

## Series A, IP68,



## Description of Series A

SN	Descript	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
		T	1	1	A	A	R	—	P	0	8	X	F	G	0	—	0	0	0	0
1	Type: Straight plug = T1, TX Floating receptacle = F1 Receptacle = ZK, Z8, ZX																			
2																				
3	Size: 0, 1, A, 2, 3, E																			
4	Series: A																			
5	Coding: A-D																			
6	Housing material/plating: R																			
8	Insulator materials																			
9	Number of pins																			
10																				
11	Pin/socket type																			
12	Contact/socket diameter																			
13	Termination cross section																			
14	0																			
16	0																			
17	Front nut: 0 (standard)																			
18	0																			
19	Receptacle grounding lug - ZK and Z8 receptacles: L																			

## Housing size (scale 1:1)

OD = Outer diameter of the plug (unit: mm)  
S=Size

OD				
S	0 (smaller version)	0	1	1.5
No.	0	0	1	A

OD = Outer diameter of the plug (unit: mm)  
S=Size

OD			
S	2	3	4.5
No.	2	3	E

## Plug (T1)

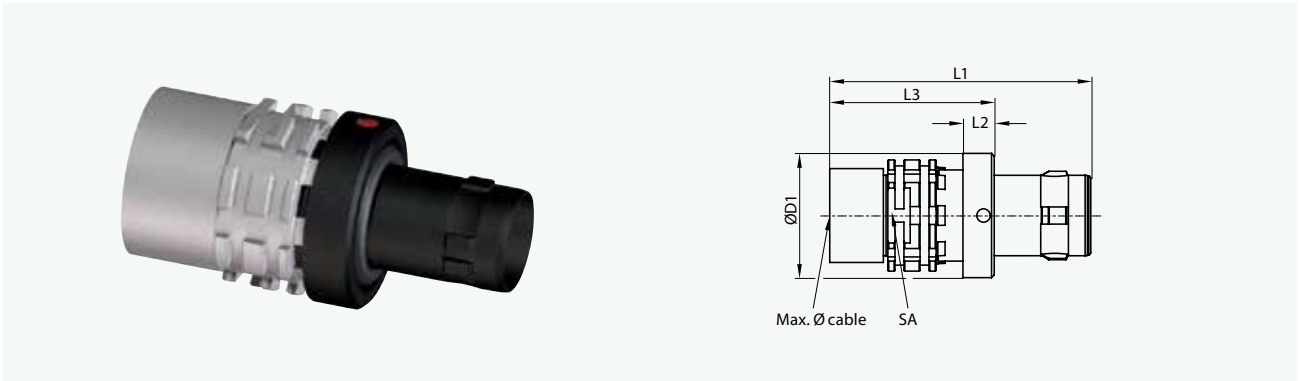
T 1 IP68, Break away plug



Unit (mm)						
Size	L1	L2	L3	D1	SA	Maximum cable diameter
0	25.0	3.0	15.0	11.9	9	5.5
1	29.2	3.5	18.4	13.9	11	6.5
1.5	28.5	3.5	18.5	15.9	12	8.0
2	31.0	4.0	19.0	17.6	14	10.0
3	37.5	4.0	22.4	21.9	18	11.5

## Plug (TX)

**T X** IP68, Break away plug



Unit (mm)						
Size	L1	L2	L3	D1	SA	Maximum cable diameter
0	24.0	3.0	15.0	11.9	10	7.5



## Socket

The receptacle type of Series A is the same as Series X; please refer to P110-P113

## Coding, housing materials and surface plating

### Coding

Coding	Front view of the receptacle	Color Coding	
A			Light brown
B			Red
C			Blue
D			Green

### Housing material and surface plating

No.	Housing material and surface plating
R	Aluminum alloy / chrome plating (grey)
K	Copper alloy / chrome plating (grey)

## Insulator materials

PEEK material, turned pin

No.	Termination	PEEK
P	Soldering	●
	PCB	●



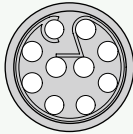
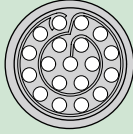
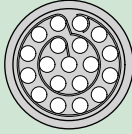
## Number of contacts Size 0

Size	Insulator materials	Number of pins		Pin diameter mm	current load per pin A	Test voltage between contacts KV	Working voltage KV	Termination method		View on the termination side	
								Soldering	PCB	Pin	Socket
0	P	0	2	0.9	10	1.200	0.400	●	●		
0	P	0	3	0.9	10	1.200	0.400	●	●		
0	P	0	4	0.7	7	0.900	0.300	●	●		
0	P	0	5	0.7	7	0.900	0.300	●	●		
0	P	0	6	0.5	5	0.900	0.300	●	●		
0	P	0	7	0.5	5	0.900	0.300	●	●		
0	P	0	9	0.5	5	0.600	0.200	●	●		
0	P	1	0	0.5	5	0.600	0.200	●	●		

## Number of contacts Size 1

Size	Insulator materials	Number of pins		Pin diameter mm	current load per pin A	Test voltage between contacts KV	Working voltageKV	Termination method		View on the termination side	
								Soldering	PCB	Pin	Socket
1	P	0	5	0.9	10	1.350	0.450	●	●		
1	P	0	8	0.7	7	1.000	0.333	●	●		
1	P	1	4	0.5	5	0.900	0.300	●	●		
1	P	1	6	0.5	5	0.900	0.300	●	●		

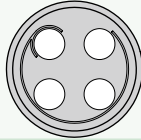
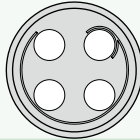
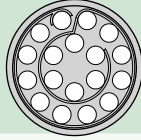
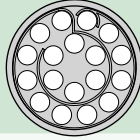
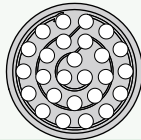
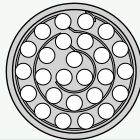
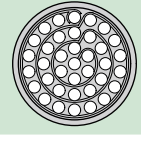
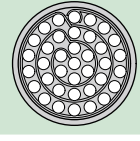
## Number of contacts Size 1.5

Size	Insulator materials	Number of pins		Pin diameter mm	current load per pin A	Test voltage between contacts KV	Working voltageKV	Termination method		View on the termination side	
								Soldering	PCB	Pin	Socket
A	P	1	0	0.7	7	1.200	0.400	●	●		
A	P	1	9	0.5	5	1.000	0.333	●	●		

## Number of contacts Size 2

Size	Insulator materials	Number of pins		Pin diameter mm	current load per pin A	Test voltage between contacts KV	Working voltageKV	Termination method		View on the termination side	
								Soldering	PCB	Pin	Socket
2	P	0	6	1.3	1.4	1.500	0.500	●	●		
2	P	1	9	0.7	7	1.000	0.333	●	●		
2	P	2	6	0.5	5	0.900	0.300	●	●		

## Number of contacts Size 3

Size	Insulator materials	Number of pins		Pin diameter mm	current load per pin A	Test voltage between contacts KV	Working voltageKV	Termination method		View on the termination side	
								Soldering	PCB	Pin	Socket
3	P	0	4	2.0	22	1.650	0.550	●	●		
3	P	1	8	0.9	10	1.350	0.450	●	●		
3	P	2	6	0.7	7	1.000	0.333	●	●		
3	P	3	7	0.5	5	0.900	0.300	●	●		

## Number of contacts Size 4.5

Size	Insulator materials	Number of pins		Pin diameter mm	current load per pin A	Test voltage between contacts KV	Working voltageKV	Termination method		View on the termination side	
								Soldering	PCB	Pin	Socket
E	P	5	5	0.7	7	1.000	0.333	●	●		

## Pin/socket type, surface plating and pin/socket diameter

### Contact/SocketType、 Surface plating

Type	No.	Surface plating
Socket	W	L-1 $\mu\text{m Au}$ (min.)
Contact	X	L-1 $\mu\text{m Au}$ (min.)
Socket	U	P-1 $\mu\text{m Au}$ (min.)
Contact	V	P-1 $\mu\text{m Au}$ (min.)

L=Soldering

P=PCB

### Contact/socket diameter

Contact/socket diameter	No.
0.50	C
0.70	F
0.90	J
1.30	P
2.0	T

## Pin/socket diameter and termination cross section

### Soldering

Size	Contact/ socket diameter mm	Contact/socket diameterNo.	Termination cross sectionNo.	Termination cross section		Termination diameter
				AWG	mm <sup>2</sup>	
0	0.5	C	D	26	0.15	
0	0.7	F	G	22	0.38	
0	0.9	J	G	22	0.38	
1	0.5	C	D	26	0.15	
1	0.7	F	G	22	0.38	
1	0.9	J	G	22	0.38	
1.5	0.5	C	D	26	0.15	
1.5	0.7	F	G	22	0.38	
2	0.5	C	D	26	0.15	
2	0.7	F	G	22	0.38	
2	1.3	P	H	20	0.5	
3	0.5	C	D	26	0.15	
3	0.7	F	G	22	0.38	
3	0.9	J	G	22	0.38	
3	2.0	T	S	12	2.5	
4.5	0.7	F	G	22	0.38	

### PCB

Size	Contact/ socket diameter mm	Contact/socket diameterNo.	Termination cross sectionNo.	Termination cross section		Termination diameter
				AWG	mm <sup>2</sup>	
0	0.5	C	0			0.5
0	0.7	F	0			0.5
0	0.9	J	0			0.7
1	0.5	C	0			0.5
1	0.7	F	0			0.5
1	0.9	J	0			0.7
1.5	0.5	C	0			0.5
1.5	0.7	F	0			0.5
2	0.5	C	0			0.5
2	0.7	F	0			0.5
2	1.3	P	0			0.7
3	0.5	C	0			0.5
3	0.7	F	0			0.5
3	0.9	J	0			0.7
3	2.0	T	0			0.7
4.5	0.7	F	0			0.5