



WS
series

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series

● WS Series-Indoor use

Material and spec

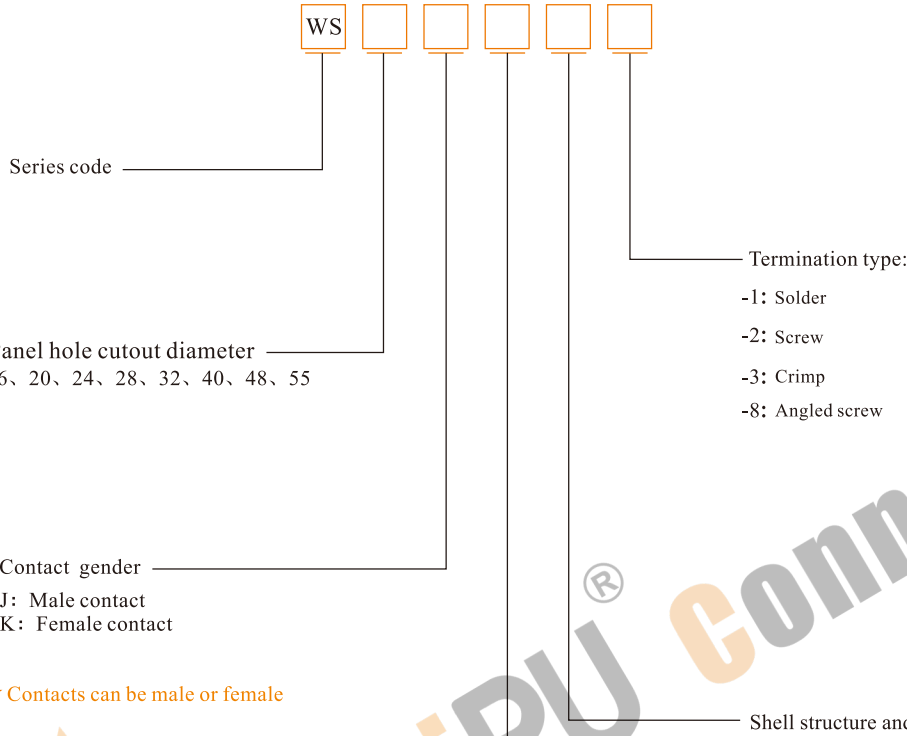
Coupling	Threaded
Shell material	Zinc alloy with chrome plating [®]
Insert material	PPS, max temperature 260 °C
Contact material	Brass with gold plating
Termination	Solder: Ø1, Ø1.5, Ø2.5, Ø3.5, Ø5.5mm Crimp: Ø1, Ø1.5, Ø2.5, Ø3.5, Ø5.5, Ø10mm Screw: Ø2.5, Ø3, Ø3.5mm Angled screw: Ø3, Ø3.5, Ø4mm
Mating cycle	500
Working temperature range	-40℃ ~ +85℃

★ Solder contact spec see page P21

★ Crimp contact spec see P22

★ Screw contact spec see P23

Part number system



★ Contacts can be male or female

Number of solder contact:
2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16, 17, 19, 20, 24, 26, 27, 31, 35, 38, 40, 42, 53, 61

Number of crimp contact:
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 19, 31, 38, 42, 61

Number of screw contact:
2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 20

★ Various shell structures; see P17-03 for specifications.

● **Remarks** : The rated current decreases according to the number of contacts, more contacts, less rated current.

Number of contact	1~3	4~10	11~20	21~30	31~40	41~50	51~61
Rated current decrease rate	0	10	20	30	40	50	60

Shell structure and cable fix type



Panel socket type

- Square flange receptacle
- 2-hole flange receptacle
- Round flange receptacle
- Front-nut-mount receptacle

Straight shell type

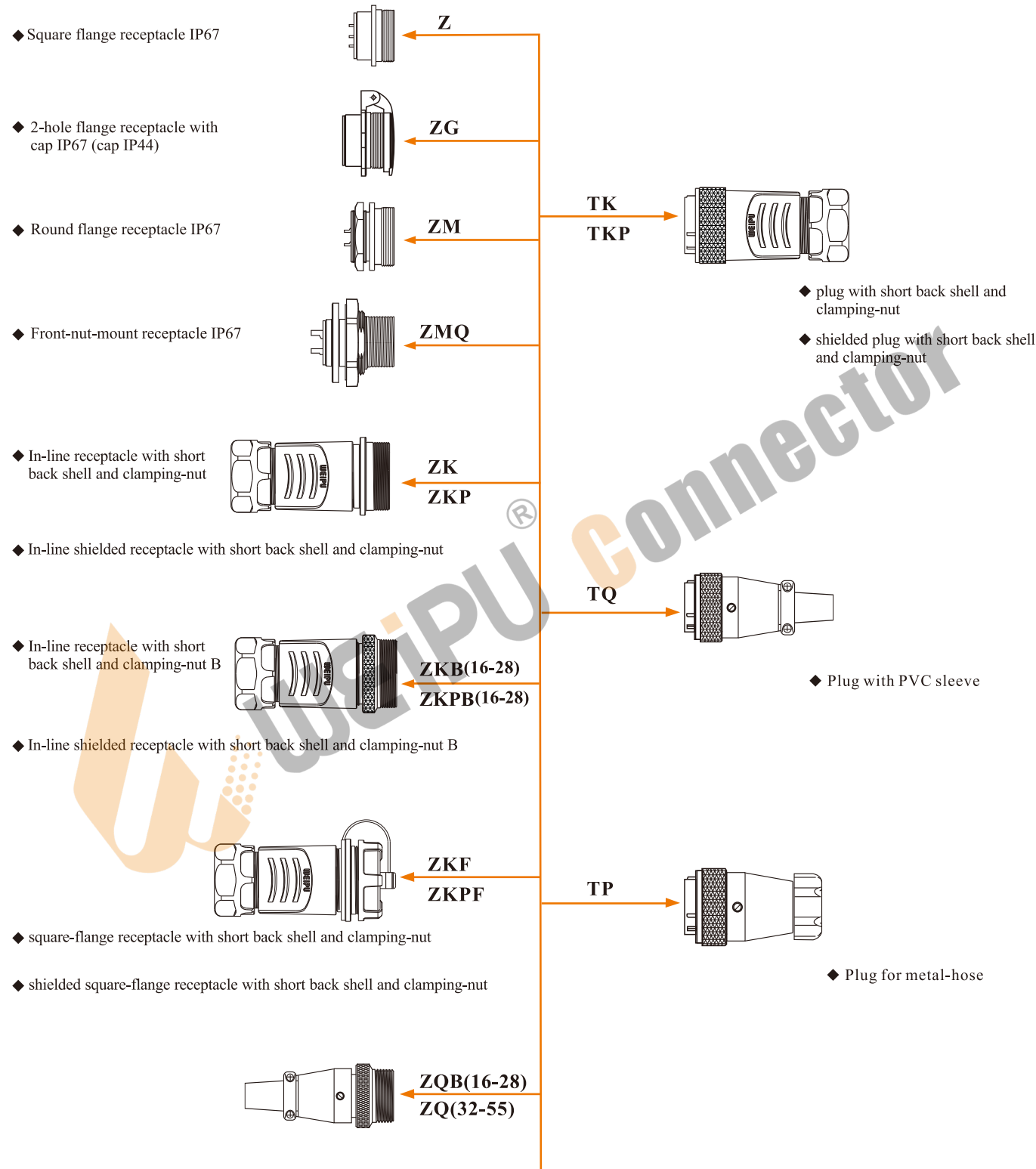
- In-line receptacle with short back shell and clamping-nut
- In-line shielded receptacle with short back shell and clamping-nut
- In-line receptacle with short back shell and clamping-nut B (for WS16-28)
- In-line shielded receptacle with short back shell and clamping-nut B(for WS16-28)
- square-flange receptacle with short back shell and clamping-nut
- shielded square-flange receptacle with short back shell and clamping-nut
- plug with short back shell and clamping-nut
- shielded plug with short back shell and clamping-nut
- Receptacle with PVC sleeve B (for WS16-28)
- Receptacle with PVC sleeve (for WS32-55)
- In-line receptacle with PVC sleeve and square flange
- Plug with PVC sleeve
- Receptacle for metal hose B (for WS16-28)
- Receptacle for metal hose (for WS32-55)
- In-line receptacle for metal-hose and square flange
- Plug for metal hose
- Receptacle with cable clamping plates B (for WS16-28)
- Receptacle with cable clamping plates (for WS32-55)
- In-line receptacle with cable clamping plates and square flange
- Plug with cable clamping plates
- In-line receptacle for PA-hose B(for WS16-28)
- In-line receptacle for PA-hose (for WS16-28)
- Plug for PA-hose (for WS16-28)
- Receptacle for plastic hose B (for WS16-28)
- Receptacle for plastic hose (for WS32-55)
- In-line receptacle for plastic-hose and square flange
- Plug for plastic hose
- In-line receptacle with anti-bending sleeveB (for WS28)
- Plug with strain relief (for WS28)

Angled shell type

- Plug with angled back shell and clamping-nut
- Plug / receptacle for metal hose(for WS20-55)
- Plug / receptacle with cable clamping plates(for WS20-55)
- Plug / receptacle for plastic hose(for WS20-55)

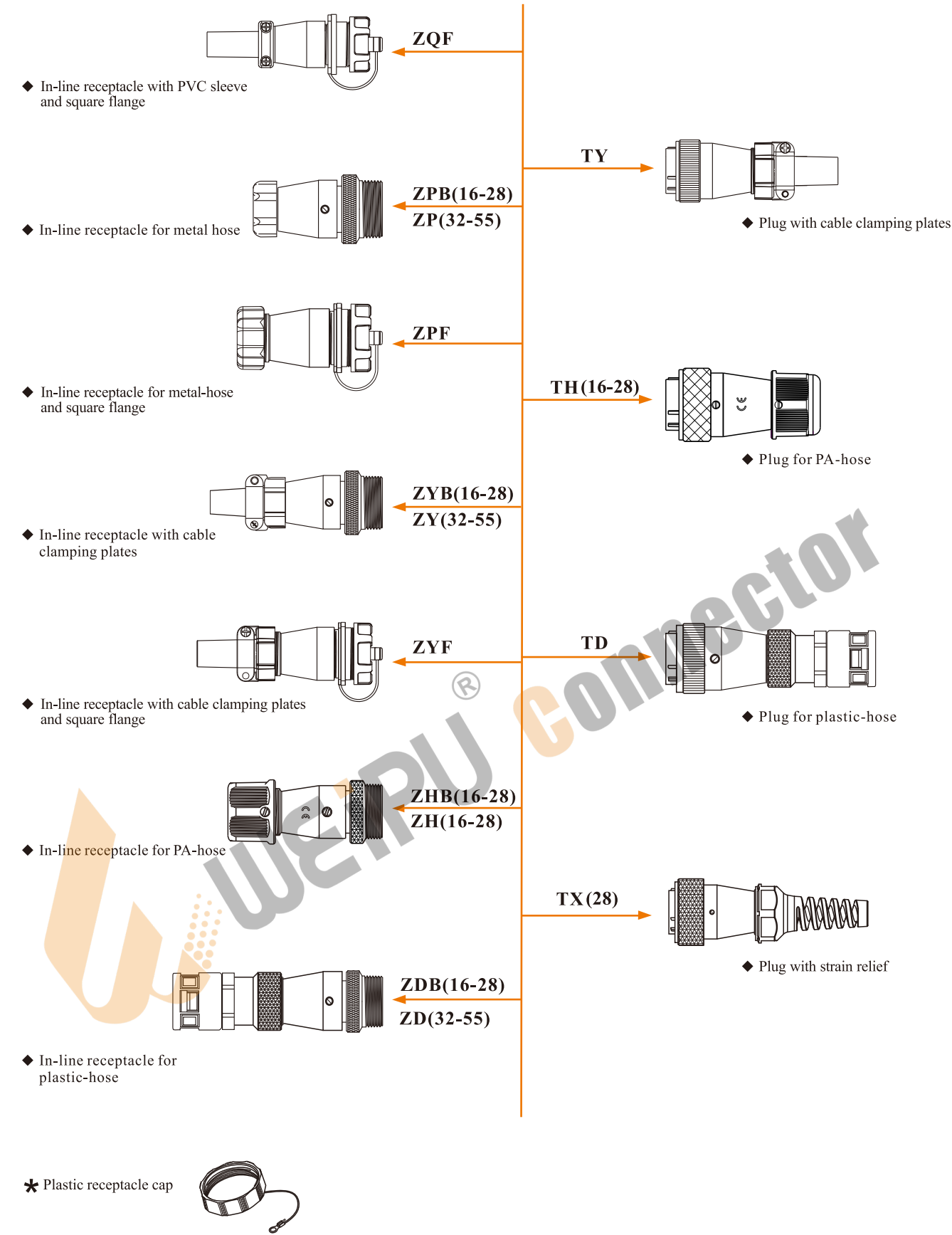
WS Series Mating diagram

Mating note: Plugs and receptacles in this series are cross-compatible. Combinations are shown on three pages (P17-04 to P17-06).



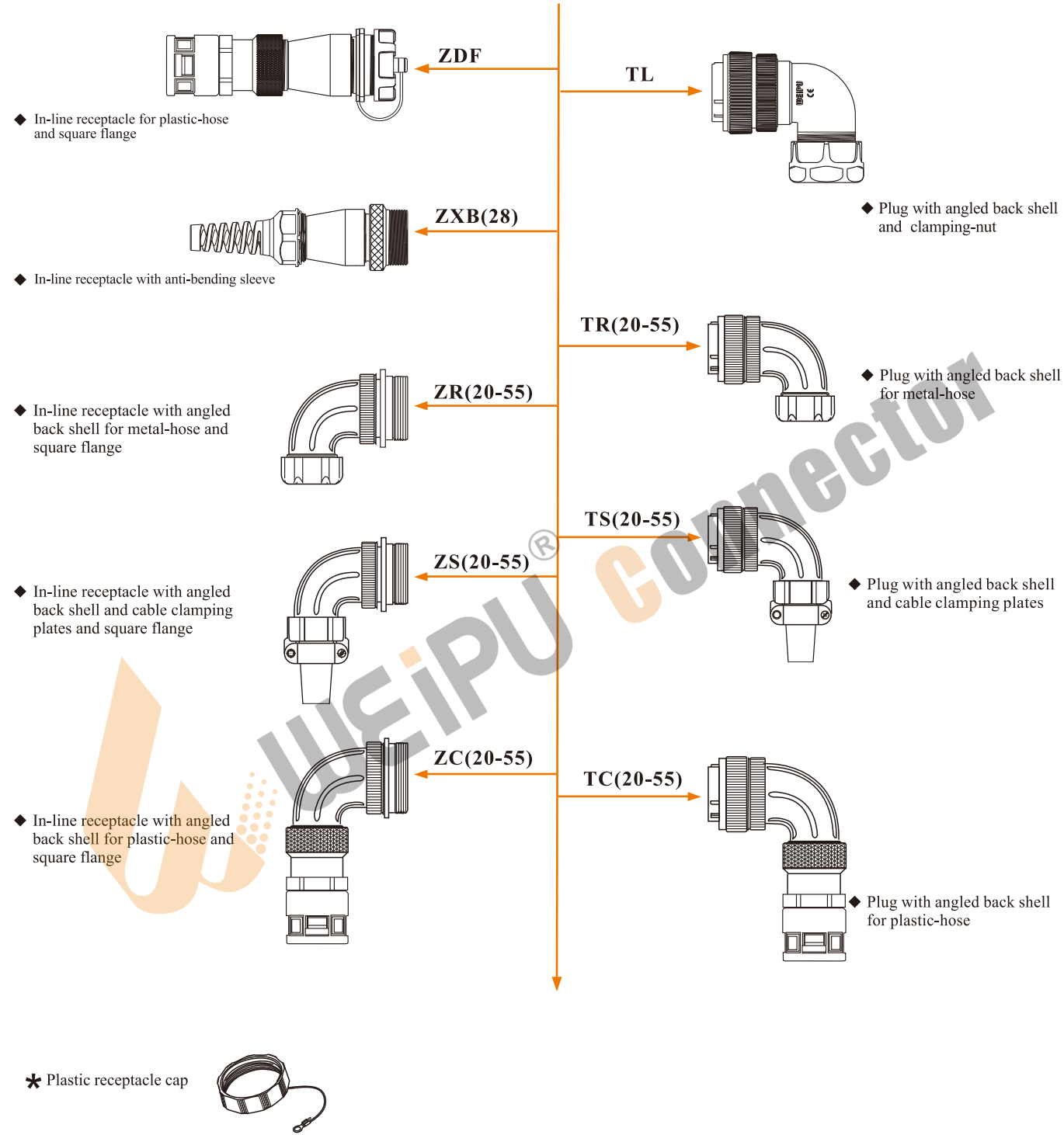
WS Series Mating diagram

Mating note: Plugs and receptacles in this series are cross-compatible. Combinations are shown on three pages (P17-04 to P17-06).



WS Series Mating diagram

Mating note: Plugs and receptacles in this series are cross-compatible. Combinations are shown on three pages (P17-04 to P17-06).



★ Contacts can be male or female

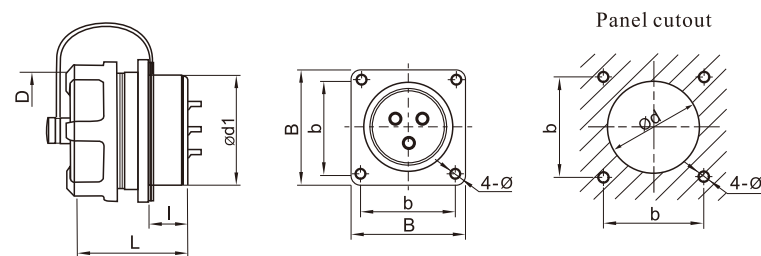
★ Solder contact spec see page P21

★ Crimp contact spec see P22

★ Screw contact spec see P23

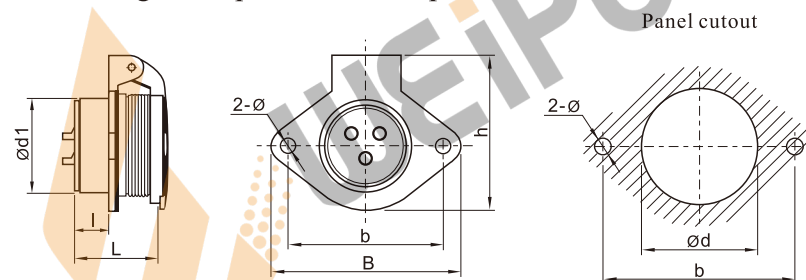


● Square flange mount receptacle: Z



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
Ød1	15.8	19.8	23.8	27.8	31.8	39.8	47.8	54.8
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
I	9.7	10	10	10	14.4	14.2	14.2	14
L	21.6	23	23	23	34	34	34	34
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
Ød	16.5	20.5	24.5	28.5	32.5	40.5	48.5	55.5
Ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

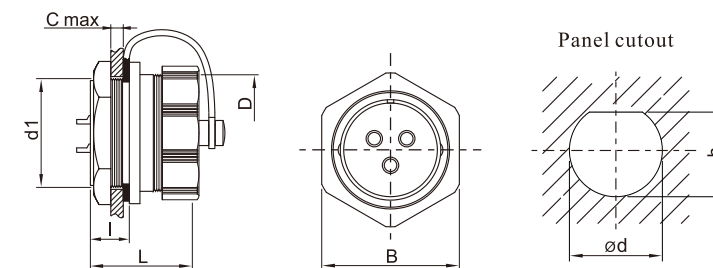
● 2-hole flange receptacle with cap: ZG



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
Ød1	15.8	19.8	23.8	27.8	31.8	39.8	47.8	54.8
I	10	10	10	10	15.4	14.7	14.3	14
L	22	23	23	23	34	34	34	34
b	30	35	40	45	55	65	80	85
B	38	44	50	55	67	77	92	98
h	32.5	36.5	40.5	45.5	52.5	63.5	74.5	80
Ød	16.5	20.5	24.5	28.5	32.5	40.5	48.5	55.5
Ø	3.5	4.5	4.5	4.5	5.5	5.5	5.5	6.5

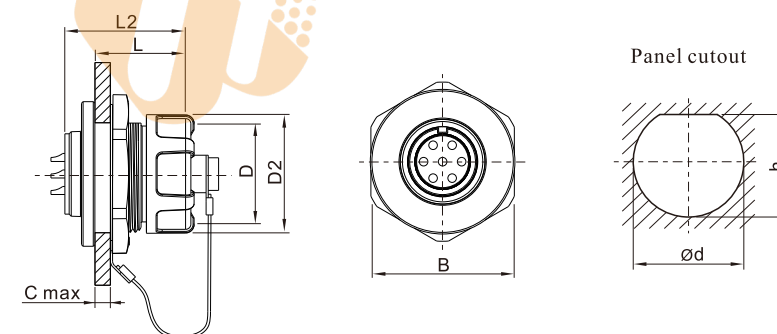


● Round flange receptacle: ZM



Dimension(mm)	WS16	WS20	WS24	WS28
d1	M16X1	M20X1	M24X1	M28X1
D	M18X1	M22X1	M26X1	M30X1
C	5	5	5	5
I	9.7	9.9	10	10.2
L	21.6	23	23	23
B	21.2	25	29.2	33.3
Ød	15.9	19.7	23.7	27.7
h	15.3	19.3	23.2	26.9

● Front-nut-mount receptacle: ZMQ

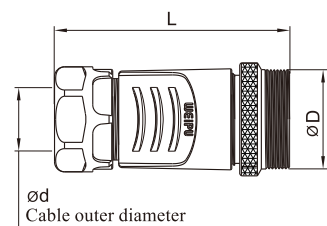


Dimension(mm)	WS16	WS20	WS24	WS28
ØD	M18X1	M22X1	M26X1	M30X1
D2	M22X1	M26X1	M30X1	M34X1
L	16	17	17	17
L2	21.6	23	23	23
C	5	5	5	5
B	26.8	30.8	34.8	38.8
Ød	22	26	30	34
h	20.6	24.6	28.6	32.6



● In-line receptacle with short back shell and clamping-nut B: ZKB

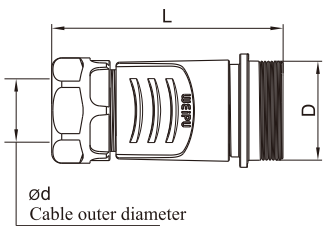
In-line shielded receptacle with short back shell and clamping-nut B: ZKPB



Dimension(mm)	WS16	WS20	WS24	WS28
øD	M18x1	M22x1	M26x1	M30x1
L	50	60	66	70
ød	I: 4-6.5 II: 6-8	I: 6-10 II: 10-14	I: 6-10 II: 10-14	I: 10-13 II: 12-16

● In-line receptacle with short back shell and clamping-nut : ZK

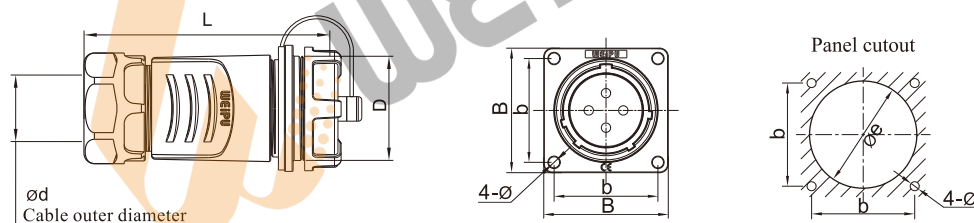
In-line shielded receptacle with short back shell and clamping-nut : ZKP



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
øD	M18x1	M22x1	M26x1	M30x1	M35x1.5	M44x1.5	M52x1.5	M59x1.5
L	50	60	65	70	84	90	110	127
ød	I: 4-6.5 II: 6-8	I: 6-10 II: 10-14	I: 6-10 II: 10-14	I: 10-13 II: 12-16	I: 12-16 II: 16-20	I: 18-22 II: 22-26	I: 22-26 II: 26-30	I: 26-30 II: 30-34

● Square-flange receptacle with short back shell and clamping-nut: ZKF

Shielded square-flange receptacle with short back shell and clamping-nut: ZKPF

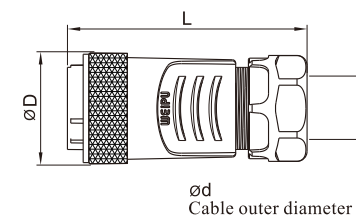


Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	50	60	65	70	84	90	110	127
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5
ød	I: 4-6.5 II: 6-8	I: 6-10 II: 10-14	I: 6-10 II: 10-14	I: 10-13 II: 12-16	I: 12-16 II: 16-20	I: 18-22 II: 22-26	I: 22-26 II: 26-30	I: 26-30 II: 30-34



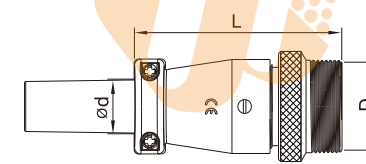
● Plug with short back shell and clamping-nut: TK

Shielded plug with short back shell and clamping-nut: TKP



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
øD	21.7	26.2	30.3	34	39.5	49.1	57.4	64.9
L	50	60	64	70	84	90	110	127
ød	I: 4-6.5 II: 6-8	I: 6-10 II: 10-14	I: 6-10 II: 10-14	I: 10-13 II: 12-16	I: 12-16 II: 16-20	I: 18-22 II: 22-26	I: 22-26 II: 26-30	I: 26-30 II: 30-34

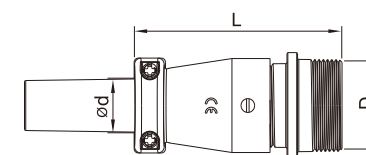
● In-line receptacle with PVC sleeve B: ZQB



Dimension(mm)	WS16	WS20	WS24	WS28
D	M18X1	M22X1	M26X1	M30X1
L	44.5	49	53	55
ød max	10.5	13	13.5	17.5

Optional cap size see P20
PVC sleeve dimension see P20

● In-line receptacle with PVC sleeve: ZQ

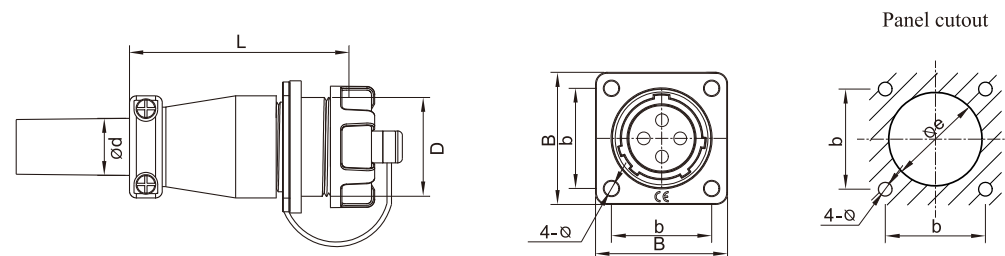


Dimension(mm)	WS32	WS40	WS48	WS55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	70.5	76.5	85	97.5
ød max	21.5	26	26	32

Optional cap size see P20
PVC sleeve dimension see P20



- In-line receptacle with PVC sleeve and square flange: ZQF



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	M18×1	M22×1	M26×1	M30×1	M35×1.5	M44×1.5	M52×1.5	M59×1.5
L	44.5	49	53	55	70.5	76.5	85	97.5
Ød max	10.5	13	13.5	17.5	21.5	26	26	32
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
Ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

- Plug with PVC sleeve: TQ

Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
ØD	21.7	26.2	30	34	39.5	49.5	57	64.5
L	44	49	53	55	69	76	86	97
Ød max	10.5	13	13.5	17.5	21.5	26	26	32

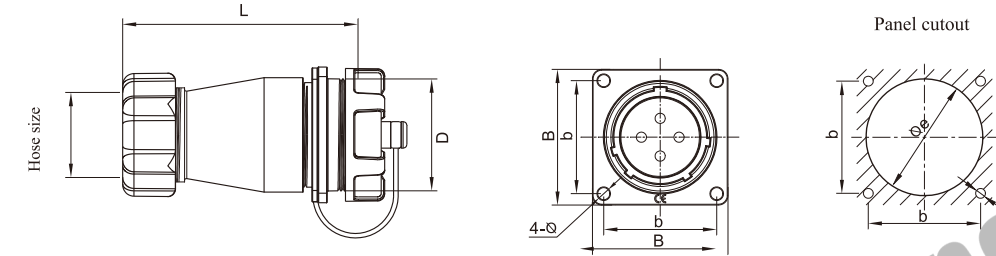
- In-line receptacle for metal-hose B: ZPB

Dimension(mm)	WS16	WS20	WS24	WS28
D	M18X1	M22X1	M26X1	M30X1
L	50	57.5	60.5	64.5
Hose size	1/4"	3/8"	3/8"	1/2"

Optional cap size see P20



- In-line receptacle for metal-hose and square flange : ZPF



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	M18×1	M26×1	M26×1	M30×1	M35×1.5	M44×1.5	M52×1.5	M59×1.5
L	50	60.5	60.5	64.5	80	87	97	113
Hose size	1/4"	3/8"	3/8"	1/2"	3/4"	1"	I: 1", II: 1 1/4"	1 1/4"
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
Ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

- In-line receptacle for metal-hose: ZP

Dimension(mm)	WS32	WS40	WS48	WS55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	80	87	97	113
Hose size	3/4"	1"	I: 1", II: 1 1/4"	1 1/4"

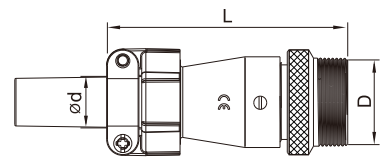
Optional cap size see P20

- Plug for metal-hose: TP

Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
ØD	21.5	26.2	30	34	39.5	49.5	57	64.5
L	48.5	57	61	64	81	86	96.5	112
Hose size	1/4"	3/8"	3/8"	1/2"	3/4"	1"	I: 1", II: 1 1/4"	1 1/4"



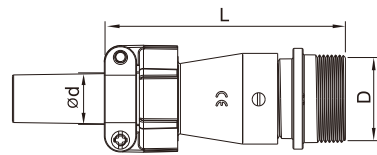
● In-line receptacle with cable clamping plates B: ZYB



Dimension(mm)	WS16	WS20	WS24	WS28
D	M18X1	M22X1	M26X1	M30X1
L	50.5	60.5	63.5	69
ød max	10.4	13.5	13.5	17

Optional cap size see P20
PVC sleeve dimension see P20

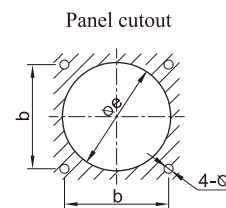
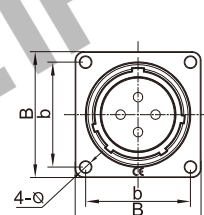
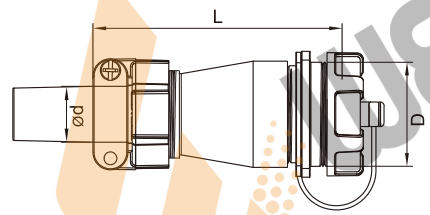
● In-line receptacle with cable clamping plates: ZY



Dimension(mm)	WS32	WS40	WS48	WS55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	86	95	102	117.5
ød max	19	23	I: 23 II: 32	32

Optional cap size see P20
PVC sleeve dimension see P20

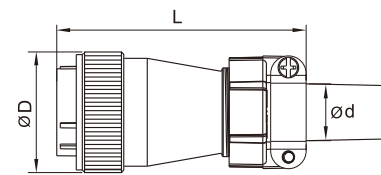
● In-line receptacle with cable clamping plates and square flange :ZYF



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	M18×1	M22×1	M26×1	M30×1	M35×1.5	M44×1.5	M52×1.5	M59×1.5
L	50.5	60.5	63.5	69	86	95	102	117.5
ød max	10.4	13.5	13.5	17	19	25	I:24, II:32	32
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

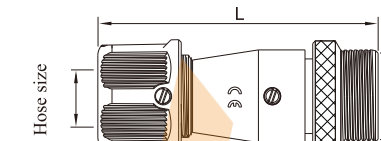


● Plug with cable clamping plates: TY



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
øD	21.5	26.2	30	34	39.5	49.5	57	64.5
L	53.5	60	64.5	71.5	85.5	93.5	103	121
ød max	10.4	13.5	13.5	17	19	25	I: 24 II: 32	32

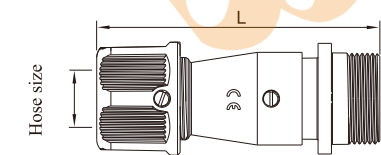
● In-line receptacle for PA-hose B: ZHB



Dimension(mm)	WS16	WS20	WS24	WS28
D	M18X1	M22X1	M26X1	M30X1
L	52.6	63	67	71
Hose size	AD10	AD15.8	AD15.8	AD21.2

Optional cap size see P20

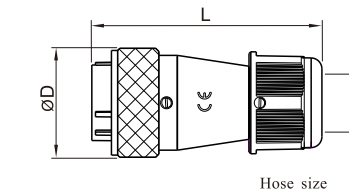
● In-line receptacle for PA-hose: ZH



Dimension(mm)	WS16	WS20	WS24	WS28
D	M18X1	M22X1	M26X1	M30X1
L	55	61	66	70
Hose size	AD10	AD15.8	AD15.8	AD21.2

Optional cap size see P20

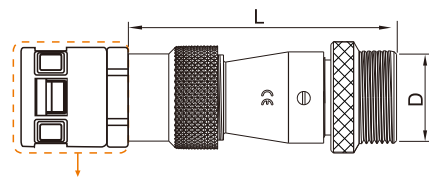
● Plug for PA-hose: TH



Dimension(mm)	WS16	WS20	WS24	WS28
øD	22	26.2	30	34
L	52	63.5	66.5	69.5
Hose size	AD10	AD15.8	AD15.8	AD21.2



● In-line receptacle for plastic-hose B: ZDB

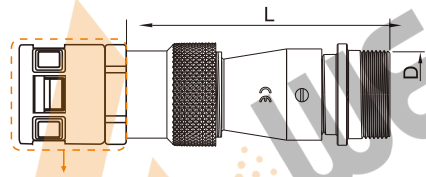


Optional plastic hose adapter

Optional cap size see P20

Dimension(mm)	WS16	WS20	WS24	WS28
D	M18X1	M22X1	M26X1	M30X1
L	55.5	64.5	69	75.5
Adapter size	PG7	PG11	PG11	PG16
Model of plastic hose adapter	WQG-PG7(B)	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)
Hose size	AD10	AD15.8	AD15.8	AD21.2

● In-line receptacle for plastic-hose: ZD



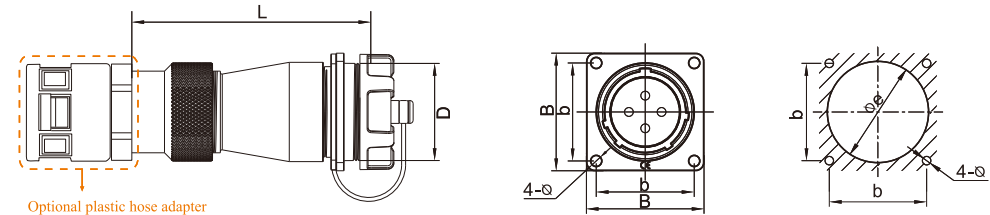
Optional plastic hose adapter

Optional cap size see P20

Dimension(mm)	WS32	WS40	WS48	WS55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	89.5	96.5	105	119.5
Adapter size	PG21	PG29	I: PG29 II: PG36	PG36
Model of plastic hose adapter	WQG-PG21(B)	WQG-PG29(B)	I: WQG-PG29(B) II: WQG-PG36(B)	WQG-PG36(B)
Hose size	AD28.5	AD34.5	I: AD34.5 II: AD42.5	AD42.5



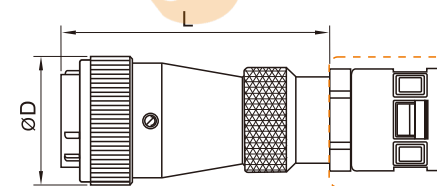
● In-line receptacle for plastic-hose and square flange: ZDF



Optional plastic hose adapter

Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	55.5	64.5	69	75.5	89.5	96.5	105	119.5
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	I: PG29 II: PG36	PG36
Model of plastic hose adapter	WQG-PG7(B)	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)	WQG-PG21(B)	WQG-PG29(B)	I: WQG-PG29(B) II: WQG-PG36(B)	WQG-PG36(B)
Hose size	AD10	AD15.8	AD15.8	AD21.2	AD28.5	AD34.5	I: AD34.5 II: AD42.5	AD42.5
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
Ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

● Plug for plastic-hose: TD

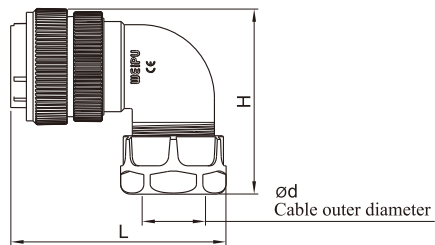


Optional plastic hose adapter

Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
ØD	21.5	26.2	30	34	39.5	49.5	57	64.5
L	56	64.5	68.5	73	88.5	95.5	105	119
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	I: PG29 II: PG36	PG36
Model of plastic hose adapter	WQG-PG7(B)	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)	WQG-PG21(B)	WQG-PG29(B)	I: WQG-PG29(B) II: WQG-PG36(B)	WQG-PG36(B)
Hose size	AD10	AD15.8	AD15.8	AD21.2	AD28.5	AD34.5	I: AD34.5 II: AD42.5	AD42.5

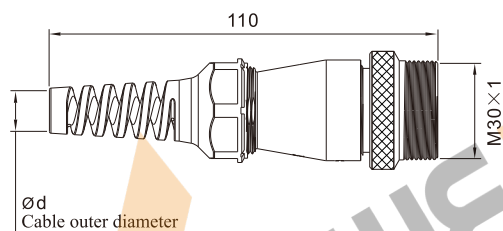


● Plug with angled back shell and clamping-nut: TL



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
H	38	47	51	54	67	78	91	100
L	47	56	62	65	81	93	102	106
Ød	I: 4-6.5 II: 6-8	I: 6-10 II: 10-14	I: 6-10 II: 10-14	I: 10-13 II: 12-16	I: 12-16 II: 16-20	I: 18-22 II: 22-26	I: 22-26 II: 26-30	I: 26-30 II: 30-34

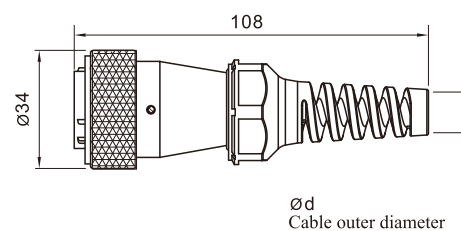
● In-line receptacle with anti-bending sleeve B: ZXB



Dimension(mm)	WS28
ØD	M30X1
L	110
Ød	6-8

Only available in size 28, other models are customizable

● Plug with strain relief: TX

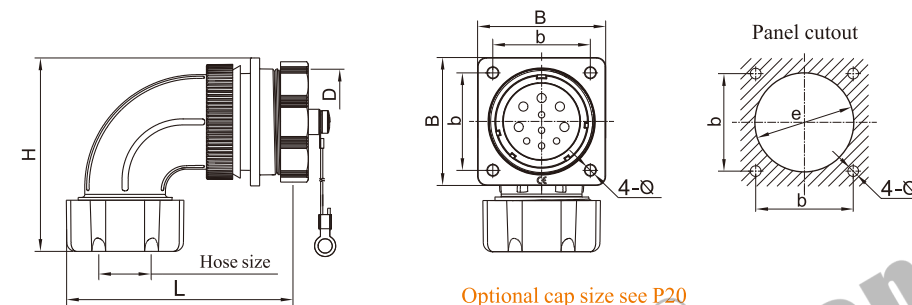


Dimension(mm)	WS28
ØD	34
L	108
Ød	6-8

Only available in size 28, other models are customizable

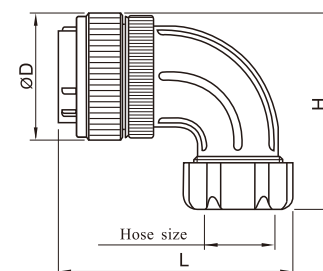


● In-line receptacle with angled back shell for metal-hose and square flange: ZR



Dimension(mm)	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	M22×1	M26×1	M30×1	M35×1.5	M44×1.5	M52×1.5	M59×1.5
L	61	60.5	64.5	83.5	90.5	97	114.5
H	48	51.5	52	63.5	74.5	85	98
Hose size	3/8"	3/8"	1/2"	3/4"	1"	1"	1 1/4"
b	22	26	30	32	40	48	52
B	29	32	36	42	50	58	64
e	26.6	28.5	33	37.5	47	55.5	62.2
Ø	3.2	3.2	3.2	3.5	4.5	4.5	4.5

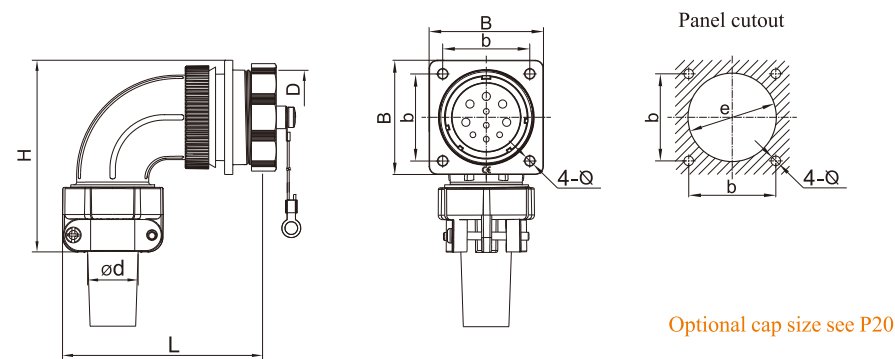
● Plug with angled back shell for metal-hose: TR



Dimension(mm)	WS20	WS24	WS28	WS32	WS40	WS48	WS55
ØD	27.5	31	35	39	49	57	64.5
H	50	51	54.5	63	73	89	97.5
L	60	60	64	82	87.5	94	115
Hose size	3/8"	3/8"	1/2"	3/4"	1"	1"	1 1/4"



- In-line receptacle with angled back shell and cable clamping plates and square flange: ZS

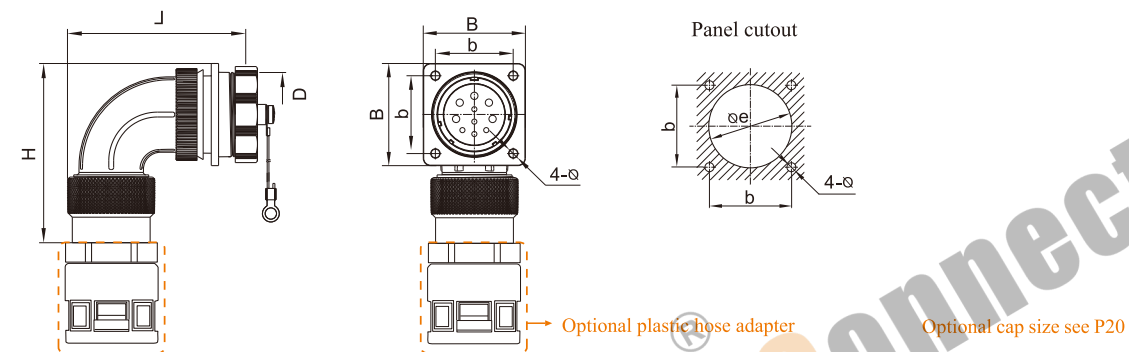


Optional cap size see P20

Dimension(mm)	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	M22×1	M26×1	M30×1	M35×1.5	M44×1.5	M52×1.5	M59×1.5
L	60.5	60.5	64.5	82	89	95.5	114
H	56.5	57	63.5	72	83.5	94.5	112.5
ød max	13.5	13	17	19	23	23	32
b	22	26	30	32	40	48	52
B	29	32	36	42	50	58	64
e	26.6	28.5	33	37.5	47	55.5	62.2
ø	3.2	3.2	3.2	3.5	4.5	4.5	4.5



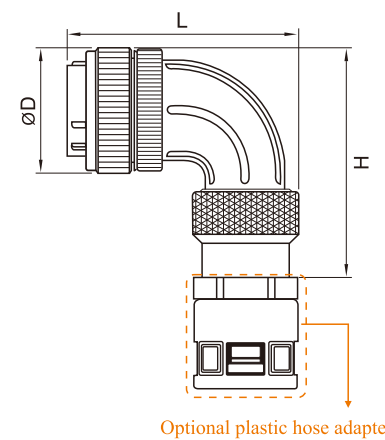
- In-line receptacle with angled back shell for plastic-hose and square flange: ZC



Optional cap size see P20

Dimension(mm)	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	M22×1	M26×1	M30×1	M35×1.5	M44×1.5	M52×1.5	M59×1.5
L	60	61	63	82	88.5	95	112
H	58	60	65	75.5	83	95.5	104
Model of plastic hose adapter	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)	WQG-PG21(B)	WQG-PG29(B)	WQG-PG29(B)	WQG-PG36(B)
Hose size	AD15.8	AD15.8	AD21.2	AD28.5	AD34.5	AD34.5	AD42.5
b	22	26	30	32	40	48	52
B	29	32	36	42	50	58	64
e	26.6	28.5	33	37.5	47	55.5	62.2
ø	3.2	3.2	3.2	3.5	4.5	4.5	4.5

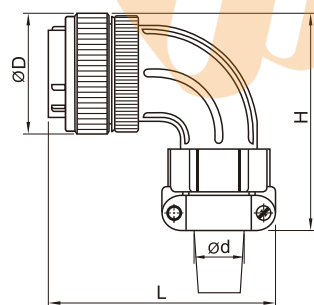
- Plug with right angle back shell for plastic-hose: TC



Optional plastic hose adapter

Dimension(mm)	WS20	WS24	WS28	WS32	WS40	WS48	WS55
øD	27.5	31	35	39	49.5	57	64.5
H	57	62	65	71.5	82	96	104
L	59.5	60	63	81	88	94	112
Adapter size	PG11	PG11	PG16	PG21	PG29	PG29	PG36
Model of plastic hose adapter	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)	WQG-PG21(B)	WQG-PG29(B)	WQG-PG29(B)	WQG-PG36(B)
Hose size	AD15.8	AD15.8	AD21.2	AD28.5	AD34.5	AD34.5	AD42.5

- Plug with angled back shell with cable clamping plates: TS



Dimension(mm)	WS20	WS24	WS28	WS32	WS40	WS48	WS55
øD	27.5	31	35	39	49.5	57	65
H	53.5	56	61	67.5	78	91	99.5
L	60	60	64	81	88	95	106
ød max	13.5	13.5	16.8	19	23	23	32

Solder contact spec

WS16, WF16, WY16	2	3	4	2B	3B	4B	5	7	9	10
Male contact face view										
Rated current (A)	10	10	5	15	15	15	5	5	5	5
Contact diameter(mm)	Ø1.5X2	Ø1.5X3	Ø1X4	Ø2X2	Ø2X3	Ø2X4	Ø1X5	Ø1X7	Ø1X9	Ø1X10
Rated voltage (AC.V)	500	500	500	500	500	500	500	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1200	1200	1200
Contact resistance(mΩ)	2.5	2.5	5	2.5	2.5	2.5	5	5	5	5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Wire size (mm²/AWG)	≤2/14	≤2/14	≤0.75/18	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18

WS20,WF20,WY20	2	3	4	5	6	6B	7	8	9	12	15
Male contact face view											
Rated current (A)	25	25	25	10	5 25	5 30	10	10	5	5	5
Contact diameter(mm)	Ø2.5×2	Ø2.5×3	Ø2.5×4	Ø1.5×5	Ø1X2 Ø2.5X4	Ø1X4 Ø3X2	Ø1.5×7	Ø1.5×8	Ø1×9	Ø1×12	Ø1×15
Rated voltage (AC.V)	500	500	500	500	500	500	500	500	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1500	1200	1200	1200
Contact resistance(mΩ)	1	1	1	2.5	5 1	5 1	2.5	2.5	5	5	5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Wire size (mm²/AWG)	≤4/12	≤4/12	≤4/12	≤1.5/16	≤0.75/18 ≤4/12	≤0.75/18 ≤4/12	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18

WK24,SF24, SA24, SP25 SY25, WS24, WF24, WY24	2	3	4	9	10	12	12B	19
Male contact face view								
Rated current (A)	25	25	25	5 25	10	10	5 30	5
Contact diameter(mm)	Ø2.5X2	Ø2.5X3	Ø2.5X4	Ø1X5 Ø2.5X4	Ø1.5X10	Ø1.5X12	Ø1X9 Ø3X3	Ø1X19
Rated voltage (AC.V)	500	500	500	500	500	500	500	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1200
Contact resistance(mΩ)	1	1	1	5 1	2.5	2.5	5 1	5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000	2000	2000
Wire size (mm²/AWG)	≤4/12	≤4/12	≤4/12	≤0.75/18 ≤4/12	≤1.5/16	≤1.5/16	≤0.75/18 ≤4/12	≤0.75/18

WK28,WS28,WF28,WY28	2	3	4	7	8	8B	9	10	10B	12	16	17	20	24	26	35
Male contact face view																
Rated current (A)	50	50	25	25	25	60.5	25.5	25	10	10	10	10	5	5	5	5
Contact diameter(mm)	Ø3.5X2	Ø3.5X3	Ø2.5X4	Ø2.5X7	Ø2.5X8	Ø5X2 Ø1X6	Ø2.5X4 Ø1X5	Ø2.5X10	Ø1.5X10	Ø1.5X12	Ø1.5X16	Ø1.5X17	Ø1X20	Ø1X24	Ø1X26	Ø1X35
Rated voltage (AC.V)	500	500	500	500	500	500 400	500	500	500	500	500	500	400	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1200	1200	1200	1200
Contact resistance(mΩ)	0.5	0.5	1	1	1	0.5、5	1、5	1	2.5	2.5	2.5	2.5	5	5	5	5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Wire size (mm²/AWG)	≤10/7	≤10/7	≤4/12	≤4/12	≤4/12	≤16/5 ≤0.75/18	≤4/12 ≤0.75/18	≤4/12	≤1.5/16	≤1.5/16	≤1.5/16	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18

Solder contact spec

WS32, WF32, WY32	4	6	8	8B	9	10	10B	11	12	13	19	41
Male contact face view												
Rated current (A)	50	10 50	10 50	10 50	80 25	10 25	25	25	25	10 25	10	5
Contact diameter(mm)	Ø3.5X4	Ø1.5X2 Ø3.5X4	Ø1.5X5 Ø3.5X3	Ø1.5X4 Ø3.5X4	Ø5.5X2 Ø1.5X6 Ø2.5X1	Ø1.5X5 Ø2.5X5	Ø2.5X10	Ø2.5X11	Ø2.5X12	Ø1.5X9 Ø2.5X4	Ø1.5X9	Ø1X41
Rated voltage (AC.V)	500	500	500	500	400	500	500	500	500	500	500	48
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1200	1500	1500	1500	1500	1500	1500	1500
Contact resistance(mΩ)	0.5	2.5 0.5	2.5 0.5	2.5 0.5	2.5 0.5	2.5 1	1	1	1	2.5 1	2.5	5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Wire size (mm²/AWG)	≤10/7	≤1.5/16 ≤10/7	≤1.5/16 ≤10/7	≤1.5/16 ≤10/7	≤16/5 1.5/16 ≤4/12	≤1.5/16 ≤4/12	≤4/12	≤4/12	≤4/12	≤1.5/16 ≤4/12	≤1.5/16	≤0.75/18

WS40, WF40, WY40	5	9	15	26	31	52
Male contact face view						
Rated current (A)	50	25 50	10	10 25	10	5
Contact diameter(mm)	Ø3.5X5	Ø2.5X5 Ø3.5X4	Ø1.5X15	Ø1.5X22 Ø2.5X4	Ø1.5X31	Ø1X52
Rated voltage (AC.V)	500	500	500	500	500	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1200
Contact resistance(mΩ)	0.5	1 0.5	2.5	2.5、1	2.5	5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000
Wire size (mm²/AWG)	≤10/7	≤4/12 ≤10/7	≤1.5/16	≤1.5/16 ≤4/12	≤1.5/16	≤0.75/18

WS48, WF48, WY48	5	7	20	27	38	42
Male contact face view						
Rated current (A)	100	50	25	10 25	10 25	10
Contact diameter(mm)	Ø5.5X5	Ø3.5X7	Ø2.5X20	Ø1.5X26 Ø2.5X1	Ø1.5X33 Ø2.5X5	Ø1.5X42
Rated voltage (AC.V)	500	500	500	500	500	500
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500
Contact resistance(mΩ)	0.3	0.5	1	2.5、1	2.5、1	2.5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000
Wire size (mm²/AWG)	≤25/3	≤10/7	≤4/12	≤1.5/16 ≤4/12	≤1.5/16 ≤4/12	≤1.5/16

WS55, WF55, WY55	4	7	40	53	61
Male contact face view					
Rated current (A)	50 150	50 100	10 25	10 25	10
Contact diameter(mm)	Ø3.5X1 Ø10X3	Ø3.5X1 Ø5.5X6	Ø1.5X25 Ø2.5X15	Ø1.5X48 Ø2.5X5	Ø1.5X61
Rated voltage (AC.V)	500	500	500	500	500
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500
Contact resistance(mΩ)	0.5 0.2	0.5 0.3	2.5 1	2.5 1	2.5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000
Wire size (mm²/AWG)	≤10/7 ≤50/(2/0)	≤10/7 ≤25/3	≤1.5/16 ≤4/12	≤1.5/16 ≤4/12	≤1.5/16

Crimp contact spec

Friendly reminder: Crimp contacts need to be purchased separately.
For details, please refer to pages P22-03/04/05

SF16, SA16, SP17, SY17 WS16, WF16, WY16	1	2	3	4
	For straight connector only			
Male contact face view				
Rated current (A)	50	10	10	5
Contact diameter(mm)	Ø3.5X1	Ø1.5X2	Ø1.5X3	Ø1X4
Rated voltage (AC.V)	500	500	500	400
Test voltage(AC.V) 1 min	1500	1500	1500	1200
Contact resistance(mΩ)	0.5	2.5	2.5	5
Insulation resistance (MΩ)	2000	2000	2000	2000

WK20,SF20, SA20, SP21, SY21 WS20,WF20, WY20, WP20	1	2	3	4	5	7	7B	8
	For straight connector only							
Male contact face view								
Rated current (A)	100	25	25	25	10	10	5	5
Contact diameter(mm)	Ø5.5X1	Ø2.5X2	Ø2.5X3	Ø2.5X4	Ø1.5X5	Ø1.5X7	Ø1X7	Ø1X8
Rated voltage (AC.V)	500	500	500	500	500	500	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1200	1200
Contact resistance(mΩ)	0.3	1	1	1	2.5	2.5	5	5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000	2000	2000

WK24, SA24, SY25, SP25 WS24, WF24, WY24	4	5	9	12
Male contact face view				
Rated current (A)	25	25	10	5
Contact diameter(mm)	Ø2.5X4	Ø2.5X5	Ø1.5X9	Ø1X12
Rated voltage (AC.V)	500	500	500	400
Test voltage(AC.V) 1 min	1500	1500	1500	1200
Contact resistance(mΩ)	1	1	2.5	5
Insulation resistance (MΩ)	2000	2000	2000	2000

WK28, SA28, SP29, SY29 WS28, WF28, WY28	2	3	7	12	15	19
Male contact face view						
Rated current (A)	50	50	25	10	5	5
Contact diameter(mm)	Ø3.5X2	Ø3.5X3	Ø2.5X7	Ø1.5X12	Ø1X15	Ø1X19
Rated voltage (AC.V)	500	500	500	500	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1200	1200
Contact resistance(mΩ)	0.5	0.5	1	2.5	5	5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000

Crimp contact spec

Friendly reminder: Crimp contacts need to be purchased separately.
For details, please refer to pages P22-03/04/05

WS32, WF32, WY32	4	6	10	15	19
Male contact face view					
Rated current (A)	50	50 10	25	10	10
Contact diameter(mm)	Ø3.5X4	Ø3.5X4 Ø1.5X2	Ø2.5X10	Ø1.5X15	Ø1.5X19
Rated voltage (AC.V)	500	500	500	500	500
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500
Contact resistance(mΩ)	0.5	0.5 2.5	1	2.5	2.5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000

WS40, WF40, WY40	5	19	31
Male contact face view			
Rated current (A)	50	25	10
Contact diameter(mm)	Ø3.5X5	Ø2.5X19	Ø1.5X31
Rated voltage (AC.V)	500	500	500
Test voltage(AC.V) 1 min	1500	1500	1500
Contact resistance(mΩ)	0.5	1	2.5
Insulation resistance (MΩ)	2000	2000	2000

WS48, WF48, WY48	31	42
Male contact face view		
Rated current (A)	25	10
Contact diameter(mm)	Ø2.5X31	Ø1.5X42
Rated voltage (AC.V)	500	500
Test voltage(AC.V) 1 min	1500	1500
Contact resistance(mΩ)	1	2.5
Insulation resistance (MΩ)	2000	2000

WS55, WF55, WY55	38	61
Male contact face view		
Rated current (A)	25	10
Contact diameter(mm)	Ø2.5X38	Ø1.5X61
Rated voltage (AC.V)	500	500
Test voltage(AC.V) 1 min	1500	1500
Contact resistance(mΩ)	1	2.5
Insulation resistance (MΩ)	2000	2000

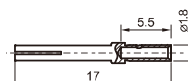
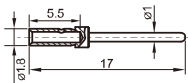
Crimp contact

5A Crimp contact

※ Contact diameter: Ø1

※ Material: Brass with gold plating

※ Contact resistance: 5mΩ



5A Male crimp contact

For SF, SA, SP, SY, WP, WS/WF/WY16-28

Wire size	Stripping length	Male crimp contact p/n	Crimping tool p/n	Removal tool p/n
0.20-0.52mm ² AWG 24-20	5.5mm	YJ1-17-0.52AU	CTW-0.14/4	RT-1.0

5A Female crimp contact

For SF, SA, SP, SY, WP, WS/WF/WY16-28

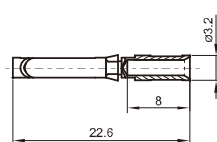
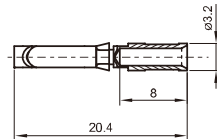
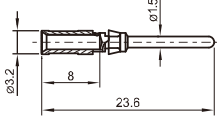
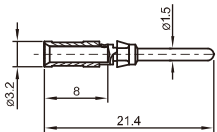
Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n	Removal tool p/n
0.20-0.52mm ² AWG 24-20	5.5mm	YK1-17-0.52AU	CTW-0.14/4	RT-1.0

10A Crimp contact

※ Contact diameter: Ø1.5

※ Material: Brass with gold plating

※ Contact resistance: 2.5mΩ



10A Male crimp contact

For WK, SF, SA, SP, SY, WP, WS/WF/WY32-55

Wire size	Stripping length	Male crimp contact p/n	Crimping tool p/n	Removal tool p/n
0.14-0.37mm ² AWG 26-22	8mm	YJ1.5-21.4-0.37AU	CTW-0.14/4	RT-1.5
0.5mm ² AWG 20	8mm	YJ1.5-21.4-0.5AU	CTW-0.14/4	RT-1.5
0.75-1.0mm ² AWG 18	8mm	YJ1.5-21.4-1.0AU	CTW-0.14/4	RT-1.5
1.5mm ² AWG 16	8mm	YJ1.5-21.4-1.5AU	CTW-0.14/4	RT-1.5
2.5mm ² AWG 14	8mm	YJ1.5-21.4-2.5AU	CTW-0.14/4	RT-1.5

10A Male crimp contact

For WS/WF/WY32-55

Wire size	Stripping length	Male crimp contact p/n	Crimping tool p/n	Removal tool p/n
0.14-0.37mm ² AWG 26-22	8mm	YJ1.5-23.6-0.37AU	CTW-0.14/4	RT-1.5
0.5mm ² AWG 20	8mm	YJ1.5-23.6-0.5AU	CTW-0.14/4	RT-1.5
0.75-1.0mm ² AWG 18	8mm	YJ1.5-23.6-1.0AU	CTW-0.14/4	RT-1.5
1.5mm ² AWG 16	8mm	YJ1.5-23.6-1.5AU	CTW-0.14/4	RT-1.5
2.5mm ² AWG 14	8mm	YJ1.5-23.6-2.5AU	CTW-0.14/4	RT-1.5

10A Female crimp contact

For WK, SF, SA, SP, SY, WP, WS/WF/WY16-28

Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n	Removal tool p/n
0.14-0.37mm ² AWG 26-22	8mm	YK1.5-20.4-0.37AU	CTW-0.14/4	RT-1.5
0.5mm ² AWG 20	8mm	YK1.5-20.4-0.5AU	CTW-0.14/4	RT-1.5
0.75-1.0mm ² AWG 18	8mm	YK1.5-20.4-1.0AU	CTW-0.14/4	RT-1.5
1.5mm ² AWG 16	8mm	YK1.5-20.4-1.5AU	CTW-0.14/4	RT-1.5
2.5mm ² AWG 14	8mm	YK1.5-20.4-2.5AU	CTW-0.14/4	RT-1.5

10A Female crimp contact

For WS/WF/WY32-55

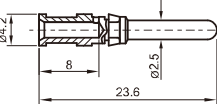
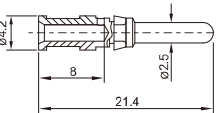
Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n	Removal tool p/n
0.14-0.37mm ² AWG 26-22	8mm	YK1.5-22.6-0.37AU	CTW-0.14/4	RT-1.5
0.5mm ² AWG 20	8mm	YK1.5-22.6-0.5AU	CTW-0.14/4	RT-1.5
0.75-1.0mm ² AWG 18	8mm	YK1.5-22.6-1.0AU	CTW-0.14/4	RT-1.5
1.5mm ² AWG 16	8mm	YK1.5-22.6-1.5AU	CTW-0.14/4	RT-1.5
2.5mm ² AWG 14	8mm	YK1.5-22.6-2.5AU	CTW-0.14/4	RT-1.5

25A Crimp contact

※ Contact diameter: Ø2.5

※ Material: Brass with gold plating

※ Contact resistance: 1mΩ



25A Male crimp contact

For WK, SF, SA, SP, SY, WP, WS/WF/WY16-28

Wire size	Stripping length	Male crimp contact p/n	Crimping tool p/n	Removal tool p/n
0.75-1.0mm ² AWG 18	8mm	YJ2.5-21.4-1.0AU	CTW-0.14/4	RT-2.5
1.5mm ² AWG 16	8mm	YJ2.5-21.4-1.5AU	CTW-0.14/4	RT-2.5
2.5mm ² AWG 14	8mm	YJ2.5-21.4-2.5AU	CTW-0.14/4	RT-2.5
4.0mm ² AWG 12	8mm	YJ2.5-21.4-4.0AU	CTW-0.14/4	RT-2.5

25A Male crimp contact

For WS/WF/WY32-55

Wire size	Stripping length	Male crimp contact p/n	Crimping tool p/n	Removal tool p/n
0.75-1.0mm ² AWG 18	8mm	YJ2.5-23.6-1.0AU	CTW-0.14/4	RT-2.5
1.5mm ² AWG 16	8mm	YJ2.5-23.6-1.5AU	CTW-0.14/4	RT-2.5
2.5mm ² AWG 14	8mm	YJ2.5-23.6-2.5AU	CTW-0.14/4	RT-2.5
4.0mm ² AWG 12	8mm	YJ2.5-23.6-4.0AU	CTW-0.14/4	RT-2.5

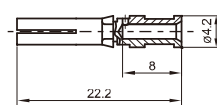
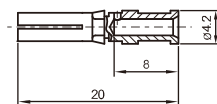
Crimp contact

25A Crimp contact

※ Contact diameter: Ø2.5

※ Material: Brass with gold plating

※ Contact resistance: 1mΩ



25A Female crimp contact

For WK, SF, SA, SP, SY, WP, WS/WF/WY16-28

Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n	Removal tool p/n
0.75-1.0mm ² AWG 18	8mm	YK2.5-20-1.0AU	CTW-0.14/4	RT-2.5
1.5mm ² AWG 16	8mm	YK2.5-20-1.5AU	CTW-0.14/4	RT-2.5
2.5mm ² AWG 14	8mm	YK2.5-20-2.5AU	CTW-0.14/4	RT-2.5
4.0mm ² AWG 12	8mm	YK2.5-20-4.0AU	CTW-0.14/4	RT-2.5

25A Female crimp contact

For WS/WF/WY32-55

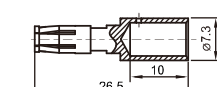
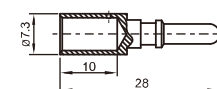
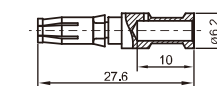
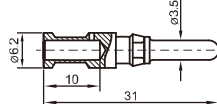
Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n	Removal tool p/n
0.75-1.0mm ² AWG 18	8mm	YK2.5-22.2-1.0AU	CTW-0.14/4	RT-2.5
1.5mm ² AWG 16	8mm	YK2.5-22.2-1.5AU	CTW-0.14/4	RT-2.5
2.5mm ² AWG 14	8mm	YK2.5-22.2-2.5AU	CTW-0.14/4	RT-2.5
4.0mm ² AWG 12	8mm	YK2.5-22.2-4.0AU	CTW-0.14/4	RT-2.5

50A Crimp contact

※ Contact diameter: Ø3.5

※ Material:copper

※ Contact resistance:0.5mΩ



50A Male crimp contact

For WS/WF/WY32-55

Wire size	Stripping length	Male crimp contact p/n	Crimping tool p/n	Removal tool p/n
1.5mm ² AWG 16	10mm	YJ3.5-31-1.5AU	CT-0.14/4	RT-3.5
2.5mm ² AWG 14	10mm	YJ3.5-31-2.5AU	CT-0.14/4	RT-3.5
4.0mm ² AWG 12	10mm	YJ3.5-31-4.0AU	CT-0.14/4	RT-3.5
6.0mm ² AWG 10	10mm	YJ3.5-31-6.0AU	CT-4/10	RT-3.5
10.0mm ² AWG 7	10mm	YJ3.5-31-10.0AU	CT-4/10	RT-3.5

50A Female crimp contact

For WS/WF/WY32-55

Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n	Removal tool p/n
1.5mm ² AWG 16	10mm	YK3.5-27.6-1.5AU	CT-0.14/4	RT-3.5
2.5mm ² AWG 14	10mm	YK3.5-27.6-2.5AU	CT-0.14/4	RT-3.5
4.0mm ² AWG 12	10mm	YK3.5-27.6-4.0AU	CT-0.14/4	RT-3.5
6.0mm ² AWG 10	10mm	YK3.5-27.6-6.0AU	CT-4/10	RT-3.5
10.0mm ² AWG 7	10mm	YK3.5-27.6-10.0AU	CT-4/10	RT-3.5

50A Male crimp contact

For 2 & 3 pins of SP29, SY29, SA28, WK28/WS/WF/WY28

Wire size	Stripping length	Male crimp contact p/n	Crimping tool p/n	Removal tool p/n
4.0mm ² AWG 12	10mm	YJ3.5-28-4.0AU	CT-4/10	RT-3.5
6.0mm ² AWG 10	10mm	YJ3.5-28-6.0AU	CT-4/10	RT-3.5
10mm ² AWG 7	10mm	YJ3.5-28-10.0AU	CT-4/10	RT-3.5
16mm ² AWG 5	10mm	YJ3.5-28-16.0AU	YQK-70	RT-3.5

50A Female crimp contact

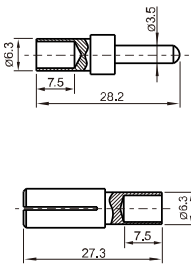
For 2 & 3 pins of SP29, SY29, SA28, WK28/WS/WF/WY28

Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n	Removal tool p/n
4.0mm ² AWG 12	10mm	YK3.5-26.5-4.0AU	CT-4/10	RT-3.5
6.0mm ² AWG 10	10mm	YK3.5-26.5-6.0AU	CT-4/10	RT-3.5
10mm ² AWG 7	10mm	YK3.5-26.5-10.0AU	CT-4/10	RT-3.5
16mm ² AWG 5	10mm	YK3.5-26.5-16.0AU	YQK-70	RT-3.5

Crimp contact

50A Crimp contact

- ※ Contact diameter: Ø3.5
- ※ Material:brass with silver plating
- ※ Contact resistance:0.5mΩ

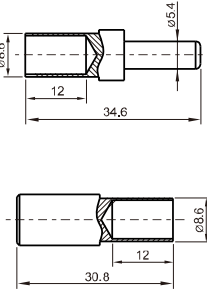


50A Male crimp contact			For WS/WF/WY16/SY17/SA16/SF16
Wire size	Stripping length	Crimping tool p/n	
10.0mm ² AWG 7	10mm	YQK-70	

50A Female crimp contact			For WS/WF/WY16/SY17/SA16/SF16
Wire size	Stripping length	Crimping tool p/n	
10.0mm ² AWG 7	10mm	YQK-70	

100A Crimp contact

- ※ Contact diameter: Ø5.5
- ※ Material:brass with silver plating
- ※ Contact resistance:0.3mΩ



100A Male crimp contact			WS/WF/WY20/SP21/SY21/SA20/SF20/WP20/WK20
Wire size	Stripping length	Crimping tool p/n	
25mm ² AWG 3	10mm	YQK-70	

100A Female crimp contact			WS/WF/WY20/SP21/SY21/SA20/SF20/WP20/WK20
Wire size	Stripping length	Crimping tool p/n	
25mm ² AWG 3	10mm	YQK-70	

Crimp tool

For crimping the male / female contacts



Part number	Crimping wire range
YQK-70	4-70mm ² AWG 11-2/0

Crimp tool and Removal tool

Crimp tool

For crimping the male / female contacts

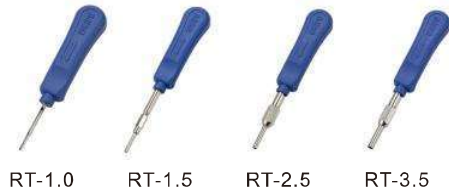


Part number	Crimping wire range
CTW-0.14/4	0.14-4mm ² AWG 26-12

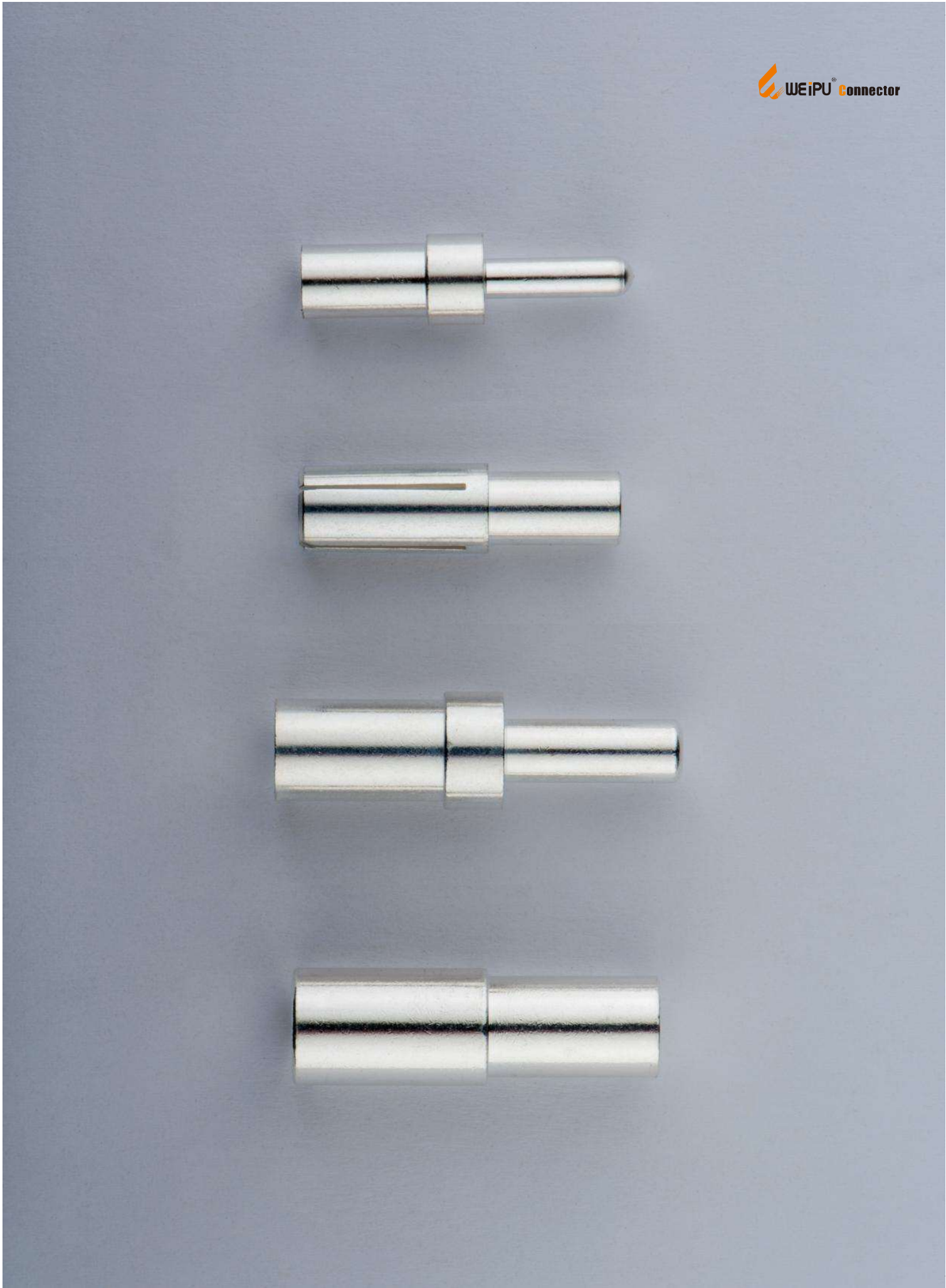
Part number	Crimping wire range
CT-4/10	4-10mm ² AWG 12-7

Removal tool

For taking out male / female contacts



Part number	Removal range
RT-1.0	5A Male / Female crimp contact
RT-1.5	10A Male / Female crimp contact
RT-2.5	25A Male / Female crimp contact
RT-3.5	50A Male / Female crimp contact



Screw contact spec

SF20, SA20, WS20, WF20, WY20	2	3	4
Male contact face view			
Rated current (A)	10	10	10
Contact diameter(mm)	ø2.5X2	ø2.5X3	ø2.5X4
Rated voltage (AC.V)	500	500	500
Test voltage(AC.V) 1 min	1500	1500	1500
Contact resistance (mΩ)	1	1	1
Wire size (mm² / AWG)	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15

WK20, SP21, SY21, WP20	2	3	4	5
Male contact face view				
Rated current (A)	10	10	10	10
Contact diameter(mm)	ø3X2	ø3X3	ø3X4	ø3X5
Rated voltage (AC.V)	500	500	500	500
Test voltage(AC.V) 1 min	1500	1500	1500	1500
Contact resistance (mΩ)	1	1	1	1
Wire size (mm² / AWG)	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15

WK24, WS24, WF24, WY24 SA24, SF24, SP25, SY25	2	3	4
Male contact face view			
Rated current (A)	10	10	10
Contact diameter(mm)	ø2.5X2	ø2.5X3	ø2.5X4
Rated voltage (AC.V)	500	500	500
Test voltage(AC.V) 1 min	1500	1500	1500
Contact resistance (mΩ)	1	1	1
Wire size (mm² / AWG)	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15

SA28, SP29, SY29 WK28, WS28, WF28, WY28	2	3	4	7	8	10
Male contact face view						
Rated current (A)	32	32	10	10	10	10
Contact diameter(mm)	ø3.5X2	ø3.5X3	ø2.5X4	ø2.5X7	ø2.5X8	ø2.5X10
Rated voltage (AC.V)	500	500	500	500	500	500
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500
Contact resistance (mΩ)	0.5	0.5	1	1	1	1
Wire size (mm² / AWG)	Min: 0.5/20 Max: 6/10	Min: 0.5/20 Max: 6/10	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15

Screw contact spec

WS32, WF32, WY32	4	10B	11	12
Male contact face view				
Rated current (A)	32	10	10	10
Contact diameter(mm)	ø3.5X4	ø2.5X10	ø2.5X11	ø2.5X12
Rated voltage (AC.V)	500V	500V	500V	500V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1500V
Contact resistance (mΩ)	0.5	1	1	1
Insulation resistance (MΩ)	2000	2000	2000	2000
Wire size (mm² / AWG)	Min: 0.5/20 Max: 6/10	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15

WS40, WF40, WY40	5	9
Male contact face view		
Rated current (A)	32	10 32
Contact diameter(mm)	ø3.5X5	ø2.5X5 ø3.5X4
Rated voltage (AC.V)	500	500
Test voltage(AC.V) 1 min	1500	1500
Contact resistance (mΩ)	0.5	1 0.5
Insulation resistance (MΩ)	2000	2000
Wire size (mm² / AWG)	Min: 0.5/20 Max: 6/10	Min: 0.5/20 Max: 1.5/15

WS48, WF48, WY48	7	20
Male contact face view		
Rated current (A)	32	10
Contact diameter(mm)	ø3.5X7	ø2.5X20
Rated voltage (AC.V)	500	500
Test voltage(AC.V) 1 min	1500	1500
Contact resistance (mΩ)	0.5	1
Insulation resistance (MΩ)	2000	2000
Wire size (mm² / AWG)	Min: 0.5/20 Max: 6/10	Min: 0.5/20 Max: 1.5/15

Angled Screw contact spec

WK20,SF20, SA20, WS20, WF20, WY20,SP21,SY21	2		3	
Male contact face view				
Rated current (A)	30		30	
Contact diameter(mm)	Ø3X2		Ø3X3	
Rated voltage (AC.V)	WK20, S F20, SA20 WS20, WF20, WY20	SP21,SY21	WK20, S F20, S A20 WS20, WF20, WY20	SP21,SY21
	500	800	500	800
Test voltage(AC.V) 1 min	1500	2800	1500	2800
Contact resistance (mΩ)	1		1	
Wire size (mm² / AWG)	Min: 0.75/18 Max: 4/12		Min: 0.75/18 Max: 4/12	

WK24,SF24, SA24, WS24, WF24, WY24,SP25,SY25	4	
Male contact face view		
Rated current (A)	30	
Contact diameter(mm)	Ø3X4	
Rated voltage (AC.V)	WK24, S F24, SA24 WS24, WF24, WY24	SP25,SY25
	500	800
Test voltage(AC.V) 1 min	1500	2800
Contact resistance (mΩ)	1	
Wire size (mm² / AWG)	Min: 0.75/18 Max: 4/12	

WK28,SF28, SA28, WS28, WF28, WY28,SP29,SY29	2		3		4		5	
Male contact face view								
Rated current (A)	50		50		40		30	
Contact diameter(mm)	Ø4X2		Ø4X3		Ø3.5X4		Ø3X5	
Rated voltage (AC.V)	WK28, S F28 SA28, WS28 WF28, WY28	SP29 SY29	WK28, S F28 SA28, WS28 WF28, WY28	SP29 SY29	WK28, S F28 SA28, WS28 WF28, WY28	SP29 SY29	WK28, S F28 SA28, WS28 WF28, WY28	SP29 SY29
	500	800	500	800	500	800	500	800
Test voltage(AC.V) 1 min	1500	2800	1500	2800	1500	2800	1500	2800
Contact resistance (mΩ)	0.5		0.5		0.5		1	
Wire size (mm² / AWG)	Min: 4/11 Max: 10/8		Min: 4/11 Max: 10/8		Min: 2.5/13 Max: 6/10		Min: 0.75/18 Max: 4/12	

1. WS/WF/WY series → **only for models** Z, ZG, ZM, ZMQ, TK, ZK, ZKB, ZKF.
2. WK series → **only for models** Z, ZMQ, ZM, ZE, ZEP, TE, TEP.

Solder connect to crimp

SF16,SA16, SP17, SY17 WS16, WF16, WY16	2		3	
Male contact face view				
Rated current (A)	10		10	
Contact diameter(mm)	Ø1.5X2		Ø1.5X3	
Rated voltage (AC.V)	500		500	
Test voltage(AC.V) 1 min	1500		1500	
Contact resistance(mΩ)	2.5		2.5	
Insulation resistance (MΩ)	2000		2000	

SF20, SA20, WS20, WF20, WY20	2	3	4	5	7
Male contact face view					
Rated current (A)	25	25	25	10	10
Contact diameter(mm)	Ø2.5X2	Ø2.5X3	Ø2.5X4	Ø1.5X5	Ø1.5X7
Rated voltage (AC.V)	500	500	500	500	500
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500
Contact resistance(mΩ)	1	1	1	2.5	2.5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000

SA28, WS28, WF28, WY28 SP29,SY29	2		3		7	
Male contact face view						
Rated current (A)	50		50		25	
Contact diameter(mm)	Ø3.5X2		Ø3.5X3		Ø2.5X7	
Rated voltage (AC.V)	500		500		500	
Test voltage(AC.V) 1 min	1500		1500		1500	
Contact resistance(mΩ)	0.5		0.5		1	
Insulation resistance (MΩ)	2000		2000		2000	

WS32, WF32, WY32	4		19	
Male contact face view				
Rated current (A)	50		10	
Contact diameter(mm)	Ø3.5X4		Ø1.5X19	
Rated voltage (AC.V)	500		500	
Test voltage(AC.V) 1 min	1500		1500	
Contact resistance(mΩ)	0.5		2.5	
Insulation resistance (MΩ)	2000		2000	

WS40, WF40, WY40	31	
Male contact face view		
Rated current (A)	10	
Contact diameter(mm)	Ø1.5X31	
Rated voltage (AC.V)	500	
Test voltage(AC.V) 1 min	1500	
Contact resistance(mΩ)	2.5	
Insulation resistance (MΩ)	2000	

Solder connect to crimp

WS48, WF48, WY48	42
Male contact face view	
Rated current (A)	10
Contact diameter(mm)	ø1.5X42
Rated voltage (AC.V)	500
Test voltage(AC.V) 1 min	1500
Contact resistance(mΩ)	2.5
Insulation resistance (MΩ)	2000

WS55, WF55, WY55	61
Male contact face view	
Rated current (A)	10
Contact diameter(mm)	ø1.5X61
Rated voltage (AC.V)	500
Test voltage(AC.V) 1 min	1500
Contact resistance(mΩ)	2.5
Insulation resistance (MΩ)	2000

Screw connect to crimp

SF20, SA20, WS20, WF20, WY20	2	3
Male contact face view		
Rated current (A)	10	10
Contact diameter(mm)	ø2.5X2	ø2.5X3
Rated voltage (AC.V)	500	500
Test voltage(AC.V) 1 min	1500	1500
Contact resistance(mΩ)	1	1
Insulation resistance (MΩ)	2000	2000

SA28, WS28, WF28, WY28	7
Male contact face view	
Rated current (A)	10
Contact diameter(mm)	ø2.5X7
Rated voltage (AC.V)	500
Test voltage(AC.V) 1 min	1500
Contact resistance(mΩ)	1
Insulation resistance (MΩ)	2000

WS32, WF32, WY32	4
Male contact face view	
Rated current (A)	32
Contact diameter(mm)	ø3.5X4
Rated voltage (AC.V)	500
Test voltage(AC.V) 1 min	1500
Contact resistance(mΩ)	0.5
Insulation resistance (MΩ)	2000