

YD Circular Connector

Coupling: Thread
Terminal: Solder



Plug (straight)

TQ-PG **



Plug (90° angled)

TS-PG **

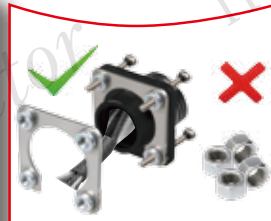


Receptacle

TQ **



TS **



Connectors are applied to the rail transport, electric power equipment, engineering machinery, thermoplastic machinery, industrial automation, robot, high and low voltage electric control cabinets electrical connection and signal transmission.



ISO9001



ISO14001



ISO45001





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华伦连接器
HuaLun Connector

Profile

Design standard: IEC61984.

Technical Data:

① Coupling: thread ② Terminal: solder ③ Equipped with lengthened grounding pin in first mate/last break structure.

◆ Shell Spec: 20, 28, 32, 40, 48, 55.

◆ No. of Contacts: 2-86pins, more than 100 spec.

◆ Plug: ① straight ② 90° angled

◆ Four types of outlets.

◆ Our products conform to German TUV, America UL, European CE and passed the RoHS test.

◆ Degree of protection: IP65

◆ The products are used for electrical circuit connection and signal transmission of various mechanical equipment

Hualun connectors are appointed by Chinese rail transport, engineering machinery, power electric power, thermoplastic machinery, industrial automation, and robot manufacturing enterprises. as a perennial supporting product.

CERTIFICATE



ISO9001



ISO14001



ISO45001



High-tech Enterprise Certificate



Foreign Invested Advanced



Enterprise Credit Rating AAA



Software Copyright



ISO9001, ISO14001, ISO45001



UL for YD series

Live parts should not be disassembled without authorization!!!



TIPS

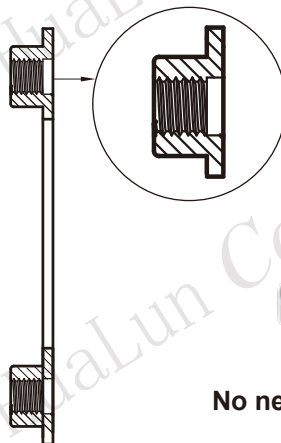
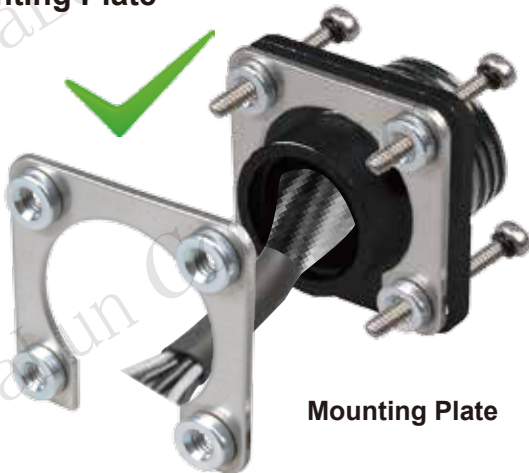
- 1 After the wire is welded, be sure to seal the heat shrinkable sleeve at the welding site



- 2 Especially Recommended Mounting Plate

Technical advantages:

Convenient and Fast! Firm!



No need 4 mounting nut

Technical Data

● Environmental, Mechanical Features

Operating Temperature	Upper limit+125°C ^{*1}
	Lower limit-55°C ^{*2}
Relative Humidity	93%~95% at 40°C±2°C
Salty Spray Corrosion	≥96h
Protection Degree	IP65/IP67 (when mated, wired and mounted according to DS)
Shock Vibration	Class 1B (GB/T21563-2018)
Mechanical Life	≥500

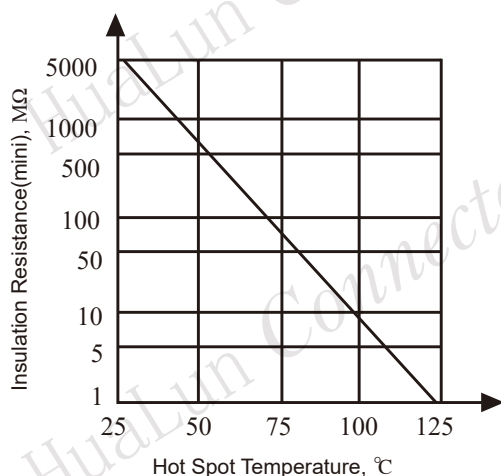
Note: ^{*1} The upper limit temperature is the maximum internal hot spot temperature that occurs in either combination of electrical load and environmental conditions.

^{*2} The minimum allowable operating temperature value of the connector according to the defined climate category (upper and lower limit temperatures and damp heat test time, as defined in the climate category in GB/T2421.1)

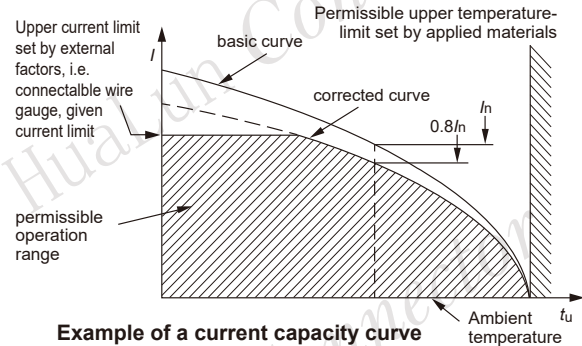
● Electric Features

Degree of Pollution	2 / 3	Overvoltage Category	II / III
Insulation Resistance	Normal: ≥5000MΩ, (Dynamic values see tableA)		
Contact Diameter (mm)	φ 1.5	φ 2.5	
Rated Current	10A	25A	
Rated Voltage	See Contacts Arrangement Page11~18		
Rated Impulse Voltage			
Wire Gauge			
Contact Resistance			
Remark: For High Altitude Low Pressure Environment Refer to GB/T4797.2-2005			

TableA The limit value of insulation resistance varies with temperature



Current-Carrying Capacity Curve (IEC/EN 60512-5)



Example of a current capacity curve

- ◆ The rated current is the continuous, not interrupted current a connector can take when simultaneous power on all contacts is given, without exceeding the maximum temperature.
- ◆ For the rated current of multi-pin connectors, the derating should be shown according to the "derating curve" graph. For the derating rate, please refer to the table below

Contact current De-rating

Qty of contacts	1~10	11~20	21~30	31~50	51~80
Drop rate%	0	10	20	30	40

● Material: RoHS

Shell	Aluminum Alloy (Electrophoresis, Black)
Contact	Copper Alloys (Silver) Gold plating, customize
Insert	Plastic UL Certificate
	Flame Resistance UL94V-0

Dielectric Strength Test Voltage

Rated Impulse Voltage (U _{imp}) kV	Test voltage-Pulse Withstand Voltage kV(1.2/50μs)		Withstand Voltage Test (r.m.s) kV(50/60Hz)
	Altitude 2000m	Sea Level	
0.5	0.5	0.55	0.37
0.8	0.8	0.91	0.50
1.5	1.5	1.75	0.84
2.5	2.5	2.95	1.39
4	4	4.8	2.21

Testing Condition

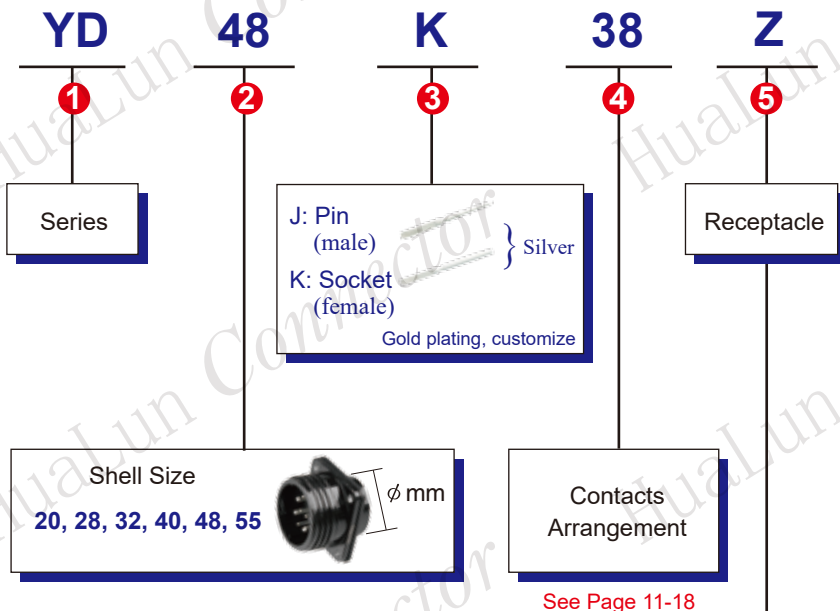
Temperature: 15°C~35°C	Relative Humidity: 20%~80%	Atmospheric Pressure: 73KPa~106KPa
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Part Number

(Explanation)

Receptacle ①

(Panel Mounted)
(No Protective Enclosure)

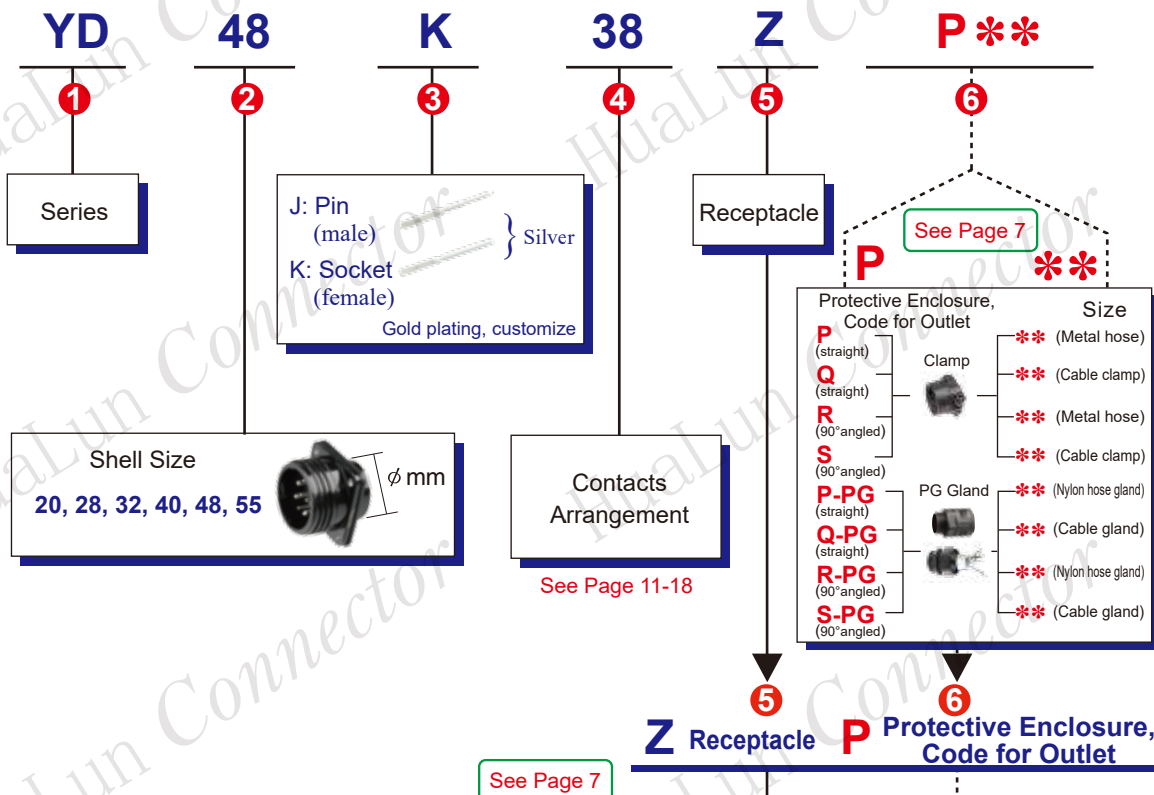
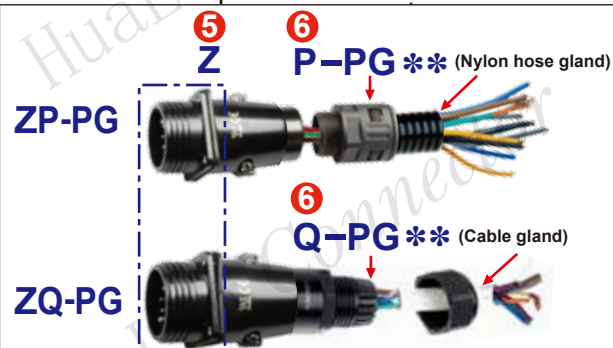
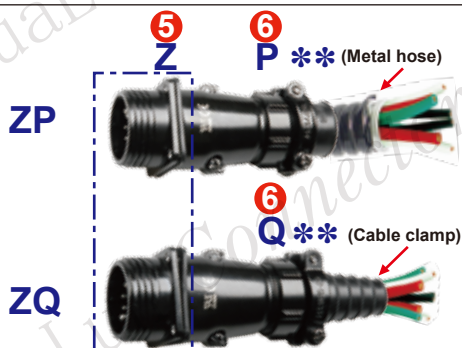
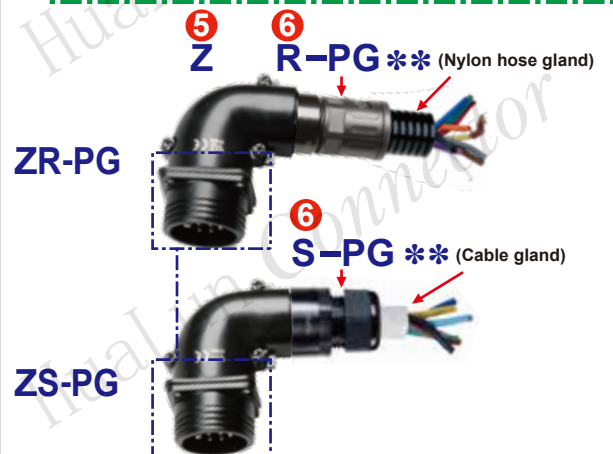
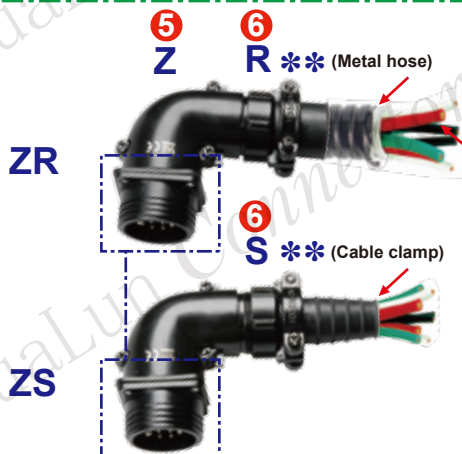


Part Number

(Explanation)

Receptacle ②

(Protective Enclosure)
(Clamp/Gland)


Receptacle
straight

Receptacle
90°
angled


Receptacle-Protective Enclosure, Code for Outlet

ZP **



Code Unit: mm		
Shell Spec	ZP **	Inner diameter of metal hose accessory
20	ZP10	φ10
	ZP12	φ12
28	ZP12	φ12
	ZP15	φ15
32	ZP15	φ15
	ZP20	φ20
40	ZP20	φ20
	ZP25	φ25
48	ZP25	φ25
	ZP32	φ32
55	ZP32	φ32
	ZP38	φ38

ZR **



Code Unit: mm		
Shell Spec	ZR **	Inner diameter of metal hose accessory
20	ZR10	φ10
	ZR12	φ12
28	ZR12	φ12
	ZR15	φ15
32	ZR15	φ15
	ZR20	φ20
40	ZR20	φ20
	ZR25	φ25
48	ZR25	φ25
	ZR32	φ32
55	ZR32	φ32
	ZR38	φ38

ZP-PG **



Code Unit: mm			
Shell Spec	ZP-PG **	ID	O.D
20	ZP-PG9	φ10	φ13
	ZP-PG11	φ12	φ15.8
28	ZP-PG11	φ12	φ15.8
	ZP-PG13.5	φ14.3	φ18.5
32	ZP-PG16	φ17	φ21.2
	ZP-PG13.5	φ14.3	φ18.5
40	ZP-PG16	φ17	φ21.2
	ZP-PG21	φ22	φ28.5
48	ZP-PG16	φ17	φ21.2
	ZP-PG21	φ22	φ28.5
55	ZP-PG29	φ28	φ34.5
	ZP-PG36	φ36	φ42.5

ZR-PG **



Code Unit: mm			
Shell Spec	ZR-PG **	ID	O.D
20	ZR-PG9	φ10	φ13
	ZR-PG11	φ12	φ15.8
28	ZR-PG11	φ12	φ15.8
	ZR-PG13.5	φ14.3	φ18.5
32	ZR-PG16	φ17	φ21.2
	ZR-PG13.5	φ14.3	φ18.5
40	ZR-PG16	φ17	φ21.2
	ZR-PG21	φ22	φ28.5
48	ZR-PG16	φ17	φ21.2
	ZR-PG21	φ22	φ28.5
55	ZR-PG29	φ28	φ34.5
	ZR-PG36	φ36	φ42.5

ZQ **



Code Unit: mm		
Shell Spec	ZQ **	External diameter of cable
20	ZQ9	φ6~9
	ZQ12	φ9~12
28	ZQ12	φ9~12
	ZQ15	φ12~15
32	ZQ15	φ12~15
	ZQ20	φ15~20
40	ZQ20	φ15~20
	ZQ25	φ20~25
48	ZQ25	φ20~25
	ZQ32	φ25~32
55	ZQ32	φ25~32
	ZQ36	φ32~36

ZS **



Code Unit: mm		
Shell Spec	ZS **	External diameter of cable
20	ZS9	φ6~9
	ZS12	φ9~12
28	ZS12	φ9~12
	ZS15	φ12~15
32	ZS15	φ12~15
	ZS20	φ15~20
40	ZS20	φ15~20
	ZS25	φ20~25
48	ZS25	φ20~25
	ZS32	φ25~32
55	ZS32	φ25~32
	ZS38	φ32~36

ZQ-PG **



Code Unit: mm		
Shell Spec	ZQ-PG **	Cable gland O.D
20	ZQ-PG9	φ4~8
	ZQ-PG11	φ5~10
28	ZQ-PG11	φ5~10
	ZQ-PG13.5	φ6~12
32	ZQ-PG16	φ10~14
	ZQ-PG13.5	φ6~12
40	ZQ-PG16	φ10~14
	ZQ-PG21	φ13~18
48	ZQ-PG16	φ10~14
	ZQ-PG21	φ13~18
55	ZQ-PG29	φ18~25
	ZQ-PG36	φ22~32

ZS-PG **



Code Unit: mm		
Shell Spec	ZS-PG **	Cable gland O.D
20	ZS-PG9	φ4~8
	ZS-PG11	φ5~10
28	ZS-PG11	φ5~10
	ZS-PG13.5	φ6~12
32	ZS-PG16	φ10~14
	ZS-PG13.5	φ6~12
40	ZS-PG16	φ10~14
	ZS-PG21	φ13~18
48	ZS-PG16	φ10~14
	ZS-PG21	φ13~18
55	ZS-PG29	φ18~25
	ZS-PG36	φ22~32



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华伦连接器
HuaLun Connector

Part Number (Explanation)

Plug

YD

1

Series

48

2

Shell Size

20, 28, 32, 40, 48, 55



J

3

J: Pin (male)
K: Socket (female)
Gold plating, customize

Silver

38

4

Contacts Arrangement

See Page 11-18

T

5

Plug

P **

6

See Page 9

Shell Style, Code for Outlet	Size
P (straight)	** (Metal hose)
Q (straight)	** (Cable clamp)
R (90° angled)	** (Metal hose)
S (90° angled)	** (Cable clamp)
P-PG (straight)	** (Nylon hose gland)
Q-PG (straight)	** (Cable gland)
R-PG (90° angled)	** (Nylon hose gland)
S-PG (90° angled)	** (Cable gland)

5

T Plug

6

P Shell Style, Code for Outlet

See Page 9

T Plug
straight

TP

5

T

6

P ** (Metal hose)



TQ

5

T

6

Q ** (Cable clamp)



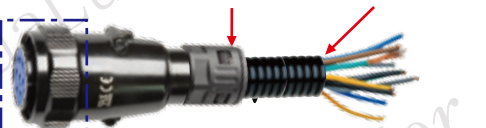
TP-PG

5

T

6

P-PG ** (Nylon hose gland)



TQ-PG

5

T

6

Q-PG ** (Cable gland)



T Plug
90° angled

TR

5

T

6

R ** (Metal hose)



TS

5

T

6

S ** (Cable clamp)



TR-PG

5

T

6

R-PG ** (Nylon hose gland)



TS-PG

5

T

6

S-PG ** (Cable gland)



Plug-Shell Style, Code for Outlet

TP **



Code Unit: mm		
Shell Spec	TP **	Inner diameter of metal hose accessory
20	TP10	φ10
	TP12	φ12
28	TP12	φ12
	TP15	φ15
32	TP15	φ15
	TP20	φ20
40	TP20	φ20
	TP25	φ25
48	TP25	φ25
	TP32	φ32
55	TP32	φ32
	TP38	φ38

TR **



Code Unit: mm		
Shell Spec	TR **	Inner diameter of metal hose accessory
20	TR10	φ10
	TR12	φ12
28	TR12	φ12
	TR15	φ15
32	TR15	φ15
	TR20	φ20
40	TR20	φ20
	TR25	φ25
48	TR25	φ25
	TR32	φ32
55	TR32	φ32
	TR38	φ38

TP-PG **



Code Unit: mm			
Shell Spec	TP-PG **	ID	O.D
20	TP-PG9	φ10	φ13
	TP-PG11	φ12	φ15.8
28	TP-PG11	φ12	φ15.8
	TP-PG13.5	φ14.3	φ18.5
32	TP-PG16	φ17	φ21.2
	TP-PG13.5	φ14.3	φ18.5
40	TP-PG16	φ17	φ21.2
	TP-PG21	φ22	φ28.5
48	TP-PG16	φ17	φ21.2
	TP-PG21	φ22	φ28.5
55	TP-PG29	φ28	φ34.5
	TP-PG36	φ36	φ42.5

TR-PG **



Code Unit: mm			
Shell Spec	TR-PG **	ID	O.D
20	TR-PG9	φ10	φ13
	TR-PG11	φ12	φ15.8
28	TR-PG11	φ12	φ15.8
	TR-PG13.5	φ14.3	φ18.5
32	TR-PG16	φ17	φ21.2
	TR-PG13.5	φ14.3	φ18.5
40	TR-PG16	φ17	φ21.2
	TR-PG21	φ22	φ28.5
48	TR-PG16	φ17	φ21.2
	TR-PG21	φ22	φ28.5
55	TR-PG29	φ28	φ34.5
	TR-PG36	φ36	φ42.5

TQ **



Code Unit: mm		
Shell Spec	TQ **	External diameter of cable
20	TQ9	φ6~9
	TQ12	φ9~12
28	TQ12	φ9~12
	TQ15	φ12~15
32	TQ15	φ12~15
	TQ20	φ15~20
40	TQ20	φ15~20
	TQ25	φ20~25
48	TQ25	φ20~25
	TQ32	φ25~32
55	TQ32	φ25~32
	TQ36	φ32~36

TS **



Code Unit: mm		
Shell Spec	TS **	External diameter of cable
20	TS9	φ6~9
	TS12	φ9~12
28	TS12	φ9~12
	TS15	φ12~15
32	TS15	φ12~15
	TS20	φ15~20
40	TS20	φ15~20
	TS25	φ20~25
48	TS25	φ20~25
	TS32	φ25~32
55	TS32	φ25~32
	TS38	φ32~36

TQ-PG **



Code Unit: mm		
Shell Spec	TQ-PG **	Cable gland O.D
20	TQ-PG9	φ4~8
	TQ-PG11	φ5~10
28	TQ-PG11	φ5~10
	TQ-PG13.5	φ6~12
32	TQ-PG16	φ10~14
	TQ-PG13.5	φ6~12
40	TQ-PG16	φ10~14
	TQ-PG21	φ13~18
48	TQ-PG16	φ10~14
	TQ-PG21	φ13~18
55	TQ-PG29	φ18~25
	TQ-PG36	φ22~32

TS-PG **



Code Unit: mm		
Shell Spec	TS-PG **	Cable gland O.D
20	TS-PG9	φ4~8
	TS-PG11	φ5~10
28	TS-PG11	φ5~10
	TS-PG13.5	φ6~12
32	TS-PG16	φ10~14
	TS-PG13.5	φ6~12
40	TS-PG16	φ10~14
	TS-PG21	φ13~18
48	TS-PG16	φ10~14
	TS-PG21	φ13~18
55	TS-PG29	φ18~25
	TS-PG36	φ22~32

Coupling Map of Receptacle (Panel Mounted) & Plug (Clamp)



Coupling Map of Receptacle (Panel Mounted) & Plug (PG Gland)



Shell Size - Arrangement No.

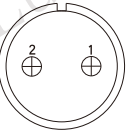
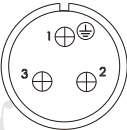
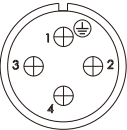
View from mating face

Pin: J K: Socket

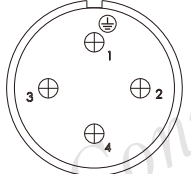
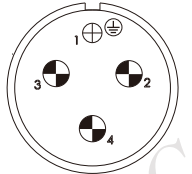
Table 1

⊕: first mate/last break

● ⊕ ⊗ φ: mm

Spec.	YD20		
Qty. of Contacts	2		3 (2+⊕)
Contact Arrangement	Pin J2 K2 Socket	Pin J3 K3 Socket	Pin J4 K4 Socket
			
Contact Diameter×Qty.	φ 2.5 × 2		φ 2.5 × 2 + ⊕
Rated Current	⊕ 25A		⊕ 25A
Rated Voltage	400V		400V
Rated Impulse Voltage	4000V		4000V
Wire Gauge	<2.5mm ²		<2.5mm ²
Contact Resistance	<1mΩ		<1mΩ

Spec.	YD20		
Qty. of Contacts	5 (4+⊕)		5a (4+⊕)
Contact Arrangement	Pin J5 K5 Socket	Pin J5a K5a Socket	Pin J7 K7 Socket
			
Contact Diameter×Qty.	φ 1.5 × 4 + ⊕	φ 1.5 × 2	φ 2.5 × 2 + ⊕
Rated Current	● 10A	● 10A	⊕ 25A
Rated Voltage	250V	250V	400V
Rated Impulse Voltage	2500V	2500V	4000V
Wire Gauge	<1.5mm ²	<1.5mm ²	<2.5mm ²
Contact Resistance	<2.5mΩ	<2.5mΩ	<1mΩ

Spec.	YD28	
Qty. of Contacts	4 (3+⊕)	4a (3+⊕)
Contact Arrangement	Pin J4 K4 Socket	Pin J4a K4a Socket
		
Contact Diameter×Qty.	φ 2.5 × 3 + ⊕	φ 2.5 (⊕)
Rated Current	⊕ 25A	⊗ 50A
Rated Voltage	400V	400V
Rated Impulse Voltage	4000V	4000V
Wire Gauge	<2.5mm ²	<10mm ²
Contact Resistance	<1mΩ	<0.5mΩ



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华伦连接器
HuaLun Connector

Shell Size - Arrangement No.

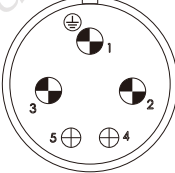
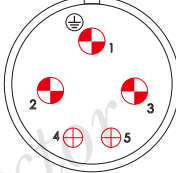
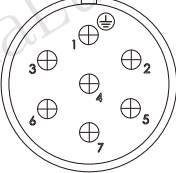
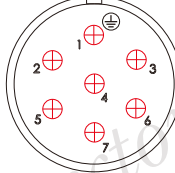
View from mating face

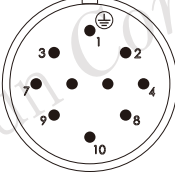
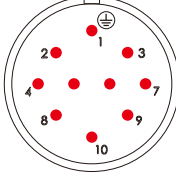
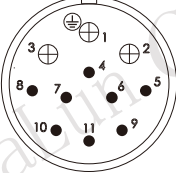
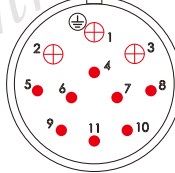
Pin: J K: Socket

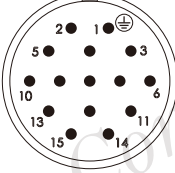
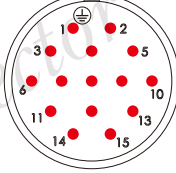
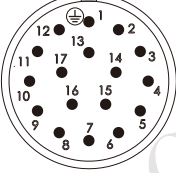
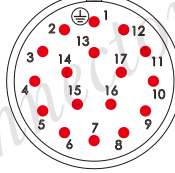
Table 2

⊕: first mate/last break

● ⊕ ⊗ φ: mm
φ 1.5 φ 2.5 φ 3.5

Spec.	YD28		
Qty. of Contacts	5 (4+⊕)		7 (6+⊕)
Contact Arrangement	Pin J5  K5 Socket 	Pin J7  K7 Socket 	
Contact Diameter×Qty.	φ 2.5 × 2	φ 3.5 × 2 + ⊕	φ 2.5 × 6 + ⊕
Rated Current	⊕ 25A	● 50A	⊕ 25A
Rated Voltage	250V	400V	400V
Rated Impulse Voltage	2500V	4000V	4000V
Wire Gauge	<2.5mm ²	<10mm ²	<2.5mm ²
Contact Resistance	<1mΩ	<0.5mΩ	<1mΩ

Spec.	YD28		
Qty. of Contacts	10 (9+⊕)		11 (10+⊕)
Contact Arrangement	Pin J10  K10 Socket 	Pin J11  K11 Socket 	
Contact Diameter×Qty.	φ 1.5 × 9 + ⊕	φ 1.5 × 8	φ 2.5 × 2 + ⊕
Rated Current	● 10A	● 10A	⊕ 25A
Rated Voltage	250V	250V	250V
Rated Impulse Voltage	2500V	2500V	2500V
Wire Gauge	<1.5mm ²	<1.5mm ²	<2.5mm ²
Contact Resistance	<2.5mΩ	<2.5mΩ	<1mΩ

Spec.	YD28		
Qty. of Contacts	15 (14+⊕)		17 (16+⊕)
Contact Arrangement	Pin J15  K15 Socket 	Pin J17  K17 Socket 	
Contact Diameter×Qty.	φ 1.5 × 14 + ⊕	φ 1.5 × 16 + ⊕	
Rated Current	● 10A	● 10A	
Rated Voltage	250V	250V	
Rated Impulse Voltage	2500V	2500V	
Wire Gauge	<1.5mm ²	<1.5mm ²	
Contact Resistance	<2.5mΩ	<2.5mΩ	

Shell Size - Arrangement No.

View from mating face

Pin: J K: Socket

Table 3

⊕ : first mate/last break

● ϕ 1.5 ⊕ ϕ 2.5 ⊕ ϕ 3.5 ϕ : mm

Spec.	YD32			
Qty. of Contacts	4 (3+⊕)		10 (9+⊕)	
Contact Arrangement	Pin J4 	K4 Socket 	Pin J10 	K10 Socket
Contact Diameter×Qty.	ϕ 3.5 × 3 + ⊕		ϕ 1.5 × 6	ϕ 2.5 × 3 + ⊕
Rated Current	● 50A		● 10A	⊕ 25A
Rated Voltage	500V		250V	
Rated Impulse Voltage	4000V		2500V	
Wire Gauge	<10mm ²		<1.5mm ²	<2.5mm ²
Contact Resistance	<0.5mΩ		≤2.5mΩ	≤1mΩ

Spec.	YD32			
Qty. of Contacts	10a (9+⊕)		13 (12+⊕)	
Contact Arrangement	Pin J10a 	K10a Socket 	Pin J13 	K13 Socket
Contact Diameter×Qty.	ϕ 1.5 × 5	ϕ 2.5 × 4 + ⊕	ϕ 1.5 × 9	ϕ 2.5 × 3 + ⊕
Rated Current	● 10A	⊕ 25A	● 10A	⊕ 25A
Rated Voltage	250V		250V	
Rated Impulse Voltage	2500V		2500V	
Wire Gauge	<1.5mm ²	<2.5mm ²	<1.5mm ²	<2.5mm ²
Contact Resistance	<2.5mΩ	≤1mΩ	≤2.5mΩ	≤1mΩ



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ISO9001

ISO14001

ISO45001



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Shell Size - Arrangement No.

View from mating face

Pin: J K: Socket

Table 4

⊕: first mate/last break

● ⊕ ⊗ φ: mm

φ 1.5 φ 2.5 φ 3.5

Spec.	YD32		
Qty. of Contacts	19 (18+⊕)		
Contact Arrangement	Pin J19 	K19	Socket
Contact Diameter×Qty.	φ 1.5 × 18 + ⊕		
Rated Current	● 10A		
Rated Voltage	250V		
Rated Impulse Voltage	2500V		
Wire Gauge	<1.5mm ²		
Contact Resistance	<2.5mΩ		
Spec.	YD40		
Qty. of Contacts	5 (4+⊕)		9 (8+⊕)
Contact Arrangement	Pin J5 K5 	Socket	Pin J9 K9
Contact Diameter×Qty.	φ 3.5 × 4 + ⊕		φ 2.5 × 4 + ⊕ φ 3.5 × 4
Rated Current	⊗ 50A		⊕ 25A ⊗ 50A
Rated Voltage	500V		400V
Rated Impulse Voltage	4000V		4000V
Wire Gauge	<10mm ²		<2.5mm ² <10mm ²
Contact Resistance	<0.5mΩ		<1mΩ <0.5mΩ

Shell Size - Arrangement No.

View from mating face

Pin: J K: Socket

Table 5

⊕ : first mate/last break

● $\phi 1.5$ $\oplus$ $\phi 2.5$ ϕ : mm

Spec.	YD40			
Qty. of Contacts	16 (15+⊕)		22 (21+⊕)	
Contact Arrangement	Pin	J16 K16 Socket	Pin	J22 K22 Socket
Contact Diameter×Qty.	$\phi 2.5 \times 15 + \oplus$		$\phi 1.5 \times 18$	$\phi 2.5 \times 3 + \oplus$
Rated Current	$\oplus 25A$		● 10A	$\oplus 25A$
Rated Voltage	250V		250V	
Rated Impulse Voltage	2500V		2500V	
Wire Gauge	<2.5mm ²		<1.5mm ²	<2.5mm ²
Contact Resistance	<1mΩ		<2.5mΩ	<1mΩ

Spec.	YD40			
Qty. of Contacts	24 (23+⊕)		26 (25+⊕)	
Contact Arrangement	Pin	J24 K24 Socket	Pin	J26 K26 Socket
Contact Diameter×Qty.	$\phi 1.5 \times 15$	$\phi 2.5 \times 8 + \oplus$	$\phi 1.5 \times 22$	$\phi 2.5 \times 3 + \oplus$
Rated Current	● 10A	$\oplus 25A$	● 10A	$\oplus 25A$
Rated Voltage	250V		250V	
Rated Impulse Voltage	2500V		2500V	
Wire Gauge	<1.5mm ²	<2.5mm ²	<1.5mm ²	<2.5mm ²
Contact Resistance	<2.5mΩ	<1mΩ	<2.5mΩ	<1mΩ

Shell Size - Arrangement No.

View from mating face

Pin: J K: Socket

Table 6

⊕ : first mate/last break

 $\phi 1.5$ $\phi 2.5$ $\phi 3.5$ $\phi 5.5$ ϕ : mm

Spec.	YD40					
Qty. of Contacts	26a		31 (30 + ⊕)			
Contact Arrangement	Pin	J26a K26a	Socket	Pin	J31 K31	Socket
Contact Diameter×Qty.	φ 1.5 × 15		φ 2.5 × 11		φ 1.5 × 30 + ⊕	
Rated Current	● 10A		⊕ 25A		● 10A	
Rated Voltage	250V				250V	
Rated Impulse Voltage	2500V				2500V	
Wire Gauge	<1.5mm ²		<2.5mm ²		<1.5mm ²	
Contact Resistance	<2.5mΩ		<1mΩ		<2.5mΩ	

Spec.	YD48					
Qty. of Contacts	5 (4 + ⊕)		7 (6 + ⊕)			
Contact Arrangement	Pin	J5 K5	Socket	Pin	J7 K7	Socket
Contact Diameter×Qty.	φ 5.5 × 4 + ⊕		φ 3.5 × 6 + ⊕			
Rated Current	● 100A		⊕ 50A			
Rated Voltage	500V				500V	
Rated Impulse Voltage	4000V				4000V	
Wire Gauge	<25mm ²				<10mm ²	
Contact Resistance	≤0.3mΩ				≤0.5mΩ	

Shell Size - Arrangement No.

View from mating face

Pin: J K: Socket

Table 7

⊕ : first mate/last break

● ϕ 1.5 $\oplus$ ϕ 2.5 ϕ : mm

Spec.	YD48			
Qty. of Contacts	26		27 (26+⊕)	
Contact Arrangement	Pin J26	K26 Socket	Pin J27	K27 Socket
Contact Diameter×Qty.	φ 2.5 × 26		φ 1.5 × 26	φ 2.5 (⊕)
Rated Current	⊕ 25A		● 10A	
Rated Voltage	250V		250V	
Rated Impulse Voltage	2000V		2500V	
Wire Gauge	<2.5mm ²		<1.5mm ²	
Contact Resistance	≤1mΩ		<2.5mΩ	

Spec.	YD48			
Qty. of Contacts	38 (37+⊕)		42 (41+⊕)	
Contact Arrangement	Pin J38	K38 Socket	Pin J42	K42 Socket
Contact Diameter×Qty.	φ 1.5 × 33	φ 2.5 × 4 + ⊕	φ 1.5 × 41	φ 2.5 (⊕)
Rated Current	● 10A	⊕ 25A	● 10A	
Rated Voltage	250V		250V	
Rated Impulse Voltage	2500V		2500V	
Wire Gauge	<1.5mm ²	<2.5mm ²	<1.5mm ²	
Contact Resistance	≤2.5mΩ	≤1mΩ	<2.5mΩ	



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Shell Size - Arrangement No.

View from mating face

Pin: J K: Socket

Table 8

⊕: first mate/last break

 $\phi 1.5$
 $\phi 2.5$
 $\phi 5.5$
 ϕ : mm

Spec.	YD55			
Qty. of Contacts	7 (6+⊕)		53 (52+⊕)	
Contact Arrangement	Pin	J7 K7 Socket	Pin	J53 K53 Socket
Contact Diameter×Qty.	$\phi 5.5 \times 6 + \oplus$		$\phi 1.5 \times 48$	$\phi 2.5 \times 4 + \oplus$
Rated Current	100A		10A	$\oplus$ 25A
Rated Voltage	500V		250V	
Rated Impulse Voltage	4000V		2500V	
Wire Gauge	<25mm ²		<1.5mm ²	<2.5mm ²
Contact Resistance	<0.3mΩ		<2.5mΩ	<1mΩ

Spec.	YD55			
Qty. of Contacts	61 (60+⊕)		86 (85+⊕)	
Contact Arrangement	Pin	J61 K61 Socket	Pin	J86 K86 Socket
Contact Diameter×Qty.	$\phi 1.5 \times 60$	$\phi 2.5 (\oplus)$	$\phi 1.5 \times 85$	$\phi 2.5 (\oplus)$
Rated Current	10A		10A	
Rated Voltage	250V		250V	
Rated Impulse Voltage	2000V		2000V	
Wire Gauge	<1.5mm ²		<1.5mm ²	
Contact Resistance	<2.5mΩ		<2.5mΩ	

Size of Receptacle

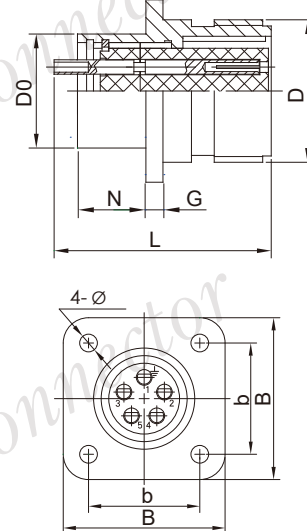
Receptacle ① (Panel Mounted) (No Protective Enclosure)

YD Panel Mounted Receptacle

Z

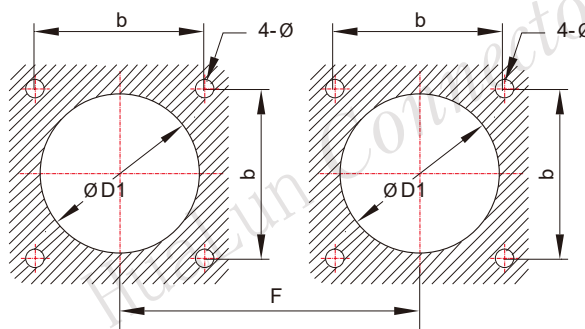
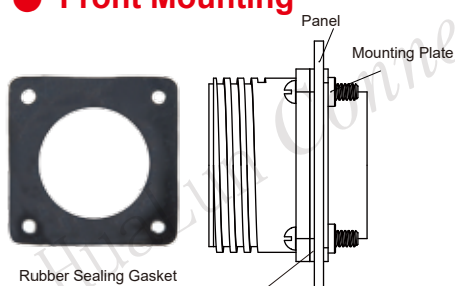


Shell Spec	b	B	D0	D	L	N	G
20	22±0.2	32	20.5	M25×3	34	12	
28	30±0.2	40	28	M33×3			
32	32±0.2	42	32	M38×3			
40	40±0.2	50	40	M46×3	34.5	12.5	3
48	48±0.2	58	48	M55×3			
55	52±0.2	64	55	M62×3		12	3.5

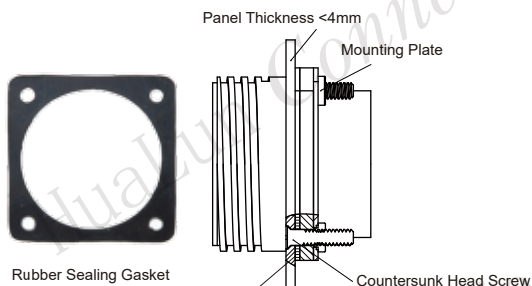


Receptacle Mounting & Mounting Hole

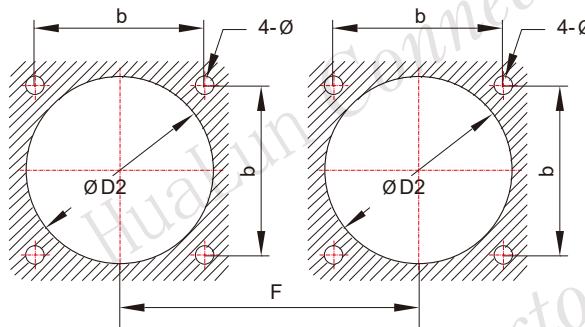
● Front Mounting



● Rear Mounting



If it is rear-mounted, please specify when ordering, we provide rear-mounted rubber sealing gasket



Mounting Hole Dimension

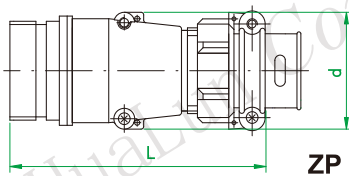
Unit: mm

Shell Spec	4-Ø	ØD1	ØD2	b	F
20	3.50	Ø21.00	Ø25.50	22±0.2	52.00
28		Ø28.50	Ø33.50	30±0.2	62.00
32		Ø32.50	Ø38.50	32±0.2	67.00
40		Ø41.00	Ø47.00	40±0.2	80.00
48	4.50	Ø49.00	Ø56.00	48±0.2	90.00
55		Ø56.00	Ø63.00	52±0.2	102.00

Size of Receptacle

Receptacle ② (Protective Enclosure) (Clamp/Gland)

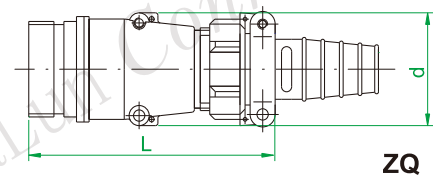
● ZP - Straight, Protective Enclosure Receptacle



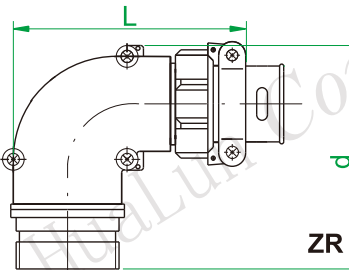
Unit: mm

Shell Spec	20	28	32	40	48	55
L	89	96	97	112	115	123
d	36	41	45	54	61	67

● ZQ - Straight, Protective Enclosure Receptacle



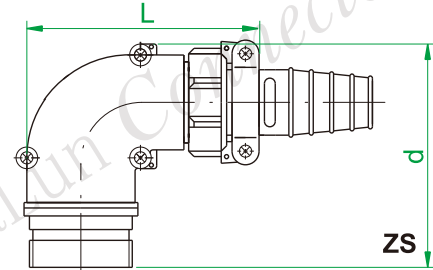
● ZR - (90° angled), Protective Enclosure Receptacle



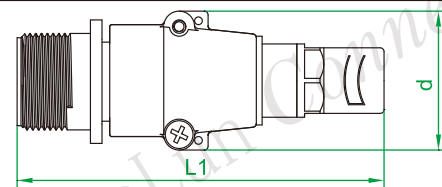
Unit: mm

Shell Spec	20	28	32	40	48	55
L	77	88	94	104	126	137
d	70	77	82	87	93	103

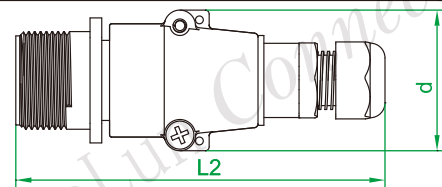
● ZS - (90° angled), Protective Enclosure Receptacle



● ZP-PG Nylon hose gland



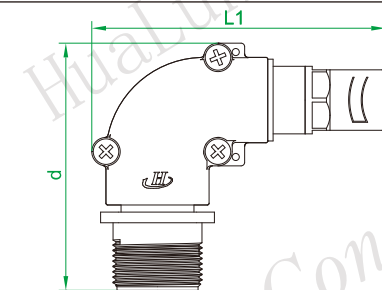
● ZQ-PG Cable gland



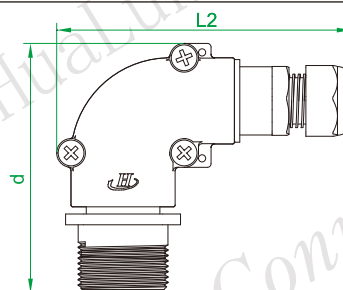
Unit: mm

Shell Spec	20		28			32			40			48				55	
PG **	PG9	PG11	PG11	PG13,5	PG16	PG13,5	PG16	PG 21	PG16	PG21	PG29	PG16	PG21	PG29	PG36	PG29	PG36
L1	95	98	101	104	104	106	106	110	115	119	124	117	121	126	136	134	144
L2	94	94	100	103	104	105	106	108	115	117	128	117	119	130	139	138	147
d	36		41			45			54			61				67	

● ZR-PG Nylon hose gland



● ZS-PG Cable gland



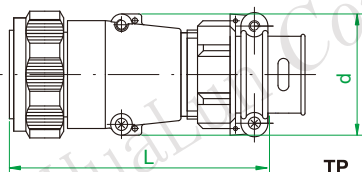
Unit: mm

Shell Spec	20		28			32			40			48				55	
PG **	PG9	PG11	PG11	PG13,5	PG16	PG13,5	PG16	PG21	PG16	PG21	PG29	PG16	PG21	PG29	PG36	PG29	PG36
L1	83	86	95	98	98	103	103	107	110	114	122	124	128	136	145	143	152
L2	82	85	94	97	98	102	103	105	110	112	125	124	126	139	149	146	156
d	69		77			81			87			93				103	

Size of Plug

Plug

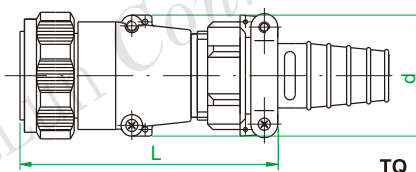
●TP - Metal hose



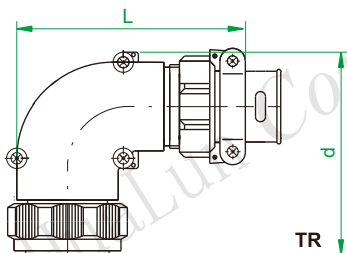
Unit: mm

Shell Spec	20	28	32	40	48	55
L	87	94	95	110	113	121
d	36	41	45	54	61	67

●TQ - Cable clamp



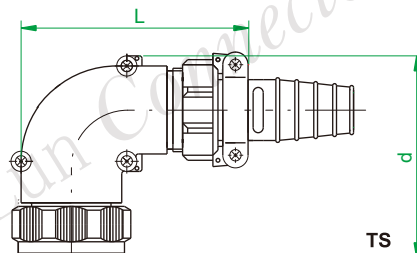
●TR - Metal hose



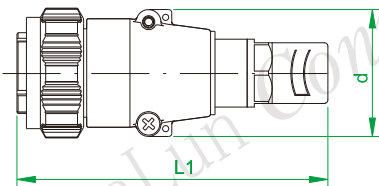
Unit: mm

Shell Spec	20	28	32	40	48	55
L	77	88	94	104	126	137
d	68	76	80	86	92	102

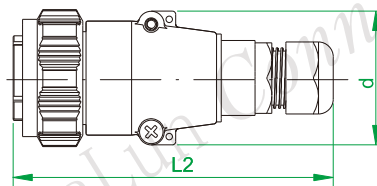
●TS - Cable clamp



●TP-PG Nylon hose gland



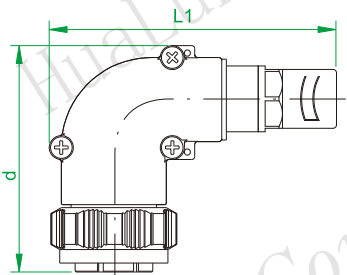
●TQ-PG Cable gland



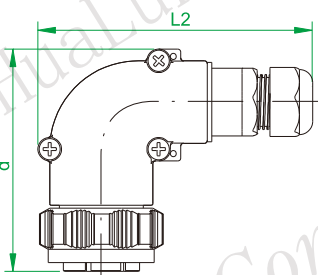
Unit: mm

Shell Spec	20		28			32			40			48				55	
PG **	PG9	PG11	PG11	PG13,5	PG16	PG13,5	PG16	PG 21	PG16	PG21	PG 29	PG16	PG21	PG29	PG36	PG29	PG36
L1	94	97	100	103	103	105	105	109	114	118	123	116	120	125	135	133	143
L2	93	93	99	102	103	104	105	109	114	116	125	116	118	129	138	137	146
d	36		41			45			54			61				67	

●TR-PG Nylon hose gland



●TS-PG Cable gland



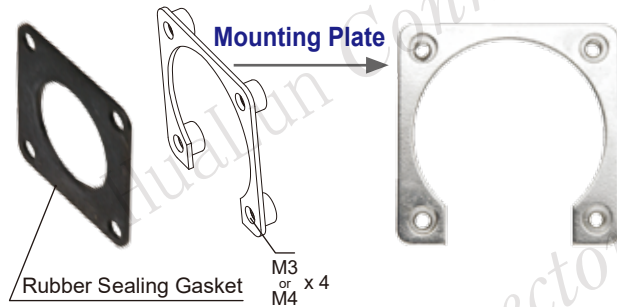
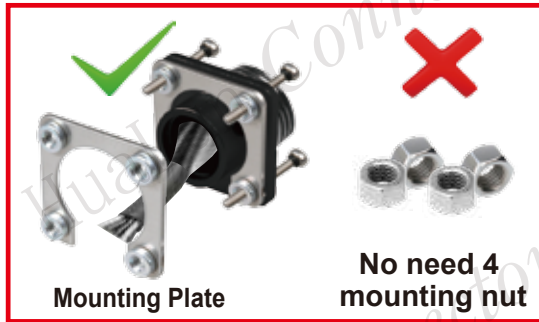
Unit: mm

Shell Spec	20		28			32			40			48				55	
PG **	PG9	PG11	PG11	PG13,5	PG16	PG13,5	PG16	PG 21	PG16	PG21	PG 29	PG16	PG21	PG29	PG36	PG29	PG36
L1	83	86	95	98	98	103	103	107	110	114	122	124	128	136	145	143	152
L2	82	85	94	97	98	102	103	105	110	112	125	124	126	139	149	146	156
d	68		76			80			86			92				102	

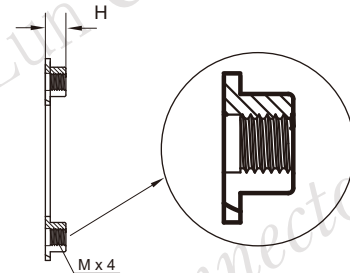
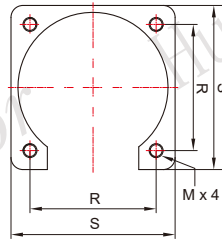
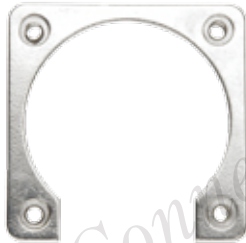
Accessories

1 Mounting Plate

Technical advantages: (1) Convenient and Fast (2) Firm



Mounting Plate Order Code, Size



Unit: mm

Code	Shell Size	R	S	H	Thread M	Screw Spec
A20	20	22.00	30.00	2.60	M3	M3 x 10
A28	28	30.00	40.00			
A32	32	32.00	42.00			
A40	40	40.00	50.00			
A48	48	48.00	58.00	3.00	M4	M4 x 10
A55	55	52.00	64.00			

2 Plug Protection Cap



Dust Cap Code	Application
YD20-TG	Shell 20 Plug
YD28-TG	Shell 28 Plug
YD32-TG	Shell 32 Plug
YD40-TG	Shell 40 Plug
YD48-TG	Shell 48 Plug
YD55-TG	Shell 55 Plug

3 Receptacle Protection Cap



Dust Cap Code	Application
YD20-ZG	Shell 20 Receptacle
YD28-ZG	Shell 28 Receptacle
YD32-ZG	Shell 32 Receptacle
YD40-ZG	Shell 40 Receptacle
YD48-ZG	Shell 48 Receptacle
YD55-ZG	Shell 55 Receptacle



SHANGHAI HUALUN INSTRUMENTS & ELECTRONICS CO., LTD.
上海华伦仪表电子有限公司

SALES & MARKETING DEPARTMENT

市场销售部

地址: 上海天目西路218号嘉里不夜城2座3409室
ADD: Rm3409, Tower2, Kerry Everbright City, West
Tianmu Rd218, Shanghai

邮编(P.C.): 200070

电话(TEL): 86-21-63178300 63178586 63177566

传真(FAX): 86-21-63178083

电邮(E-MAIL): sales@hualun.sh.cn
sales@hualunconnector.com

网址(WEB): www.hualun.sh.cn
www.华伦连接器.com
www.hualunconnector.com
www.hualunconnectors.com

FACTORY & HEADQUARTERS

工厂本部

地址: 上海千阳路271号(金江工业园) 1、3号厂房
ADD: Factory building 1 & 3, Jinjiang Industrial
Park, Qianyang Rd271, Shanghai

邮编(P.C.): 200333

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