

YDK Circular Connector

- **Coupling: Bayonet**
- **Terminal: Solder**



- ▶ **Firmly coupled and better reliability**
- ▶ **Fast coupling and separation**
- ▶ **Better resistance to shock and vibration**



ISO9001



ISO14001



ISO45001





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TUV SUD



ISO9001

ISO14001

ISO45001

华伦连接器
HuaLun Connector

Profile

Design standard: IEC61984.

Technical Data:

① Coupling: bayonet 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: 2-61 pins, 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



High-tech Enterprise Certificate



Foreign Invested Advanced



Enterprise Credit Rating AAA



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ISO9001, ISO14001, ISO45001



UL for YD series

Live parts should not be disassembled without authorization!!!



TIPS

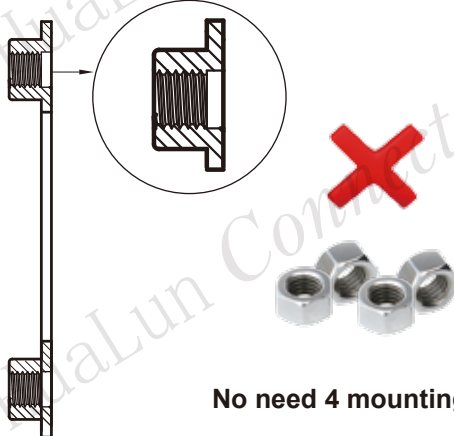
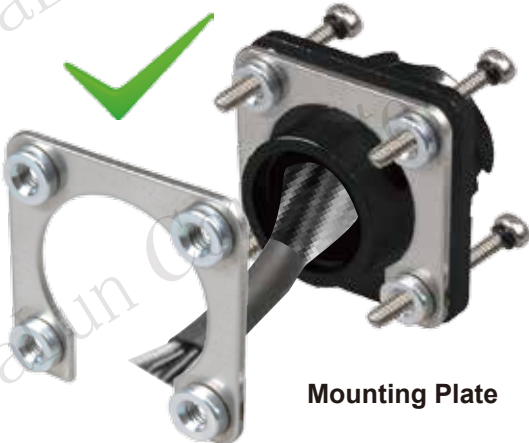
- 1 After the wire is welded, be sure to seal the heat shrinkable sleeve at the welding site



- 2 Especially Recommended Mounting Plate

Technical advantages:

Convenient and Fast! Firm!



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

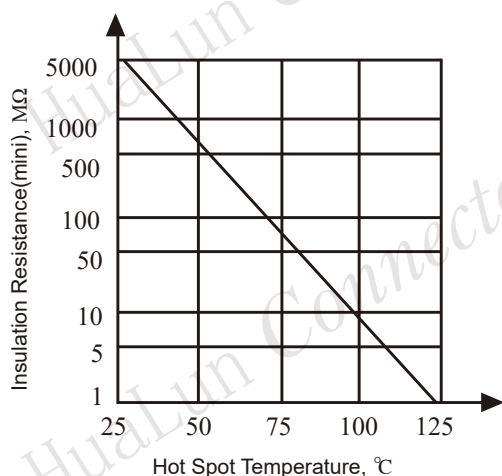
Note: ^{*1} The upper limit temperature is the maximum internal hot spot temperature that occurs in either combination of electrical load and environmental conditions.

^{*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)

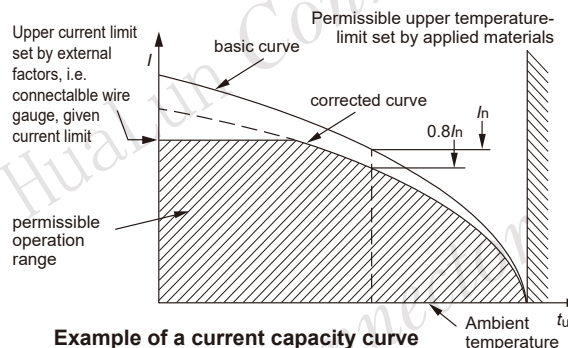
● Electric Features

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
------------------------	----------------------------	------------------------------------

Part Number

(Explanation)

Receptacle ①

(Panel Mounted)
(No Protective Enclosure)

YDK

48

K

38

Z

①

②

③

④

⑤

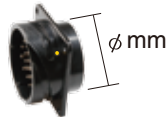
Series

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

Receptacle

Shell Size

20, 28, 32, 40, 48, 55



Contacts
Arrangement

See Page 11-18

(female) K: Socket

(male) J: Pin



(female) Insert



(male) Insert

Part Number

(Explanation)

Receptacle ② (Protective Enclosure) (Clamp/Gland)

YDK

48

K

38

Z

P ***

①

②

③

④

⑤

⑥

Series

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

Shell Size

20, 28, 32, 40, 48, 55


Contacts
Arrangement

See Page 11-18

Receptacle

See Page 7

P

Protective Enclosure, 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

⑥

Z Receptacle P Protective Enclosure,
Code for Outlet

See Page 7

Receptacle
straight

ZP



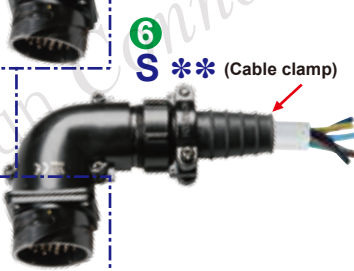
ZQ


Receptacle
90°
angled

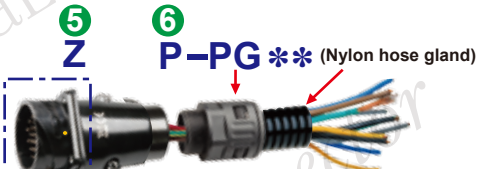
ZR



ZS



ZP-PG



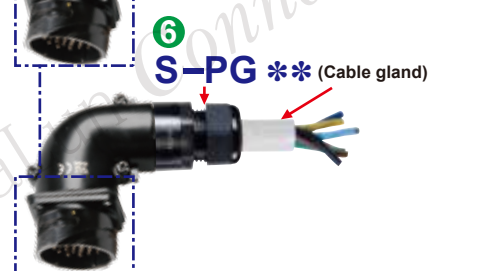
ZQ-PG



ZR-PG



ZS-PG



Receptacle-Protective Enclosure, Code for Outlet

ZP **



Shell Spec.	Code		Unit: mm
	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 **



Shell Spec.	Code		Unit: mm
	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 **



Shell Spec.	Code		Unit: mm	
	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 **



Shell Spec.	Code		Unit: mm	
	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 **



Shell Spec.	Code		Unit: mm
	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 **



Shell Spec.	Code		Unit: mm
	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 **



Shell Spec.	Code		Unit: mm
	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 **



Shell Spec.	Code		Unit: mm
	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	

Part Number

(Explanation)

Plug

YDK

1

Series

48

2

Shell Size

20, 28, 32, 40, 48, 55



J

3

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

38

4

Contacts Arrangement

See Page 11-18

T

5

Plug

P **

6

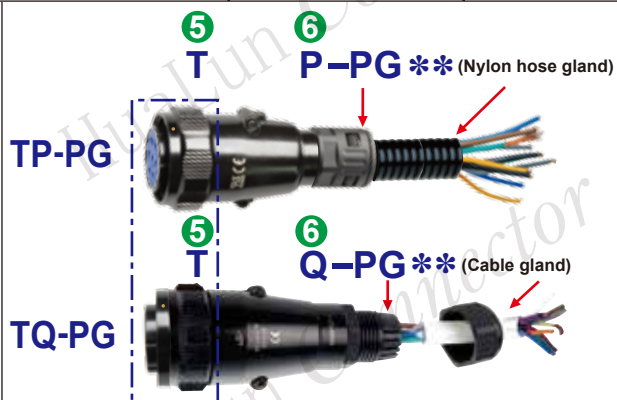
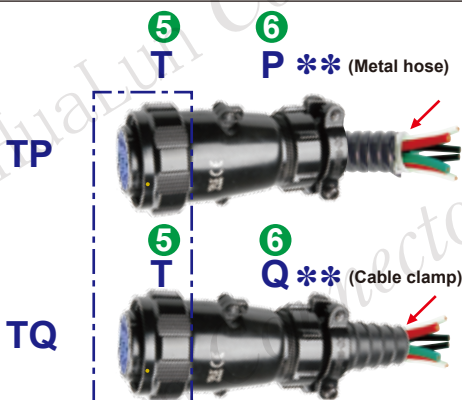
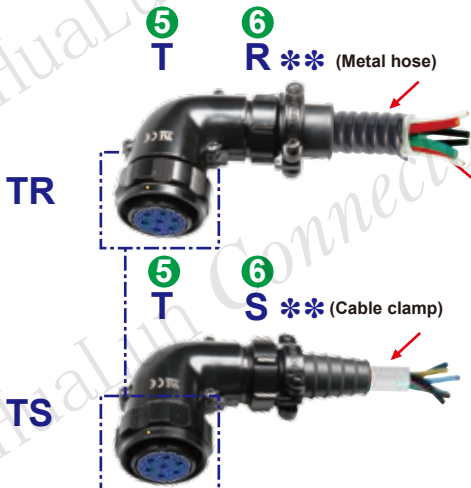
See Page 9

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)

See Page 9

T Plug

P Shell Style, Code for Outlet

T Plug
straight

T Plug
90° angled


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.	YDK20		
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.	YDK20		
Qty. of Contacts	5 (4+⊕)		7 (6+⊕)
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.	YDK28	
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.	YDK28		
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.	YDK28		
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	
Rated Impulse Voltage	2500V	2500V	
Wire Gauge	<1.5mm ²	<1.5mm ²	<2.5mm ²
Contact Resistance	<2.5mΩ	<2.5mΩ	<1mΩ

Spec.	YDK28		
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.	YDK32			
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.	YDK32			
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



TUV SUD



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华伦连接器
HuaLun Connector

Shell Size - Arrangement No.

View from mating face

Pin: J K: Socket

Table 4

⊕ : first mate/last break

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

Spec.	YDK32			
Qty. of Contacts	19 (18+⊕)			
Contact Arrangement	Pin	J19	K19	Socket
Contact Diameter×Qty.	$\phi 1.5 \times 18 + \oplus$			
Rated Current	10A			
Rated Voltage	250V			
Rated Impulse Voltage	2500V			
Wire Gauge	<1.5mm ²			
Contact Resistance	<2.5mΩ			
Spec.	YDK40			
Qty. of Contacts	5 (4+⊕)		9 (8+⊕)	
Contact Arrangement	Pin	J5 K5	Pin	J9 K9
Contact Diameter×Qty.	$\phi 3.5 \times 4 + \oplus$		$\phi 2.5 \times 4 + \oplus$	$\phi 3.5 \times 4$
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

● 1.5 ⊕ 2.5 ⊕ mm

Spec.	YDK40			
Qty. of Contacts	16 (15+⊕)		22 (21+⊕)	
Contact Arrangement	Pin	J16 K16 Socket	Pin	J22 K22 Socket
Contact Diameter×Qty.	⊕ 2.5 × 15 + ⊕		⊕ 1.5 × 18	⊕ 2.5 × 3 + ⊕
Rated Current	⊕ 25A		● 10A	⊕ 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.	YDK40			
Qty. of Contacts	24 (23+⊕)		26 (25+⊕)	
Contact Arrangement	Pin	J24 K24 Socket	Pin	J26 K26 Socket
Contact Diameter×Qty.	⊕ 1.5 × 15	⊕ 2.5 × 8 + ⊕	⊕ 1.5 × 22	⊕ 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

Shell Size - Arrangement No.

View from mating face

Pin: J K: Socket

Table 6

⊕: first mate/last break

φ 1.5 φ 2.5 φ 3.5 φ 5.5 φ: mm

Spec.	YDK40			
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.	YDK48			
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.	YDK48			
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.	YDK48			
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	



TUV SUD



ISO9001 ISO14001 ISO45001

华伦连接器
HuaLun Connector

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.	YDK55		
Qty. of Contacts	7 (6+⊕)		53 (52+⊕)
Contact Arrangement	Pin	J7	K7
	Socket		
Contact Diameter×Qty.	$\phi 5.5 \times 6 + \oplus$		$\phi 1.5 \times 48$
Rated Current	100A		25A
Rated Voltage	500V		250V
Rated Impulse Voltage	4000V		2500V
Wire Gauge	<25mm ²		<2.5mm ²
Contact Resistance	<0.3mΩ		<1mΩ

Spec.	YDK55		
Qty. of Contacts	61 (60+⊕)		
Contact Arrangement	Pin	J61	K61
	Socket		
Contact Diameter×Qty.	$\phi 1.5 \times 60$		$\phi 2.5 (\oplus)$
Rated Current	10A		
Rated Voltage	250V		
Rated Impulse Voltage	2000V		
Wire Gauge	<1.5mm ²		
Contact Resistance	<2.5mΩ		

Size of Receptacle

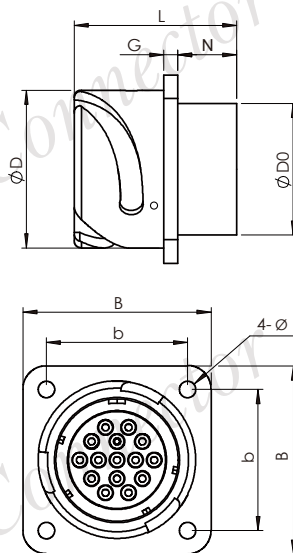
Receptacle ① (Panel Mounted) (No Protective Enclosure)

YDK Panel Mounted Receptacle

Z

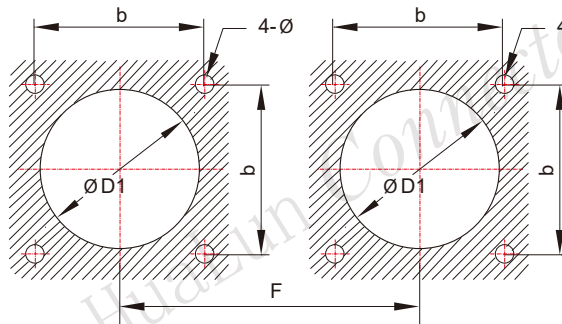
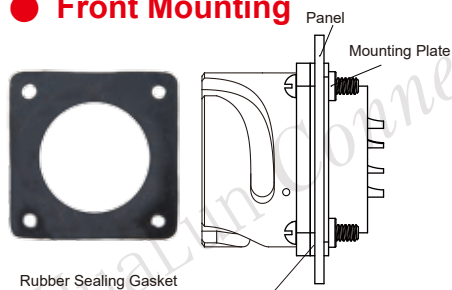


Shell Spec	b	B	D0	D	L	N	G
20	24±0.2	32	20	26.5			
28	30±0.2	40	28	33.5			
32	32±0.2	42	32	37.5	34.5	12.5	3
40	40±0.2	50	40	45.5			
48	48±0.2	58	48	53.5			
55	52±0.2	64	55	60.5	35	13	

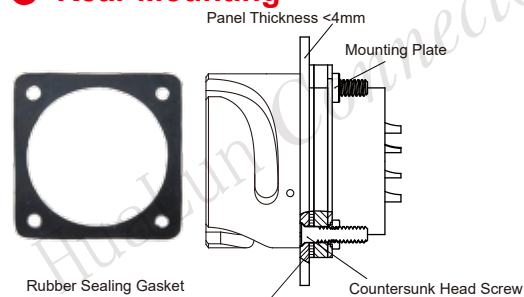


Receptacle Mounting & Mounting Hole

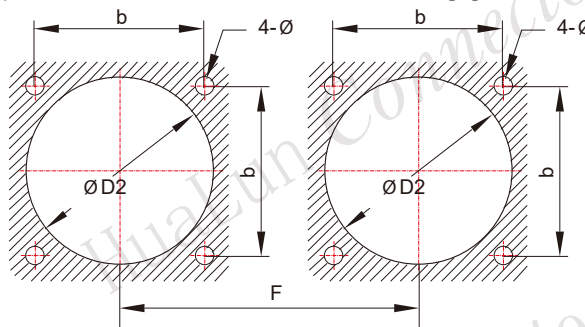
● Front Mounting



● 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	Ø27.00	24±0.2	52.00
28		Ø28.50	Ø34.00	30±0.2	62.00
32		Ø32.50	Ø38.00	32±0.2	67.00
40		Ø41.00	Ø46.00	40±0.2	80.00
48	4.50	Ø49.00	Ø54.50	48±0.2	90.00
55		Ø56.00	Ø61.50	52±0.2	102.00

Size of Receptacle

Receptacle ② (Protective Enclosure) (Clamp/Gland)

● ZP - Straight, Protective Enclosure Receptacle

● ZQ - 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	

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

● ZS - (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	104

● 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
L1	95	98	101	104	104	106	106
L2	94	94	100	103	104	105	106
d	36	41	45	54	61	67	

● ZR-PG Nylon hose gland

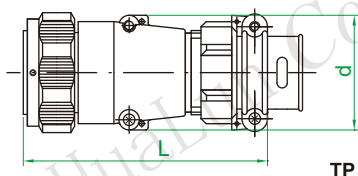
● ZS-PG Cable gland

		Unit: mm					
Shell Spec	20	28	32	40	48	55	
PG **	PG9	PG11	PG11	PG13.5	PG16	PG13.5	PG16
L1	83	86	95	98	98	103	103
L2	82	85	94	97	98	102	103
d	69	77	81	87	93	103	103

Size of Plug

Plug

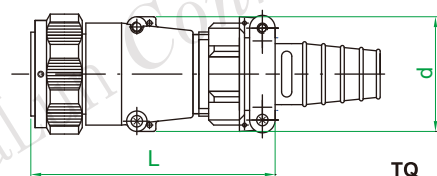
●TP - Metal hose



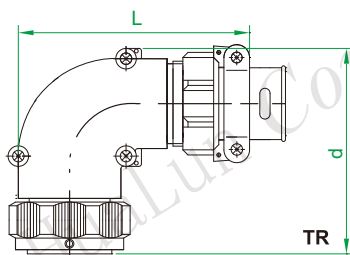
Unit: mm

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



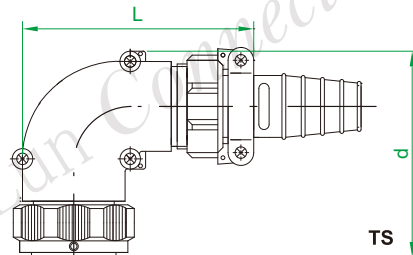
●TR - Metal hose



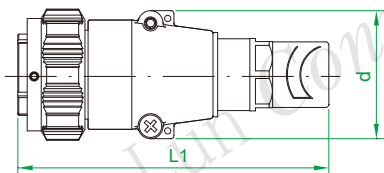
Unit: mm

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

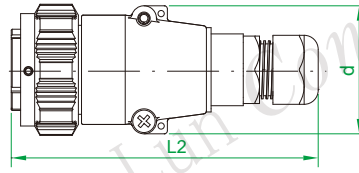
●TS - Cable clamp



●TP-PG Nylon hose gland

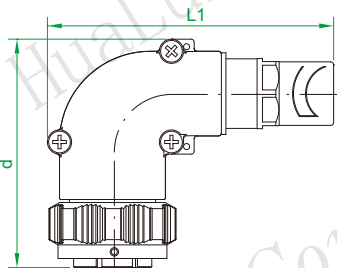


●TQ-PG Cable gland

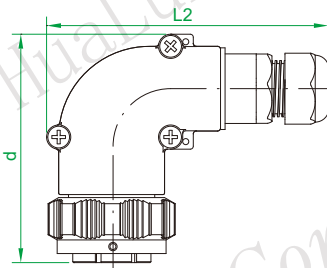


Shell Spec	20		28			32			40			48				55	
PG **	PG9	PG11	PG11	PG13.5	PG16	PG13.5	PG16	PG 21	PG16	PG21	PG 29	PG16	PG21	PG29	PG36	PG29	PG36
L 1	94	97	100	103	103	105	105	109	114	118	123	116	120	125	135	133	143
L 2	93	93	99	102	103	104	105	109	114	116	125	116	118	129	138	137	146
d	36		41			45			54			61				67	

●TR-PG Nylon hose gland



●TS-PG Cable gland



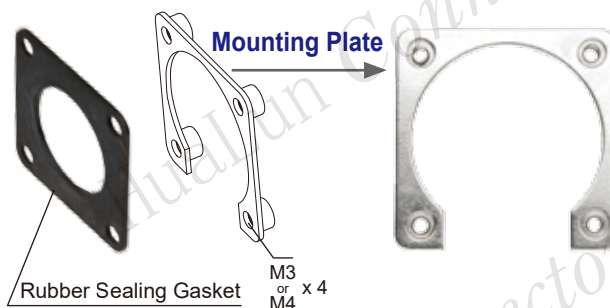
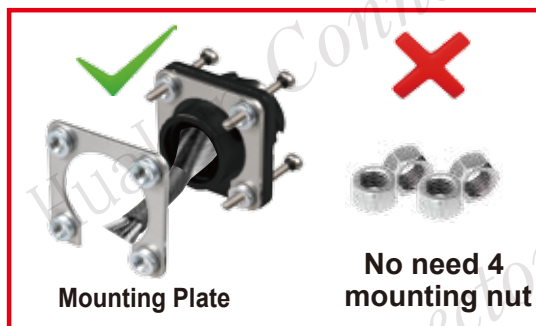
Unit: mm

Shell Spec	20		28			32			40			48				55	
PG **	PG9	PG11	PG11	PG13,5	PG16	PG13,5	PG16	PG21	PG16	PG21	PG29	PG16	PG21	PG29	PG36	PG29	PG36
L 1	83	86	95	98	98	103	103	107	110	114	122	124	128	136	145	143	152
L 2	82	85	94	97	98	102	103	105	110	112	125	124	126	139	149	146	156
d	68		76			80			86			92		102		102	

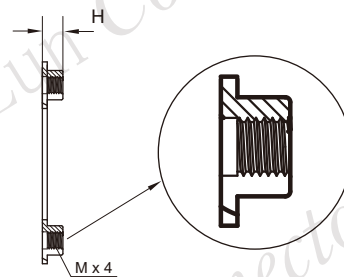
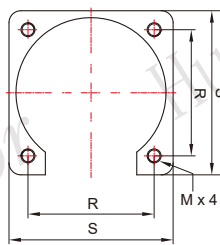
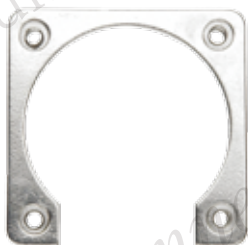
Accessories

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-K	20	24.00	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
YDK20-TG	Shell 20 Plug
YDK28-TG	Shell 28 Plug
YDK32-TG	Shell 32 Plug
YDK40-TG	Shell 40 Plug
YDK48-TG	Shell 48 Plug
YDK55-TG	Shell 55 Plug

3 Receptacle Protection Cap



Dust Cap Code	Application
YDK20-ZG	Shell 20 Receptacle
YDK28-ZG	Shell 28 Receptacle
YDK32-ZG	Shell 32 Receptacle
YDK40-ZG	Shell 40 Receptacle
YDK48-ZG	Shell 48 Receptacle
YDK55-ZG	Shell 55 Receptacle



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