



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, Ø25 , Ø35 , Ø55 , Ø10 mm Screw: Ø2.5, Ø 3, Ø35
Mating cycle	500
Temperature range	-40°C ~+85°C

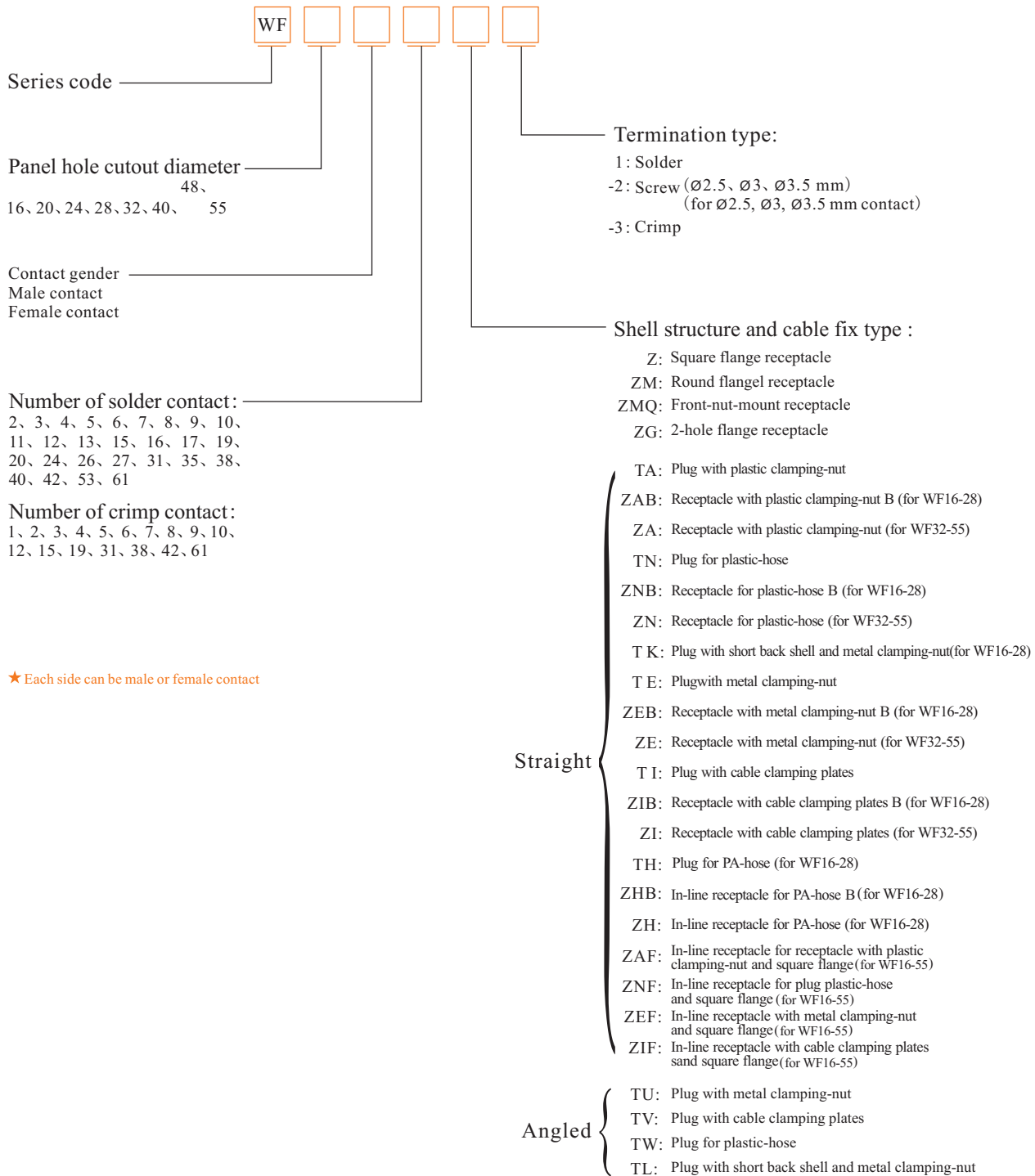
★ Solder contact spec see page P21 ★ Crimp contact spec see P22 ★ Screw contact spec see P23

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

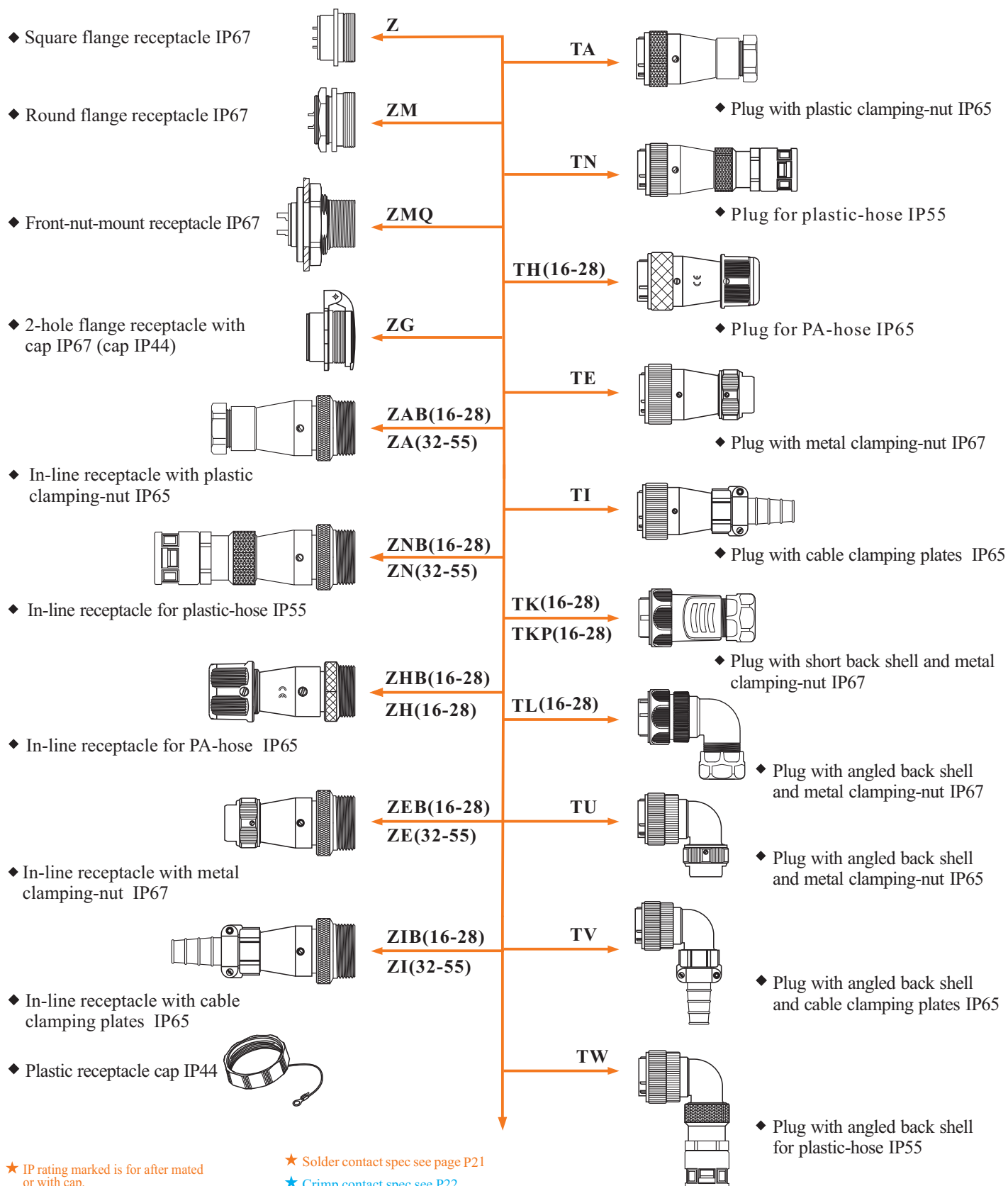
Number of contact	1~3	4~10	11~20	21~30	31~40	41~50	51~61
Rated current decrease rate (%)	0	10	20	30	40	50	60

WF Series

Part number system



WF Series Mating diagram (1)



★ IP rating marked is for after mated or with cap.

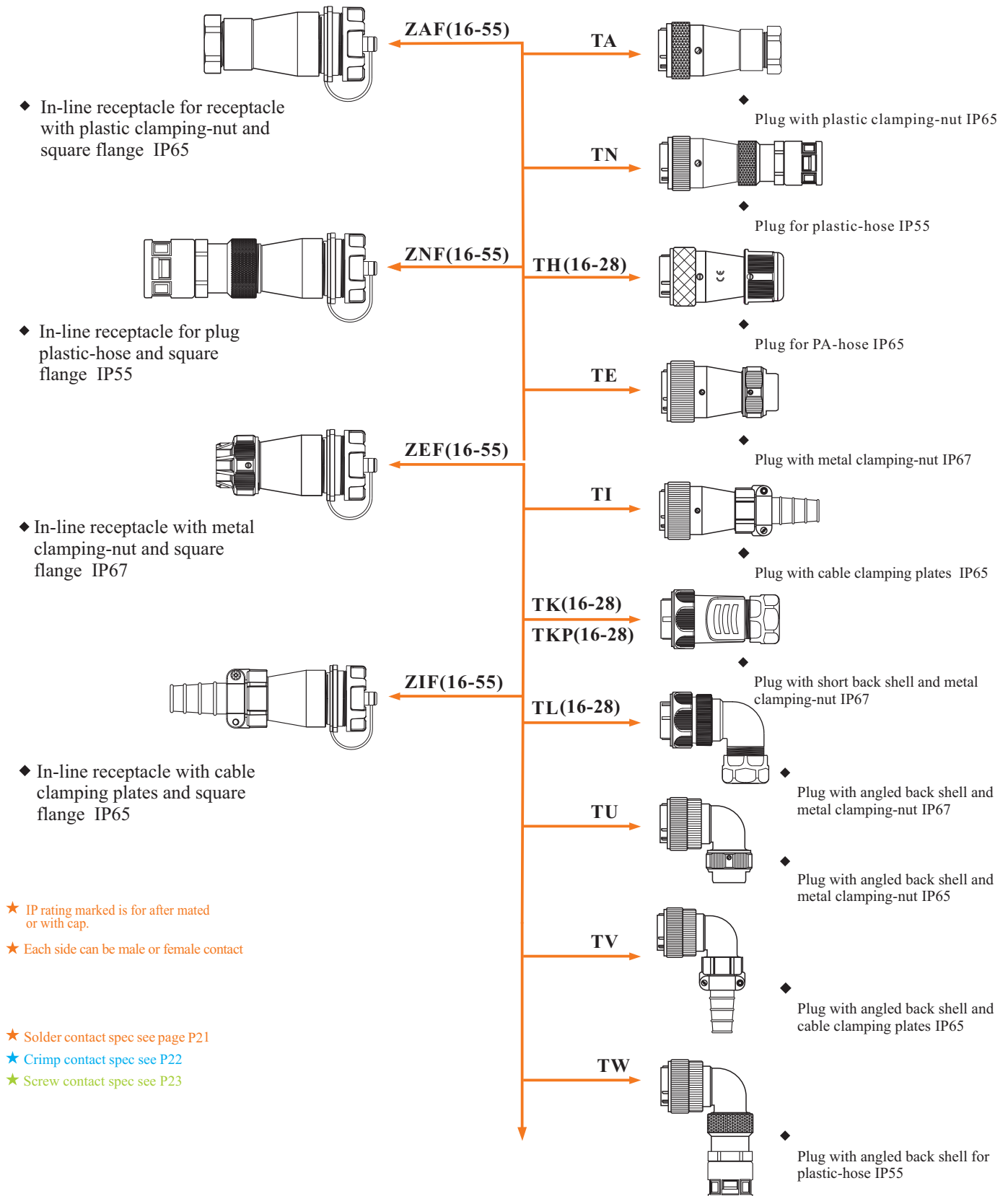
★ Each side can be male or female contact

★ Solder contact spec see page P21

★ Crimp contact spec see P22

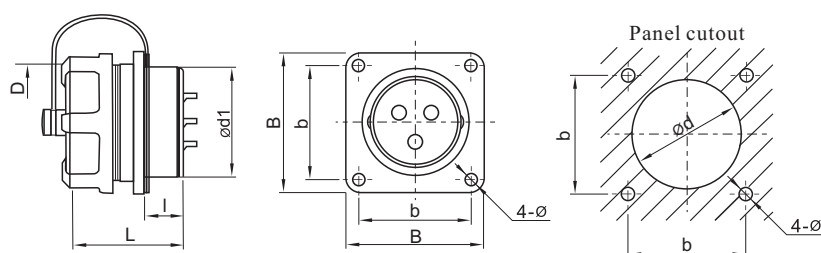
★ Screw contact spec see P23

WF Series Mating diagram (2)



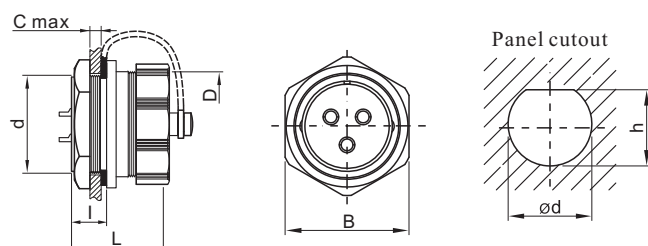


● Square flange receptacle: Z IP67



Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
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

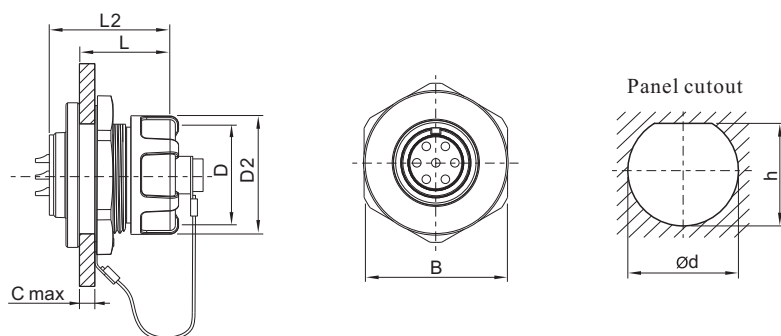
● Round flange receptacle: ZM IP67



Dimension(mm)	WF16	WF20	WF24	WF28
d	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	25.5	29.2	33.3
ød	15.9	19.7	23.7	27.7
h	15.3	19.3	23.2	26.9

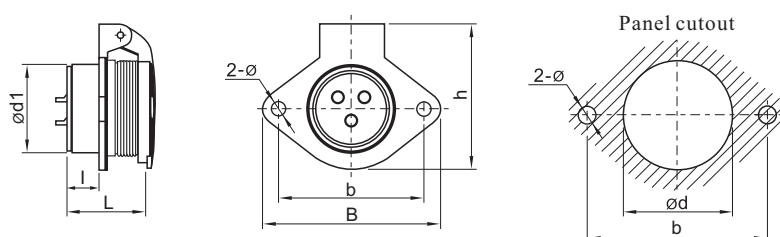


● Front-nut-mount panel receptacle: ZMQ IP67



Dimension(mm)	WF16	WF20	WF24	WF28
D	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

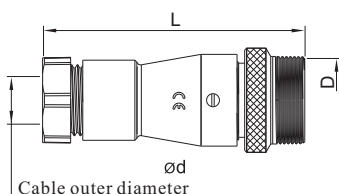
● 2-hole flange receptacle with cap: ZG IP67(cap IP44)



Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
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



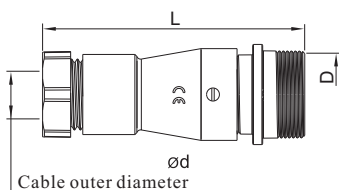
● In-line receptacle with plastic clamping-nut B: ZAB IP65



Dimension(mm)	WF16	WF20	WF24	WF28
D	M18X1	M22X1	M26X1	M30X1
L	53.5	65	68	73.5
ød	4.5-7	5-12	5-12	6.5-15.5

Optional cap size see P20

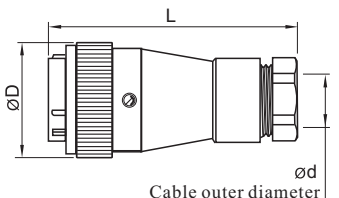
● In-line receptacle with plastic clamping-nut: ZA IP65



Dimension(mm)	WF32	WF40	WF48	WF55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	89	109	108.5	128
ød	8.5-19.5	11.5-24.5	11.5-24.5	15-31

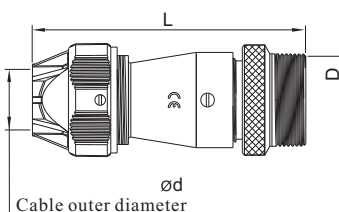
Optional cap size see P20

● Plug with plastic clamping-nut: TA IP65



Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
øD	22	26	30	34.5	39.5	49.5	57	64.5
L	53.5	64	67	73	89.5	100	108.5	127
ød	4.5-7	5-12	5-12	6.5-15.5	8.5-19.5	11.5-24.5	11.5-24.5	15-31

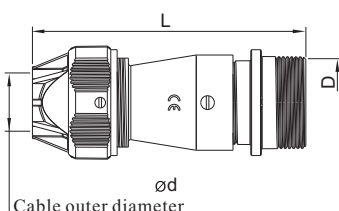
● In-line receptacle with metal clamping-nut B: ZEB IP67



Dimension(mm)	WF16	WF20	WF24	WF28
D	M18X1	M22X1	M26X1	M30X1
L	55	63	66.5	70
ød	5-6.5	9-10.5	9-10.5	10.5-12.5

Optional cap size see P20

● In-line receptacle with metal clamping-nut: ZE IP67

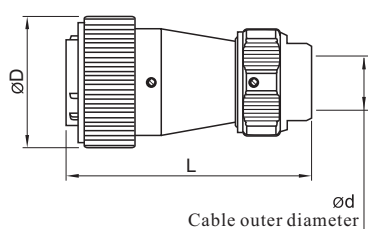


Dimension(mm)	WF32	WF40	WF48	WF55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	90.5	99.5	108	134.5
ød	15.5-17	18-20	I: 18-20 II: 24 526	24.5-26

Optional cap size see P20

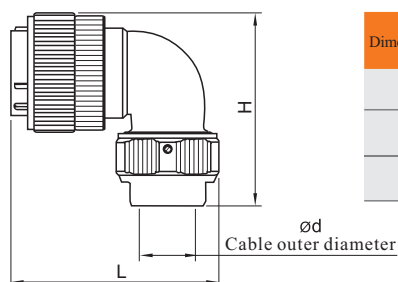


● Plug with metal clamping-nut: TE IP67



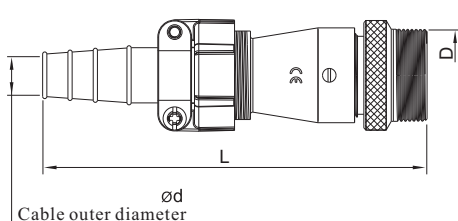
Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
øD	22	26.2	30	34.5	39.5	49.5	57	64.5
L	54.5	62.5	65	68	88	100	110	131.5
ød	5-6.5	9-10.5	9-10.5	10.5-12.5	15.5-17	18-20	I: 18-20 II: 24.5-26	24.5-26

● Plug with angled back shell and metal clamping-nut: TU IP65



Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
H	43	51	59	57	73.5	85	103	108
L	48	57	59	61	84	90	97	109
ød	5-6.5	9-10.5	9-10.5	10.5-12.5	15.5-17	18-20	24.5-26	24.5-26

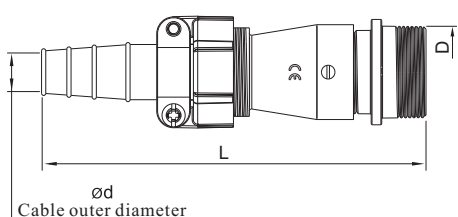
● In-line receptacle with cable clamping plates B: ZIB IP65



Dimension(mm)	WF16	WF20	WF24	WF28
D	M18X1	M22X1	M26X1	M30X1
L	73.5	90	93.5	104
ød	7-8	8-10.5	8-10.5	11.5-13.6

Optional cap size see P20

● In-line receptacle with cable clamping plates: ZI IP65

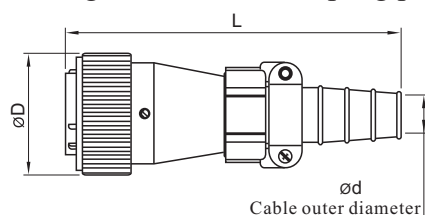


Dimension(mm)	WF32	WF40	WF48	WF55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	118.5	130	137	163
ød	13-15.6	15.5-18.8	I :15.5-18.8 II :24-28	24-28

Optional cap size see P20

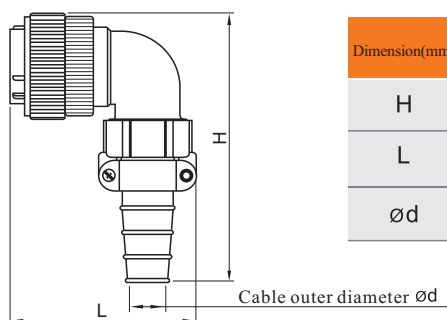


● Plug with cable clamping plates: TI IP65



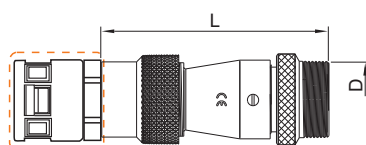
Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
ØD	22	26	30	34.5	39.5	49.5	57	64.5
L	72.5	87	92	100.5	118.5	130.5	140	163
Ød	7-8	8-10.5	8-10.5	11.5-13.6	13-15.6	15.5-18.8	I:15.5-18.8 II:24-28	24-28

● Plug with angled back shell and cable clamping plates: TV IP65



Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
H	60	80	80	88.5	96	115	127	140
L	49.5	56.5	58	61	82.5	90	98	108
Ød	7-8	8-10.5	8-10.5	11.5-13.6	13-15.6	15.5-18.8	24-28	24-28

● In-line receptacle for plastic-hose B: ZNB IP55

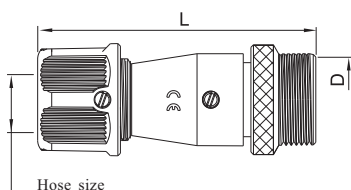


Optional plastic hose adapter

Dimension(mm)	WF16	WF20	WF24	WF28
D	M18X1	M22X1	M26X1	M30X1
L	54.5	64	67	73
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

Optional cap size see P20

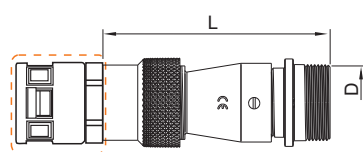
● In-line receptacle for PA-hose B: ZHB IP65



Dimension(mm)	WF16	WF20	WF24	WF28
D	M18X1	M22X1	M26X1	M30X1
L	52	62.5	66.5	70
Hose size	AD10	AD15.8	AD15.8	AD21.2



● In-line receptacle for plastic-hose: ZN IP55

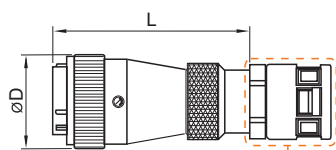


Optional plastic hose adapter

Dimension(mm)	WF32	WF40	WF48	WF55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	86.5	95	104	120
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

Optional cap size see P20

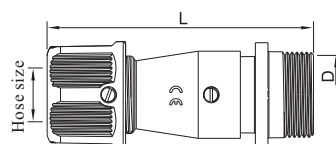
● Plug for plastic-hose: TN IP55



Optional plastic hose adapter

Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
ØD	22	26	30	34.5	39.5	49.5	57	64.5
L	54	62.5	66.5	72.5	87.5	95	105	118
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

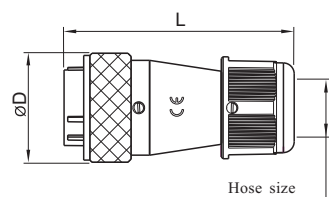
● In-line receptacle for PA-hose: ZH IP65



Dimension(mm)	WF16	WF20	WF24	WF28
D	M12X1	M22X1	M26X1	M30X1
L	54	62	66	70
Hose size	AD10	AD15.8	AD15.8	AD21.2

Optional cap size see P20

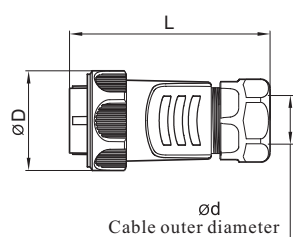
● Plug for PA-hose: TH IP65



Dimension(mm)	WF16	WF20	WF24	WF28
D	22	26.5	30	34.4
L	51	62.5	65.5	68.5
Hose size	AD10	AD15.8	AD15.8	AD21.2

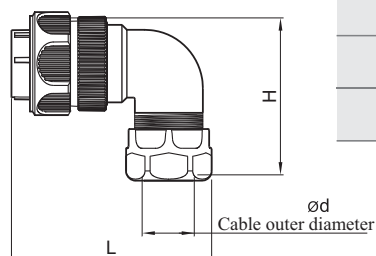


● Plug with short back shell and metal clamping-nut: TK TKP IP67



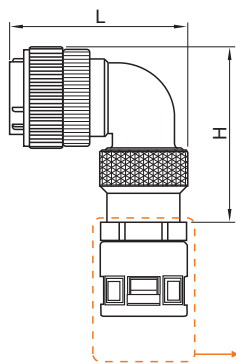
Dimension(mm)	WF16	WF20	WF24	WF28
ØD	21.8	27.7	31.9	36.6
L	50	60	64	70
ød	5-8	10-14	10-14	10-16

● Plug with angled back shell and metal clamping-nut: TL IP67



Dimension(mm)	WF16	WF20	WF24	WF28
H	38	47	53	57
L	47	56	62	65
ød	5-8	10-14	10-14	10-16

● Plug with angled back shell for plastic-hose: TW IP55

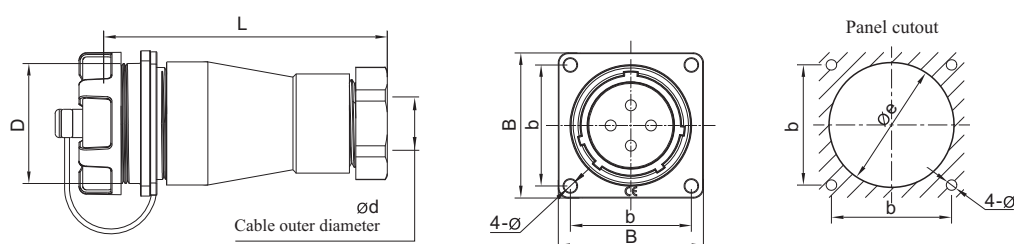


Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
H	42	53.5	54.5	60	67	80	89.5	95
L	47	56.5	57.5	61	82	88.5	95	106
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	PG29	PG36
model of plastic hose adapter	WQG-PG7(B)	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)	WQG-PG21(B)	WQG-PG29(B)	WQG-PG29(B)	WQG-PG36(B)
Hose size	AD10	AD15.8	AD15.8	AD21.2	AD28.5	AD34.5	AD34.5	AD42.5

Optional plastic hose adapter

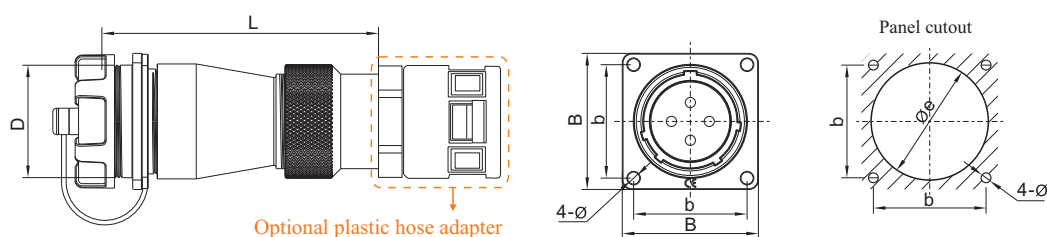


● In-line receptacle for receptacle with plastic clamping-nut and square flange: ZAF IP65



Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	53.5	65	68	73.5	89	109	108.5	128
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
ød	4.5-7	5-12	5-12	6.5-15.5	8.5-19.5	11.5-24.5	11.5-24.5	15-31
ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

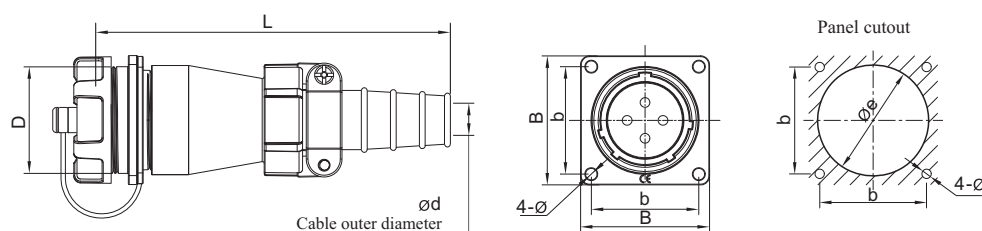
● In-line receptacle for plug plastic-hose and square flange: ZNF IP55



Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	54.5	64	67	73	86.5	95	104	120
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)	WQG-PG29(B) 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

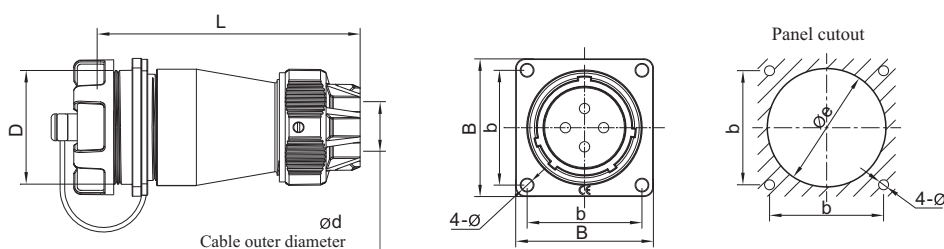


● In-line receptacle with cable clamping plates and square flange: ZIF IP65



Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	73.5	90	93.5	104	118.5	130	137	163
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
Ød	7-8	8-10.5	8-10.5	11.5-13.6	13-15.6	15.5-18.8	I:15.8-18.8 II:24-28	24-28
Ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

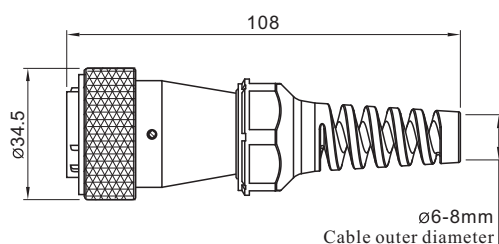
● In-line receptacle with metal clamping-nut and square flange: ZEF IP67



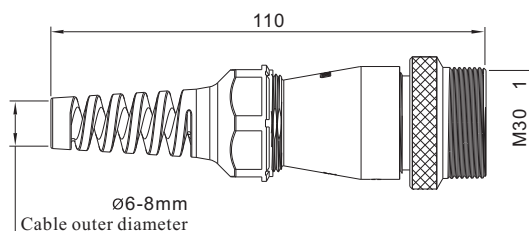
Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	55	63	66.5	70	90.5	99.5	108.5	134.5
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
Ød	I:3.5-5 II:5-6.5	9-10.5	9-10.5	10.5-12.5	I:13.5-15.5 II:15.5-17	I:15.5-17 II:18-20	I:18-20 II:24.5-26 III:22.5-24.5	I:22.5-24.5 II:24.5-26
Ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5



● Plug with strain relief: TX IP67



● In-line receptacle with anti-bending sleeve B: ZXB IP67



★ It can be produced 28 models, other models are customizable

★ Crimp contact spec see P22

★ Screw contact spec see P23

Solder contact spec

WF28	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
Termination	solder / screw	solder / screw	solder / screw	solder / screw	solder / screw	solder	solder	solder / screw	solder	solder	solder	solder	solder	solder	solder	solder
Wire size (mm ² /AWG)	≤10 / 7	≤10 / 7	≤4 / 12	≤4 / 12	≤4 / 12	≤16 / 5 ≤0.75 / 18	≤4 / 12 ≤0.75 / 18	≤4 / 2	≤1.5 / 16	≤1.5 / 16	≤1.5 / 16	≤1.5 / 16	≤0.75 / 18	≤0.75 / 18	≤0.75 / 18	≤0.75 / 18
(mm ² /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	/	/	/	/	/	/	/	/
Wire size for screw termination																