

Connector for electric power equipment





Many products have obtained certifications



TÜV SÜD



RoHS

ISO9001



ISO14001



ISO45001



Connector for electric power equipment



YD25-4 Contact

YDK30-6 Contact

YD30-10 Contact

YD30-14 Contact

YD30-19 Contact

Temperature Features

Environment Ratings Temperature	-40℃~+105℃	Operating Temperature Upper limit +125℃
Relative humidity	90%~95% (40℃±2℃)	
Salt spray corrosion	> 96h	
Protection Degree	IP67 (Shell coupling)	
Vibration	10~2000Hz, 147m/s ² Instantaneous: ≤1μs	
Shock	Acceleration 490m/s ² Instantaneous: ≤1μs	

TUV Certificate



CE Certificate



Mechanical Features

Mechanical life	≥ 500
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Insulating Materials: UL (E255317)

Flame resistance	UL94V-0	
CTI index	0 (≥600V)	
Shell materials	G: Stainless steel	passivation
	T: Copper alloys	Nickel-chromium
	X: Zinc alloy	Nickel
	L: Aluminum alloy	Nickel

Electric Features

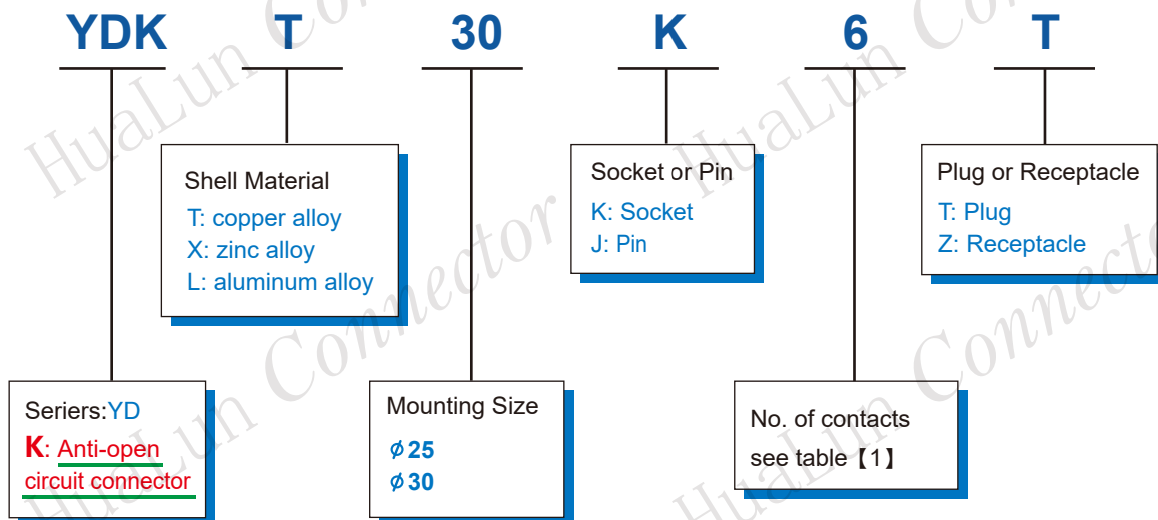
Rated Current See Contacts Arrangement

Rated Voltage	250V.AC		Overvoltage Category III				
Withstand Voltage	impulse 5000V.AC(1.2/50μs); 2500V.AC						
Insulation Resistance	Normal > 2000MΩ						
Contact Diameter	φ1.5	φ1.6	φ2	φ2.5	φ3	φ3.5	φ4
Rated Current	10A	13A	20A	20A	40A	40A	75A
Contact Resistance	≤ 2.5mΩ	≤ 2mΩ	≤ 1.25mΩ	≤ 1mΩ	≤ 0.75mΩ	≤ 0.5mΩ	≤ 0.4mΩ
Wire Gauge	≤ 1.5mm ²	≤ 1.5mm ²	≤ 2.5mm ²	≤ 3.5mm ²	≤ 6mm ²	≤ 10mm ²	≤ 16mm ²

Order Number Explanation

Anti-open circuit connector

YDK25、YDK30

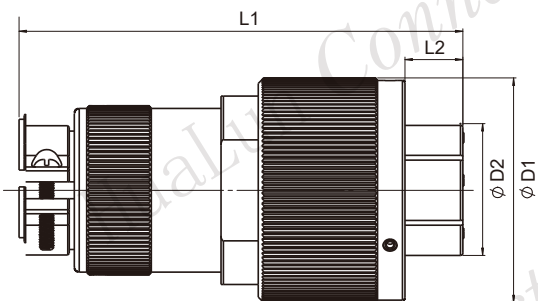


YDK25-4 Contact

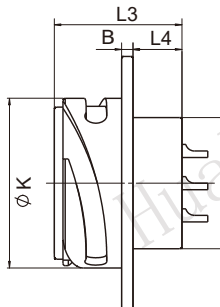


YDK30-6 Contact

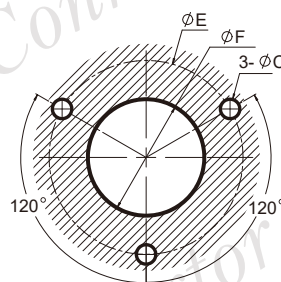
Shell Size of plug



Shell Size of receptacle



Mounting hole dimension



Shell Size of plug

Unit: mm

Spec.	φ D1	φ D2	L1	L2
YDK25-4	34	21.5	78	19
YDK30-6	45	26.5	86	20

Shell Size of receptacle

Unit: mm

Spec.	φ D3	φ K	L3	L4	B
YDK25-4	25	29	28.2	11.2	2.6
YDK30-6	30	38.8	29.2		

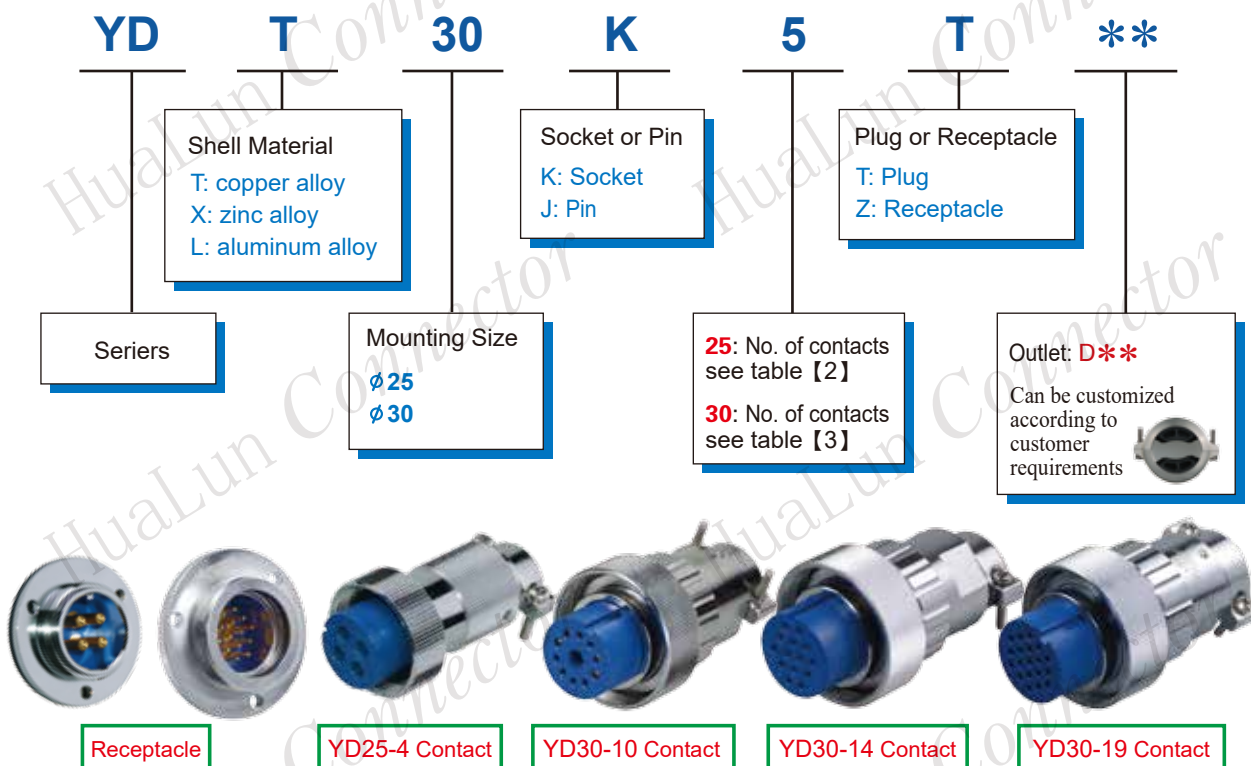
Mounting hole dimension

Unit: mm

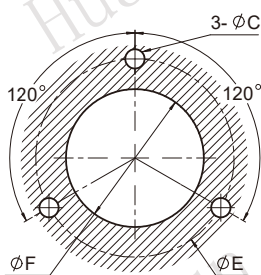
Spec.	φ C	φ E	φ F
YDK25-4	3.5	35.5	25.5
YDK30-6	5	50	30.5

Order Number Explanation

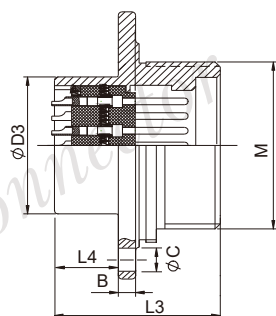
YD25、YD30



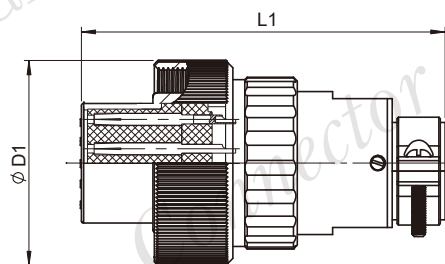
Mounting hole dimension



Shell Size of receptacle



Shell Size of plug



Mounting hole dimension, Shell Size of receptacle

Unit: mm

Spec.	φ C	φ E	φ F	φ D3	L3	L4	B	M
YD25-3	3.5	36	25.5	25	21	10.5	2.5	M29 x 1
YD25-4								
YD25-5								
YD25-10								
YD30-3	5	50	30.5	30	21	8.5	4.5	M29 x 1
YD30-4								
YD30-5a								
YD30-5								
YD30-6					32.8	17.7	4.5	M40 x 1
YD30-10								
YD30-14								
YD30-19								

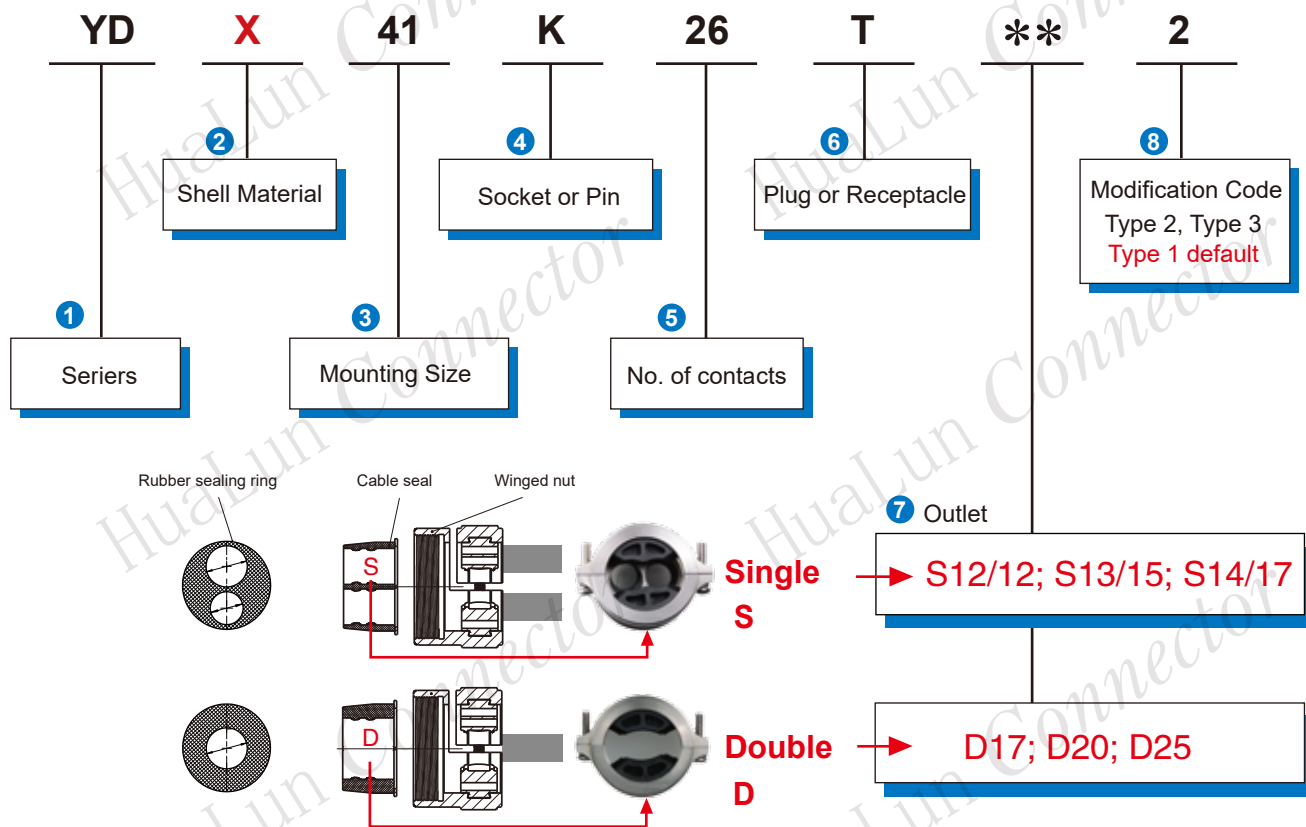
Shell Size of plug

Unit: mm

Spec.	φ D1	L1
YD25-3	32.6	63
YD25-4		
YD25-5		
YD25-10		
YD30-3	32.6	51.2
YD30-4		
YD30-5a		
YD30-5	43.2	76.4
YD30-6		
YD30-10		
YD30-14		
YD30-19		

Order Number Explanation

YD_41



Details:

1

Series

YD: Normal

2

Shell Material

G: Stainless steel
T: Copper alloy
X: Zinc alloy
L: Aluminum alloy

G: passivation
T: Nickel-chromium
X: Nickel
L: Nickel

3

Mounting Size

(ϕ) 41

4

Socket or Pin

K: Socket
J: Pin

5

No. of contacts

see table 【 4 】

6

Plug or Receptacle

T: straight plug
W: 90° angled plug
Z: receptacle

7

Outlet

Single outlet:
S12/12; S13/15; S14/17
Double outlet:
D17; D20; D25

8

Modification Code

type 1, type 2, type 3
see page 5, 6

Receptacle: YD41

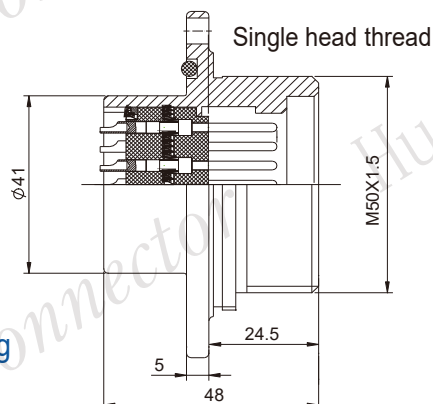
Type 1: Default! Not labeled

No. of contacts can be found in Table [4] on page 8

Shell Size of receptacle



Chromium nickel coating



Mounting hole dimension
1, 2 and 3 types are the same

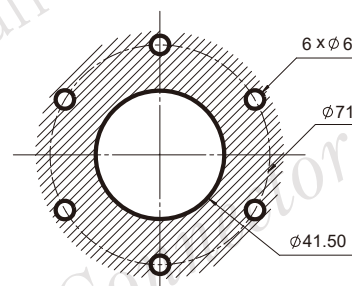
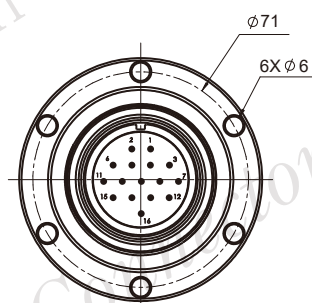
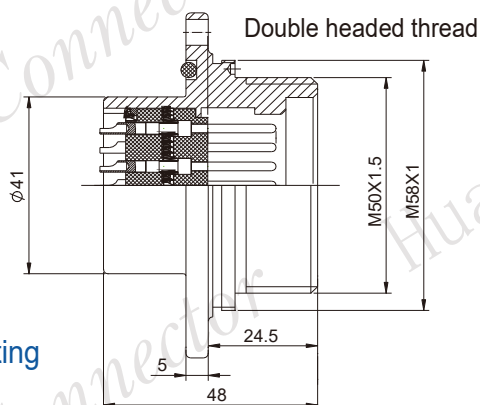
Receptacle: YD41-2

Please mark 2

Shell Size of receptacle



Chromium nickel coating



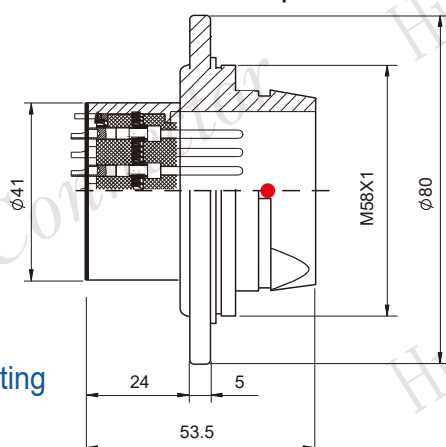
Receptacle: YD41-3

Please mark 3

Shell Size of receptacle



Chromium nickel coating



Order YD41-2 type
YD41-3 type
Just add 2 or 3
after the YD41 order code

Plug: YD41

Type 1: Default! Not labeled

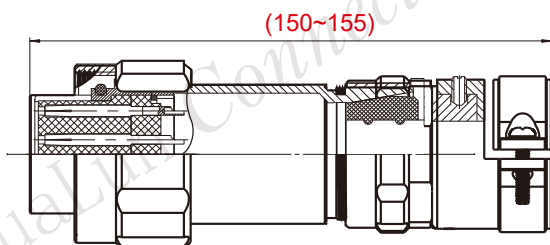


Straight

Nickel-chromium plating

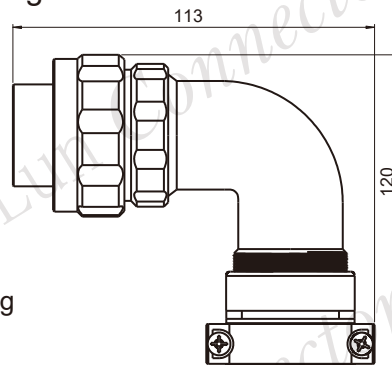


90° angled



(150~155)

Shell Size of plug



113

120

Plug: YD41-2

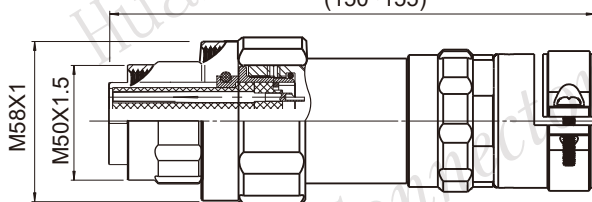
Please mark 2



Nickel-chromium plating

Shell Size of plug

(150~155)

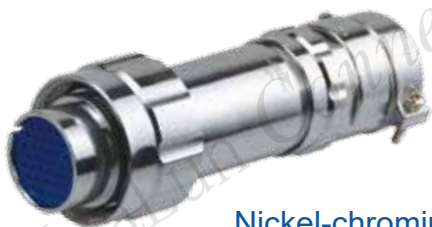


M58X1

M50X1.5

Plug: YD41-3

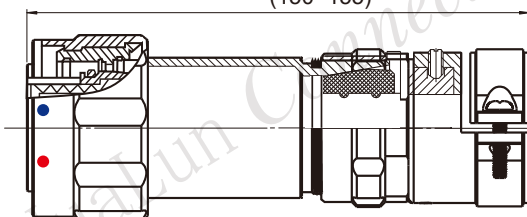
Please mark 3



Nickel-chromium plating

Shell Size of plug

(150~155)

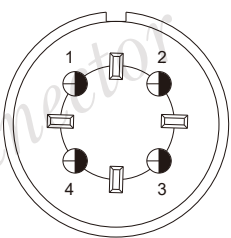
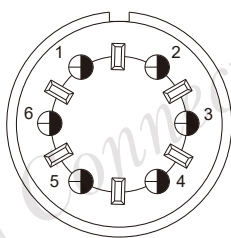


Contacts Arrangement

YDK25 YDK30 Anti-open circuit connector

TABLE [1] Anti-open circuit connector, View from mating face of pin contacts

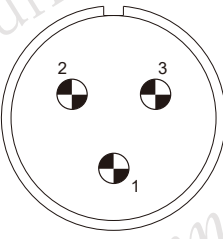
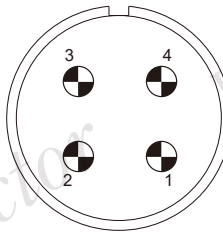
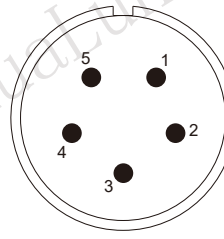
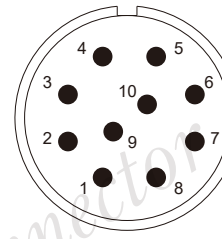
⊕
φ3

Shell Spec.	YDK 25	YDK 30
No. of Contacts	4	6
Contact Arrangement		
Diameter of contacts × Qty.	φ 3 × 4	φ 3 × 6
Rated Current	40A	
Rated Voltage	250V.AC	
Withstand Voltage	Impulse 5000V.AC (1.2/50μs) ; 2500V.AC	
Insulation Resistance	Normal ≥2000M.Ω	
Contact Resistance	⊕ ≤ 0.75M.Ω	

YD25

TABLE [2], View from mating face of pin contacts

⊕ ⊕
φ2 φ3.5

Shell Spec.	YD 25			
No. of Contacts	3	4	5	10
Contact Arrangement				
Diameter of contacts × Qty.	φ 3.5 × 3	φ 3.5 × 4	φ 2 × 5	φ 2 × 10
Rated Current	40A	40A	20A	20A
Rated Voltage	250V.AC			
Withstand Voltage	Impulse 5000V.AC (1.2/50μs) ; 2500V.AC			
Insulation Resistance	Normal ≥2000M.Ω			

YD30

TABLE [3], View from mating face of pin contacts

⊕ 1.6 ⊙ 2 ⊕ 2.5 ⊙ 3.5

Shell Spec.	YD 30			
No. of Contacts	3	4	5a	5
Contact Arrangement				
Diameter of contacts × Qty.	φ 3.5 × 3	φ 3.5 × 4	φ 2 × 5	φ 3.5 × 5
Rated Current	40A	40A	20A	40A
No. of Contacts	6	10	14	19
Contact Arrangement	★ Receptacle: Socket Plug: Pin			
Diameter of contacts × Qty.	φ 2.5 × 6	φ 1.6 × 6 φ 2 × 4	φ 1.6 × 14	φ 1.6 × 19
Rated Current	20A	⊕ 13A ⊙ 20A	13A	13A

YD41

TABLE [4], View from mating face of pin contacts

At the request of the customer, the socket can meet an airtight pressure difference of 0.03MPa

⊙ 1.5 ⊙ 2 ⊙ 4

Shell Spec.	YD 41			
No. of Contacts	10	16	26	37
Contact Arrangement				
Diameter of contacts × Qty.	φ 2 × 7 φ 4 × 3	φ 2 × 16	φ 2 × 26	φ 1.5 × 37
Rated Current	⊙ 20A ⊙ 75A	20A	20A	10A
Contact Resistance	⊙ < 1.25mΩ ⊙ < 0.4mΩ	⊙ < 1.25mΩ	⊙ < 1.25mΩ	⊙ < 2.5mΩ

RJ45 Ethernet port aviation plug

The YD25 has a built-in RJ45 network port connector, mainly used for electrical connection and signal transmission of intelligent control equipment in the distribution grid. The signal transmission rate of RJ45 is 100Mbps. Mainly used on power distribution intelligent control FTU equipment.

Temperature Features

Environment Ratings Temperature	-40℃~85℃
Relative humidity	90%~95% (40℃ ± 2℃)
Salt spray corrosion	>96h
Protection Degree	IP65/67 (Shell coupling)
Vibration	10~2000Hz, 147m/s ²
Shock	490m/s ²

Mechanical Features

Mechanical life	≥500
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Material

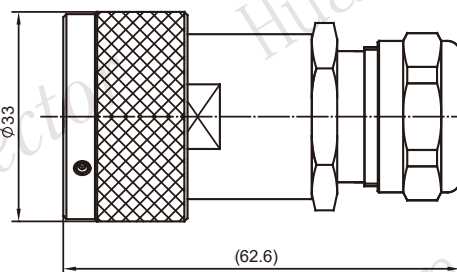
Contacts	Copper alloys, Surface gold plating
Insulator	High temperature resistance, Flame retardant plastic
Seals	Weather resistant rubber
Shell	Copper alloys



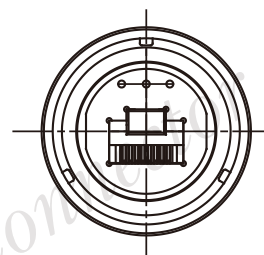
Electric Features

Rated Voltage	150VAC
Rated Current	(A、B、C) 5A; (RJ45) 1.5A
Withstand Voltage	(A、B、C) 1000VAC RJ45: 700VAC; 1000VDC
Insulation Resistance	≥1000MΩ
Contact Resistance	(A、B、C) ≤7.5MΩ (RJ45) ≤20MΩ
Transmission Speed	≥100Mbps

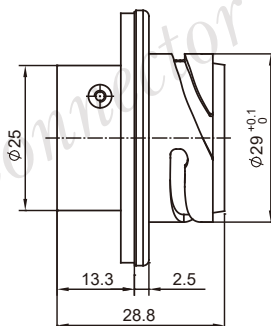
Plug

Part Number: **YD25RJ45J3T**


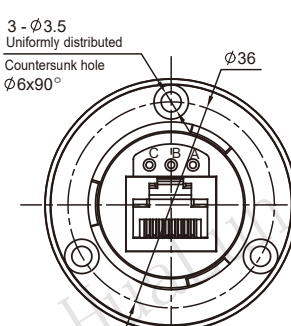
Shell Size of plug



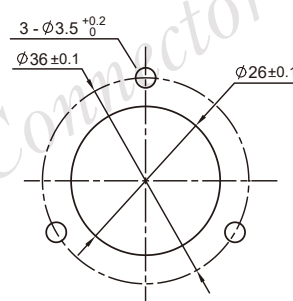
Receptacle

Part Number: **YD25RJ45K3Z**


Shell Size of receptacle



Mounting hole dimension



1

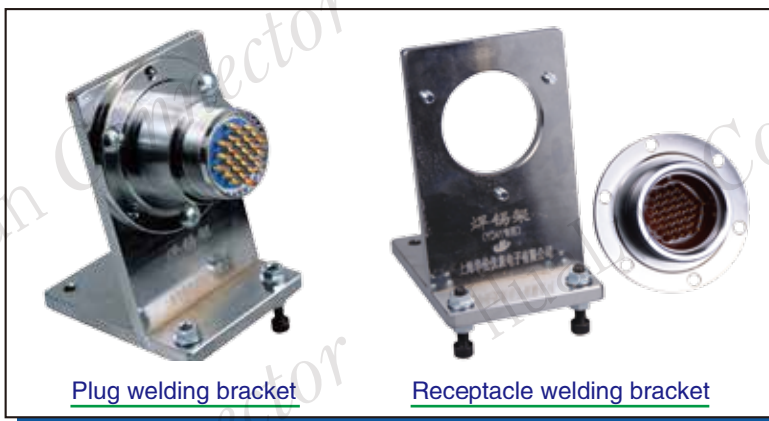
Wrench tools



If you need tools, please contact our company

2

Welding frame tools



Plug welding bracket

Receptacle welding bracket



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