

Series X, IP68



Part Description of Series X

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

Housing size (scale 1:1)

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

OD			
S	0	1	1.5
No.	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)

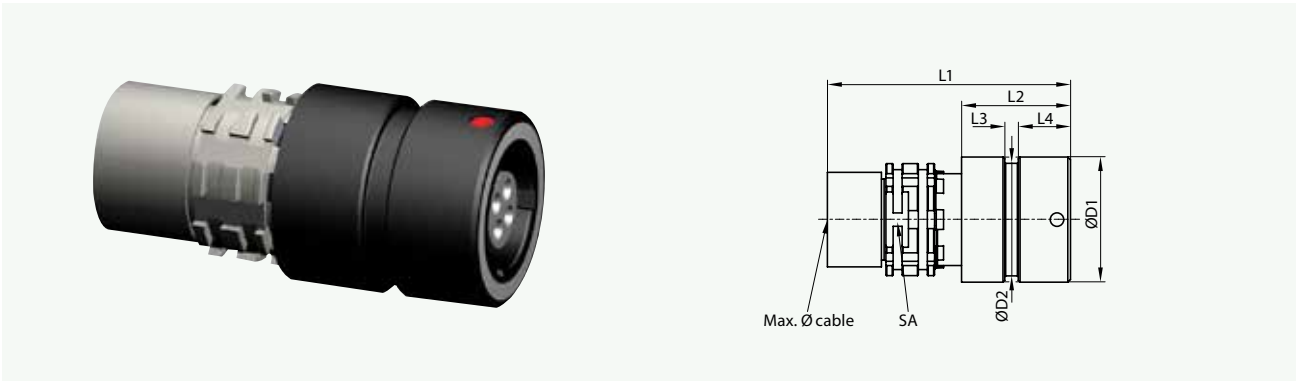
T 1 IP68, push-pull plug



Unit: mm									
Size	L1	L2	L3	L4	D1	D2	D3	SA	Maximum cable diameter
0	31.4	1.5	21.4	10.4	11.9	14.0	12.0	7	5.5
1	33.2	1.5	22.4	11.4	13.9	15.9	13.9	8	6.5
1.5	32.7	1.5	22.7	11.7	14.5	16.5	14.5	10	8.0
2	35.2	1.5	23.2	12.2	17.6	19.6	17.6	12	10.0
3	38.3	1.5	23.2	12.2	21.9	23.9	22.0	14	11.5
4.5	52.6	2.2	34.1	18.1	29.8	33.0	30.0	21	17.5

Floating receptacle (F1)

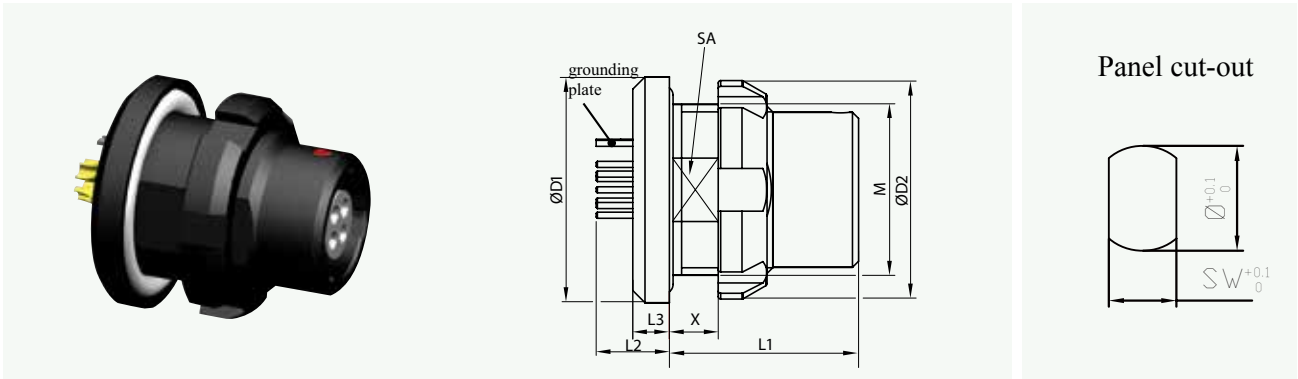
F 1 IP68, floating receptacle



Unit: mm								
Size	L1	L2	L3	L4	D1	D2	SA	Maximum cable diameter
0	25.0	13.0	1.5	5.8	11.9	10.5	9	5.5
1	27.0	12.1	1.5	5.8	13.9	12.5	11	6.5
1.5	27.0	12.0	1.5	5.8	15.9	14.5	12	8.0
2	30.0	15.0	1.5	5.8	17.6	16.2	14	10.0
3	38.0	19.5	1.5	5.8	21.9	20.8	18	11.5

Receptacle (ZK)

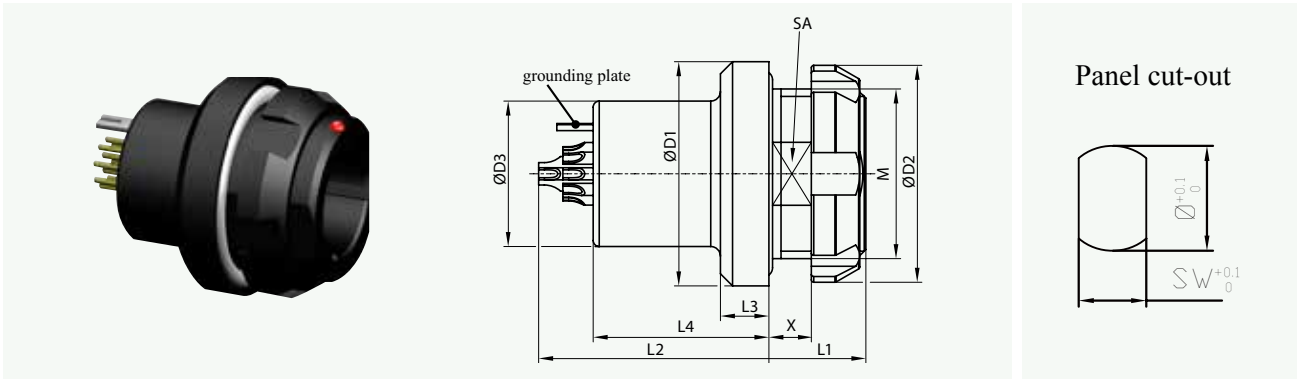
Z K IP68, install from rear of panel



Unit: mm									Panel hole size	
Size	L1	L2	L3	X	D1	D2	SA	M	SW	Ø
0	~13.0	~7.5	2.5	5	15.5	15.0	10	11×0.75	10.1	11.1
1	~15.5	~8.5	3.0	4	18.5	17.9	13	14×1	13.1	14.1
A	~14.2	~8.5	3.0	4	18.9	17.9	13	14×1	13.1	14.1
2	~17.5	~9.5	3.0	4	20.8	21.9	15	16×1	15.1	16.1

Receptacle (Z8)

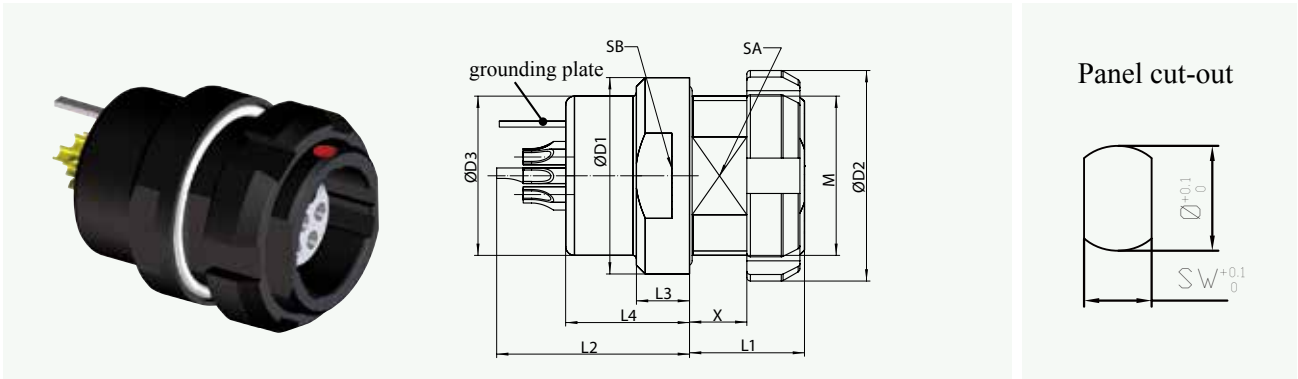
Z 8 IP68, install from rear of panel



Size	Unit: mm										Panel hole size	
	L1	L2	L3	L4	X	D1	D2	D3	SA	M	SW	Ø
0	~6.5	~11.0	3.0	7.5	~3.0	15.5	15.0	10.0	10	11×0.75	10.1	11.1
1	~8.0	~19.0	4.0	14.5	~3.5	18.5	17.9	12.0	13	14×1	13.1	14.1
A	~7.0	~17.7	2.5	12.5	~3.0	18.9	17.9	14.0	13	14×1	13.1	14.1
2	~8.0	~21.5	4.0	15.0	~3.0	20.8	21.9	14.5	15	16×1	15.1	16.1
3	~11.0	~22.5	4.0	15.5	~5.5	26.0	25.0	18.0	18	20×1	18.1	20.1
E	~13.0	~19.0	5.0	13.0	~6.5	39.0	37.5	27.0	27	30×1.5	27.1	30.1

Receptacle (ZX)

Z X IP68, install from rear of panel



Unit: mm												Panel hole size	
Size	L1	L2	L3	L4	X	D1	D2	D3	SA	SB	M	SW	Ø
0	~6.5	~11.0	3.0	7.0	~3.0	11.1	11.9	9.0	7.85	10	9×0.5	8.0	9.1

Only match with the TX plug in series A, size 0

Coding, housing materials and surface plating

Coding

	Coding	Front view of the receptacle	Color Coding	
Standard	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 contact

No.	Termination method	PEEK
P	Soldering	●
	PCB	●

Number of contacts

Size 0

Size	Insulator material	Number of pins		Pin diameter mm	Single-pin load current A	Test voltage between contacts KV	Operating 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	●	●		

PCB layout Size 0

Number of pins	Layout	Z8 PCB Pin X (mm) Figure 1	ZK PCB Pin Y (mm) Figure 2	Number of pins	Layout	Z8 PCB Pin X (mm) Figure 1	ZK PCB Pin Y (mm) Figure 2
2-pin		3.5	3.5	6-pin		3.5	3.3
3-pin		3.5	3.5	7-pin		3.5	3.3
4-pin		3.5	3.5	9-pin		3.5	3.1
5-pin		3.5	3.5	10-pin		3.5	3.1

Figure 1: Grounding Plate and PCB Contact Length of Z8 Receptacle

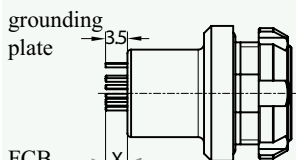
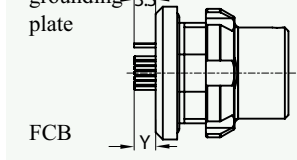


Figure 2: Grounding Plate and PCB Contact Length of ZK Receptacle



Number of contacts

Size 1

Size	Insulator material	Number of pins		Pin diameter mm	Single-pin load current A	Test voltage between contacts KV	Operating voltage KV	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	●	●		

PCB layout Size 1

Number of pins	Layout	Z8 PCB Pin X (mm) Figure 1	ZK PCB Pin Y (mm) Figure 2
5-pin		3.5	3.0
8-pin		3.5	3.0
14-pin		3.0	3.0
16-pin		3.0	3.0

Figure 1: Grounding Plate and PCB Contact Length of Z8 Receptacle

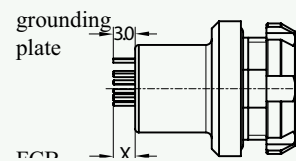
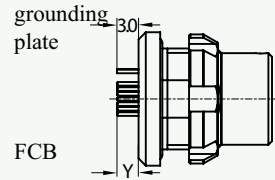


Figure 2: Grounding Plate and PCB Contact Length of ZK Receptacle



Number of contacts Size 1.5

Size	Insulator material	Number of pins		Pin diameter mm	Single-pin load current A	Test voltage between contacts KV	Operating voltage KV	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	●	●		

PCB layout Size 1.5

Number of pins	Layout	Z8 PCB Pin X (mm) Figure 1	ZK PCB Pin Y (mm) Figure 2
10-pin		3.2	3.0
19-pin		3.2	3.0

Figure 1: Grounding Plate and PCB Contact Length of Z8 Receptacle

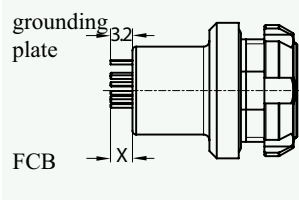
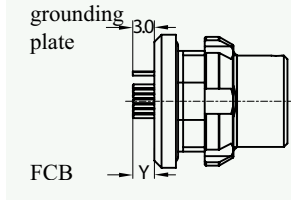


Figure 2: Grounding Plate and PCB Contact Length of ZK Receptacle



Number of contacts

Size 2

Size	Insulator material	Number of pins		Pin diameter mm	Single-pin load current A	Test voltage between contacts KV	Operating voltage KV	Termination method		View on the termination side	
								Soldering	PCB	Pin	Socket
2	P	0	6	1.3	14	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	●	●		

PCB layout Size 2

Number of pins	Layout	Z8 PCB Pin X (mm) Figure 1	ZK PCB Pin Y (mm) Figure 2
6-pin		4.5	3.0
19-pin		5.5	3.0
26-pin		5.5	3.0

Figure 1: Grounding Plate and PCB Contact Length of Z8 Receptacle

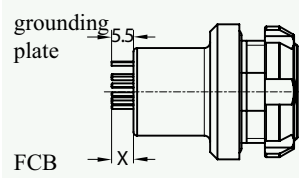
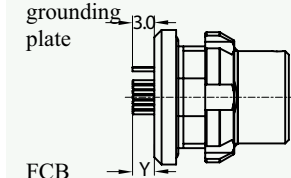


Figure 2: Grounding Plate and PCB Contact Length of ZK Receptacle



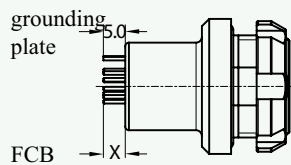
Number of contacts Size 3

Size	Insulator material	Number of pins		Pin diameter mm	Single-pin load current A	Test voltage between contacts KV	Operating voltage KV	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	●	●		

PCB layout Size 3

Number of pins	Layout	Z8 PCB Pin X (mm) Figure 1
4-pin		5.0
18-pin		4.5
26-pin		4.5
37-pin		4.5

Figure 1: Grounding Plate and PCB Contact Length of Z8 Receptacle



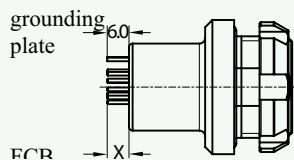
Number of contacts Size 4.5

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

PCB layout Size 4.5

Number of pins	Layout	Z8 PCB Pin X (mm) Figure 1
55-pin		6.0

Figure 1: Grounding Plate and PCB Contact Length of Z8 Receptacle



Contact/socket type, surface plating and contact/socket diameter

Contact/socket type, 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

Contact/socket diameter and termination cross section

Soldering

Size	Contact/ socket diameter mm	Contact/ socket diameterNo.	No. of termination cross section	Termination cross section		Termination diameter
				AWG	mm ²	
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.	No. of termination cross section	Termination cross section		Termination diameter
				AWG	mm ²	
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	0.9	J	0			0.7
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

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																			
2	Receptacle = ZK, Z8, ZX																			
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)

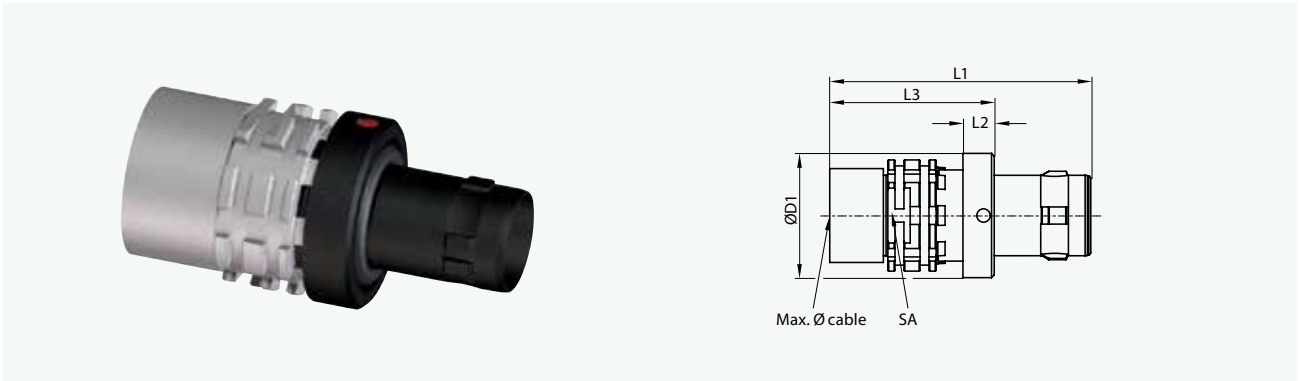
T 1 IP68, Break away plug



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

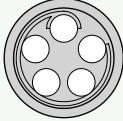
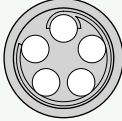
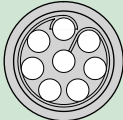
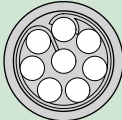
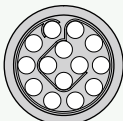
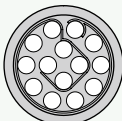
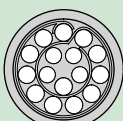
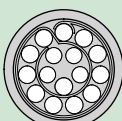
PEEK material, turned pin

No.	Termination	PEEK
P	Soldering	●
	PCB	●

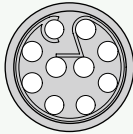
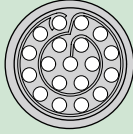
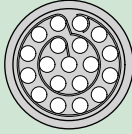
Number of contacts Size 0

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	●	●		

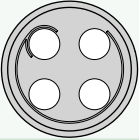
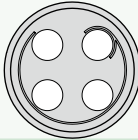
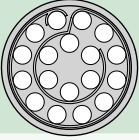
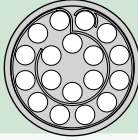
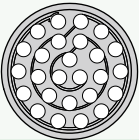
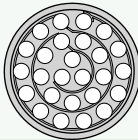
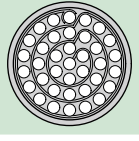
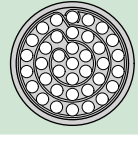
Number of contacts Size 1.5

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 ²	
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 ²	
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

Series Y, IP68

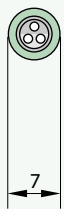

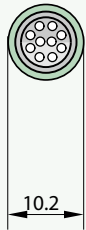


Description of Series Y

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

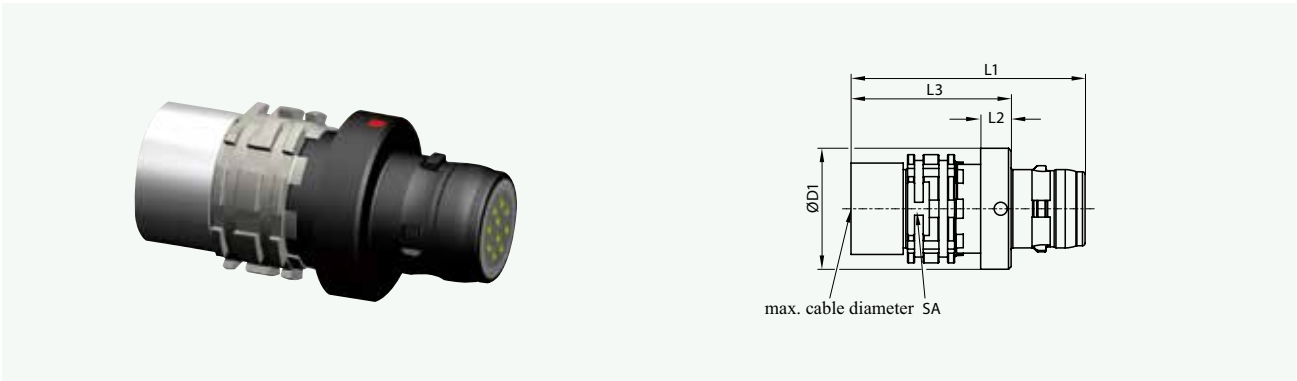
Housing size (scale 1:1)

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

OD			
S	0	1	1.5
No.	0	1	A

Plug (T1)

T 1 IP68, easy-to-clean plug



Unit (mm)						
Size	L1	L2	L3	D1	SA	Maximum cable diameter
0	~23.5	3.0	15.0	11.9	9	5.5
1	~26.9	3.5	18.4	13.9	11	6.5
A	~27.5	3.5	18.5	15.9	12	8.0

Receptacle (F1)

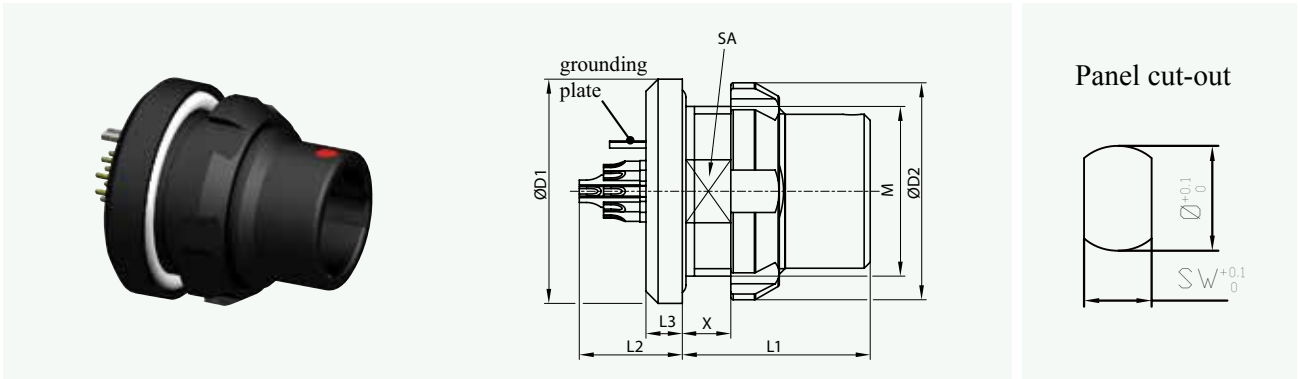
F 1 IP68, floating receptacle



Unit (mm)								
Size	L1	L2	L3	L4	D1	D2	SA	Maximum cable diameter
0	25.0	13.0	1.5	5.8	11.9	10.5	9	5.5
1	27.0	12.1	1.5	5.8	13.9	12.5	11	6.5
A	27.0	12.0	1.5	5.8	15.9	14.5	12	8.0

Receptacle (ZK)

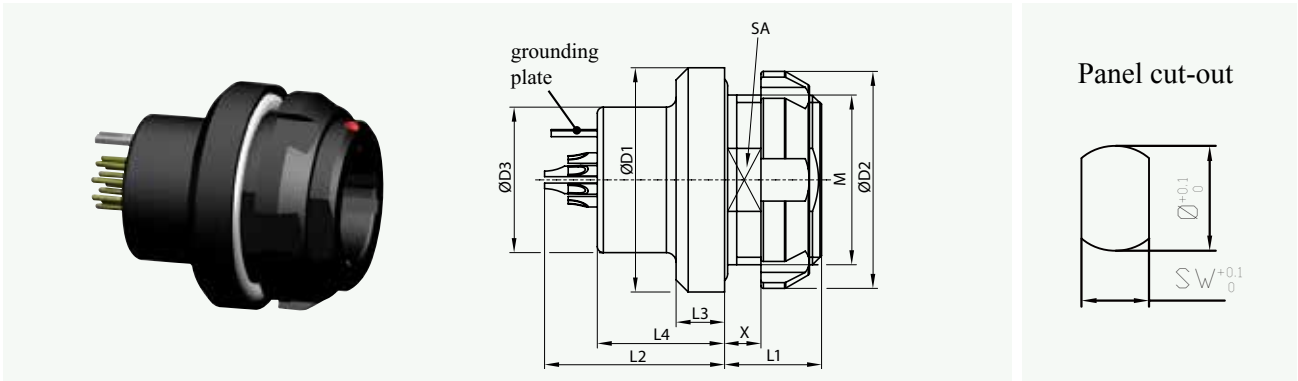
Z K IP68, install from rear of panel



Size	Unit (mm)								Panel hole size	
	L1	L2	L3	X (max.)	D1	D2	SA	M	SW	Ø
0	15.5	7.3	2.5	7.0	15.5	10	10	11×0.75	10.1	11.1
1	15.5	7.4	3.0	4.0	18.5	17.9	13	14×1	13.1	14.1
A	16.5	8.2	3.0	5.5	18.9	17.9	13	14×0.75	13.1	14.1

Receptacle (Z8)

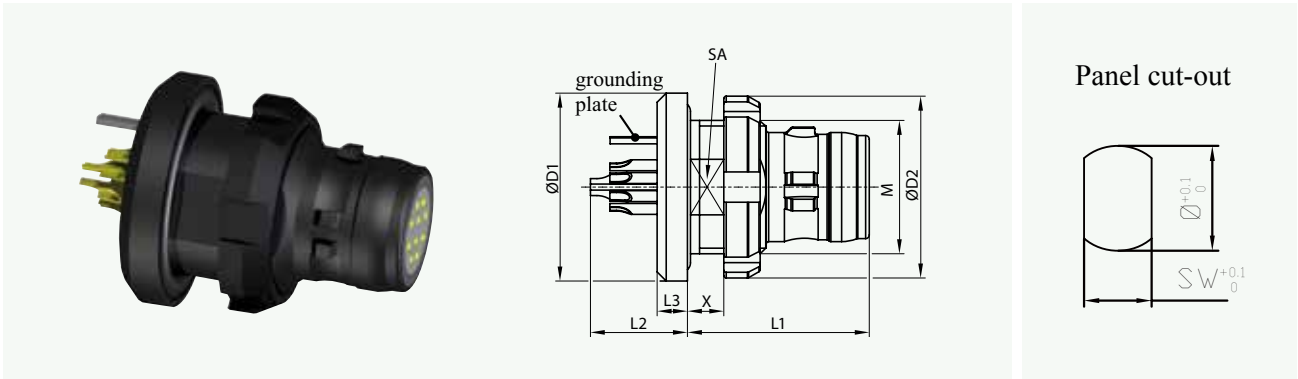
Z 8 IP68, install from rear of panel



Size	Unit (mm)										Panel hole size	
	L1	L2	L3	L4	X (max.)	D1	D2	D3	SA	M	SW	Ø
0	6.5	16.3	3.0	11.5	3.0	15.5	15.0	10.0	10.0	11×0.75	10.1	11.1
1	8.0	14.9	4.0	10.5	3.5	18.5	17.9	12.0	13	14×1	13.1	14.1
A	7.0	17.7	2.5	12.5	3.0	18.9	17.9	14.0	13	14×0.75	13.1	14.1

Receptacle (ZW)

Z W IP68, docking plug



Size	Unit (mm)								Panel hole size	
	L1	L2	L3	X (max.)	D1	D2	SA	M	SW	Ø
0	15.0	6.4	2.5	3.0	13.2	12.8	9.2	10×0.5	9.3	10.1
1	15.0	8.0	2.5	3.5	15.5	15.0	10.0	11×0.75	10.1	11.1
A	16.5	9.7	4.0	3.5	17.5	17.9	13.0	14×0.75	13.1	14.1

Coding, housing materials and surface plating

Coding

	Coding	Front view of the receptacle	Color Coding	
Standard	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 method	PEEK
P	Soldering	●

Spring pin

Environmental parameters

Operating temperature range

Stainless steel: -51°C -+125°C

Materials

Contact Gold-plated copper alloy

Solder cup Tin-plated copper alloy

Spring Stainless steel

Clip Beryllium copper plating

Mechanical parameters

Minimum diameter 0.8mm

Minimum initial length 9mm

Shrinking rate Max 0.15

Stroke 1.5mm

Minimum initial elastic force 0.2N

mating cycles 40,000 cycles

Electrical parameters

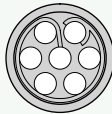
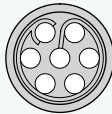
Contact resistance Max. 20mΩ

Maximum operating current Continuous operating current 2A/peak current 4A



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 voltageKV	Termination method		View on the termination side	
								Soldering	PCB	Pin	Socket
0	P	0	7	0.6	2	0.600	0.200	●	●		

PCB layout Size 0

Number of pins	Layout	Z8 PCBPin X (mm) Figure 1	ZK PCBPin X (mm) Figure 2	ZW PCBPin X (mm) Figure 3
7		4.3	4.3	3.0

Figure 1: Grounding Plate and PCB Pin Length of Z8 Receptacle

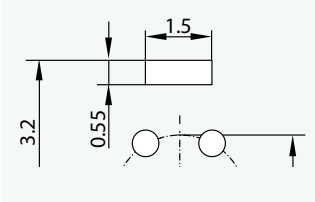


Figure 2: Grounding Plate and PCB Pin Length of ZK Receptacle

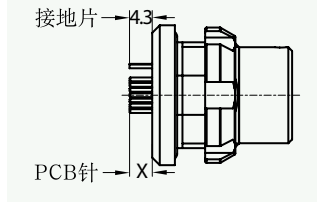
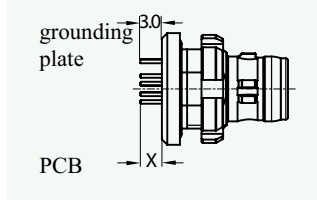


Figure 3: Grounding pin and PCB Pin Length of ZW Receptacle



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 V	Termination method		View on the termination side	
								Soldering	PCB	Pin	Socket
1	P	1	0	0.6	2	0.600	0.200	●	●		
1	P	1	6	0.6	2	0.600	0.200	●	●		

PCBLayout Size 1

Number of pins	Layout	Z8 PCBPin X (mm) Figure 1	ZK PCBPin X (mm) Figure 2	ZW PCBPin X (mm) Figure 3
10		3.8	3.8	3.0
16		3.8	3.8	3.0

Figure 1: Grounding Plate and PCB Pin Length of Z8 Receptacle

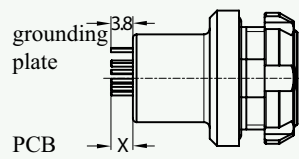


Figure 2: Grounding Plate and PCB Pin Length of ZK Receptacle

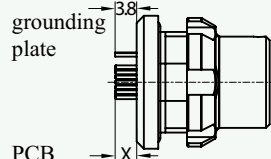
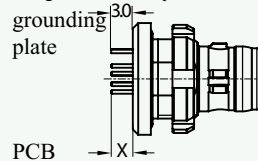
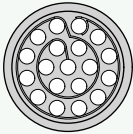
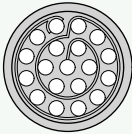


Figure 3: Grounding pin and PCB Pin Length of ZW Receptacle



Number of contacts Size 1.5

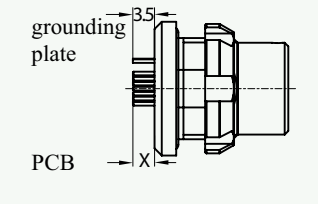
Size	Insulator materials	Number of pins		Pin diameter mm	current load per pin A	Test voltage between contacts KV	Working voltageKV	Termination method		View on the termination side	
								Soldering	PCB	Pin	Socket
A	P	1	9	0.6	2	0.600	0.200	●	●		

PCB layout

Size 1.5

Number of pins	Layout	ZK PCBPin X (mm) Figure 1
19-pin		3.5

Figure 1: Grounding Plate and PCB Pin Length of ZK Receptacle



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.
0.6	D
0.6	D
0.6	C

Pin/socket diameter and termination cross section

Soldering

Size	Pin/ socket diameter mm	Contact diameter	Termination cross sectionNo.	Termination cross section		Termination diameter
				AWG	mm ²	
0	0.6	D	D	26	0.15	
1	0.6	D	D	26	0.15	
1.5	0.6	C	C	26	0.15	

PCB

Size	Pin/ socket diameter mm	Contact diameter	Termination cross sectionNo.	Termination cross section		Termination diameter
				AWG	mm ²	
0	0.6	D	0			0.5
1	0.6	D	0			0.5
1.5	0.6	C	0			0.5