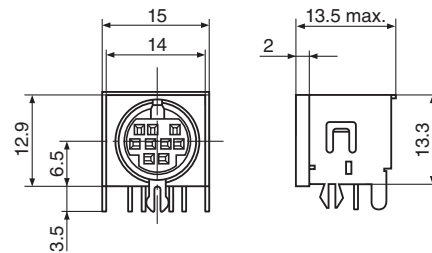
Hole Layout  
(Bottom View)

Combinations with plugs: TCP8913, TCP8920, TCP8926, TCP8923

**TCS7913**



**TCS7913-4320177**  
EMI-Proof



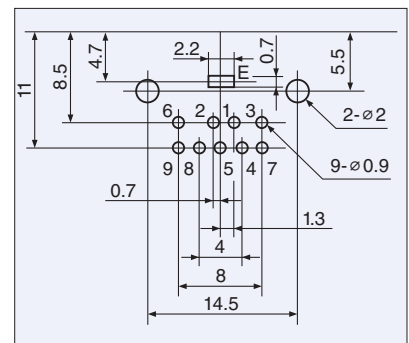
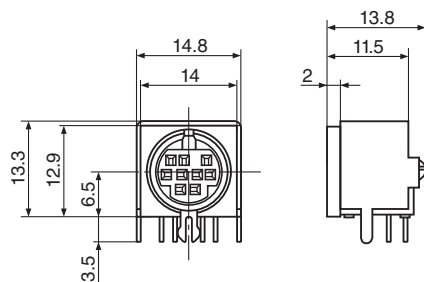
Hole Layout  
(Bottom View)

Combinations with plugs: TCP8923, TCP8926

**TCS7928**



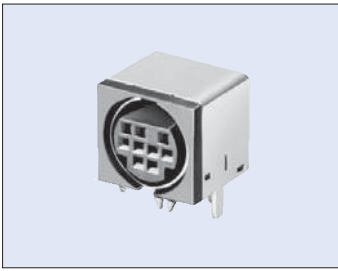
**TCS7928-0120177**  
EMI-Proof



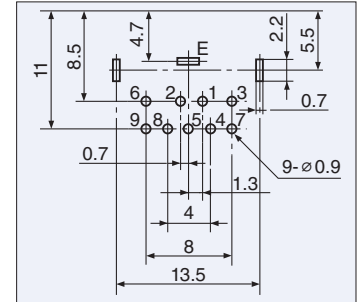
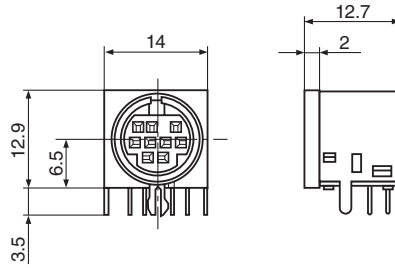
Hole Layout  
(Bottom View)

Combinations with plugs: TCP8923, TCP8926

**TCS7712**



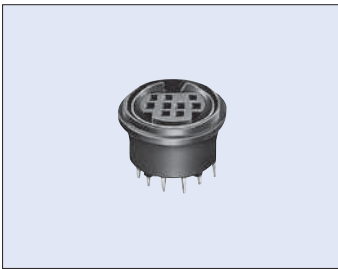
**TCS7712-0120177**



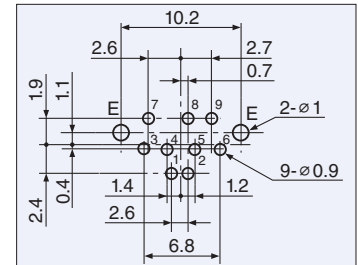
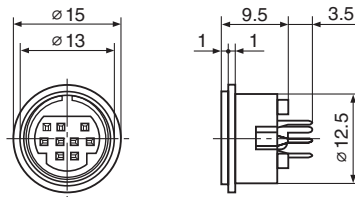
Hole Layout  
(Bottom View)

Combinations with plugs: TCP8920, TCP8913

**TCS7963**



**TCS7963-01-201**



Hole Layout  
(Bottom View)

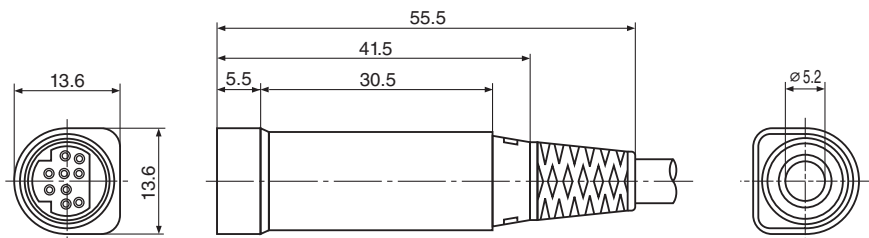
Combinations with plugs: TCP8920, TCP8913, TCP8926, TCP8923

**TCS7717**

**Sockets with Cable**



**TCS7717-010105**



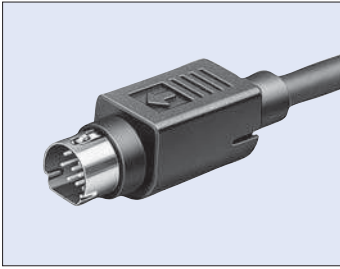
Combinations with plugs: TCP8920, TCP8926

Color: Black, Gray#1, Gray#2

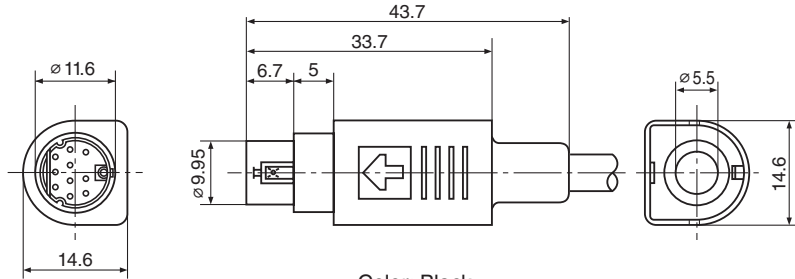
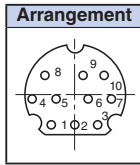
**Notes:**

1. Plugs are equipped with a cable. (Plugs cannot be sold independently.)
2. The contacts are optional. To crimp the contacts, a special tool is required. Please see specification for details.

**TCP8938 Series (A Type)**



EMI-Proof

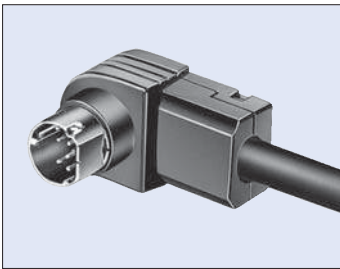


Color: Black

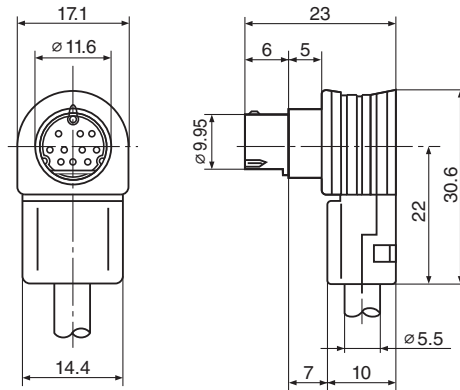
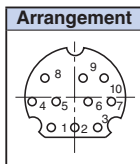
Combinations with plugs: TCP7705, TCP7718

Plugs are equipped with a cable. (Plugs cannot be sold independently.)

**TCP8948 Series (A Type)**



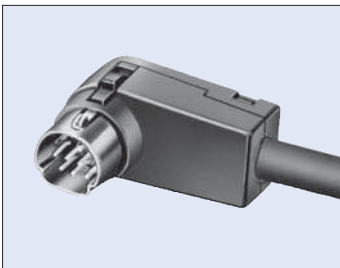
TCP8948-210105



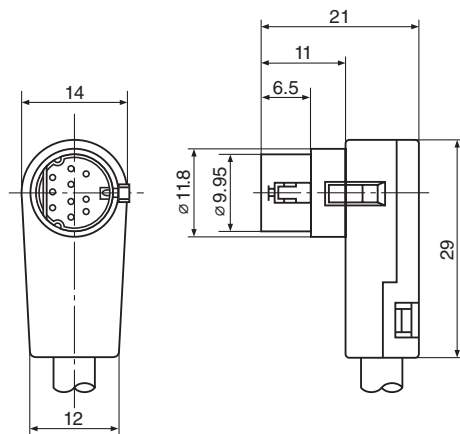
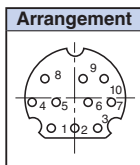
Color: Black, Gray1, Gray2

Combinations with plugs: TCP7705, TCP7718

**TCP8949 Series (A Type)**



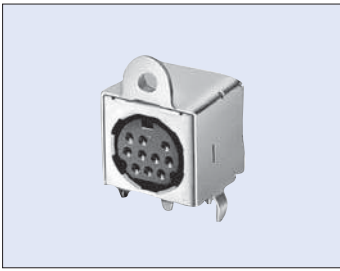
TCP8949-010105



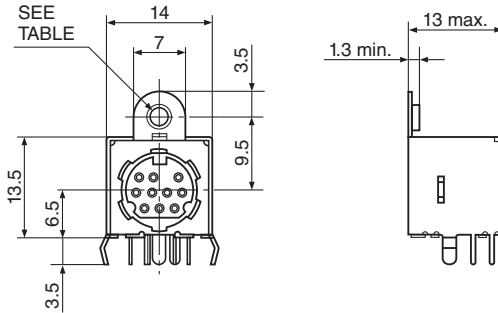
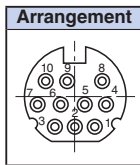
Color: Black

Combinations with plugs: TCP7705, TCP7718

**TCS7705 Series (A Type)**

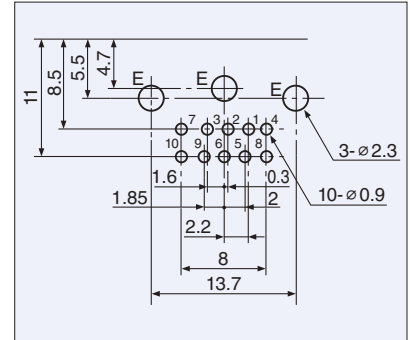


**TCS7705-0120177**  
EMI-Proof



M 2.6x0.45 TAP	TCS7705-0121177
M 3x0.5 TAP	TCS7705-0120177

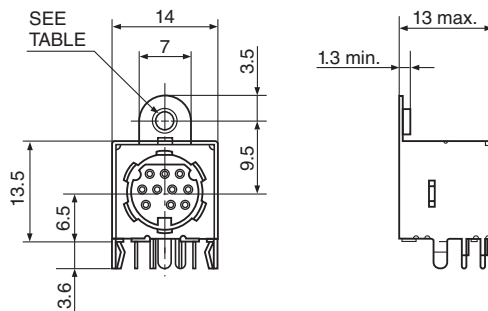
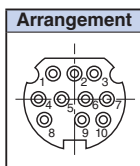
Combinations with plugs: TCP8938, TCP8948, TCP8949



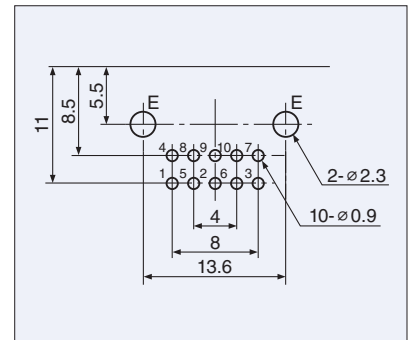
**TCS7718 Series (A Type) Reverse key groove style**



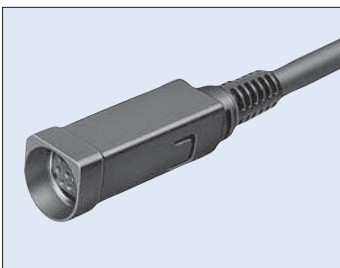
**TCS7718-0120177**



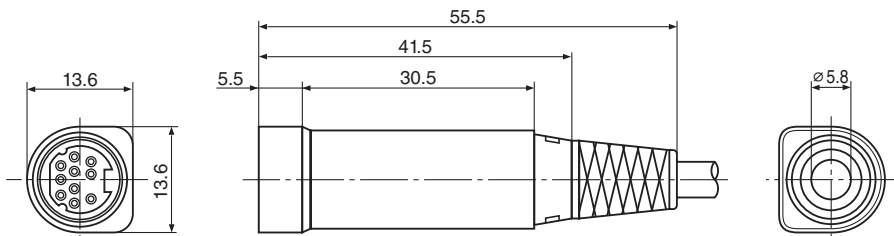
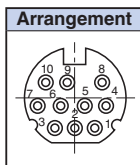
Combinations with plugs: TCP8938, TCP8948, TCP8949



**TCS7715 Socket with Cable (A Type)**



**TCS7715-010105**



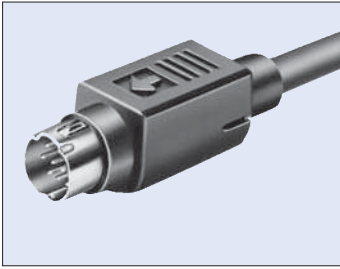
Combinations with plugs: TCP8938

Color: Black, Gray#1, Gray#2

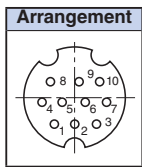
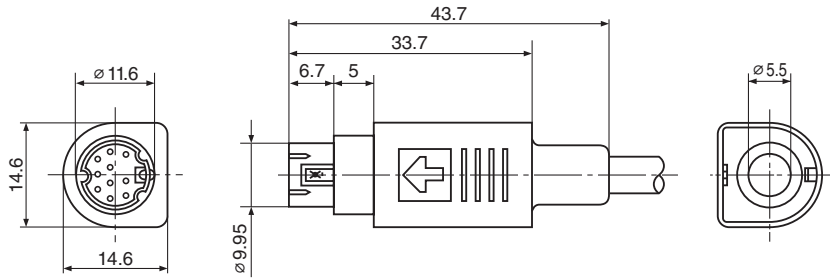
**Notes:**

1. Plugs are equipped with a cable. (Plugs cannot be sold independently.)
2. The contacts are optional. To crimp the contacts, a special tool is required. Please see specification for details.

**TCP8945 Series (B Type)**



**TCP8945**  
EMI-Proof



Color: Black

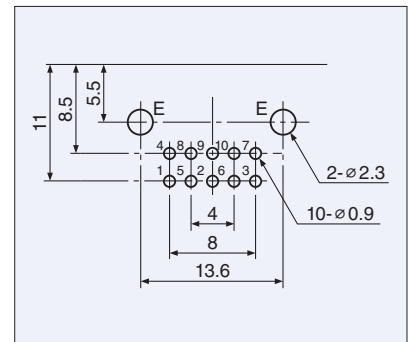
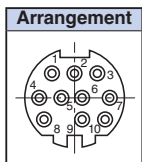
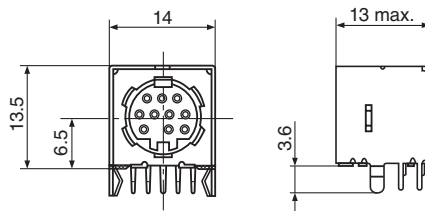
Plugs are equipped with a cable. (Plugs cannot be sold independently.)

Combinations with Sockets: TCS7721

**TCS7721 Series (B Type) Reverse key groove style**



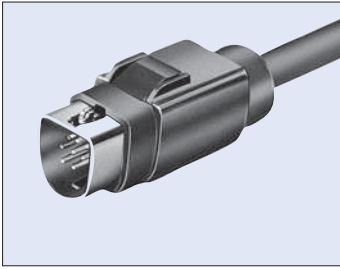
**TCS7721-5120177**  
EMI-Proof



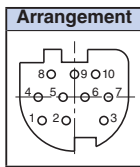
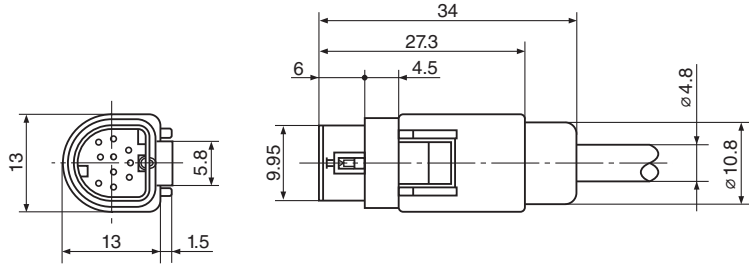
Hole Layout  
(Bottom View)

Combinations with plugs: TCP8945

**TCP8946 Series (C Type)**



**TCP8946-010105**



Color: Black, Gray#1, Gray#2

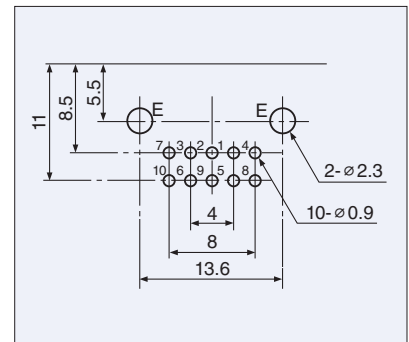
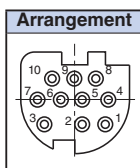
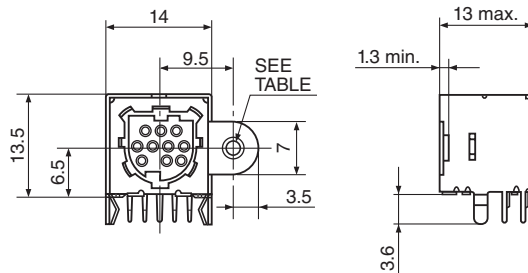
Plugs are equipped with a cable. (Plugs cannot be sold independently.)

Combinations with Sockets: TCS7722

**TCS7722 Series (C Type)**



**TCS7722-7120177  
EMI-Proof**

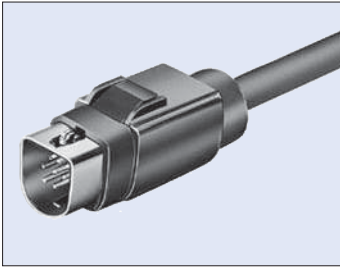


Hole Layout  
(Bottom View)

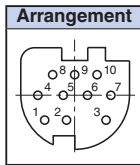
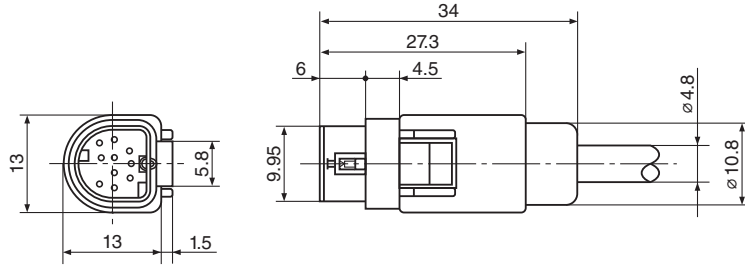
M 2.6x0.45 TAP	TCS7722-7121177
M 3x0.5 TAP	TCS7722-7120177

Combinations with plugs: TCP8946

**TCP8947 Series (D Type)**



**TCP8947-010105**

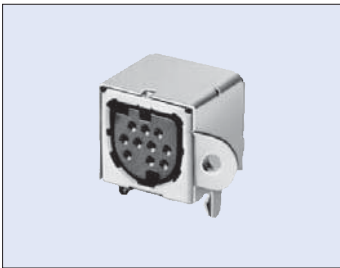


Color: Black, Gray#1, Gray#2

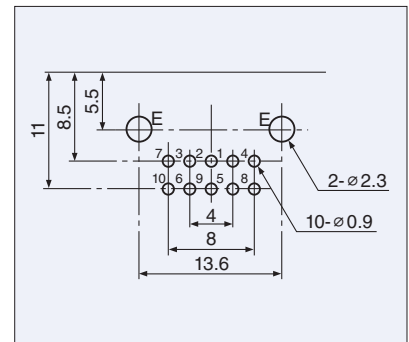
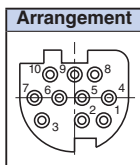
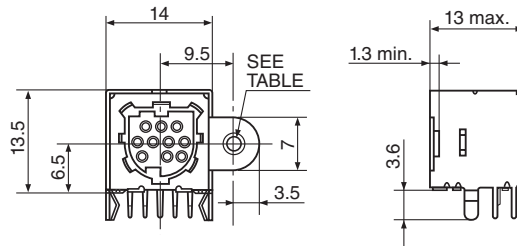
Plugs are equipped with a cable. (Plugs cannot be sold independently.)

Combinations with Sockets: TCS7724

**TCS7724 Series (D Type)**



**TCS7724-7120177**

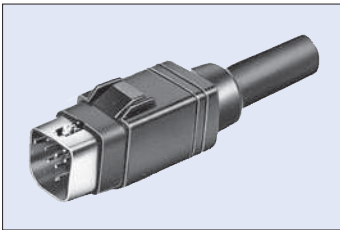


M 2.6x0.45 TAP	TCS7724-7121177
M 3x0.5 TAP	TCS7724-7120177

Combinations with plugs: TCP8947

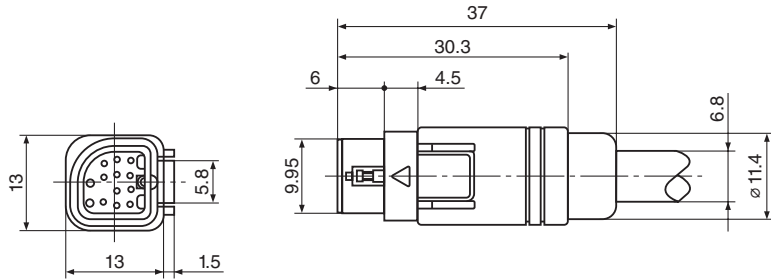
Hole Layout  
(Bottom View)

**TCP8951 / 8955 Series**



**TCP8951-210105**

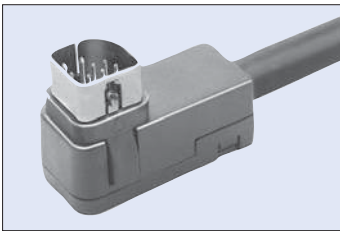
Keyway	A	B
Arrangement		
Model No.	TCP8951-210105	TCP8955-210105



Color: Black, Gray#1, Gray#2

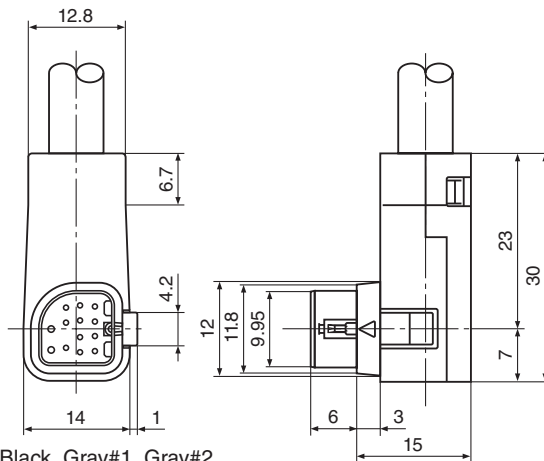
Plugs are equipped with a cable. (Plugs cannot be sold independently.)

**TCP8953 / 8957 Series**



**TCP8953-210105**

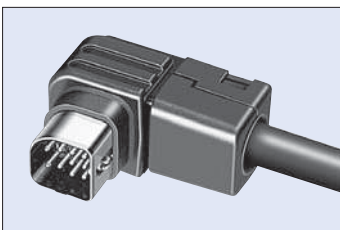
Keyway	A	B
Arrangement		
Model No.	TCP8953-210105	TCP8957-210105



Color: Black, Gray#1, Gray#2

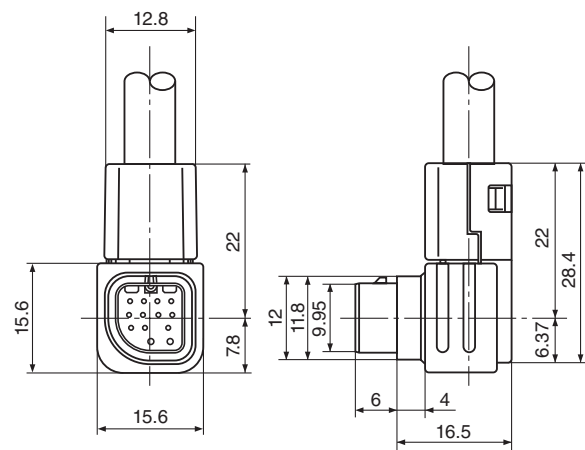
Plugs are equipped with a cable. (Plugs cannot be sold independently.)

**TCP8959 / 8961 Series**



**TCP8959-210105**

Keyway	A	B
Arrangement		
Model No.	TCP8959-210105	TCP8961-010105



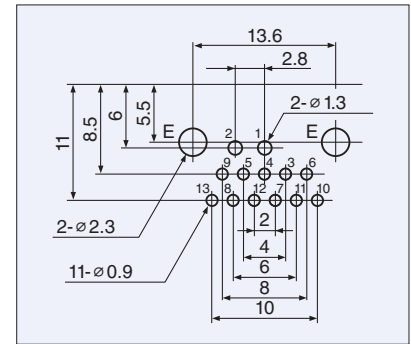
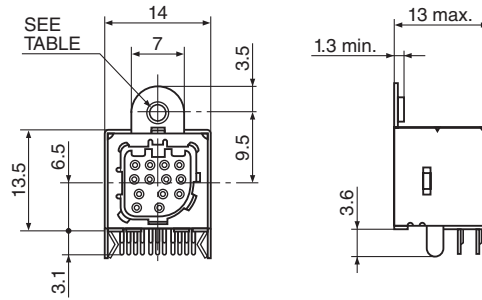
Color: Black, Gray#1, Gray#2

Plugs are equipped with a cable. (Plugs cannot be sold independently.)

## TCS7729 / 7741 Series



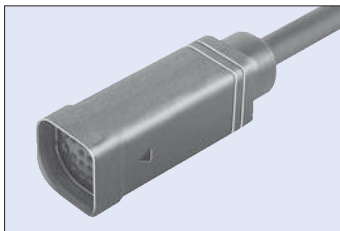
TCS7729-0121177



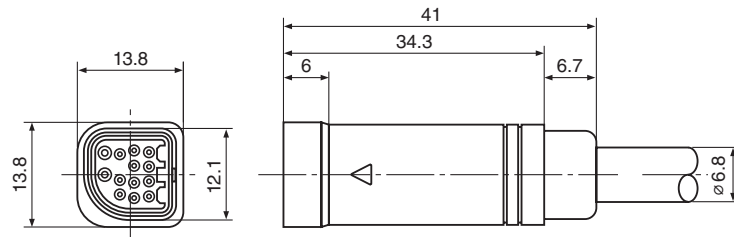
Hole Layout  
(Bottom View)

Keyway	A	B
Arrangement		
Screw		
Model No.	M 2.6x0.45 TAP	TCS7729-0121177
	M 3x0.5 TAP	TCS7729-0120177
Combinations with plugs	TCP8951-210105	TCP8955-210105
	TCP8953-210105	TCP8957-210105
	TCP8959-210105	TCP8961-010105

## TCS7730 / 7745 Series



TCS7730-210105



Keyway	A	B
Arrangement		
Model No.	TCS7730-210105	TCS7745-010100
Combinations with plugs	TCP8951-210105	TCP8955-010100
	TCP8953-210105	TCP8957-210105

Color: Black, Gray#1, Gray#2

Plugs are equipped with a cable. (Plugs cannot be sold independently.)

### Specifications (TCP8951 · 8955 · 8953 · 8959 · 8961、TCS7729 · 7741 · 7730 · 7745 Series)

#### Rating

Pin Nos. 1 & 2: 3A 16V DC max.

Pin Nos. 3 - 13: 2A 12V DC max.

#### Insulation Resistance:

50MΩ min. at 250V DC

#### Dielectric Strength:

250V AC / 1 minute

#### Contact Resistance:

30mΩ max.

#### Engaging Force:

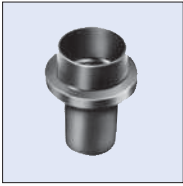
44N max.

#### Separating Force:

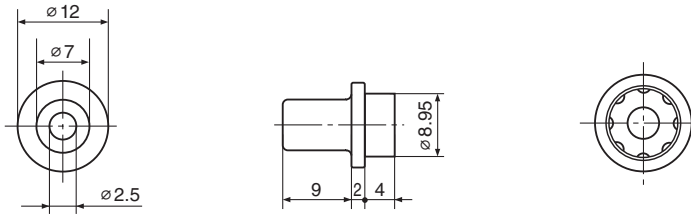
5.9N to 29N

■ Insulating Caps can be used for dust protection and protection of ICs from damage caused by electrostatic discharge from outside of electronic equipment.

**TCP9906**

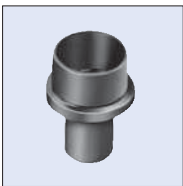


TCP9906-01-0100

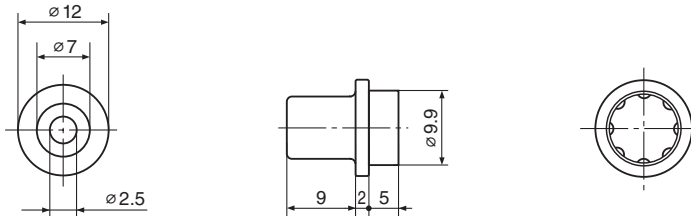


Combinations with Sockets: TCS7500, TCS7600 Series

**TCP9907**



TCP9907-01-0100

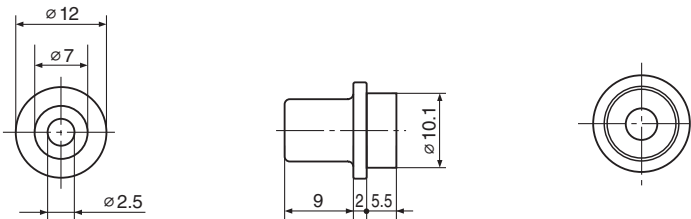


Combinations with Sockets: TCS7928, TCS7913, TCS7712 Series

**TCP9910**



TCP9910-01-0100

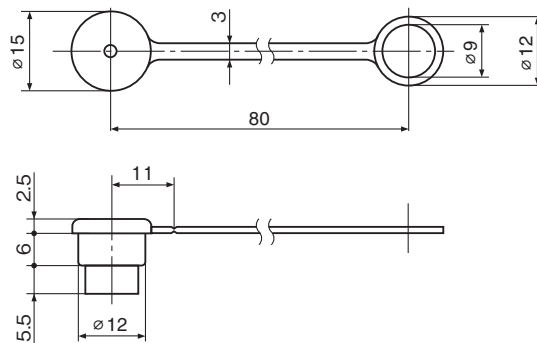


Combinations with Sockets: TCS6100 Series

**TCP9911**



TCP9911-01-0100



Combinations with Sockets: TCS61□5, TCS6100 Series

## ■ Model No. Table

Model No.	Page	Model No.	Page	Model No.	Page	Model No.	Page
		TCP8943	32	TCS7185-210105	24	TCS7724-7120177	39
		TCP8945	37	TCS7187-012177	25	TCS7726	12
TCP6180-0111267	27	TCP8946-010105	38	TCS7282-0121177	25	TCS7729-0121177	41
TCP7180	8	TCP8947-010105	39	TCS7286-0124177	25	TCS7730-210105	41
TCP7285-010105	10	TCP8948-210105	35	TCS75□7	14	TCS7737-2620887	14
TCP7286-010105	10	TCP8949-010105	35	TCS75□8	13	TCS7888-0110177	29
TCP8380	8	TCP8951-210105	40	TCS75□9	13	TCS7909-18-0100	24
TCP8580	7	TCP8953-210105	40	TCS7587-0121077	14	TCS7910-18-201	23
TCP8680	9	TCP8959-210105	40	TCS7688-01-201	19	TCS7913-01-201	33
TCP8685	9	TCP9906-01-0100	42	TCS7689-5120177	21	TCS7913-4320177	33
TCP8780	7	TCP9907-01-0100	42	TCS7705-0120177	36	TCS7926-15-301	19
TCP8920	32	TCP9910-010100	42	TCS7712-0120177	34	TCS7927	15
TCP8926	32	TCP9911-010100	42	TCS7715-010105	36	TCS7928-0120177	33
TCP8938	35	TCS6180-0110177	26	TCS7717-010105	34	TCS7930-18-401	13
TCP8939-27	30	TCS6185-011125	28	TCS7718-0120177	36	TCS7931-18-401	13
TCP8939-29	31	TCS6186-0123177	26	TCS7721-5120177	37	TCS7932-14-211	22
TCP8942	32	TCS7136-01-201	20	TCS7722-7120177	38	TCS7934-01-201	18
						TCS7935-14-201	21
						TCS7939-1440177	29
						TCS7940-0120177	20
						TCS7943-01-0100	23
						TCS7948-01-201	20
						TCS7949-01-202	22
						TCS7953-14-201	18
						TCS7959-14-201	17
						TCS7963-01-201	34
						TCS7969-14-101	16
						TCS7976-14-201	16
						TPX3784	11



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