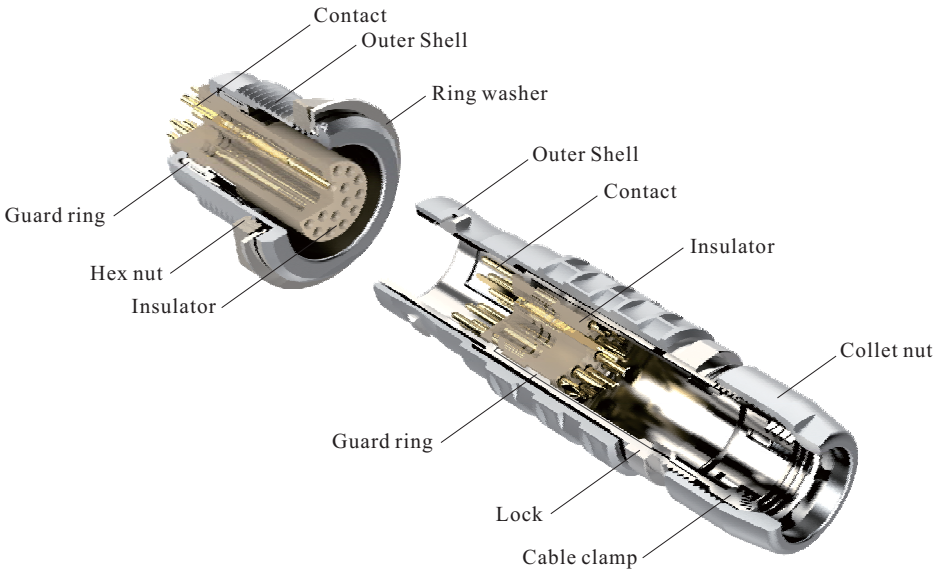
Standard of the Push-Pull self-latching system
— keying system

B Series

IP50

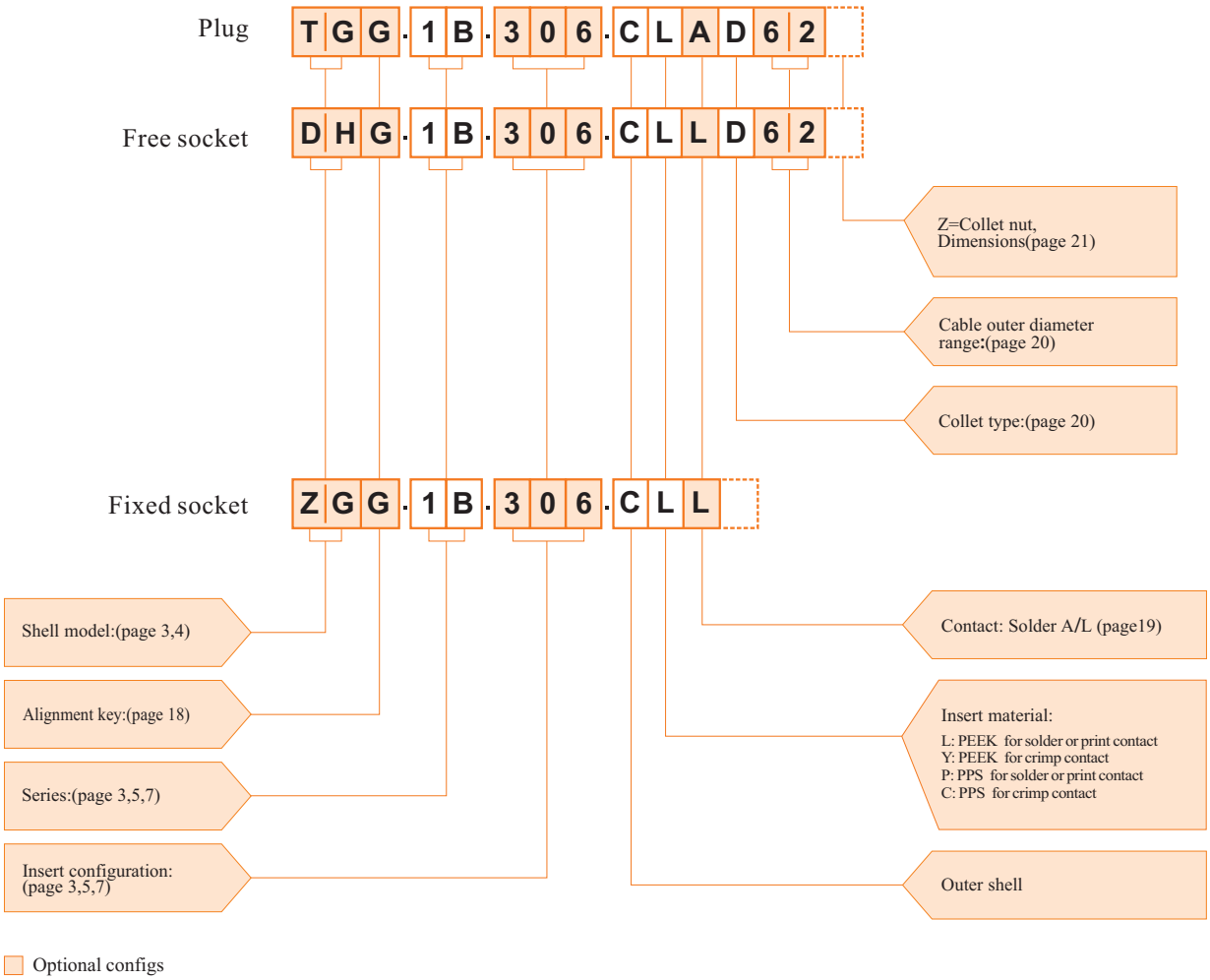
Part Section Showing Internal Components



Material and spec

Specifications	B Series connector	
Coupling	Push-pull self-latching connector	
Shell	Outer shell in chrome-plated brass	
Insert material	PEEK	PPS
Contact material	Brass with gold plating	
IP rating	IP50 (mated)	
Mating cycle	＞5000	
Temperature range	-55℃~+250℃	-55℃~+250℃
Insulation impedance	⩾100MΩ	
Shielding efficiency	at10MHz＞75dB/at 1GHz＞40dB	
Salt spray test	＞144 hrs	＞48 hrs

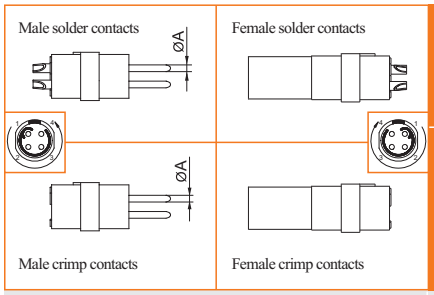
Part Numbering System

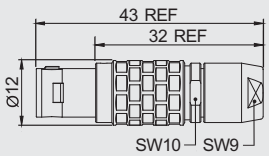


TGG.1B.306.CLAD62 = straight plug with key (G) and cable collet, 1B series, multipole type with 6 contacts, outer shell in chrome-plated brass, PEEK insulator, male solder contacts, D type collet for 5.3mm-6.2mm diameter cable.
ZGG.1B.306.CLL = fixed socket, nut fixing, with key (G), 1B series, multipole type with 6 contacts, outer shell in chrome-plated brass, PEEK extended insulator, female crimp contacts.

		1	B				C	L					

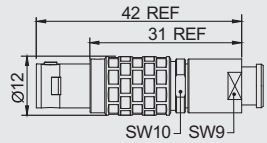
1B Series Insert configuration





TGG

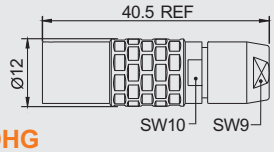
Straight plug, key(G), cable collet



TGG

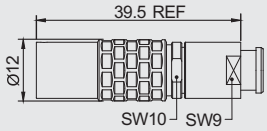
Straight plug, key(G), cable collet and nut for fitting a bend relief

Note: The bend relief must be ordered separately(page 21)



DHG

Free socket, key(G), cable collet



DHG

Free socket, key(G), cable collet and nut for fitting a bend relief

Note: The bend relief must be ordered separately(page 21)

Insert configuration		Reference	Contact		Contact type				Test voltage (kV rms)				Rated current (A)
									Solder		Crimp		
Plug	Fixed socket		Number of contact	Cable (mm)	Solder	Crimp	Print	Print (elbow)	Contact ↕ Contact	Contact ↕ Housing	Contact ↕ Contact	Contact ↕ Housing	
		302	2	1.3	●	●	●	●	1.50	1.35	1.70	1.45	15.0
		303	3	1.3	●	●	●	●	1.30	1.15	1.60	1.85	12.0
		304	4	0.9	●	●	●	●	1.35	1.45	1.70	1.80	10.0
		305	5	0.9	●	●	●	●	1.25	1.15	1.30	1.55	9.0
		306	6	0.7	●	●	●	●	1.05	1.20	1.35	1.45	7.0
		307	7	0.7	●	●	●	●	0.95	1.05	1.45	1.45	7.0
		308	8	0.7	●	●	●	●	0.95	1.15	1.30	1.30	5.0
		310	10	0.5	●	●[1]	●	●	0.90	1.50	1.20	1.80	2.5
		314	14	0.5	●	●[1]	●	●	0.80	0.95	0.95	1.60	2.0
		316	16	0.5	●	●[1]	●	●	0.80	1.25	0.95	1.60	1.5

● Regular model, preferred

● In development

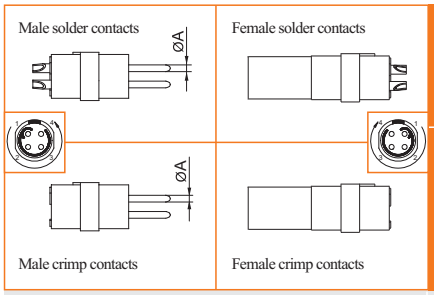
[1] for male contacts

Calculation Standard: Working Voltage = Test Voltage / 3

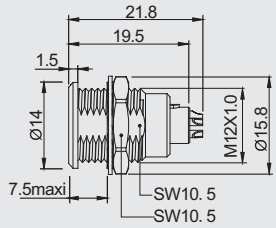
Note: The maximum admissible operating voltage depends upon the national or international standards in force for the application in question. Air and creepage distances impact the operating voltage.

		1	B				C	L				

1B Series Insert configuration

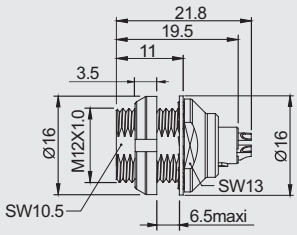


Insert configuration		Reference	Contact		Contact type				Test voltage (kV rms)				Rated current (A)
									Solder		Crimp		
Plug	Fixed socket		Number of contact	Cable (mm)	Solder	Crimp	Print	Print (elbow)	Contact ⇕ Contact	Contact ⇕ Housing	Contact ⇕ Contact	Contact ⇕ Housing	
		302	2	1.3	●	●	●	●	1.50	1.35	1.70	1.45	15.0
		303	3	1.3	●	●	●	●	1.30	1.15	1.60	1.85	12.0
		304	4	0.9	●	●	●	●	1.35	1.45	1.70	1.80	10.0
		305	5	0.9	●	●	●	●	1.25	1.15	1.30	1.55	9.0
		306	6	0.7	●	●	●	●	1.05	1.20	1.35	1.45	7.0
		307	7	0.7	●	●	●	●	0.95	1.05	1.45	1.45	7.0
		308	8	0.7	●	●	●	●	0.95	1.15	1.30	1.30	5.0
		310	10	0.5	●	●[1]	●	●	0.90	1.50	1.20	1.80	2.5
		314	14	0.5	●	●[1]	●	●	0.80	0.95	0.95	1.60	2.0
		316	16	0.5	●	●[1]	●	●	0.80	1.25	0.95	1.60	1.5



ZGG

Fixed socket, nut fixing, key(G)



ZEG

Fixed socket, nut fixing, key(G)

Note: Panel cut-out,nut fixing torque,(page21)

● Regular model, preferred

● In development

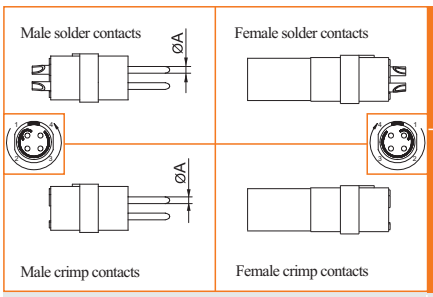
[1] for male contacts

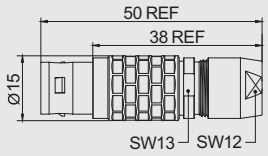
Calculation Standard: Working Voltage = Test Voltage / 3

Note: The maximum admissible operating voltage depends upon the national or international standards in force for the application in question. Air and creepage distances impact the operating voltage.

		2	B				C	L					

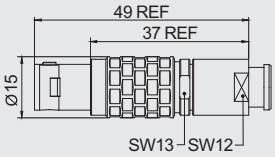
2B Series Insert configuration





TGG

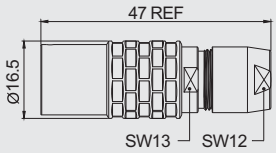
Straight plug, key(G), cable collet



TGG

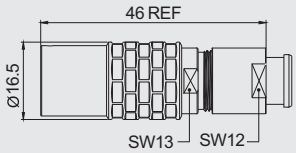
Straight plug, key(G), cable collet and nut for fitting a bend relief

Note: The bend relief must be ordered separately(page 21)



DHG

Free socket, key(G), cable collet



DHG

Free socket, key(G), cable collet and nut for fitting a bend relief

Note: The bend relief must be ordered separately(page 21)

Insert configuration		Reference	Contact		Contact type				Test voltage (kV rms)				Rated current (A)
									Solder		Crimp		
Plug	Fixed socket		Number of contact	Cable (mm)	Solder	Crimp	Print	Print (elbow)	Contact ↕ Contact	Contact ↕ Housing	Contact ↕ Contact	Contact ↕ Housing	
		302	2	2.0	●	●	●	●	2.10	1.75	2.85	2.70	25.0
		303	3	1.6	●	●	●	●	2.40	1.85	1.90	1.90	17.0
		304	4	1.3	●	●	●	●	1.85	1.85	2.20	2.20	15.0
		305	5	1.3	●	●	●	●	1.75	1.60	2.15	2.15	14.0
		306	6	1.3	●	●	●	●	1.35	1.45	2.00	2.35	12.0
		307	7	1.3	●	●	●	●	1.75	1.25	1.95	2.15	11.0
		308	8	0.9	●	●	●	●	1.50	1.25	1.95	1.95	10.0
		310	10	0.9	●	●	●	●	1.45	1.30	1.80	2.10	8.0
		312	12	0.7	●	●	●	●	1.25	1.35	1.65	2.00	7.0
		314	14	0.7	●	●	●	●	1.15	1.35	1.55	1.95	6.5
		316	16	0.7	●	●	●	●	0.95	1.25	1.55	1.75	6.0
		318	18	0.7	●	●	●	●	0.85	1.20	1.45	2.10	5.5
		319	19	0.7	●	●	●	●	0.95	1.25	1.55	1.65	5.0
		326	26	0.5	●	●	●	●	0.95	1.30	/	/	2.0
		332	32	0.5	●	●	●	●	0.70	1.20	/	/	1.5

● Regular model, preferred

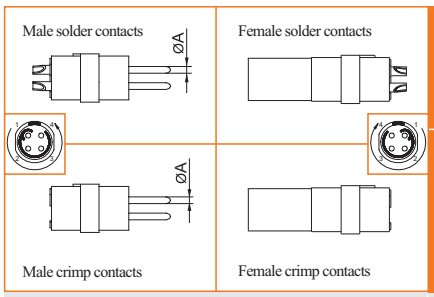
● In development

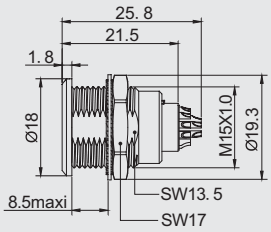
Calculation Standard: Working Voltage = Test Voltage / 3

Note: The maximum admissible operating voltage depends upon the national or international standards in force for the application in question. Air and creepage distances impact the operating voltage.

		2	B				C	L					

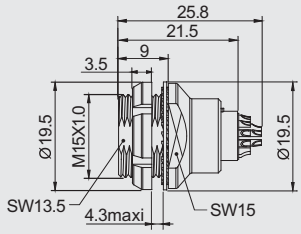
2B Series Insert configuration





ZGG

Fixed socket, nut fixing, key(G)



ZEG

Fixed socket, nut fixing, key(G)

Note: Panel cut-out,nut fixing torque,(page21)

Insert configuration		Reference	Contact		Contact type				Test voltage (kV rms)				Rated current (A)
									Solder		Crimp		
Plug	Fixed socket		Number of contact	Cable (mm)	Solder	Crimp	Print	Print (elbow)	Contact ↕ Contact	Contact ↕ Housing	Contact ↕ Contact	Contact ↕ Housing	
		302	2	2.0	●	●	●	●	2.10	1.75	2.85	2.70	25.0
		303	3	1.6	●	●	●	●	2.40	1.85	1.90	1.90	17.0
		304	4	1.3	●	●	●	●	1.85	1.85	2.20	2.20	15.0
		305	5	1.3	●	●	●	●	1.75	1.60	2.15	2.15	14.0
		306	6	1.3	●	●	●	●	1.35	1.45	2.00	2.35	12.0
		307	7	1.3	●	●	●	●	1.75	1.25	1.95	2.15	11.0
		308	8	0.9	●	●	●	●	1.50	1.25	1.95	1.95	10.0
		310	10	0.9	●	●	●	●	1.45	1.30	1.80	2.10	8.0
		312	12	0.7	●	●	●	●	1.25	1.35	1.65	2.00	7.0
		314	14	0.7	●	●	●	●	1.15	1.35	1.55	1.95	6.5
		316	16	0.7	●	●	●	●	0.95	1.25	1.55	1.75	6.0
		318	18	0.7	●	●	●	●	0.85	1.20	1.45	2.10	5.5
		319	19	0.7	●	●	●	●	0.95	1.25	1.55	1.65	5.0
		326	26	0.5	●	●	●	●	0.95	1.30	/	/	2.0
		332	32	0.5	●	●	●	●	0.70	1.20	/	/	1.5

● Regular model, preferred

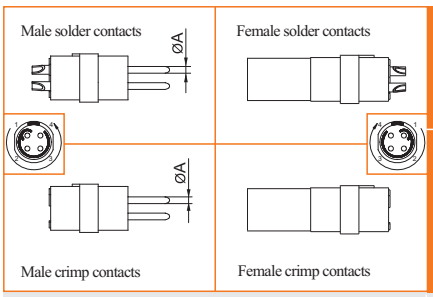
● In development

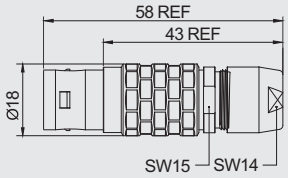
Calculation Standard: Working Voltage = Test Voltage / 3

Note: The maximum admissible operating voltage depends upon the national or international standards in force for the application in question. Air and creepage distances impact the operating voltage.

		3	B				C	L					

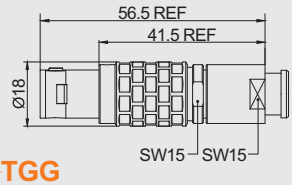
3B Series Insert configuration





TGG

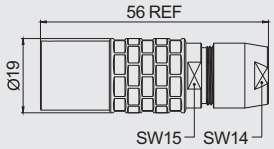
Straight plug, key(G), cable collet



TGG

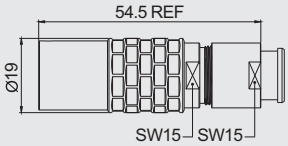
Straight plug, key(G), cable collet and nut for fitting a bend relief

Note: The bend relief must be ordered separately(page 21)



DHG

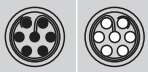
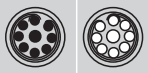
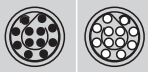
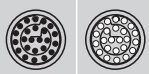
Free socket, key(G), cable collet



DHG

Free socket, key(G), cable collet and nut for fitting a bend relief

Note: The bend relief must be ordered separately(page 21)

Insert configuration		Reference	Contact		Contact type				Test voltage (kV rms)				Rated current (A)
									Solder		Crimp		
Plug	Fixed socket		Number of contact	Cable (mm)	Solder	Crimp	Print	Print (elbow)	Contact ↕ Contact	Contact ↕ Housing	Contact ↕ Contact	Contact ↕ Housing	
		302	2	3.0	●	●	●	●	2.10	1.55	2.30	1.80	35.0
		303	3	2.0	●	●	●	●	1.90	1.50	3.20	2.65	25.0
		304	4	2.0	●	●	●	●	1.45	1.25	2.50	2.20	19.0
		305	5	1.6	●	●	●	●	1.90	1.25	2.40	1.75	19.0
		306	6	1.6	●	●	●	●	1.60	1.15	1.90	1.80	17.0
		307	7	1.6	●	●	●	●	1.70	1.25	2.00	2.05	15.0
		308	8	1.3	●	●	●	●	1.65	1.15	1.85	1.75	13.0
		309	8 1	1.3 2.0	●	●	●	●	1.35 1.35	1.05 1.05	1.10 1.10	1.05 1.05	6.0 15.0
		310	10	1.3	●	●	●	●	1.25	0.90	1.50	1.80	12.0
		312	12	0.9	●	●	●	●	1.45	1.00	1.65	1.85	9.0
		314	14	0.9	●	●	●	●	1.20	1.20	1.80	1.65	9.0
		316	16	0.9	●	●	●	●	1.20	0.85	1.80	1.50	8.0
		318	18	0.9	●	●	●	●	1.20	1.05	1.85	1.60	7.0
		320	20	0.7	●	●	●	●	1.00	0.90	1.35	1.55	6.0
		322	22	0.7	●	●	●	●	1.00	0.90	1.70	1.45	5.5
		324	24	0.7	●	●	●	●	0.95	0.80	1.35	1.35	4.0
		326	26	0.7	●	●	●	●	0.95	0.70	1.50	1.30	4.0
		330	30	0.7	●	●	●	●	0.80	0.70	1.35	1.20	3.5

● Regular model, preferred

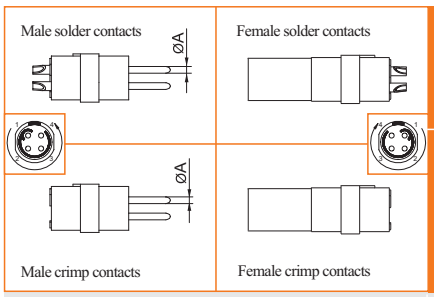
● In development

Calculation Standard: Working Voltage = Test Voltage / 3

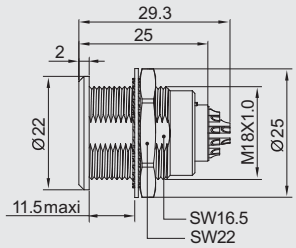
Note: The maximum admissible operating voltage depends upon the national or international standards in force for the application in question. Air and creepage distances impact the operating voltage.

		3	B				C	L					

3B Series Insert configuration

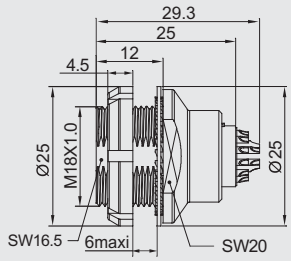


Insert configuration		Reference	Contact		Contact type				Test voltage (kV rms)				Rated current (A)
									Solder		Crimp		
Plug	Fixed socket		Number of contact	Cable (mm)	Solder	Crimp	Print	Print (elbow)	Contact ↕ Contact	Contact ↕ Housing	Contact ↕ Contact	Contact ↕ Housing	
		302	2	3.0	●	●	●	●	2.10	1.55	2.30	1.80	35.0
		303	3	2.0	●	●	●	●	1.90	1.50	3.20	2.65	25.0
		304	4	2.0	●	●	●	●	1.45	1.25	2.50	2.20	19.0
		305	5	1.6	●	●	●	●	1.90	1.25	2.40	1.75	19.0
		306	6	1.6	●	●	●	●	1.60	1.15	1.90	1.80	17.0
		307	7	1.6	●	●	●	●	1.70	1.25	2.00	2.05	15.0
		308	8	1.3	●	●	●	●	1.65	1.15	1.85	1.75	13.0
		309	8 1	1.3 2.0	●	●	●	●	1.35 1.35	1.05 1.05	1.10 1.10	1.05 1.05	6.0 15.0
		310	10	1.3	●	●	●	●	1.25	0.90	1.50	1.80	12.0
		312	12	0.9	●	●	●	●	1.45	1.00	1.65	1.85	9.0
		314	14	0.9	●	●	●	●	1.20	1.20	1.80	1.65	9.0
		316	16	0.9	●	●	●	●	1.20	0.85	1.80	1.50	8.0
		318	18	0.9	●	●	●	●	1.20	1.05	1.85	1.60	7.0
		320	20	0.7	●	●	●	●	1.00	0.90	1.35	1.55	6.0
		322	22	0.7	●	●	●	●	1.00	0.90	1.70	1.45	5.5
		324	24	0.7	●	●	●	●	0.95	0.80	1.35	1.35	4.0
		326	26	0.7	●	●	●	●	0.95	0.70	1.50	1.30	4.0
		330	30	0.7	●	●	●	●	0.80	0.70	1.35	1.20	3.5



ZGG

Fixed socket, nut fixing, key(G)



ZEG

Fixed socket, nut fixing, key(G)

Note: Panel cut-out,nut fixing torque,(page21)

● Regular model, preferred

● In development

Calculation Standard: Working Voltage = Test Voltage / 3

Note: The maximum admissible operating voltage depends upon the national or international standards in force for the application in question. Air and creepage distances impact the operating voltage.