RoHS2

Industrial waterproof rectangular connector

DK-3 Series (4 Pin) Type

Fujikura

OUTLINE

- Waterproof rectangular connector was developed for connecting industrial equipment.
- Crimp termination contacts are the same as those of DK-3000 series.
- Plug, Cable Connecting, offers a receptacle and the receptacle shell shape tab. key can be changed for wrong insertion prevention, so it's possible to combine a colorful connector.
- DK-3 has one touch locking lever mechanism and a locking supporting system. Pushing contacts in the direction of the mating half makes the connectors automatically and temporarily locked and you can mate the connectors easily.

APPLICATIONS

FA equipment (internal and external), robots, servo motors, medical equipment, communication equipment, OA equipment, various other electrical equipment

SPECIFICATIONS

Item	DK-3 Series
Rated Voltage	250V AC(r.m.s.)/600V DC
Rated Current	15A max. / Contact
Dielectric Withstanding Voltage	2,200V AC(r.m.s.)/ 1minute
Insulation Resistance	1,000M Ω min. at 500V DC
Contact Resistance	10m Ω max.
Contact Pitch	5.0mm
Applicable Cable Size	AWG 16 — 28
Waterproof Rating	IP67
Number of Contacts	4 Pin

SAFETY STANDARD

c UL us

TÜVRheinland CERTIFIED
Type Approved
Safety
Regular Production
Surveillance
www.tuv.com
ID 2000000000

Accreditation Organization	Applicable Standards	Certification Number
TUV	DIN VDE 0627 < EN61984 >	R50670485
UL	UL 1977	E72124

MATERIALS / FINISH

RoHS Compliant

Item	Materials / Finishes
Contact	Copper Alloy ／ Au over Ni Plating
Housing	PBT Resin(UL94V-0) ／ Black
Shell / Hood	Aluminum Alloy and Zinc Alloy

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Unit : mm

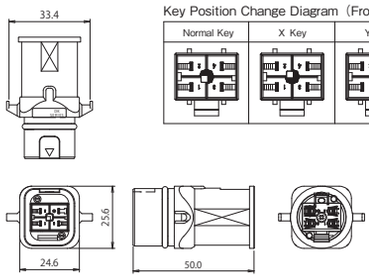
▶4 Pin Waterproof Connectors

Straight Plug

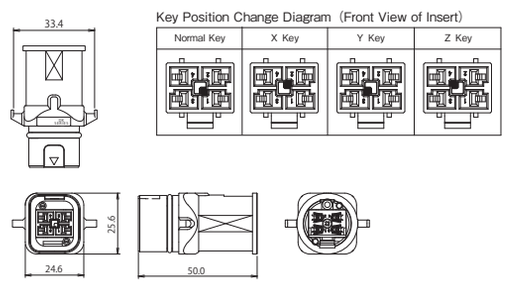
DK-3P04B □□□-S(R1)

Housing Type
RC : Receptacle Housing
TC : Tab Housing

Keying Type
Omit : Normal Key
X : X Key, Y : Y Key, Z : Z Key



Tab Housing



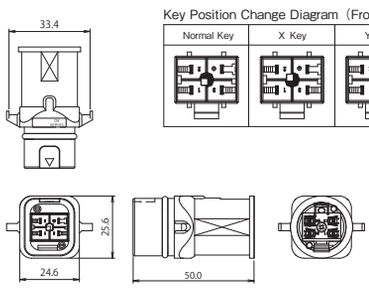
Receptacle Housing

Straight Plug【With Earth Lug】

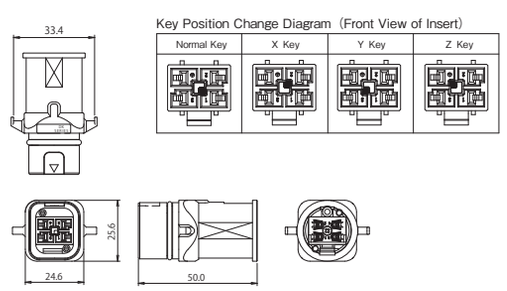
DK-3P04B □□□-ES(R1)

Housing Type
RC : Receptacle Housing
TC : Tab Housing

Keying Type
Omit : Normal Key
X : X Key, Y : Y Key, Z : Z Key



Tab Housing



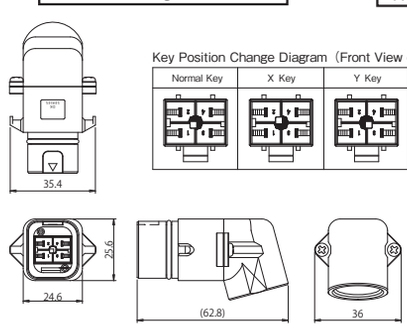
Receptacle Housing

Angle Plug

DK-3AP04B □□□-S(R1)

Housing Type
RC : Receptacle Housing
TC : Tab Housing

Keying Type
Omit : Normal Key
X : X Key, Y : Y Key, Z : Z Key



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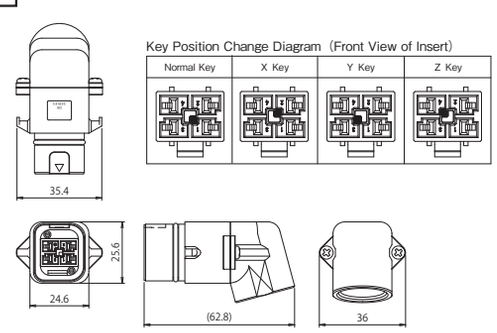

Receptacle Housing

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Unit : mm

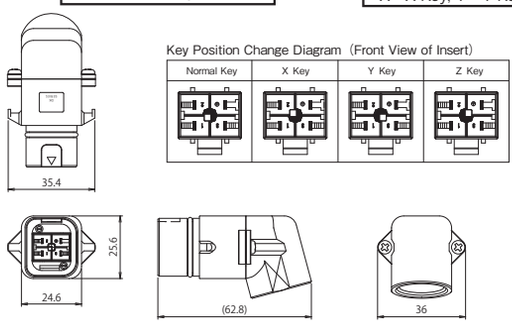
4 Pin Waterproof Connector

Angle Plug【With Earth Lug】

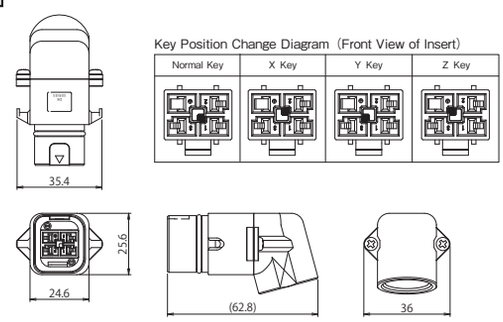
DK-3AP04B □□□-ES(R1)

Housing Type
RC : Receptacle Housing
TC : Tab Housing

Keying Type
Omit : Normal Key
X : X Key, Y : Y Key, Z : Z Key



Tab Housing



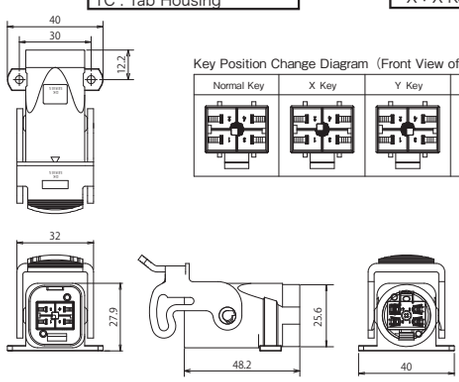
Receptacle Housing

Cable Receptacle

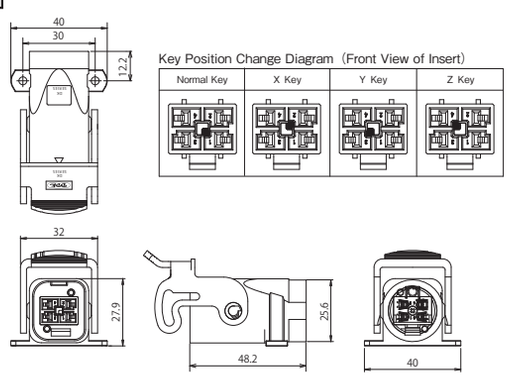
DK-3CR04B □□□-S

Housing Type
RC : Receptacle Housing
TC : Tab Housing

Keying Type
Omit : Normal Key
X : X Key, Y : Y Key, Z : Z Key



Tab Housing



Receptacle Housing

Cable Receptacle【With Earth Lug】

DK-3CR04B □□□-ES

Housing Type
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TC : Tab Housing

Keying Type
Omit : Normal Key
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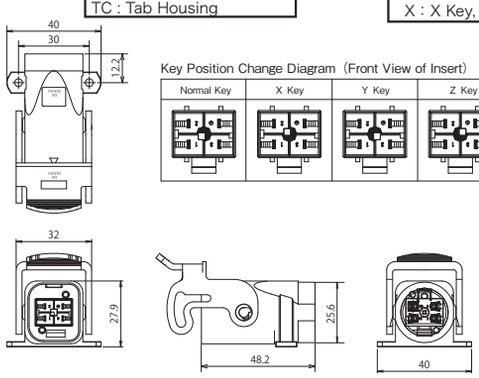
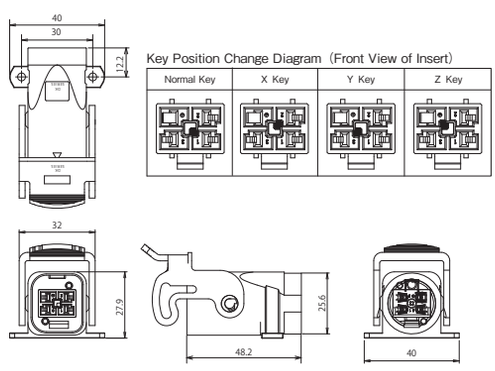


Tab Housing



Receptacle Housing

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Unit : mm

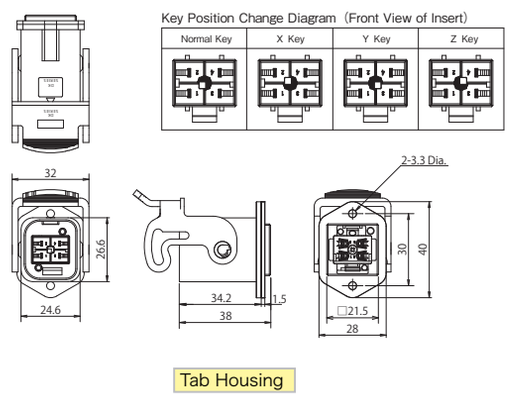
4 Pin Waterproof Connector

Receptacle

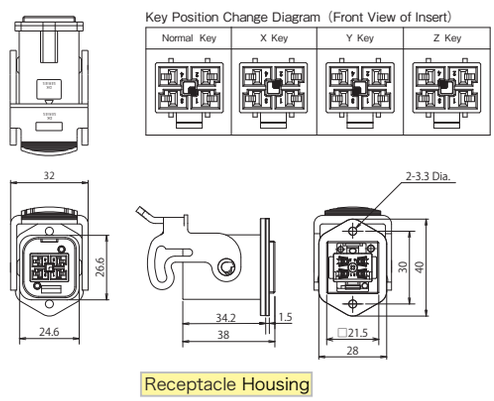
DK-3R04B □□□-S(R1)

Housing Type
RC : Receptacle Housing
TC : Tab Housing

Keying Type
Omit : Normal Key
X : X Key, Y : Y Key, Z : Z Key



Tab Housing



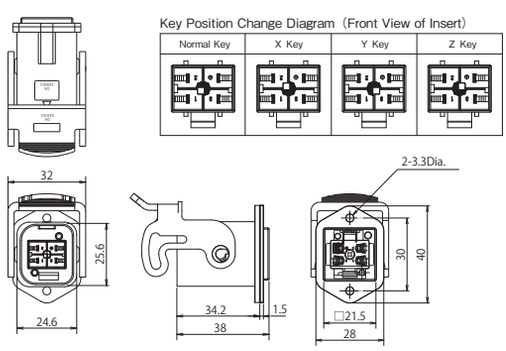
Receptacle Housing

Receptacle 【With Earth Lug】

DK-3R04B □□□-ES(R1)

Housing Type
RC : Receptacle Housing
TC : Tab Housing

Keying Type
Omit : Normal Key
X : X Key, Y : Y Key, Z : Z Key



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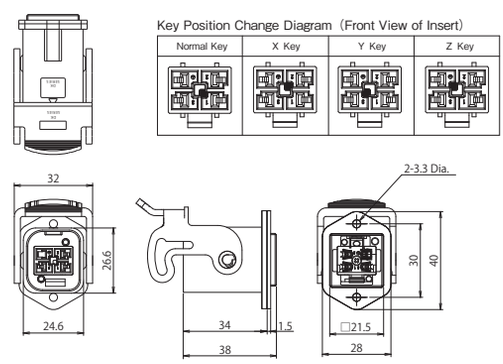

Receptacle Housing

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Unit : mm

Crimp Contacts

DK-3 Contact

【Contact】

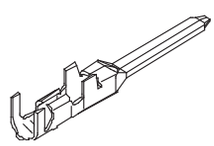
Applicable Cable Size		Insulation O.D. (mm)	Contact Size	Package Style	Part Number		Contact Quantity (pcs)
AWG	mm²				Receptacle Contact	Tab Contact	
28 26 24	0.08 0.12 0.20	0.8 ~ 1.2	S	Reel	DK-3RECSST1-4000	DK-3TABSST1-4000	4000
		1.0 ~ 1.4		Bag	DK-3RECSLP1-100	DK-3TABSLP1-100	100
24 22 20	0.20 0.30 0.50	1.2 ~ 1.6	M	Reel	DK-3RECMST1-3500	DK-3TABMST1-3500	3500
		1.7 ~ 2.6		Bag	DK-3RECMLP1-100	DK-3TABMLP1-100	100
20 18 16	0.50 0.85 1.25	1.8 ~ 2.8	L	Reel	DK-3RECLST1-3000	DK-3TABLST1-3000	3000
		2.2 ~ 2.8		Bag	DK-3RECLLP1-100	DK-3TABLLP1-100	100
16	1.25	2.2 ~ 2.8	2L	Reel	DK-3REC2LST1-3000	DK-3TAB2LST1-3000	3000
				Bag	DK-3REC2LLP1-100	DK-3TAB2LLP1-100	100

【Premating Contact】

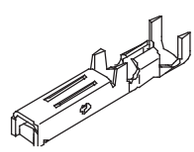
Applicable Cable Size		Insulation O.D. (mm)	Contact Size	Package Style	Part Number		Contact Quantity (pcs)
AWG	mm²				Receptacle Contact	Tab Contact	
24 22 20	0.20 0.30 0.50	1.2 ~ 1.6 1.7 ~ 2.6	M	Bag	DK-3RECMLP1-E-100	DK-3TABMLP1-E-100	100
20 18 16	0.50 0.85 1.25	1.8 ~ 2.8 2.2 ~ 2.8	L	Bag	DK-3RECLLP1-E-100	DK-3TABLLP1-E-100	100
16	1.25	2.2 ~ 2.8	2L	Bag	DK-3REC2LLP1-E-100	DK-3TAB2LLP1-E-100	100

DK-3RECSST1-E-4000

- Contact Style
  REC : Receptacle Contact
  TAB : Tab Contact
- Applicable Cable Size
  S : AWG 24 — 28
  M : AWG 20 — 24
  L : AWG 16 — 20
  2L : AWG 16
- Package Style
  ST : Reel
  LP : Bag
- Contact Plating
  1 : Au (0.38 μm min) over Ni Plating
- Contact
  E : Premating Contact
  Omit : Contact
- Contact Quantity
  4000 : 4000 pcs / Reel
  3500 : 3500 pcs / Reel
  3000 : 3000 pcs / Reel
  100 : 100 pcs / Bag



Tab Contact



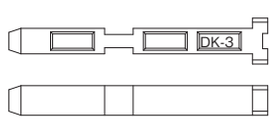
Receptacle Contact

Keying Plug 【Prevent Misinsertion Key】

◆ Used to prevent misinsertion.

Part Number : DK-3KP

MOQ : 100 pcs



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