

INTE AUTO

PRODUCT CATALOGUE

Unipole & Multipole Connectors



1. INTE-AUTO Company Introduction



INTE-AUTO, registered in 2013, is a company based in Shenzhen China engaged in the design, research, and manufacture of precision push pull connectors, waterproof connectors, coaxial connectors, D-tap connectors, watertight aviation connector, custom cable assemblies and over molded cable assembly.

Our mission goes beyond supplying connectors. The ultimate goal is to consistently provide top-notch, secure, cost-effective, durable products, one-stop shop connectors and customized service for our esteemed clients worldwide.

Our high-quality connectors feature the reliable push pull self-latching connection system and are designed to endure the most extreme environments. These connectors are widely used in a large variety of applications such as for medical, testing, measurement, military, sensor, NDT, and other machines and equipment.

INTE-AUTO has over 10,000 products, all of which are manufactured under the strictest quality standards. Our connectors are fully compatible with the push pull connectors of other top brands, and commit to the Quality Management System.

Our facilities span over 5000 square meters, containing 23 production lines with 25 CNC working machines. Our mechanized work system improves efficiency, guarantees high quality, and controls production costs to comply with military and medical standards.

INTE-AUTO is RoHS, CE, ISO9001, and TUV certified. We are actively shaping the future of our company with creativity, imagination, and innovation to continually exceed the expectations of all our valued customers around the world.

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2. INT-B Series Push Pull Connectors

Plug: Straight Plug



INT13-TGG



INT13-TGG(Z)



INT13-TGG.00



INT13-TEG



INT13-TFG



INT13-TNG



INT13-TAG



INT13-TVB



INT13-THG



INT13-THG(Z)



INT13-TSG(Z)

Receptacle: Fixed Panel Mount Receptacle



INT13-ZGG



INT13-ZCG



INT13-ZEG



INT13-ZHG



INT13-MEG



INT13-MGG



INT13-ZNG



INT13-ZCG
(Elbow Contact)



INT13-ZEG
(Elbow contact)



INT13-MHG

Cable Mount Receptacle Elbow Receptacle



INT13-DHG



INT13-DHG(Z)



INT13-ZGP



INT13-ZXG



INT13-RKG



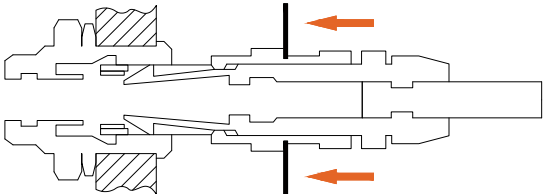
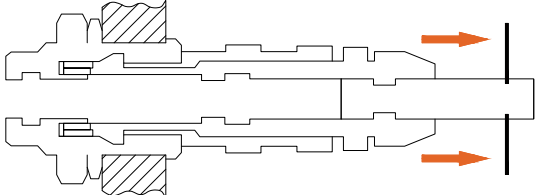
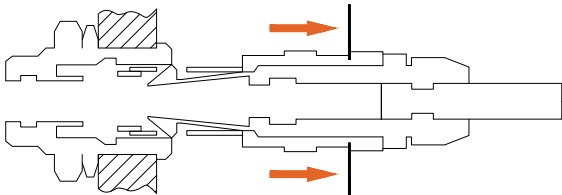
INT13-RFG

Fixed Receptacle

2. INT-B Series Push Pull Connectors

Push-Pull Self-Latching Connection System



Drawing	Specification
	Engaging The self-latching system allows the connector to be mated by simply pushing the plug into the receptacle.
	Latched Once firmly latched, the connection cannot be broken by pulling on the cable or any other component part other than the outer release sleeve.
	Disengaging When required, the connector is disengaged by a single axial pull on the outer release sleeve. This first disengage the latches and then withdraws the plug from the socket.

2. INT-B Series Push Pull Connectors

B Series Connectors with the Following Main Features

1. Secure push-pull self-latching system design
2. Multiple key options for aligned and blind mating
3. Keying system available (G, A, B, C, D, E, F, J, K, L.....)
4. 360° screening for full EMC shielding
5. Multipole types 2 to 48 contacts
6. Supply size 00B, 0B, 1B, 2B, 3B, 4B series
7. Solder contact, PCB contacts (straight or elbow)
8. Crimp contact can be customized
9. High-density configurations for blind mating even in tight spaces
10. Available customized cable assembly solution

Technical Characteristics

Mechanical and Climatical

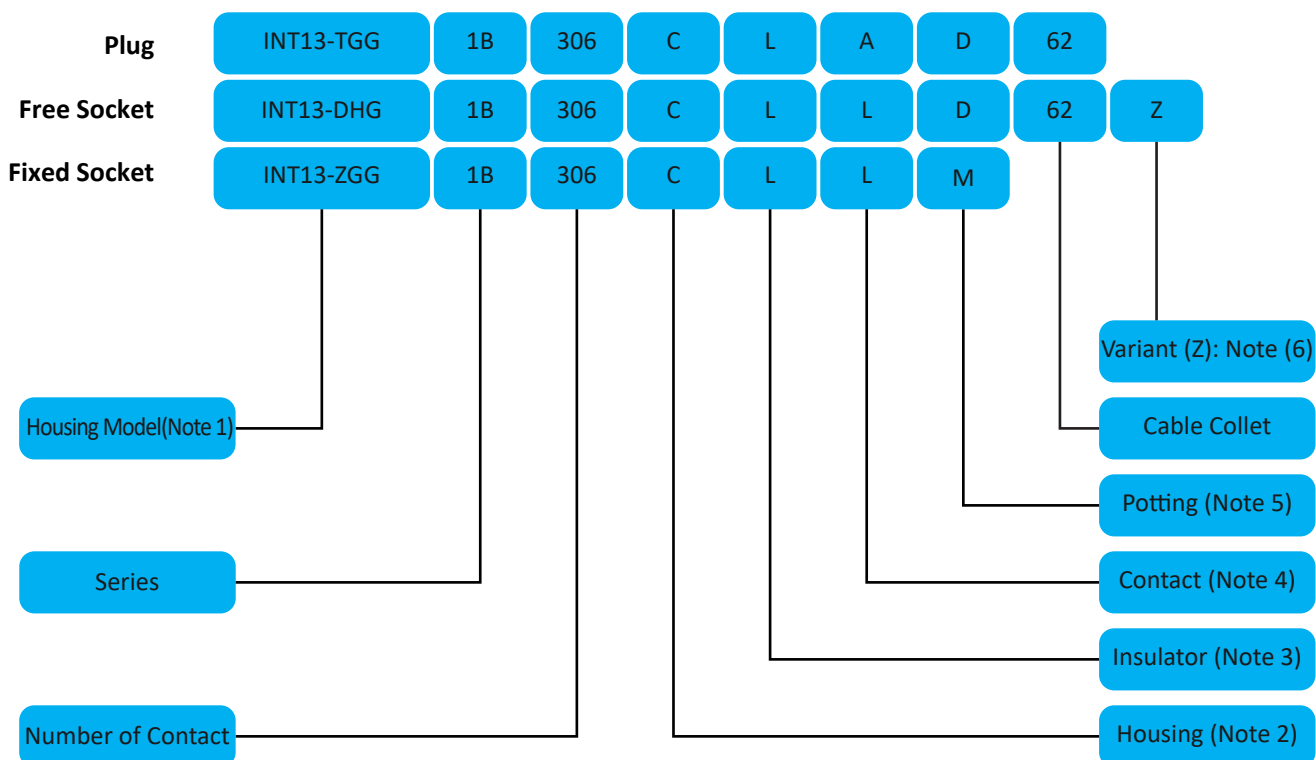
Characteristics	Value	Standard
Endurance	>5000 cycles	IEC 60512-5 test 9a
Humidity	Up to 95% at 60°C	
Temperature Range	-40°C, +150°C	
Resistance to Vibration	10-2000Hz, 15g	IEC 60512-4 test 6d
Shock Resistance	100g, 6ms	IEC 60512-4 test 6c
Salt Spray Corrosion Test	>96h	IEC 60512-6 test 11f
Protection Index (mated)	IP 50	IEC 60529

Electrical

Characteristics		Value	Standard
Shielding Efficiency	at 10 MHZ	>75 dB	IEC 60619-1-3
	at 1 GHZ	>40 dB	IEC 60619-1-3

2. INT-B Series Push Pull Connectors

Part Numbering System



*Note 1:

To place an order for a chocolate design, please use the identifier INT12

INT13-TGG.1B.306.CLAD62Z = 1B 6 pins straight plug, G key (alpha=0), pearl chrome plated brass housing, PPS insulator, male soldering contact type, 6.0 mm cable collet, nut for fitting bend relief

INT12-TGG.1B.306.CLAD62Z = 1B 6 pins straight plug, G key (alpha=0), pearl chrome plated brass housing, PPS insulator, male soldering contact type, 6.0 mm cable collet, nut for fitting bend relief, chocolate out shell design

*Note 2:

C=Brass plated chrome

K=Brass plated black chrome (At the end of the model number, adding 'R' indicates a red dot, while adding 'W' indicates a white dot.)

N=Brass plated nickel

T=Stainless Steel

L=Aluminum alloy anodized

H=ABS/Brass (only for ZPX/ZXG)

*Note 3:

L=PPS

T=PTFE

P=PEEK

2. INT-B Series Push Pull Connectors

*Note 4:

A=Male soldering contacts

L=Female soldering contacts

D=Male straight PCB contacts

N=Female straight PCB contacts

W=Male 90° PCB contacts

V=Female 90° PCB contacts

*Note 5:

W=White silicone sealing

T=Transparent epoxy resin seal

*Note 6:

To request a model that includes a nut for fitting the bend relief, designate the variant position with the letter "Z" and include the bend relief part numbers INT13-GMA.

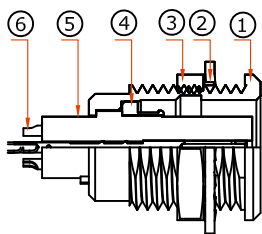
Bend relief color:

N=Black G=Gray A=Blue R=Red J=Yellow V=Green

Part Section Showing Internal Components

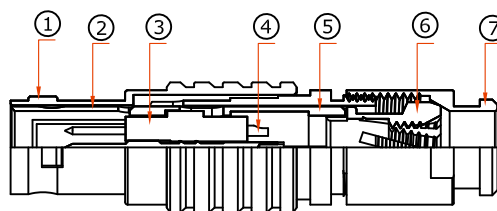
Fixed Receptacle

- ① Outer Shell
- ② Retaining Ring
- ③ Hexagonal Nut
- ④ Locking Washer
- ⑤ Insulator
- ⑥ Female Contact



Straight Plug

- ① Outer Shell
- ② Latch Sleeve
- ③ Insulator
- ④ Male Contact
- ⑤ Split Insert Carrier
- ⑥ Collet
- ⑦ Collet Nut

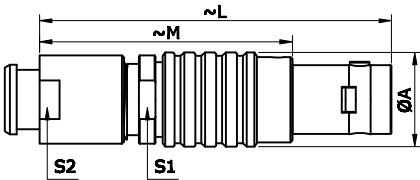


2. INT-B Series Push Pull Connectors

Product Size

INT13-TGG

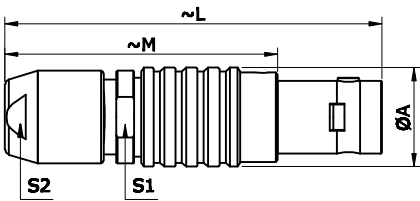
Cable mount straight plug, key (G) or keys (A...M), cable collet and nut for fitting a bend relief



Reference		Dimensions (mm)				
Model	Series	A	L	M	S1	S2
INT13-TGG	00	6.4	28.5	20	5.5	6.0
INT13-TGG	0B	9.5	35.0	25.0	8.0	8.0
INT13-TGG	1B	12.0	42.0	31.0	10.0	9.0
INT13-TGG	2B	15.0	49.0	37.0	13.0	12.0
INT13-TGG	3B	18.0	58.5	43.5	15.0	15.0

INT13-TGG

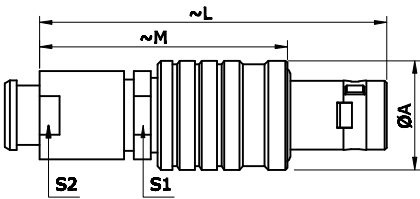
Cable mount straight plug, key (G) or keys (A...M), cable collet



Reference		Dimensions (mm)				
Model	Series	A	L	M	S1	S2
INT13-TGG	00	6.4	28.5	20.5	5.5	5.0
INT13-TGG	0B	9.5	36.0	26.0	8.0	7.0
INT13-TGG	1B	12.0	43.0	32.0	10.0	9.0
INT13-TGG	2B	15.0	50.0	38.0	13.0	12.0
INT13-TGG	3B	18.0	58.0	43.0	15.0	14.0

INT13-TEG

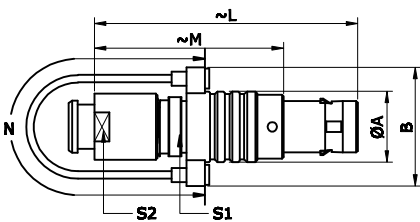
Cable mount straight plug, front sealed, key (G) or keys (A...M), cable collet and nut for fitting a bend relief



Reference		Dimensions (mm)				
Model	Series	A	L	M	S1	S2
INT13-TEG	0B	11.0	35.0	20.0	8.0	8.0
INT13-TEG	1B	13.5	42.0	33.0	10.0	9.0
INT13-TEG	2B	16.5	48.0	36.0	13.0	12.0
INT13-TEG	3B	19.0	56.0	41.5	15.0	15.0

INT13-TNG

Cable mount straight plug, key (G) or keys (A...M), cable collet and lanyard release

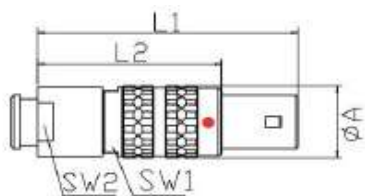


Reference		Dimensions (mm)						
Model	Series	A	B	L	M	N	S1	S2
INT13-TNG	0B	9.5	15.95	34.62	24.3	140	8.0	8.0
INT13-TNG	1B	12.0	18.0	43.0	32.0	140	10.0	9.0
INT13-TNG	2B	15.0	21.0	49.0	37.0	160	13.0	12.0
INT13-TNG	3B	18.0	25.0	58.0	43.0	190	15.0	14.0

2. INT-B Series Push Pull Connectors

INT13-TFG

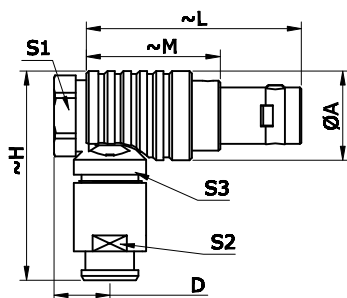
Non – latching Cable mount straight plug, key (G) or keys (A...M), cable collet and nut for fitting a bend relief



Project		Dimensions (mm)				
Series	Model	A	L1	L2	SW1	SW2
00B	TFG	8.2	27.5	19.5	5.5	5
0B	TFG	9.5	35	25	8	8
1B	TFG	12	43	32	10	9
2B	TFG	15	48	36	13	13
3B	TFG	18	57	42	16	15
4B	TFG	25	74	56	21.7	20

INT13-THG

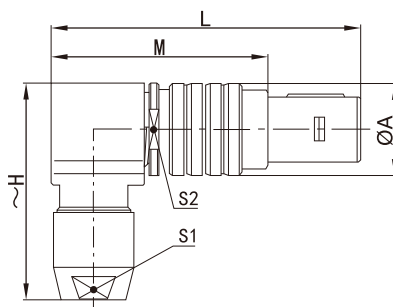
Cable mounted elbow plug, 90°, key (G) or keys (A...M), cable collet



Reference		Dimensions (mm)							
Model	Series	A	D	H	L	M	S1	S2	S3
INT13-THG	0B	11.0	6.5	23.5	26.5	16.5	10.0	7.0	8.0
INT13-THG	1B	13.5	8.0	30.5	36.0	25.0	11.0	9.0	10.0
INT13-THG	2B	16.5	9.0	40.0	37.7	25.6	14.0	12.0	13.0
INT13-THG	3B	19.0	10.0	37.0	50.0	35.0	17.0	14.0	14.0

INT13-TSG

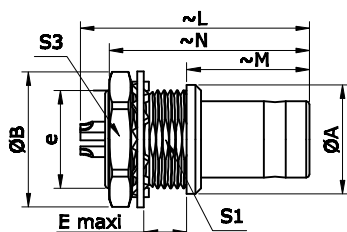
Adjustable right angle Anglissimo plug (8 selective positions) with cable collet, key (G) or keys(A...), standard nut or nut for fitting a bend relief



Model	Series	A	H	L	M	S1	S2
INT13-TSG	00B	8.0	18.1	24.8	16.8	5	7
INT13-TSG	0B	10.0	22.4	30.3	20.3	7	9
INT13-TSG	1B	12.0	26.4	36.5	25.5	9	11
INT13-TSG	2B	16.5	34.5	44.0	32.0	12	15

INT13-TAG

Panel mount fixed plug, non-latching, nut fixing, key (G) or keys (A...M)

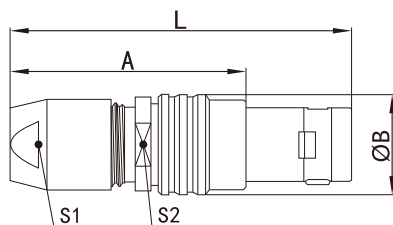


Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	N	S1	S3
INT13-TAG	0B	10.0	12.4	M9*0.6	4.2	20.8	11.5	18.9	8.2	11.0
INT13-TAG	1B	14.0	15.8	M12*1.0	5.4	25.2	12.5	21.6	10.5	14.0
INT13-TAG	2B	18.0	19.2	M15*1.0	6.0	28.7	13.8	23.9	13.5	17.0
INT13-TAG	3B	22.0	25.0	M18*1.0	5.8	32.1	17.0	30.2	16.5	22.0

2. INT-B Series Push Pull Connectors

INT13-DGG

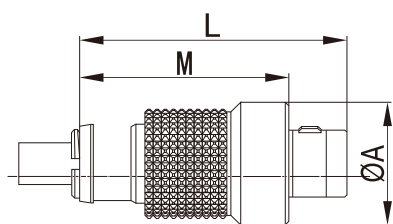
Straight plug short with cable collet, key (G) or keys(A...), standard nut or nut for fitting a bend relief available



Model	Series	L	A	φB	S1	S2
INT13-DGG	0B	≈32	≈22	9.5	7	8

INT13-TVB

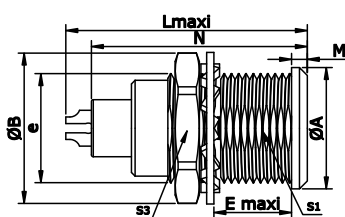
Straight plug, keys(B), short shell for special cable crimping and for fitting a silicone bend relief



Model	Series	A	L	M
INT13-TVB	00B	9	20	15.4

INT13-ZGG

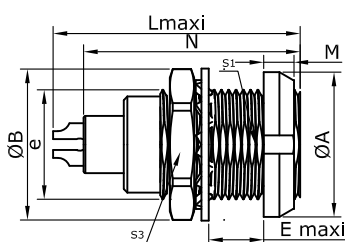
Panel mount fixed receptacle, nut fixing, key (G) or keys (A...M)



Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	N	S1	S3
INT13-ZGG	00B	8.0	10.2	M7*0.5	6.0	15.5	1.0	13.7	6.3	9.0
INT13-ZGG	0B	10.0	12.4	M9*0.6	7.0	20.7	1.2	19.1	8.2	11.0
INT13-ZGG	1B	14.0	15.8	M12*1.0	7.5	23.0	1.5	21.1	10.5	14.0
INT13-ZGG	2B	18.0	19.2	M15*1.0	8.5	26.7	1.8	24.6	13.5	17.0
INT13-ZGG	3B	21.8	25.0	M18*1.0	11.5	37.1	2.0	24.6	16.5	22.0

INT13-ZCG

Panel mount receptacle with two screw nuts, key (G) or keys (A...M), back panel mounting

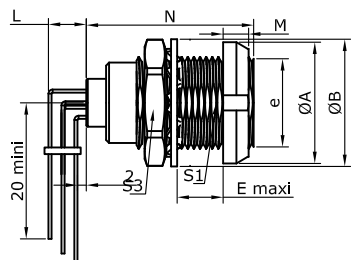


Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	N	S1	S3
INT13-ZCG	00B	10.0	10.2	M7*0.5	4.3	13.7	2.5	13.7	6.3	9.0
INT13-ZCG	0B	12.0	12.4	M9*0.6	5.5	20.7	2.5	16.4	8.2	11.0
INT13-ZCG	1B	16.0	15.8	M12*1.0	6.0	23.0	3.5	19.8	10.5	14.0
INT13-ZCG	2B	20.0	19.2	M15*1.0	6.5	26.7	3.5	20.2	13.5	17.0
INT13-ZCG	3B	24.0	25.0	M18*1.0	9.0	37.7	4.5	25.8	16.5	22.0

2. INT-B Series Push Pull Connectors

INT13-ZCG

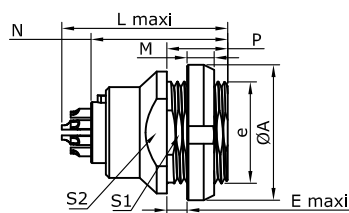
Panel mount fixed receptacle with two screw nuts, key (G) or keys (A...M), elbow 90° contact for printed circuit



Reference		Dimensions (mm)							
Model	Series	A	B	e	E	M	N	S1	S3
INT13-ZCG	0B	12.0	12.4	M9*0.6	5.5	2.5	18.3	8.2	11.0
INT13-ZCG	1B	16.0	15.8	M12*1.0	6.0	3.5	20.3	10.5	14.0
INT13-ZCG	2B	20.0	19.2	M15*1.0	6.5	3.5	22.3	13.5	17.0
INT13-ZCG	3B	24.0	25.0	M18*1.0	9.0	4.5	25.8	16.5	22.0

INT13-ZEG

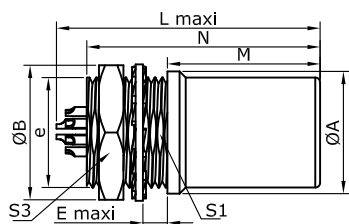
Panel mount fixed receptacle, nut fixing, key (G) or keys (A...M), back panel mounting



Reference		Dimensions (mm)									
Model	Series	A	B	e	E	L	M	N	P	S1	S3
INT13-ZEG	00B	10.0	9.5	M7*0.5	2.3	15.5	2.5	13.7	6.0	6.3	7.5
INT13-ZEG	0B	12.0	12.5	M9*0.6	2.4	20.7	2.5	19.1	6.3	8.2	9.0
INT13-ZEG	1B	16.0	16.0	M12*1.0	6.5	23.0	3.5	21.1	11.0	10.5	13.0
INT13-ZEG	2B	20.0	20.0	M15*1.0	3.0	26.7	3.5	24.6	9.0	13.5	15.0

INT13-ZHG

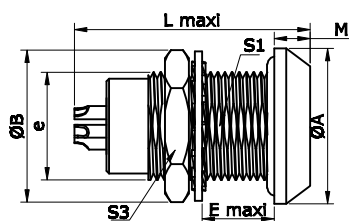
Panel mount fixed receptacle, nut fixing, key (G) or keys (A...M) and protruding shell



Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	N	S1	S3
INT13-ZHG	0B	10.0	12.4	M9*0.6	2.0	19.5	12.5	19.1	8.2	11.0
INT13-ZHG	1B	14.0	15.8	M12*1.0	4.0	21.7	12.0	21.1	10.5	14.0
INT13-ZHG	2B	18.0	19.2	M15*1.0	5.1	22.7	12.5	24.6	13.5	17.0

INT13-MGG

Panel mount sealed fixed receptacle, nut fixing, key (G) or keys (A...M)

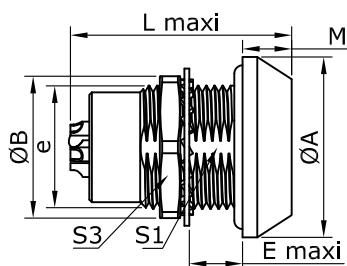


Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	M	S1	S3
INT13-MGG	0B	13.0	12.4	M9*0.6	7.0	21.5	3.0	8.2	11.0
INT13-MGG	1B	18.0	15.8	M12*1.0	7.0	26.6	4.5	10.5	14.0
INT13-MGG	2B	20.0	19.2	M15*1.0	8.0	31.6	4.0	13.5	17.0

2. INT-B Series Push Pull Connectors

INT13-MHG

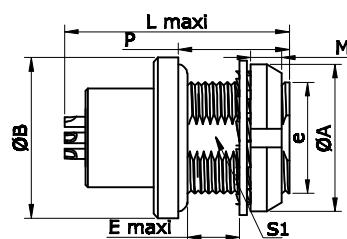
Panel mounted sealed fixed receptacle, nut fixing, key (G) or keys (A...M)



Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	M	S1	S3
INT13-MHG	0B	13.0	12.4	M9*0.6	7.0	23.2	4.8	8.2	11.0
INT13-MHG	1B	18.0	15.8	M12*1.0	7.0	30.3	5.2	10.5	14.0
INT13-MHG	2B	20.0	19.2	M15*1.0	8.0	35.6	6.0	13.5	17.0

INT13-MEG

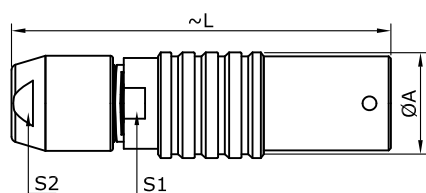
Panel mounted sealed fixed receptacle, nut fixing, key (G) or keys (A...M), back panel mounting



Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	P	S1	S3
INT13-MEG	0B	12.0	13.0	M9*0.6	2.5	20.2	2.5	9.0	8.2	-
INT13-MEG	1B	16.0	18.0	M12*1.0	5.5	26.6	3.5	11.0	10.5	-
INT13-MEG	2B	20.0	20.0	M15*1.0	6.5	31.6	3.5	9.6	13.5	15.0

INT13-DHG

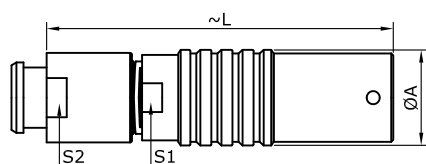
Cable mount receptacle, key (G) or keys (A...M), cable collet



Reference		Dimensions (mm)			
Model	Series	A	L	S1	S2
INT13-DHG	00B	7.0	27.5	5.5	5.0
INT13-DHG	0B	9.5	35.5	8.0	7.0
INT13-DHG	1B	12.5	40.5	10.0	9.0
INT13-DHG	2B	16.5	47.0	13.0	12.0
INT13-DHG	3B	19.0	56.0	15.0	14.0

INT13-DHG

Cable mount receptacle, key (G) or keys (A...M), cable collet and nut for fitting a bend relief

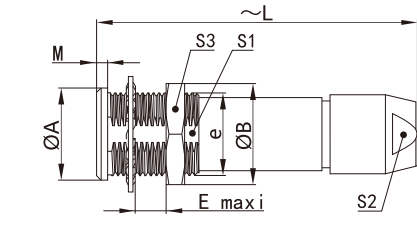


Reference		Dimensions (mm)			
Model	Series	A	L	S1	S2
INT13-DHG	00B	7.0	30.0	5.5	5.0
INT13-DHG	0B	9.5	35.5	8.0	8.0
INT13-DHG	1B	12.5	40.5	10.0	9.0
INT13-DHG	2B	16.5	47.0	13.0	12.0
INT13-DHG	3B	19.0	56.0	15.0	14.0

2. INT-B Series Push Pull Connectors

INT13-RKG

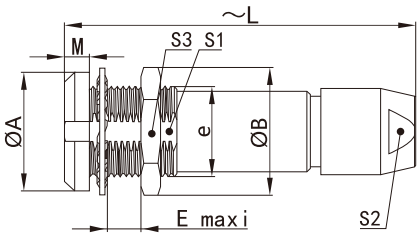
Fixed socket, nut fixing, key (G) or keys (A...),cable collet



Model	Series	A	B	e	E	L	M	S1	S2	S3
INT13-RKG	00B	8	10.2	M7*0.5	6.5	26.0	1.0	6.3	5	9
INT13-RKG	0B	10	12.4	M9*0.6	7.0	35.5	1.2	8.2	7	11
INT13-RKG	1B	14	15.8	M12*1.0	7.5	40.5	1.5	10.5	9	14
INT13-RKG	2B	18	19.2	M15*1.0	8.5	47.0	1.8	13.5	12	17
INT13-RKG	3B	22	25.0	M18*1.0	11.5	56.0	2.0	16.5	14	22

INT13-RFG

Fixed socket with two nuts, key (G) or keys (A...),cable collet(back panel mounting)

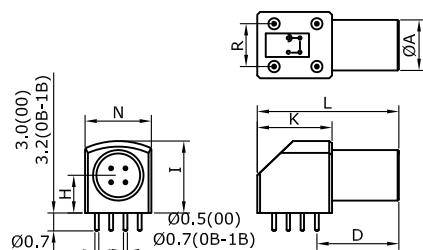


Model	Series	A	B	e	E	L	M	S1	S2	S3
INT13-RFG	00B	10	10.0	M7*0.5	5.3	26.0	2.5	6.3	5	9
INT13-RFG	0B	12	12.4	M9*0.6	5.0	35.5	2.5	8.2	7	11
INT13-RFG	1B	16	15.8	M12*1.0	5.0	40.5	3.5	10.5	9	14
INT13-RFG	2B	20	19.2	M15*1.0	6.5	47.0	3.5	13.5	12	17
INT13-RFG	3B	24	25.0	M18*1.0	9.0	56.0	4.5	16.5	14	22

2. INT-B Series Push Pull Connectors

INT13-ZPG

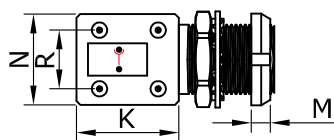
Elbow (90°) receptacle for printed circuit, key (G) or keys (A..F)
(solder or screw fixing)



Reference	Dimensions (mm)							
Model	A	D	H	I	K	L	N	R
INT13-ZPG.0B.302.HLN	9.0	14.6	6.7	12.6	13.3	25.0	11.7	7.62
INT13-ZPG.0B.303.HLN								
INT13-ZPG.0B.304.HLN								
INT13-ZPG.0B.305.HLN								
INT13-ZPG.0B.306.HLN								
INT13-ZPG.0B.307.HLN								
INT13-ZPG.0B.309.HLN								
INT13-ZPG.1B.302.HLN	11.0	16.6	7.5	14.0	13.3	27.0	12.6	7.62
INT13-ZPG.1B.303.HLN								
INT13-ZPG.1B.304.HLN								
INT13-ZPG.1B.305.HLN								
INT13-ZPG.1B.306.HLN								
INT13-ZPG.1B.307.HLN								
INT13-ZPG.1B.308.HLN								
INT13-ZPG.1B.309.HLN								
INT13-ZPG.1B.310.HLN								

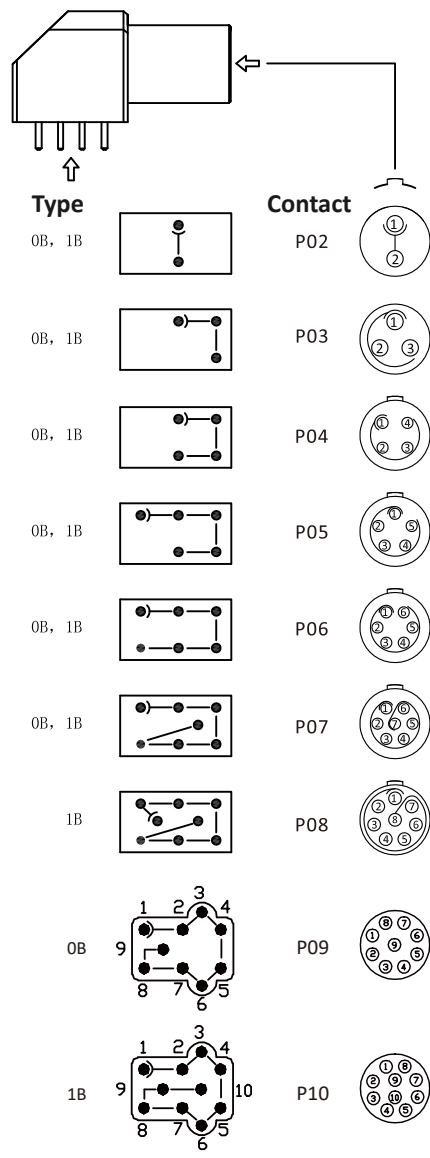
INT13-ZXG

Elbow (90°) receptacle for printed circuit, key (G) or keys (A..F)
(solder or screw fixing) back panel mounting



Reference	Dimensions (mm)												
Model	A	B	D	e	E	H	I	K	L	M	N	R	S3
INT13-ZXG.0B.302.HLN	12.0	12.4	14.6	M9*0.6	6	6.7	12.6	13.3	25	2.5	11.7	7.62	11
INT13-ZXG.0B.303.HLN													
INT13-ZXG.0B.304.HLN													
INT13-ZXG.0B.305.HLN													
INT13-ZXG.0B.306.HLN													
INT13-ZXG.0B.307.HLN													
INT13-ZXG.0B.309.HLN													
INT13-ZXG.1B.302.HLN	14	15	16.6	M11*0.5	7.5	7.5	14	13.3	27	3.5	12.6	7.62	13
INT13-ZXG.1B.303.HLN													
INT13-ZXG.1B.304.HLN													
INT13-ZXG.1B.305.HLN													
INT13-ZXG.1B.306.HLN													
INT13-ZXG.1B.307.HLN													
INT13-ZXG.1B.308.HLN													
INT13-ZXG.1B.309.HLN													
INT13-ZXG.1B.310.HLN													

2. INT-B Series Push Pull Connectors

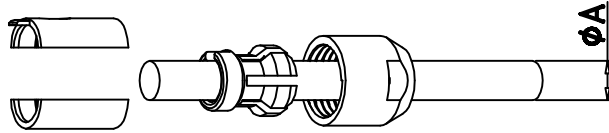


Electrical

Model	Shell Size	Contact No.	Test voltage (contact-contact) K/V rms	Test voltage (contact-shell) K/V rms	Rated Current (A)
INT13-ZPG-ZXG	0B	302	1.45	1.20	4.5
INT13-ZPG-ZXG	0B	303	1.70	1.60	4.5
INT13-ZPG-ZXG	0B	304	1.30	1.10	4.5
INT13-ZPG-ZXG	0B	305	1.25	1.20	4.5
INT13-ZPG-ZXG	0B	306	1.25	1.20	2.5
INT13-ZPG-ZXG	0B	307	1.00	1.20	2.0
INT13-ZPG-ZXG	0B	309	0.60	0.50	1.5
INT13-ZPG-ZXG	1B	302	1.70	1.45	4.5
INT13-ZPG-ZXG	1B	303	1.60	1.85	4.5
INT13-ZPG-ZXG	1B	304	1.70	1.80	4.5
INT13-ZPG-ZXG	1B	305	1.30	1.55	4.5
INT13-ZPG-ZXG	1B	306	1.35	1.45	4.5
INT13-ZPG-ZXG	1B	307	1.45	1.45	2.0
INT13-ZPG-ZXG	1B	308	1.30	1.30	2.0
INT13-ZPG-ZXG	1B	310	1.00	1.00	1.50

2. INT-B Series Push Pull Connectors

Cable Collet Size



Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	φA	Max	Min
00B-022	22	2.2	2.2	>1.4
00B-027	27	2.7	2.7	>2.2
00B-030	30	3.0	3.0	>2.5

Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	φA	Max	Min
0B-022	22	2.2	2.2	>1.4
0B-032	32	3.2	3.2	>2.2
0B-042	42	4.2	4.2	>3.2
0B-052	52	5.2	5.2	>4.2
0B-056	56	5.6	5.6	>4.6

Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	φA	Max	Min
1B-042	42	4.2	4.2	>3.2
1B-052	52	5.2	5.2	>4.2
1B-062	62	6.2	6.2	>5.2
1B-072	72	7.2	7.2	>6.2
1B-080	80	8.0	8.0	>7.0

Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	φA	Max	Min
2B-042	42	4.2	4.2	>3.2
2B-052	52	5.2	5.2	>4.2
2B-062	62	6.2	6.2	>5.2
2B-072	72	7.2	7.2	>6.2
2B-082	82	8.2	8.2	>7.2
2B-092	92	9.2	9.2	>8.2
2B-100	10	10.0	10.0	>9.0

Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	φA	Max	Min
3B-062	62	6.2	6.2	>4.9
3B-072	72	7.2	7.2	>6.2
3B-082	82	8.2	8.2	>7.1
3B-092	92	9.2	9.2	>7.7
3B-100	10	10.2	10.2	>9.2
3B-110	11	11.2	11.0	>10.2
3B-120	12	12.0	12	>11.1

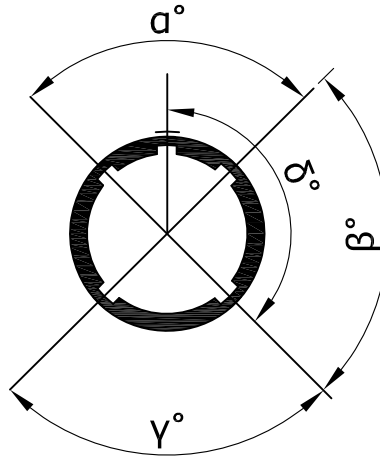
Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	φA	Max	Min
4B-100	10	10	10.5	>9.0
4B-120	12	12	12.0	>10.5
4B-130	13	13	13.0	>12.0
4B-150	15	15	15.0	>13.5
4B-160	16	16	16.0	>15.0

2. INT-B Series Push Pull Connectors

Alignment Key and Polarized Key

INT-B series connector model types are composed of six letters.
The last letter indicated the key position and contact type (male or female).

Front View of Receptacle



Code	Keys No.	Angles	Series			Code	Keys No.	Angles	Series		Contact Type	
			00	0B	1B				2B	3B	Plug	Receptacle
G	1		0°	0°	0°	G	1		0°	0°	Male	Female
A	2	α	30°	30°	30°	A	2	α	30°	30°	Male	Female
B	2		60°	60°	60°	B	2		45°	45°	Male	Female
C	2		-	90°	90°	C	2		60°	60°	Male	Female
D	2	β	-	135°	135°	D	2	γ	95°	95°	Male	Female
E	2		-	145°	145°	E	2	β	120°	120°	Male	Female
F	2		-	155°	155°	F	2		145°	145°	Male	Female
J	2	γ	45°	45°	45°	J	2	α	37.5°	37.5°	Female	Male
K	2		-	70°	70°	K	2		52.5°	52.5°	Female	Male
L	2		-	80°	80°	L	2	γ	70°	70°	Female	Male
M	2	δ	-	110°	-	M	2	δ	-	-	Female	Male

3. INT-K Series Waterproof Connectors

Plug:



INT13-TGG



INT13-TGG(Z)



INT13-THG



INT13-THG(Z)

Receptacle:



INT13-ZGG



INT13-ZEG



INT13-ZEG (elbow)



INT13-DHG



INT13-DHG (Z)



INT13-ZHG

3. INT-K Series Waterproof Connectors

Push-Pull Self-Latching Connection System



Drawing	Specification
	Engaging The self-latching system allows the connector to be mated by simply pushing the plug into the receptacle.
	Latched Once firmly latched, the connection cannot be broken by pulling on the cable or any other component part other than the outer release sleeve.
	Disengaging When required, the connector is disengaged by a single axial pull on the outer release sleeve. This first disengages the latches and then withdraws the plug from the socket.

3. INT-K Series Waterproof Connectors

K Series Connectors with the Following Main Features

1. Security of the push-pull latching system
2. Watertight connection (IP 66~IP 68)
3. Multipole types 2 to 48 contacts
4. Solder, crimp or print (straight or elbow) contacts
5. Keying system («G» key standard) for connector alignment
6. Multiple key options to avoid cross mating of similar connectors
7. 360° screening for full EMC shielding
8. High packing density for space savings
9. Rugged housing for extreme working conditions
10. Available customized cable assembly solution

Technical Characteristics

Mechanical and Climatical

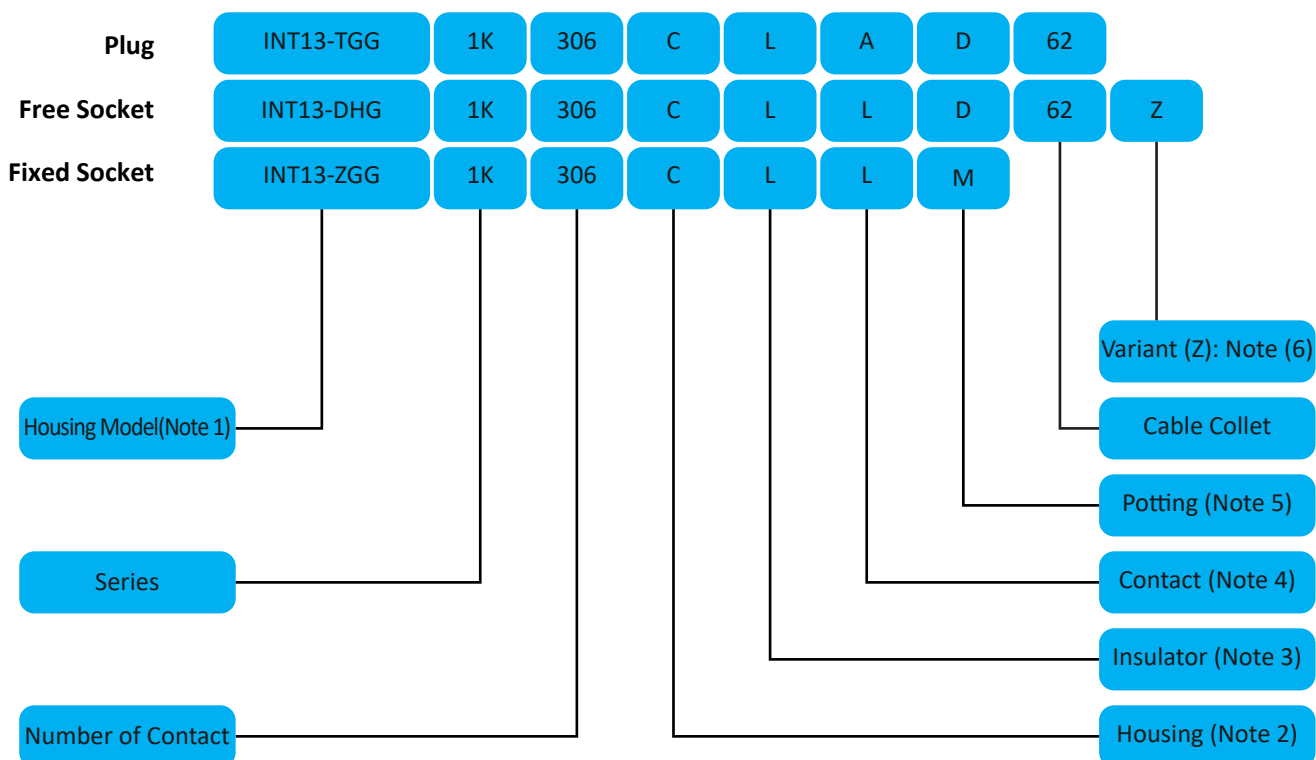
Characteristics	Value	Standard
Endurance	>5000 cycles	IEC 60512-5 test 9a
Humidity	Up to 95% at 60°C	
Temperature Range	-40°C, +150°C	
Resistance to Vibration	10-2000Hz, 15g	IEC 60512-4 test 6d
Shock Resistance	100g, 6ms	IEC 60512-4 test 6c
Salt Spray Corrosion Test	>96h	IEC 60512-6 test 11f
Protection Index (mated)	IP 68	IEC 60529
Climatical category	55/175/21	IEC 60068-1

Electrical

Characteristics		Value	Standard
Shielding Efficiency	at 10 MHZ	>95 dB	IEC 60619-1-3
	at 1 GHZ	>80 dB	IEC 60619-1-3

3. INT-K Series Waterproof Connectors

Part Numbering System



*Note 1:

To place an order for a chocolate design, please use the identifier INT12

INT13-TGG.1K.306.CLAD62 = 1K 6 pins straight plug, G key (alpha=0), pearl chrome plated brass housing, PPS insulator, male soldering contact type, 6.0 mm cable collet

INT12-TGG.1K.306.CLAD62Z = 1K 6 pins straight plug, G key (alpha=0), pearl chrome plated brass housing, PPS insulator, male soldering contact type, 6.0 mm cable collet, nut for fitting bend relief, chocolate out shell design

*Note 2:

C=Brass plated chrome

K=Brass plated black chrome (At the end of the model number, adding 'R' indicates a red dot, while adding 'W' indicates a white dot.)

N=Brass plated nickel

T=Stainless Steel

L=Aluminum alloy anodized

*Note 3:

L=PPS

T=PTFE

P=PEEK

3. INT-K Series Waterproof Connectors

***Note 4:**

A=Male soldering contacts

L=Female soldering contacts

D=Male straight PCB contacts

N=Female straight PCB contacts

W=Male 90° PCB contacts

V=Female 90° PCB contacts

***Note 5:**

W=White silicone sealing

T=Transparent epoxy resin seal

***Note 6:**

To request a model that includes a nut for fitting the bend relief, designate the variant position with the letter "Z" and include the bend relief part numbers INT13-GMA.

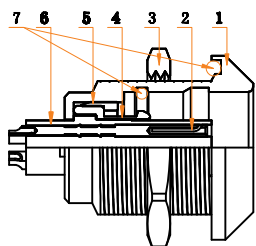
Bend relief color:

N=Black G=Gray A=Blue R=Red J=Yellow V=Green

Part Section Showing Internal Components

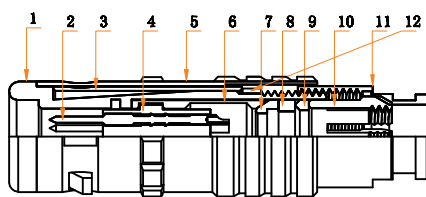
Fixed Receptacle

- ① Outer Shell
- ② Insulator
- ③ Hexagonal Nut
- ④ Retaining Ring
- ⑤ Earthing Crown
- ⑥ Female Contact
- ⑦ O-ring



Straight Plug

- ① Outer Shell
- ② Male Contact
- ③ Latch Sleeve
- ④ Insulator
- ⑤ Inner Shell
- ⑥ Split Insert Carrier
- ⑦ Earthing Cone
- ⑧ Gasket
- ⑨ Washer
- ⑩ Collet
- ⑪ Collet Nut
- ⑫ Retaining Ring

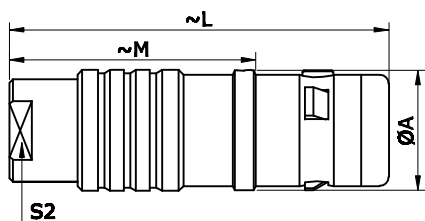


3. INT-K Series Waterproof Connectors

Product Size

INT13-TGG

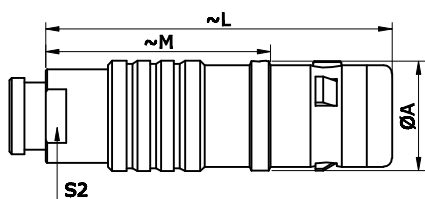
Waterproof cable mount straight plug, key (G) or keys (A... L), cable collet



Reference		Dimensions (mm)			
Model	Series	A	L	M	S2
INT13-TGG	0K	11.0	34.0	23.0	7.0
INT13-TGG	1K	13.0	42.0	28.0	9.0
INT13-TGG	2K	16.0	52.0	36.0	12.0
INT13-TGG	3K	19.0	60.0	40.0	15.0

INT13-TGG

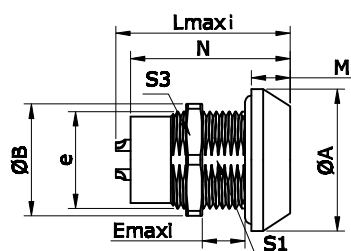
Waterproof cable mount straight plug, key (G) or keys (A... L), cable collet and nut for fitting a bend relief



Reference		Dimensions (mm)			
Model	Series	A	L	M	S2
INT13-TGG	0K	11.0	34.0	23.0	7.0
INT13-TGG	1K	13.0	42.0	28.0	9.0
INT13-TGG	2K	16.0	52.0	36.0	12.0
INT13-TGG	3K	19.0	60.0	40.0	15.0

INT13-ZGG

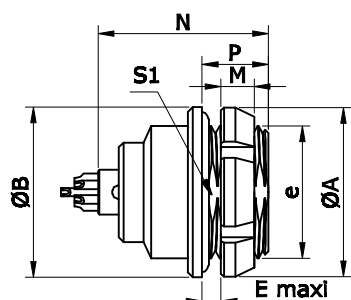
Panel mount fixed receptacle, nut fixing, key (G) or keys (A... L), solder or PCB printed type



Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	N	S1	S3
INT13-ZGG	0K	18.0	19.2	M14 *1.0	6	21.7	4.0	20.0	12.5	17
INT13-ZGG	1K	20.0	21.5	M16 *1.0	9	27.0	4.5	25.1	14.5	19
INT13-ZGG	2K	25.0	27.0	M20 *1.0	9	30.7	5.0	28.6	18.5	24
INT13-ZGG	3K	31.0	34.0	M24 *1.0	11	36.2	6.0	33.6	22.5	30

INT13-ZEG

Panel mount fixed receptacle, nut fixing, key (G) or keys (A... L), solder or PCB printed type (back panel mounting)

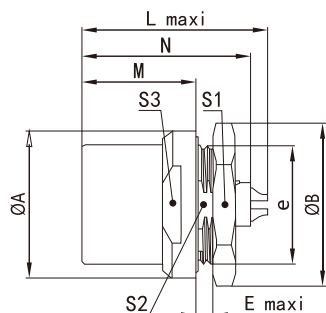


Reference		Dimensions (mm)								
Model	Series	A	B	e	E	M	N	P	S1	
INT13-ZEG	0K	18.0	18.0	M14 *1.0	3.4	3.5	20.1	7.0	12.5	
INT13-ZEG	1K	20.0	20.0	M16 *1.0	6.2	3.5	25.1	10.0	14.5	
INT13-ZEG	2K	25.0	25.0	M20 *1.0	5.0	3.5	28.6	10.0	18.5	
INT13-ZEG	3K	30.0	31.0	M24 *1.0	7.5	4.5	33.6	12.0	22.5	

3. INT-K Series Waterproof Connectors

INT13-ZHG

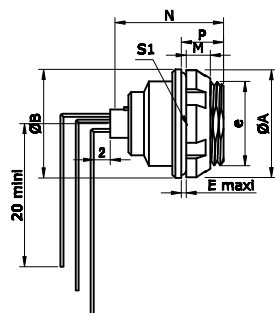
Fixed socket, nut fixing, key (G) or keys (A...), protruding shell



Model	Series	A	B	e	E	L	M	M	S1	S2	S3
INT13-ZHG	0K	18	19.2	M14*1.0	1.5	21.7	10.5	20.1	15	12.5	17
INT13-ZHG	1K	20	21.5	M16*1.0	1.5	27.0	15.5	25.1	17	14.5	19
INT13-ZHG	2K	25	27.0	M20*1.0	1.5	30.7	17.0	27.1	20	18.5	24

INT13-ZEG

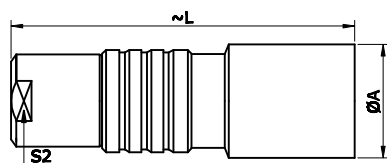
Panel mount fixed receptacle, nut fixing, key (G) or keys (A... L), elbow 90° contact for printed circuit (back panel mounting)



Reference		Dimensions (mm)								
Model	Series	A	B	e	E	M	N	P	S1	
INT13-ZEG	0K	18.0	18.0	M14 *1.0	3.4	3.5	20.1	7.0	12.5	
INT13-ZEG	1K	20.0	20.0	M16 *1.0	6.2	3.5	25.1	10.0	14.5	
INT13-ZEG	2K	25.0	25.0	M20 *1.0	5.0	3.5	28.6	10.0	18.5	
INT13-ZEG	3K	30.0	31.0	M24 *1.0	7.5	4.5	33.6	12.0	22.5	

INT13-DHG

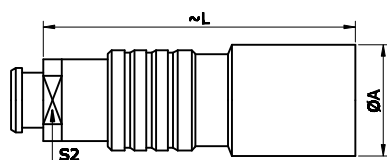
Free cable mounted receptacles, key (G) or keys (A... L), cable collet



Reference		Dimensions (mm)		
Model	Series	A	L	S2
INT13-DHG	0K	13.0	34.0	7.0
INT13-DHG	1K	15.0	45.0	9.0
INT13-DHG	2K	19.0	54.0	12.0
INT13-DHG	3K	23.0	64.0	15.0

INT13-DHG

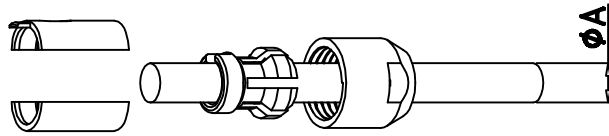
Free cable mounted receptacles, key (G) or keys (A... L), cable collet and nut for fitting a bend relief



Reference		Dimensions (mm)		
Model	Series	A	L	S2
INT13-DHG	0K	13.0	34.0	7.0
INT13-DHG	1K	15.0	45.0	9.0
INT13-DHG	2K	19.0	54.0	12.0
INT13-DHG	3K	23.0	65.0	15.0

3. INT-K Series Waterproof Connectors

Cable Collet Size



Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	ϕA	Max	Min
0K-022	22	2.2	2.2	>1.4
0K-032	32	3.2	3.2	>2.2
0K-042	42	4.2	4.2	>3.2
0K-052	52	5.2	5.2	>4.2

Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	ϕA	Max	Min
1K-042	42	4.2	4.2	>3.2
1K-052	52	5.2	5.2	>4.2
1K-062	62	6.2	6.2	>5.2
1K-072	72	7.2	7.2	>6.2
1K-080	80	8.0	8.0	>7.0

Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	ϕA	Max	Min
2K-042	42	4.2	4.2	>3.2
2K-052	52	5.2	5.2	>4.2
2K-062	62	6.2	6.2	>5.2
2K-072	72	7.2	7.2	>6.2
2K-082	82	8.2	8.2	>7.2
2K-092	92	9.2	9.2	>8.2
2K-100	10	10.0	10.0	>9.0

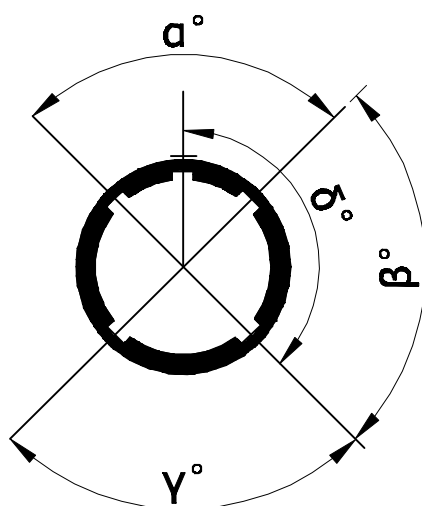
Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	ϕA	Max	Min
3K-062	62	6.2	6.2	>5.2
3K-072	72	7.2	7.2	>6.2
3K-082	82	8.2	8.2	>7.2
3K-092	92	9.2	9.2	>8.2
3K-100	10	10.2	10.2	>9.2
3K-110	11	11.2	11.2	>10.2
3K-120	12	12.0	12.0	>11.0

3. INT-K Series Waterproof Connectors

Alignment Key and Polarized Key

INT-K series connector model types are composed of six letters.
The last letter indicated the key position and contact type (male or female).

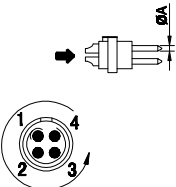
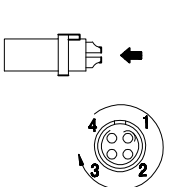
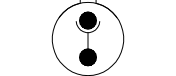
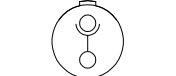
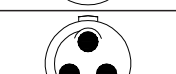
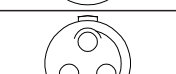
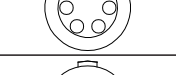
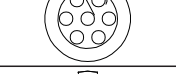
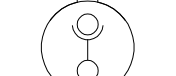
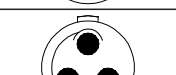
Front View of Receptacle



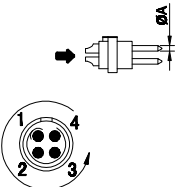
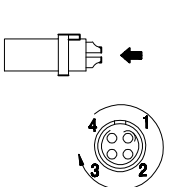
Code	Keys No.	Angles	Series				Contact Type	
			0K	1K	2K	3K	Plug	Receptacle
G	1		0°	0°	0°	0°	Male	Female
A	2	α	30°	30°	30°	30°	Male	Female
B	2		45°	45°	45°	45°	Male	Female
C	2		60°	60°	60°	60°	Male	Female
D	2	γ	95°	95°	95°	95°	Male	Female
E	2	β	120°	120°	120°	120°	Male	Female
F	2		145°	145°	145°	145°	Male	Female
L	2	γ	75°	75°	75°	75°	Female	Male

3. INT-B and K Series Waterproof Connectors

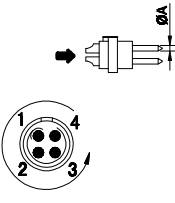
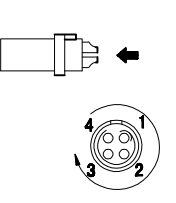
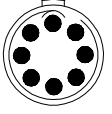
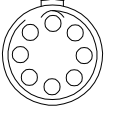
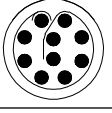
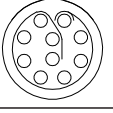
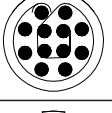
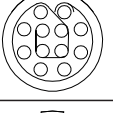
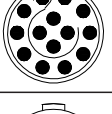
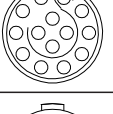
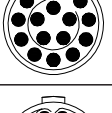
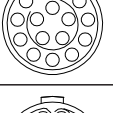
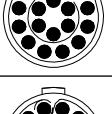
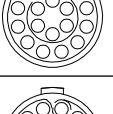
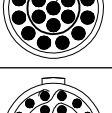
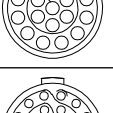
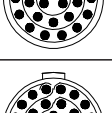
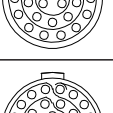
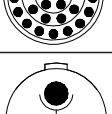
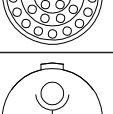
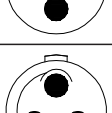
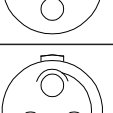
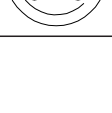
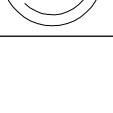
INT-B and INT-K Series Multipole Layout

	Male Contact 	Female Contact 	Insulator	Contact No.	ØA(MM)	Contact type			Test voltage (contact - contact) K/V rms	Test voltage (contact - shell) K/V rms	Rated current (A)
						Solder contact	PCB straight contact	PCB elbow contact			
00			302	2	0.5	●	●	●	1.00	0.95	5.0
			303	3	0.5	●	●	●	0.80	0.95	3.0
			304	4	0.5	●	●	●	0.80	0.65	2.0
			305	5	0.35	●	●	●	0.70	1.0	1.70
0B 0K			302	2	0.9	●	●	●	1.30	1.05	10.0
			303	3	0.9	●	●	●	1.20	0.90	8.0
			304	4	0.7	●	●	●	0.85	0.70	7.0
			305	5	0.35	●	●	●	0.7	1.0	1.7
			306	6	0.5	●	●	●	0.85	0.65	2.5
			307	7	0.5	●	●	●	0.80	0.70	2.5
			309	9	0.5	●	●	●	0.60	0.50	2.0
1B 1K			302	2	1.3	●	●	●	1.50	1.35	15.0
			303	3	1.3	●	●	●	1.30	1.55	12.0
			304	4	0.9	●	●	●	1.35	1.45	10.0
			305	5	0.9	●	●	●	1.25	1.15	9.0

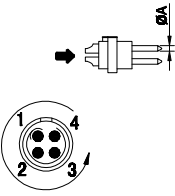
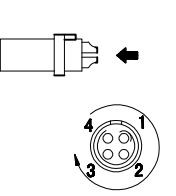
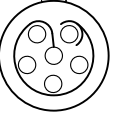
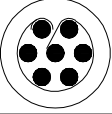
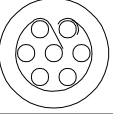
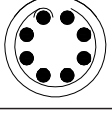
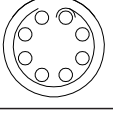
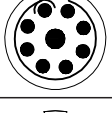
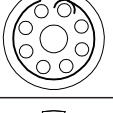
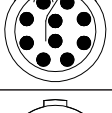
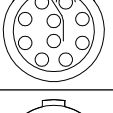
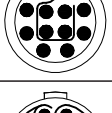
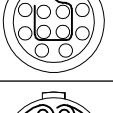
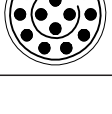
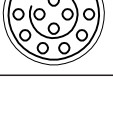
3. INT-B and K Series Waterproof Connectors

	Male contact 	Female contact 	Insulator	Contact No.	$\phi A (MM)$	Contact type			Test voltage (contact - contact) K/V rms	Test voltage (contact - shell) K/V rms	Rated current (A)
						Solder contact	PCB straight contact	PCB elbow contact			
1B 1K			306	6	0.7	●	●	●	1.05	1.20	7.0
			307	7	0.7	●	●	●	0.95	1.05	7.0
			308	8	0.7	●	●	●	0.95	1.15	5.0
			310	10	0.5	●	●	●	0.90	1.50	2.5
			314	14	0.5	●	●	●	0.80	1.20	2.0
			316	16	0.5	●	●	●	0.80	1.25	1.5
2B 2K			302	2	2.0	●	●	●	2.10	1.75	25.0
			303	3	1.6	●	●	●	2.40	1.85	17.0
			304	4	1.3	●	●	●	1.85	1.85	15.0
			305	5	1.3	●	●	●	1.75	1.60	14.0
			306	6	1.3	●	●	●	1.35	1.45	12.0
			307	7	1.3	●	●	●	1.75	1.60	11.0

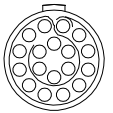
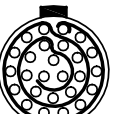
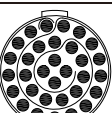
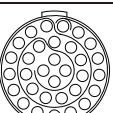
3. INT-B and K Series Waterproof Connectors

	Male contact 	Female contact 	Insulator	Contact No.	ØA(MM)	Contact type			Test voltage (contact - contact) K/V rms	Test voltage (contact - shell) K/V rms	Rated current (A)
						Solder contact	PCB straight contact	PCB elbow contact			
2B 2K			308	8	0.9	●	●	●	1.50	1.25	10.0
			310	10	0.9	●	●	●	1.45	1.30	8.0
			312	12	0.7	●	●	●	1.25	1.35	7.0
			314	14	0.7	●	●	●	1.15	1.35	6.5
			316	16	0.7	●	●	●	0.95	1.25	6.0
			318	18	0.9	●	●	●	1.2	1.05	7.0
			319	19	0.7	●	●	●	0.95	1.25	5.0
			326	26	0.5	●	●	●	0.95	1.30	2.0
			332	32	0.5	●	●	●	0.80	1.20	1.5
3B 3K			302	2	3.0	●	●	●	2.10	1.55	35.0
			303	3	2.0	●	●	●	1.90	1.50	25.0

3. INT-B and K Series Waterproof Connectors

	Male contact 	Female contact 	Insulator	Contact No.	ØA(MM)	Contact type			Test voltage (contact - contact) K/V rms	Test voltage (contact - shell) K/V rms	Rated current (A)
						Solder contact	PCB straight contact	PCB elbow contact			
3B 3K			304	4	2.0	●	●	●	1.45	1.25	19.0
			305	5	1.6	●	●	●	1.90	1.25	19.0
			306	6	1.6	●	●	●	1.60	1.15	17.0
			307	7	1.6	●	●	●	1.70	1.25	15.0
			308	8	1.3	●	●	●	1.65	1.15	13.0
			309	8 1	1.3 2.0	●	●	●	1.35 1.35	1.05 1.05	6.0 15.0
			310	10	1.3	●	●	●	1.25	0.90	12.0
			312	12	0.9	●	●	●	1.45	1.00	9.0
			314	14	0.9	●	●	●	1.20	1.20	9.0

3. INT-B and K Series Waterproof Connectors

		316	16	0.9	●	●	●	1.20	0.85	8.0
		318	18	0.9	●	●	●	1.20	1.05	7.0
		320	20	0.7	●	●	●	1.0	0.9	6.0
		322	22	0.7	●	●	●	1.0	0.9	5.5
		324	24	0.7	●	●	●	1.2	1.45	7.0
		326	26	0.7	●	●	●	0.95	0.7	4.0
		330	30	0.7	●	●	●	0.8	0.7	3.5
		332	32	0.7	●	●	●	0.75	0.7	3.0

- First choice alternative
- Special order alternative

4. INT-F Series Circular Connectors

Plug:



INT13-S



INT13-S(Z)



INT13-SS



INT13-SS



INT13-SF



INT13-SFU



INT13-SOV



INT13-WSO



INT13-SA

Receptacle:

Panel Mount Receptacle



INT13-DG



INT13-D



INT13-DBG



INT13-DB



INT13-DEE



INT13-DBPC



INT13-DBPE/U



INT13-DBEU

Straight and Right Angle Plug:

Cable Mount Receptacle



INT13-K



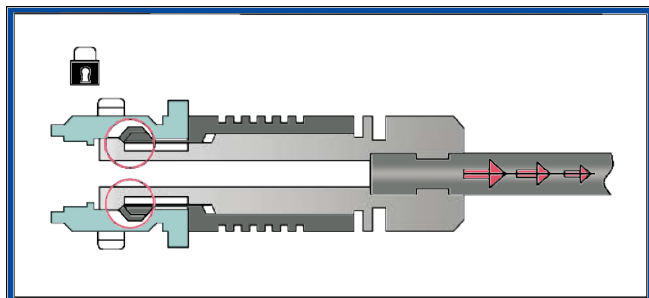
INT13-KE



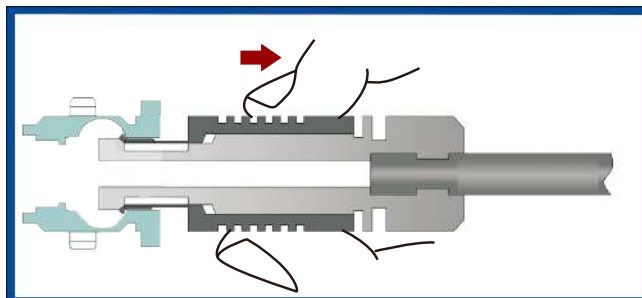
INT13-KS/KSE

4. INT-F Series Circular Connectors

Push-Pull Self-Latching Connection System



Secure Locking When Cable Pulled



Pull the Outer Sleeve to Unlock

F Series Circular Connectors with the Following Main Features

1. Original push-pull self-locking system
2. Widely adopted by the industry
3. Unparalleled signal integrity
4. Fully secured against accidental disconnection
5. Designed for frequent connect disconnect operations
6. Ideal for compact product designs
7. Locking system integrated into the connector housing
8. Non-locking or emergency quick release solutions also available
9. Available over-molded injection and custom cable assembly

Technical Characteristics

Mechanical and Climatical

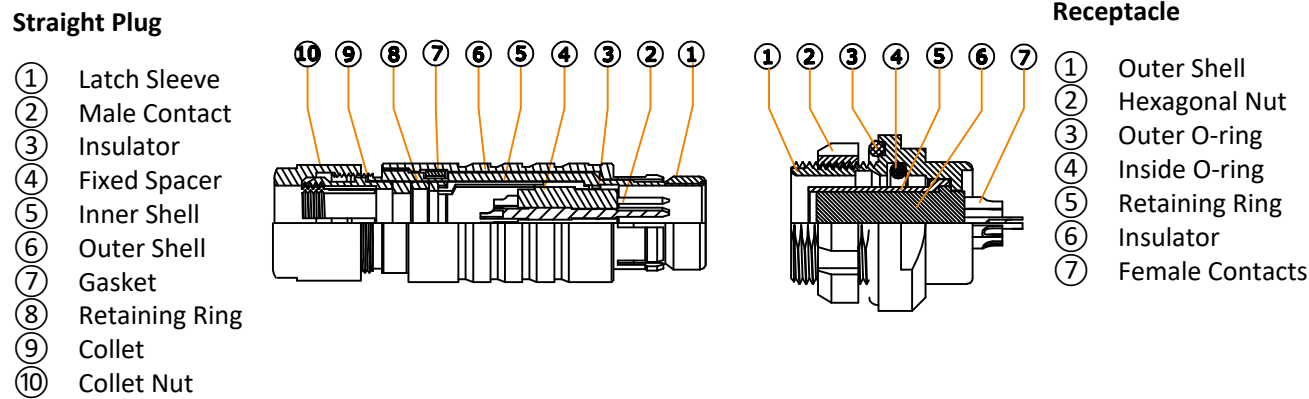
Characteristics	Value	Standard
Endurance	>5000 cycles	IEC 60512-5 test 9a
Humidity	Up to 95% at 60°C	
Temperature Range	-40°C, +150°C	
Resistance to Vibration	10-2000Hz, 15g	IEC 60512-4 test 6d
Shock Resistance	100g, 6ms	IEC 60512-4 test 6c
Salt Spray Corrosion Test	>96h	IEC 60512-6 test 11f
Protection Index (mated)	IP 50/IP68	IEC 60529

Electrical

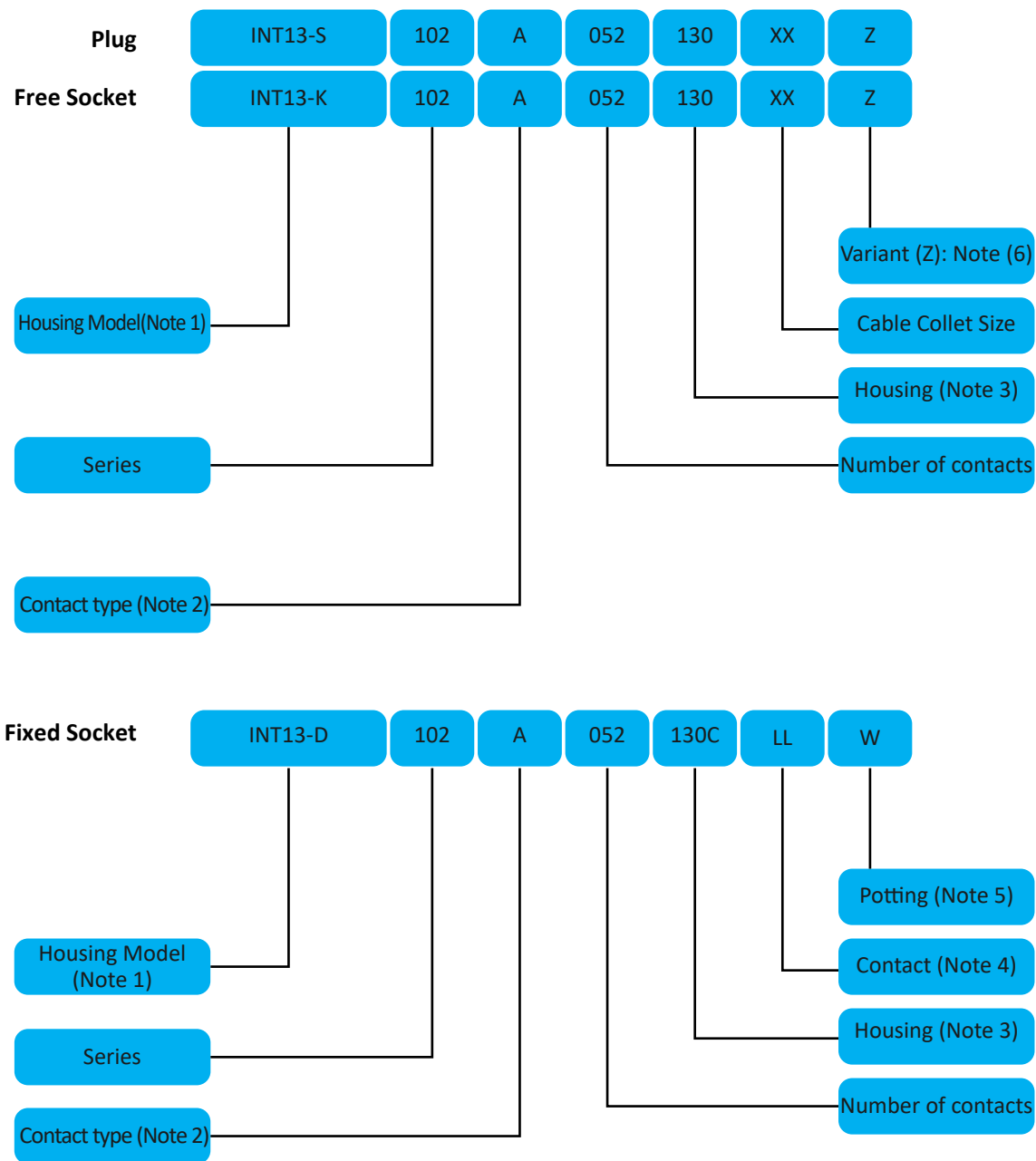
Characteristics		Value	Standard
Shielding Efficiency	at 10 MHZ	>75 dB	IEC 60619-1-3
	at 1 GHZ	>40 dB	IEC 60619-1-3

4. INT-F Series Circular Connectors

Part Section Showing Internal Components



Part Numbering System



4. INT-F Series Circular Connectors

*Note 1:

INT13-S102A052-13050Z = 0F 3 pins straight plug, code 1, pearl chrome plated brass housing, red dot, PPS insulator, male soldering contact type, 5.0 mm cable collet, nut for fitting bend relief.

INT13-K103A053-14060 = 1F 4 pins free receptacle, code 1, black chrome plated brass housing, white dot, PPS insulator, female soldering contact type, 6.0 mm cable collet.

INT13-D104A054-240KLL = 2F 5 pins panel mounted socket, code 2, black chrome plated brass housing, white dot, PPS insulator, female soldering contact type, nut fixed.

*Note 2:

A = Male contacts on plug and Female contacts on receptacle

Z = Female contacts on plug and Male contacts on receptacle

*Note 3:

Plug

130=Brass plated pearl chrome, code 1, solder contacts

140=Brass plated black chrome, code 1, solder contacts

230=Brass plated pearl chrome, code 2, solder contacts

240=Brass plated black chrome, code 2, solder contacts

330=Brass plated pearl chrome, code 3, solder contacts

340=Brass plated black chrome, code 3, solder contacts

Front mounted receptacle

13XC=Brass plated pearl chrome, code 1

14XK=Brass plated black chrome, code 1

23XC=Brass plated pearl chrome, code 2

24XK=Brass plated black chrome, code 2

33XC=Brass plated pearl chrome, code 3

34XK=Brass plated black chrome, code 3

Note: X = 0 means solder contacts X = 9 means PCB contacts

Rear mounted receptacle

13XC=Brass plated pearl chrome, code 1

14XK=Brass plated black chrome, code 1

13XC=Brass plated pearl chrome, code 1

14XK=Brass plated black chrome, code 1

23XC=Brass plated pearl chrome, code 2

24XK=Brass plated black chrome, code 2

33XC=Brass plated pearl chrome, code 3

34XK=Brass plated black chrome, code 3

Note: X = 0 means PCB contacts X = 9 means solder contacts

To request a ground tab, designate the letter "G", eg: INT13-DBPU104A054-249GKLL

At the end of the model number, adding 'R' indicates a red dot, while adding 'W' indicates a white dot.

*Note 4:

First Letter

L=PPS insulator

T=PTFE insulator

P=PEEK insulator

Second Letter

L=Female soldering contact

A=Male soldering contact

D=Male straight PCB contact

N=Female straight PCB contact

W=Male 90° PCB contact

V=Female 90° PCB contact

*Note 5:

W=White silicone sealing

T=Transparent epoxy resin seal

*Note 6:

To request a model that includes a nut for fitting the bend relief, designate the variant position with the letter "Z" and include the bend relief part numbers INT13-GMA.

Bend relief color:

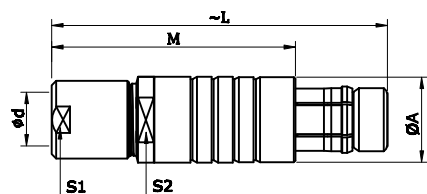
N=Black G=Gray A=Blue R=Red J=Yellow V=Green

4. INT-F Series Circular Connectors

Product Size

INT13-S

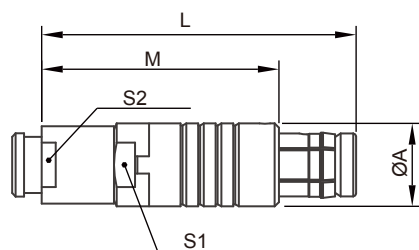
Cable mount plug, code (1, 2, 3), cable collet



Reference		Dimensions (mm)				
Model	Series	A	M	L	S1	S2
INT13-S	0F	9.4	26	37.2	8	8
INT13-S	1F	12	34	45	9	10
INT13-S	1.5F	13	36	46	12	11
INT13-S	2F	15	36	48	13	13
INT13-S	3F	18.7	43.4	58	16	17

INT13-S

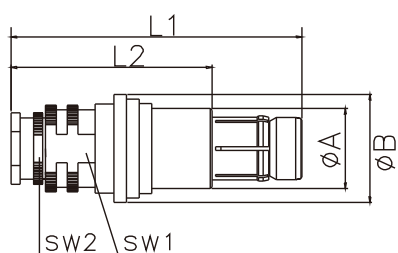
Cable mount plug, code (1, 2, 3), cable collet, nut for fitting bend relief



Reference		Dimensions (mm)				
Model	Series	A	L	M	S1	S2
INT13-S	0F	9.5	36	26	8	8
INT13-S	1F	12	45	34	9	9
INT13-S	1.5F	12.9	47.3	37	11	12
INT13-S	2F	15	50	37.5	13	13
INT13-S	3F	18.7	58	44.2	16	17

INT13-SS

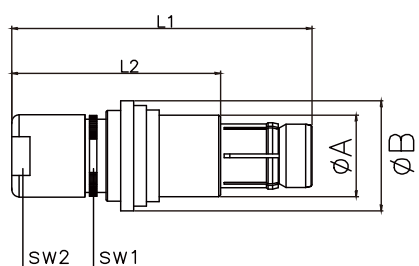
Cable mount short plug, code (1, 2, 3), cable collet



Reference		Dimensions (mm)					
Model	Series	A	B	L1	L2	SW1	SW2
INT13-SS	0F	9	12	33	22	10	11
INT13-SS	1F	12	15	33	23	10	11
INT13-SS	1.5F	12.4	15.5	33	23	10	11
INT13-SS	2F	15	18	44	29	15	16
INT13-SS	3F	18	21.2	44	29	15	16

INT13-SS

Cable mount short plug, code (1, 2, 3), cable collet



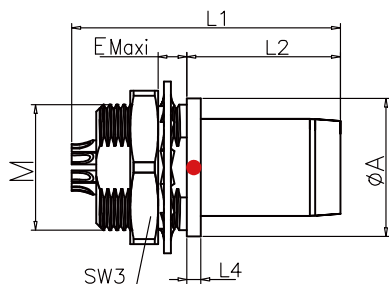
Reference		Dimensions (mm)					
Model	Series	A	B	L1	L2	SW1	SW2
INT13-SS	0F	9	12	34.5	24.5	8	8
INT13-SS	1F	12	15	42	30	11.5	12
INT13-SS	1.5F	12.4	15.5	37	47	11	11
INT13-SS	2F	15	18	48	36	13	13
INT13-SS	3F	18	21.2	48	33	16	16

4. INT-F Series Circular Connectors

Product Size

INT13-SF

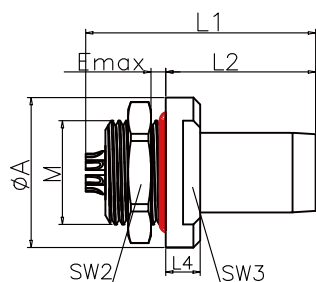
Panel mount fixed plug, non-latching, code (1, 2), nut fixing



Reference		Dimensions (mm)							
Model	Series	A	M	L1	L2	L4	E	SW3	
INT13-SF	0F	10	M9*0.5	20	11	1	4	11	
INT13-SF	1F	14	M12*1.0	23.5	12.5	1.5	3	14	
INT13-SF	1.5F	16	M14*1.0	26	12	2	4	17	
INT13-SF	2F	18	M15*1.0	28	14	2	3	17	
INT13-SF	3F	22	M16*1.0	30.5	16.8	12	5.5	19	

INT13-SFU

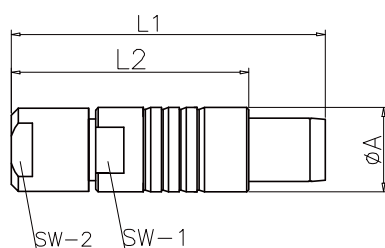
Waterproof Panel mount fixed plug, non-latching, code (1, 2), nut fixing



Reference		Dimensions (mm)								
Model	Series	A	M	L1	L2	L4	B	SW2	SW3	
INT13-SFU	0F	13	M9*0.5	21	13	3	2.5	11	9	
INT13-SFU	1F	17	M12*1	26	14	3	5	14	12	
INT13-SFU	1.5F	19	M14*1	26.5	13.7	3.7	4	17	12	
INT13-SFU	2F	22	M16*1	28	15	3	7.5	19	12	
INT13-SFU	3F	27	M20*1	32	17	4	6	25	-	

INT13-SOV

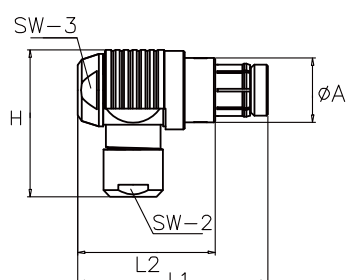
Cable mount plug, non-latching, code (1, 2, 3), cable collet



Reference		Dimensions (mm)					
Model	Series	A	L1	L2	SW1	SW2	
INT13-SOV	0F	11.5	34.5	24.5	8	8	
INT13-SOV	1F	13.5	42	30	10	9	
INT13-SOV	2F	16.5	48	36	13	13	
INT13-SOV	3F	16.5	48	36	13	13	

INT13-WSO

Elbow right-angle cable mount plug, code (1, 2, 3), cable collet



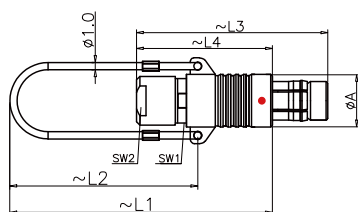
Reference		Dimensions (mm)						
Model	Series	A	B	L1	L2	SW1	SW2	
INT13-WSO	0F	12	33	23	25	7	8	
INT13-WSO	1F	15	38	27	31	10	11	
INT13-WSO	1.5F	17	39	29	33	12	12	
INT13-WSO	2F	19	39	29	33	12	14	
INT13-WSO	3F	23	45	32	37	15	17	

4. INT-F Series Circular Connectors

Product Size

INT13-SA

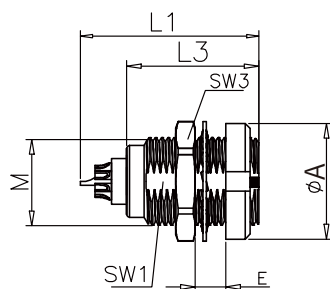
Cable mount straight plug, code (1, 2, 3), cable collet and lanyard release



Reference		Dimensions (mm)							
Model	Series	A	L1	L2	L3	L4	SW1	SW3	
INT13-SA	0F	9	65	50	36	26	7	7	
INT13-SA	1F	11	77	60	46	35	10	10	
INT13-SA	1.5F	13	75	55	48	38	11	12	
INT13-SA	2F	15	84	65	50	38	13	12	
INT13-SA	3F	18	96	70	62	47	16	15	

INT13-DG

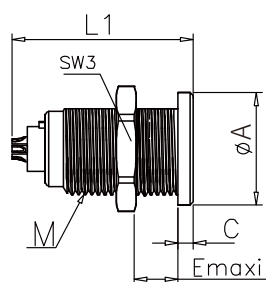
Panel mount receptacle, code (1, 2, 3), with two screw nuts, solder or PCB type



Reference		Dimensions (mm)							
Model	Series	A	L1	L3	M	E	SW1	SW3	
INT13-DG	0F	12	20	14.5	M9*0.5	8	8	11	
INT13-DG	1F	15	24	16.5	M12*1.0	8	10	14	
INT13-DG	1.5F	19	24	16.5	M14*1.0	8	12	17	
INT13-DG	2F	20	27.5	18.5	M15*1.0	10	13.5	17	
INT13-DG	3F	23	30.5	22.5	M18*1.0	14	16.5	22	

INT13-D

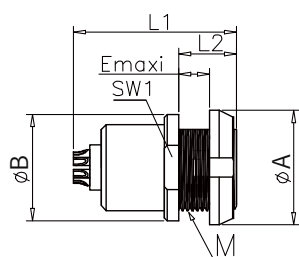
Panel mount receptacle, code (1, 2, 3), nut fixing



Reference		Dimensions (mm)							
Model	Series	A	L1	M	E	C	SW3		
INT13-D	0F	11	19	M9*0.5	9	1.5	11		
INT13-D	1F	14	23	M12*1	8	1.5	14		
INT13-D	1.5F	16	25	M14*1	10	2	17		
INT13-D	2F	19	25	M15*1	11	2.2	17		
INT13-D	3F	22	32	M18*1	15	2	22		

INT13-DBP

Panel mount receptacle, code (1, 2, 3), nut fixing, solder or PCB type



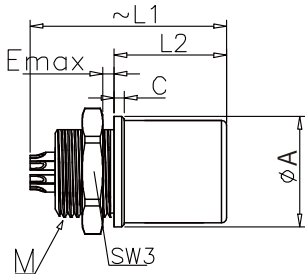
Reference		Dimensions (mm)							
Model	Series	A	B	L1	L2	M	E	SW1	
INT13-DBP	0F	11	12	20	6.5	M9*0.5	3.5	10	
INT13-DBP	1F	14	15	23	8	M12*1.0	4	-	
INT13-DBP	1.5F	16	18	23	7	M14*1.0	4	-	
INT13-DBP	2F	19	19	26	9	M15*1.0	5	-	
INT13-DBP	3F	22	23	30	17	M18*1.0	12	-	

4. INT-F Series Circular Connectors

Product Size

INT13-DB

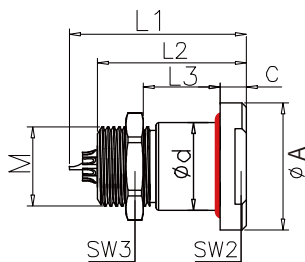
Fixed socket, code (1, 2, 3), nut fixing, protruding shell



Reference		Dimensions (mm)						
Model	Series	A	L1	L2	L3	L4	SW1	SW3
INT13-DB	0F	11	18	11	M9*0.5	1	3	11
INT13-DB	1F	14	21	11.5	M12*1.0	1.5	4	14
INT13-DB	2F	19	26	14.5	M16*1.0	2.5	3	19
INT13-DB	3F	22	33	19	M18*1	2	7	22

INT13-DER

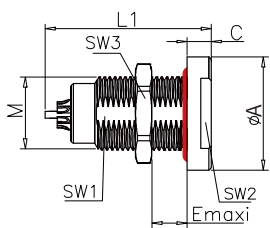
Waterproof panel mount receptacle, code (1, 2, 3), nut fixing(for thicker panel)



Reference		Dimensions (mm)									Panel Cut-outs
Model	Series	A	L1	L2	L3	M	C	D	SW2	SW3	
INT13-DER	0F	14.5	22.5	18.5	8	M9*0.5	3	10	11	11	Ø10.1
INT13-DER	1F	18	26	22.5	9	M14*1.0	3	14	14	17	Ø14.1
INT13-DER	1.5F	19	27	21.5	7	M14*1.0	3.5	14	15	17	Ø14.1
INT13-DER	2F	22	29	23	8	M16*1.0	4	16	17	19	Ø16.1
INT13-DER	3F	26	32	26.5	32	M20*1.0	4	20	24	25	Ø20.1

INT13-DEE

Waterproof panel mount receptacle, code (1, 2, 3), nut fixing



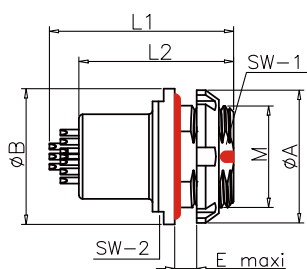
Reference		Dimensions (mm)							
Model	Series	A	L1	E	M	C	SW1	SW2	SW3
INT13-DEE	0F	14	22	10	M9*0.5	2.5	9	11	11
INT13-DEE	1F	18	23	12	M14*1.0	3	11	14	17
INT13-DEE	1.5F	19	25	12	M14*1.0	3	14	15	17
INT13-DEE	2F	22	22	15	M16*1.0	4	18	17	19
INT13-DEE	3F	27	33	18	M20*1.0	4	18	-	25

INT13-DBPE

Hermetic panel mount receptacle, code (1, 2, 3), nut fixing, solder or PCB type

INT13-DBPU

Waterproof panel mount receptacle, code (1, 2, 3), nut fixing, solder or PCB type



Reference		Dimensions (mm)								Panel Cut-outs
Model	Series	A	L1	L2	L3	M	D	SW2	SW3	
INT13-DBPE/U	0F	14	12	21	17	M9*0.5	3.5	8.2	11	SW 8.3/Ø9.1
INT13-DBPE/U	1F	18	18	26	21	M14*1.0	3	12	15	SW 12.1/Ø14.1
INT13-DBPE/U	1.5F	19	18	23	20	M14*1.0	3	12	15	SW 12.1/Ø14.1
INT13-DBPE/U	2F	22	20	26	23.5	M16*1.0	4	14.3	-	SW 14.4/Ø16.1
INT13-DBPE/U	3F	27	25	30	24	M20*1.0	5	18	-	SW 18.1/Ø20.1

4. INT-F Series Circular Connectors

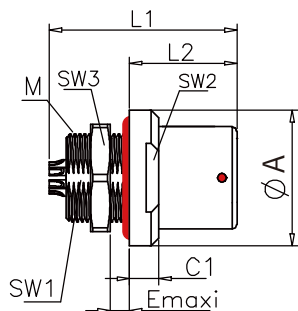
Product Size

INT13-DBEE

Hermetic fixed receptacle, code (1, 2, 3), nut fixing, protruding shell

INT13-DBEU

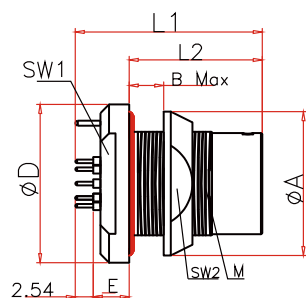
Waterproof fixed receptacle, code (1, 2, 3), nut fixing, protruding shell



Reference		Dimensions (mm)								
Model	Series	A	L1	L2	M	C1	E	SW1	SW2	SW3
INT13-DBEE/U	0F	14.5	22.5	11	M9*0.5	2.5	5	8.2	12	11
INT13-DBEE/U	1F	18	26	15.5	M14*1.0	3	4	12	14	17
INT13-DBEE/U	1.5F	19	28	13.6	M14*1.0	3	5	12	15	17
INT13-DBEE/U	2F	21	30	15.5	M16*1.0	4	4	14	17	19

INT13-MLU

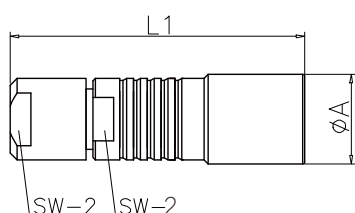
Waterproof fixed receptacle, code (1, 2), protruding shell



Reference		Dimensions (mm)								
Model	Series	A	B	L1	M	L2	D	E	SW1	SW2
INT13-MLU	0F	13	4.5	21	M10*0.5	14.2	14	3.6	11	11
INT13-MLU	1F	18	5	24	M14*1	16.5	18	4.2	15	15
INT13-MLU	1.5F	20	5.5	23	M14*1	16	19	4.2	15	17
INT13-MLU	2F	20	6.5	27	M16*1	18.5	22	5	17	17
INT13-MLU	3F	25	7	31	M20*1	22.5	27	5.5	22	22

INT13-K

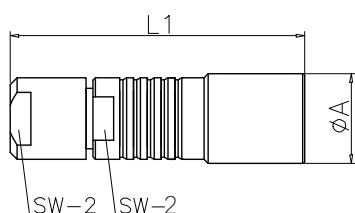
Cable mount receptacle, code (1, 2, 3), cable collet



Reference		Dimensions (mm)			
Model	Series	A	L1	SW1	SW2
INT13-K	0F	10	35	7	7
INT13-K	1F	13	43	10	10
INT13-K	1.5F	13.5	46	12	11
INT13-K	2F	16	50	12	13

INT13-KE

Waterproof cable mount receptacle, code (1, 2, 3), cable collet



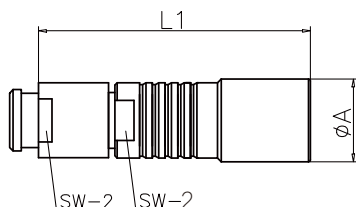
Reference		Dimensions (mm)			
Model	Series	A	L1	SW1	SW2
INT13-KE	0F	10	35	7	7
INT13-KE	1F	13	43	10	10
INT13-KE	1.5F	13.5	46	12	11
INT13-KE	2F	16	50	12	13

4. INT-F Series Circular Connectors

Product Size

INT13-K

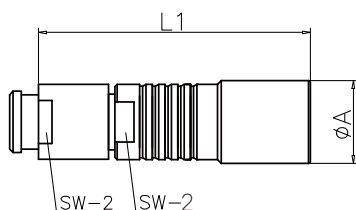
Cable mount receptacle, code (1, 2, 3), cable collet, nut for fitting bend Relief



Reference		Dimensions (mm)			
Model	Series	A	L1	SW1	SW2
INT13-K	0F	10	35	7	7
INT13-K	1F	13	43	10	10
INT13-K	1.5F	13.5	46	12	11
INT13-K	2F	16	50	12	13

INT13-KE

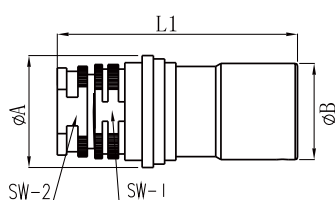
Waterproof cable mount receptacle, code (1, 2, 3), cable collet, nut for fitting bend relief



Reference		Dimensions (mm)			
Model	Series	A	L1	SW1	SW2
INT13-KE	0F	10	35	7	7
INT13-KE	1F	13	43	10	10
INT13-KE	1.5F	13.5	46	12	11
INT13-KE	2F	16	50	12	13

INT13-KS

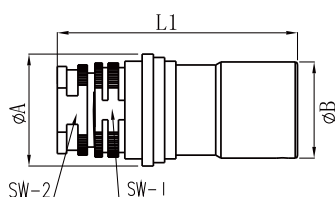
Short cable mount receptacle, code (1, 2, 3), cable collet



Reference		Dimensions (mm)				
Model	Series	A	B	L1	SW1	SW2
INT13-KS	0F	12	10	28	7	8
INT13-KS	1F	15	13	32	10	11
INT13-KS	1.5F	15.5	13.5	31	10	11
INT13-KS	2F	18	16	35	12	13

INT13-KSE

Short sealed cable mount receptacle, code (1, 2, 3), cable collet



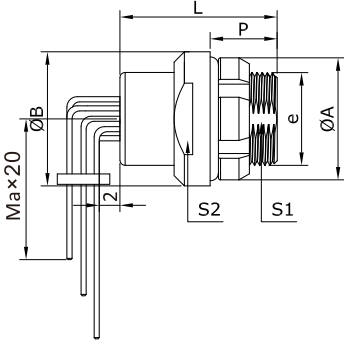
Reference		Dimensions (mm)				
Model	Series	A	B	L1	SW1	SW2
INT13-KSE	0F	12	10	28	7	8
INT13-KSE	1F	15	13	32	10	11
INT13-KSE	1.5F	15.5	13.5	31	10	11
INT13-KSE	2F	18	16	35	12	13

4. INT-F Series Circular Connectors

Product Size

INT13-DBPC

Hermetic panel mount receptacle, elbow 90°PCB contact, code (1, 2, 3)

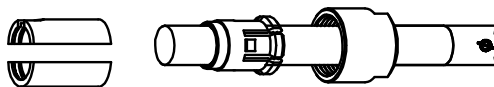


Reference		Dimensions (mm)						
Model	Series	A	B	e	L	P	S1	S2
INT13-DBPC	0F	12	14	M9*0.5	19.2	6.5	8.2	11
INT13-DBPC	1F	18	18	M14*1.0	24.8	8	12.5	15
INT13-DBPC	1.5F	18	19	M14*1.0	23.1	7	12	15
INT13-DBPC	2F	20.8	21	M16*1.0	24.2	8	14.3	16

4. INT-F Series Circular Connectors

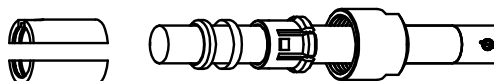
Cable Collet Size

INT13-0F



Cable dia Range	Collet Ø (mm)	Cable Clamp Set	Cable dia Range	Collet Ø (mm)	Cable Clamp Set
1.5-2.1	2.1	102 Series	3.6-4.2	4.2	102 Series
2.1-2.7	2.7	102 Series	4.2-4.7	4.7	102 Series
2.6-3.0	3.0	102 Series	4.7-5.2	5.2	102 Series
3.1-3.6	3.6	102 Series	5.0-5.5	5.5	102 Series

INT13-0F



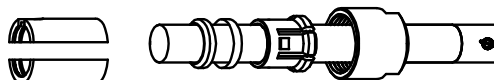
Cable dia Range	Collet Ø (mm)	Cable Clamp Set	Cable dia Range	Collet Ø (mm)	Cable Clamp Set
1.5-2.1	2.1	102 Series	3.6-4.2	4.2	102 Series
2.1-2.7	2.7	102 Series	4.2-4.7	4.7	102 Series
2.6-3.0	3.0	102 Series	4.7-5.2	5.2	102 Series
3.1-3.6	3.6	102 Series	5.0-5.5	5.5	102 Series

INT13-1F



Cable dia Range	Collet Ø (mm)	Cable Clamp Set	Cable dia Range	Collet Ø (mm)	Cable Clamp Set
1.7-2.2	2.2	103 Series	4.2-4.7	4.7	103 Series
2.2-2.7	2.7	103 Series	4.7-5.2	5.2	103 Series
2.7-3.2	3.2	103 Series	5.2-5.7	5.7	103 Series
3.2-3.7	3.7	103 Series	5.7-6.2	6.2	103 Series
3.7-4.2	4.2	103 Series	6.2-7.2	7.2	103 Series

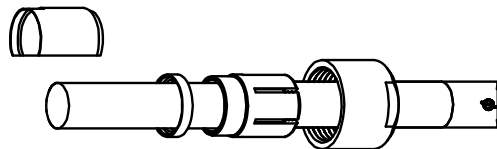
INT13-1F



Cable dia Range	Collet Ø (mm)	Cable Clamp Set	Cable dia Range	Collet Ø (mm)	Cable Clamp Set
1.7-2.2	2.2	103 Series	4.2-4.7	4.7	103 Series
2.2-2.7	2.7	103 Series	4.7-5.2	5.2	103 Series
2.7-3.2	3.2	103 Series	5.2-5.7	5.7	103 Series
3.2-3.7	3.7	103 Series	5.7-6.2	6.2	103 Series
3.7-4.2	4.2	103 Series	6.5-7.2	7.2	103 Series

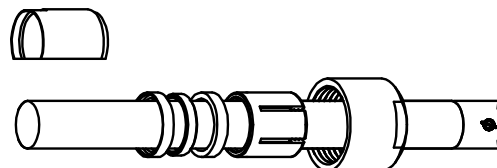
4. INT-F Series Circular Connectors

INT13-1.5F



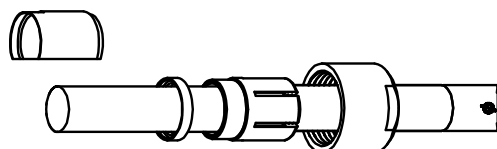
Cable dia Range	Collet Ø (mm)	Cable Clamp Set	Cable dia Range	Collet Ø (mm)	Cable Clamp Set
1.5-2.2	2.2	1031 Series	5.5-6.2	6.2	1031 Series
2.5-3.2	3.2	1031 Series	6.5-7.2	7.2	1031 Series
3.5-4.2	4.2	1031 Series	7.5-8.2	8.2	1031 Series
4.5-5.2	5.2	1031 Series			

INT13-1.5F



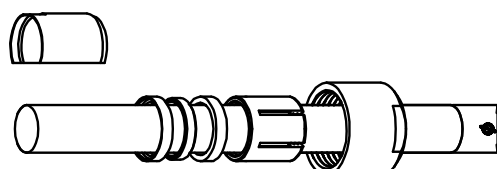
Cable dia Range	Collet Ø (mm)	Cable Clamp Set	Cable dia Range	Collet Ø (mm)	Cable Clamp Set
1.5-2.2	2.2	1031 Series	5.5-6.2	6.2	1031 Series
2.5-3.2	3.2	1031 Series	6.5-7.2	7.2	1031 Series
3.5-4.2	4.2	1031 Series	7.5-8.2	8.2	1031 Series
4.5-5.2	5.2	1031 Series			

INT13-2F



Cable dia Range	Collet Ø (mm)	Cable Clamp Set	Cable dia Range	Collet Ø (mm)	Cable Clamp Set
1.5-2.2	2.2	104 Series	5.5-6.2	6.2	104 Series
2.5-3.2	3.2	104 Series	6.5-7.2	7.2	104 Series
3.5-4.2	4.2	104 Series	7.5-8.2	8.2	104 Series
4.5-5.2	5.2	104 Series	8.5-9.2	9.2	104 Series

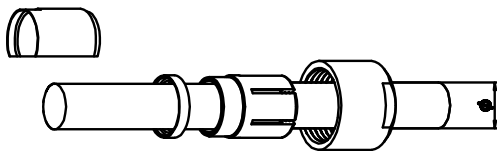
INT13-2F



Cable dia Range	Collet Ø (mm)	Cable Clamp Set	Cable dia Range	Collet Ø (mm)	Cable Clamp Set
1.5-2.2	2.2	104 Series	5.5-6.2	6.2	104 Series
2.5-3.2	3.2	104 Series	6.5-7.2	7.2	104 Series
3.5-4.2	4.2	104 Series	7.5-8.2	8.2	104 Series
4.5-5.2	5.2	104 Series	8.5-9.2	9.2	104 Series

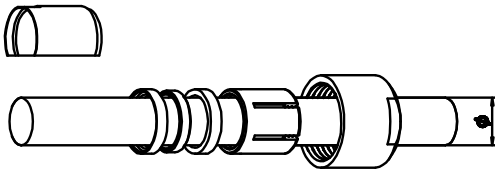
4. INT-F Series Circular Connectors

INT13-3F



Cable dia Range	Collet Ø (mm)	Cable Clamp Set	Cable dia Range	Collet Ø (mm)	Cable Clamp Set
2.5-3.2	3.2	105 Series	7.5-8.2	8.2	105 Series
3.5-4.2	4.2	105 Series	8.5-9.2	9.2	105 Series
4.5-5.2	5.2	105 Series	9.5-10.2	10.2	105 Series
5.5-6.2	6.2	105 Series	10.5-11.2	11.2	105 Series
6.5-7.2	7.2	105 Series	11.5-12.2	12.2	105 Series

INT13-3F

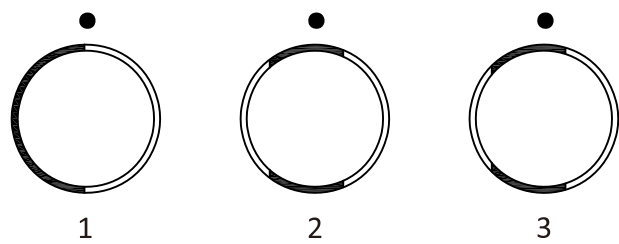


Cable dia Range	Collet Ø (mm)	Cable Clamp Set	Cable dia Range	Collet Ø (mm)	Cable Clamp Set
2.5-3.2	3.2	105 Series	7.5-8.2	8.2	105 Series
3.5-4.2	4.2	105 Series	8.5-9.2	9.2	105 Series
4.5-5.2	5.2	105 Series	9.5-10.2	10.2	105 Series
5.5-6.2	6.2	105 Series	10.5-11.2	11.2	105 Series
6.5-7.2	7.2	105 Series	11.5-12.2	12.2	105 Series

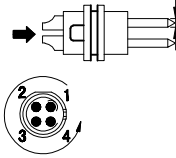
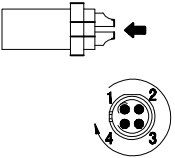
4. INT-F Series Circular Connectors

Code option

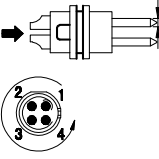
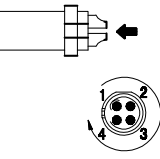
Code 1 is standard



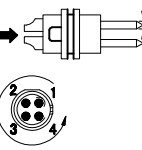
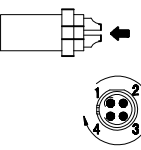
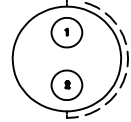
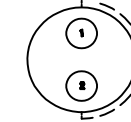
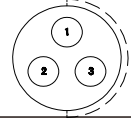
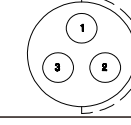
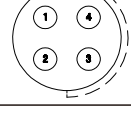
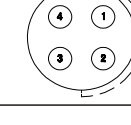
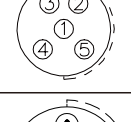
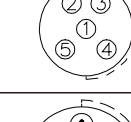
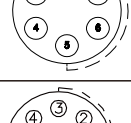
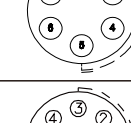
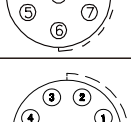
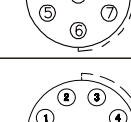
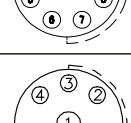
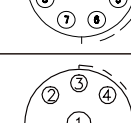
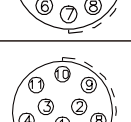
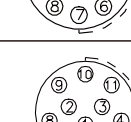
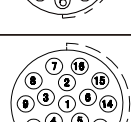
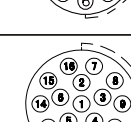
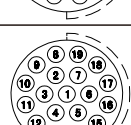
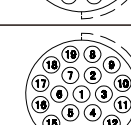
INT13-F Series Multipole Layout

	Male contact	Female contact									
			Code	Contact No.	ØA(MM)	Solder contact	PCB straight contact	PCB elbow contact	Test voltage(contact -shell)/v AC-rms	Test voltage(contact -contact)/v AC-rms	Rated current /A
0F			051	2	0.9	●	●	●	1.30	1.05	10.0
			052	3	0.9	●	●	●	1.20	0.90	8.0
			053	4	0.7	●	●	●	0.85	0.70	7.0
			054	5	0.7	●	●	●	1.00	0.70	6.5
			056	7	0.5	●	●	●	0.80	0.70	2.5
			059	9	0.5	●	●	●	0.60	0.50	2.0

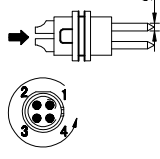
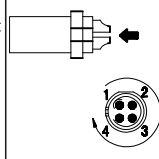
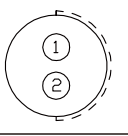
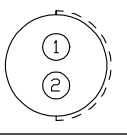
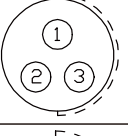
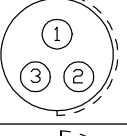
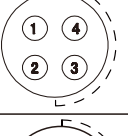
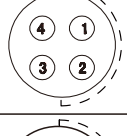
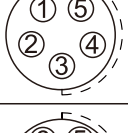
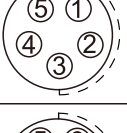
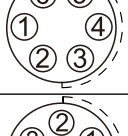
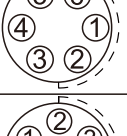
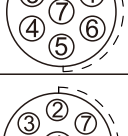
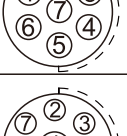
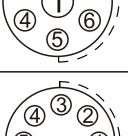
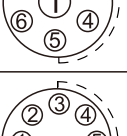
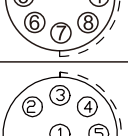
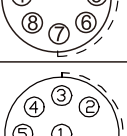
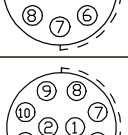
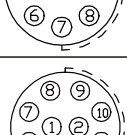
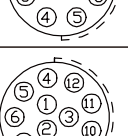
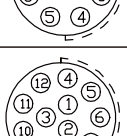
4. INT-F Series Circular Connectors

	Male contact 	Female contact 									
			Code	Contact No.	ØA(MM)	Solder contact	PCB straight contact	PCB elbow contact	Test voltage(contact -shell)k/v AC-rms	Test voltage(contact -contact)k/v AC-rms	Rated current/A
1F			051	2	1.3	●	●	●	1.50	1.35	15.0
			052	3	1.3	●	●	●	1.30	1.55	12.0
			053	4	0.9	●	●	●	1.35	1.45	10.0
			054	5	0.9	●	●	●	1.25	1.15	9.0
			056	6	0.7	●	●	●	1.05	1.2	7.0
			057	7	0.7	●	●	●	0.95	1.05	7.0
			058	8	0.7	●	●	●	0.95	1.15	5.0
			010	10	0.5	●	●	●	0.90	1.50	2.5
			062	12	0.5	●	●	●	0.80	1.2	2.0
			065	16	0.5	●	●	●	0.80	1.25	1.5
1.5F			010	10	0.7	●	●	●	1.4	1.5	4.5
			012	12	0.7	●	●	●	1.4	1.5	4.2
			019	19	0.7	●	●	●	0.9	1.2	2.5

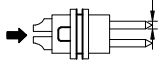
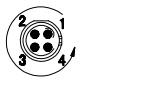
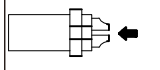
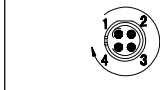
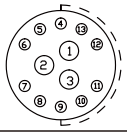
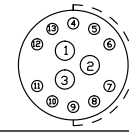
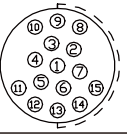
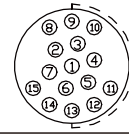
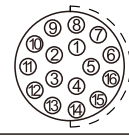
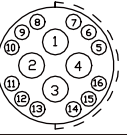
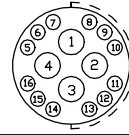
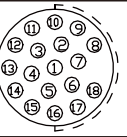
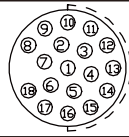
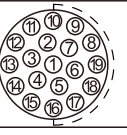
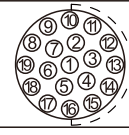
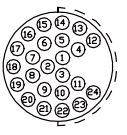
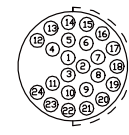
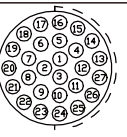
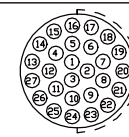
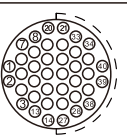
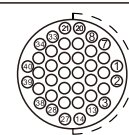
4. INT-F Series Circular Connectors

	Male contact 	Female contact 									
			Code	Contact No.	ØA(MM)	Solder contact	PCB straight contact	PCB elbow contact	Test voltage(contact-shell)/V AC-rms	Test voltage(contact-contact)/V AC-rms	Rated current /A
2F			051	2	1.6	●	●	●	1.80	2.20	20
			040	3	1.6	●	●	●	1.6	2.0	18.0
			037	4	1.3	●	●	●	1.80	2.20	15
			087	5	1.3	●	●	●	1.75	2.20	14
			065	6	0.9	●	●	●	1.7	2.0	6.5
			054	7	0.9	●	●	●	1.50	1.80	6.5
			066	8	0.9	●	●	●	1.50	1.50	6.20
			055	9	1 1.3	●	●	●	2.4	2.2	12
		8 0.9			6.0						
				056	11	0.9	●	●	●	1.5	1.4
			086	16	0.7	●	●	●	1.0	1.50	4.0
			092	19	0.7	●	●	●	0.80	1.20	3.50

4. INT-F Series Circular Connectors

	Male contact	Female contact									
											
			Code	Contact No.	ØA(MM)	Solder contact	PCB straight contact	PCB elbow contact	Test voltage(contact-shell)/v AC-rms	Test voltage(contact-contact)/v AC-rms	Rated current /A
3F			087	2P	3.0	●	●	●	2.5	3.0	25A
			052	3P	2.0	●	●	●	2.0	2.5	23A
			053	4P	2.0	●	●	●	2.0	2.5	16A
			064	5P	1.6	●	●	●	1.8	2.2	16A
			065	6P	1.6	●	●	●	1.8	2.2	16A
			066	7P	1.6	●	●	●	1.8	2.2	16A
			054	7P (6+1)	2.0 1.3	●	●	●	3.0	2.0	16A 6A
			057	8P	1.3	●	●	●	1.7	2.0	16A
			067	8P (9-1)	1.3	●	●	●	1.7	2.0	16A
			062	10P	1.3	●	●	●	1.7	2.0	16A
			069	12P	1.3	●	●	●	1.7	2.0	16A

4. INT-F Series Circular Connectors

	Male contact  	Female contact  									
			Code	Contact No.	ØA(MM)	Solder contact	PCB straight contact	PCB elbow contact	Test voltage(contact-shell)/v AC-rms	Test voltage(contact-contact)/v AC-rms	Rated current /A
3F			104	13P (10+3)	1.3 0.7	●	●	●	1.5	1.3	16A
			058	15P	0.9	●	●	●	1.6	1.4	7A
			060	16P	0.9	●	●	●	1.6	1.4	16A
			056	16P (12+4)	1.6 0.7	●	●	●	1.6	1.3	16A
			038	18P (19-1)	0.9	●	●	●	1.4	1.6	16A
			086	19P	0.9	●	●	●	1.4	1.6	5A
			093	24P	0.7	●	●	●	1.2	1.5	4A
			102	27P	0.7	●	●	●	1.2	1.5	3A
			122	40P	0.5	●	●	●	1.2	0.9	1A

5. INT-S Series Half-Moon Connectors

Plug:



INT13-TFA



INT13-TFA(Z)

Receptacle:



INT13-ZRA



INT13-DCA



INT13-DCA(Z)



INT13-ZPL



INT13-ZXP

5. INT-S Series Half-Moon Connectors

Push-Pull Self-Latching Connection System



Drawing	Specification
	Engaging The self-latching system allows the connector to be mated by simply pushing the plug into the receptacle.
	Latched Once firmly latched, the connection cannot be broken by pulling on the cable or any other component part other than the outer release sleeve.
	Disengaging When required, the connector is disengaged by a single axial pull on the outer release sleeve. This first disengage the latches and then withdraws the plug from the socket.

5. INT-S Series Half-Moon Connectors

S Series Half-Moon Connectors with the Following Main Features

1. Push-Pull self-latching connection system
2. Solder contacts
3. Multipole up to 18 contacts
4. Polarization by stepped insert (half-moon) for alignment
5. 360° screening for full EMC shielding
6. High-density installation for saving space

Technical Characteristics

Mechanical and Climatical

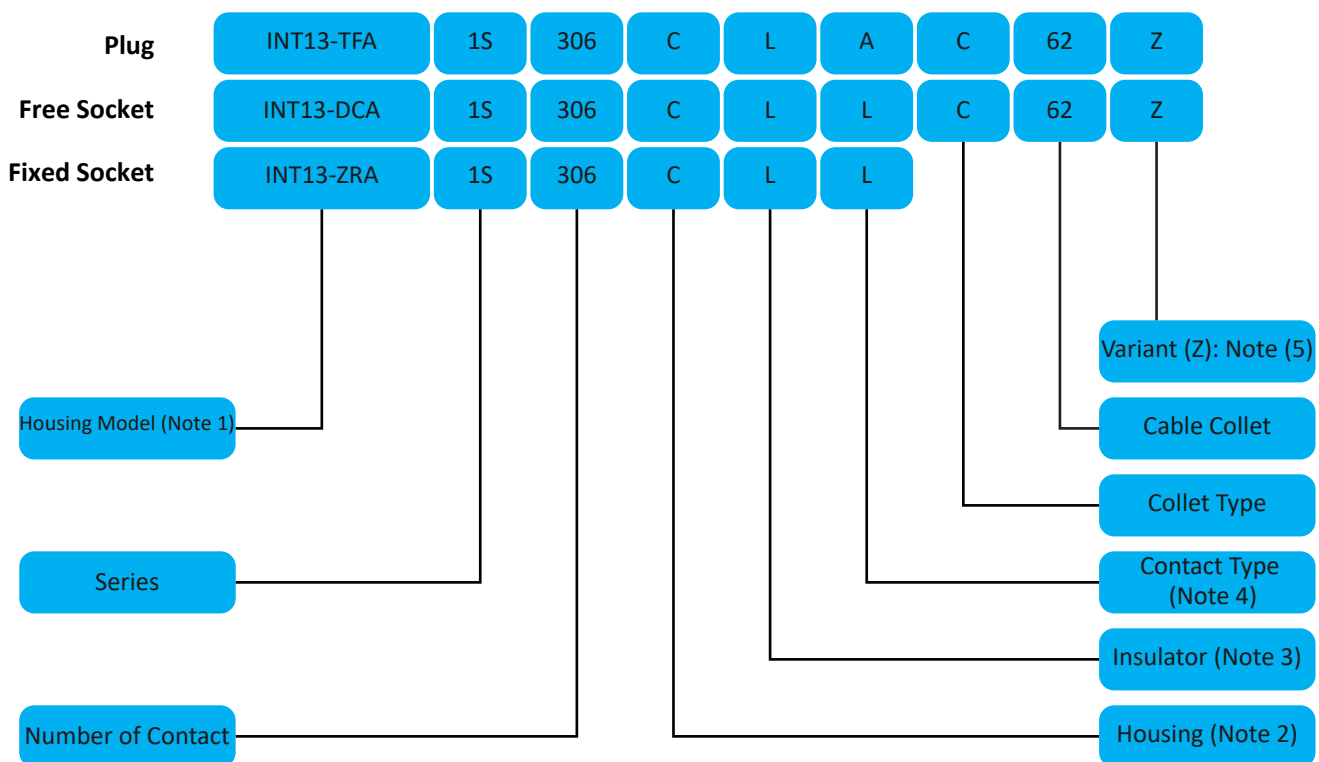
Characteristics	Value	Standard
Endurance	>5000 cycles	IEC 60512-5 test 9a
Humidity	Up to 95% at 60°C	
Temperature Range	-40°C, +150°C	
Resistance to Vibration	10-2000Hz, 15g	IEC 60512-4 test 6d
Shock Resistance	100g, 6ms	IEC 60512-4 test 6c
Salt Spray Corrosion Test	>96h	IEC 60512-6 test 11f
Protection Index (mated)	IP 50	IEC 60529
Climatical category	55/175/21	IEC 60068-1

Electrical

Characteristics		Value	Standard
Shielding Efficiency	at 10 MHZ	>5 dB	IEC 60619-1-3
	at 1 GHZ	>80 dB	IEC 60619-1-3

5. INT-S Series Half-Moon Connectors

Part Numbering System



*Note 1:

INT13-TFA.1S.306.CLAC62 = 1S 6 pins straight plug, half-moon insert, pearl chrome plated brass housing, PPS insulator, 3 male and 3 female soldering contact type, 6.0 mm cable collet, nut for fitting bend relief

INT13-DCA.1S.306.CLLC62Z = 1S 6 pins cable mounted plug, half-moon insert, pearl chrome plated brass housing, PPS insulator, 3 male and 3 female soldering contact type, 6.0 mm cable collet, nut for fitting bend relief

*NOTE: To order a model with cable collet and nut for fitting a bend relief, a letter "Z" is in the variant position.

*Note 2:

C=Brass plated chrome
 K=Brass plated black chrome
 N=Brass plated nickel
 T=Stainless Steel
 L=Aluminum alloy anodized
 H=ABS/Brass (only for ZPX/ZXG)

*Note 3:

L=PPS
 T=PTFE
 P=PEEK

5. INT-S Series Half-Moon Connectors

*Note 4:

A=Male soldering contacts

L=Female soldering contacts

D=Male straight PCB contacts

N=Female straight PCB contacts

V=Female 90° PCB contacts

*Note 5:

To request a model that includes a nut for fitting the bend relief, designate the variant position with the letter "Z" and include the bend relief part numbers INT13-GMA.

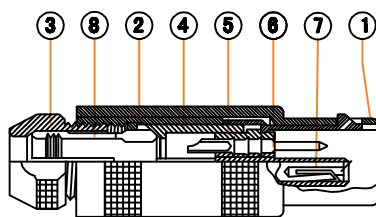
Bend relief color:

N=Black G=Gray A=Blue R=Red J=Yellow V=Green

Part Section Showing Internal Components

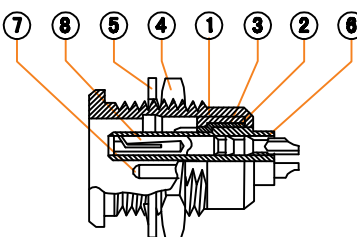
Straight Plug

- ① Outer Shell
- ② Latch Sleeve
- ③ Collet Nut
- ④ Center-Piece
- ⑤ Insulator
- ⑥ Male Contact
- ⑦ Female Contact
- ⑧ Collet



Fixed Receptacle

- ① Outer Shell
- ② Earthing Crown
- ③ Retaining Ring
- ④ Hexagonal Nut
- ⑤ Locking Washer
- ⑥ Insulator
- ⑦ Male Contact
- ⑧ Female Contact

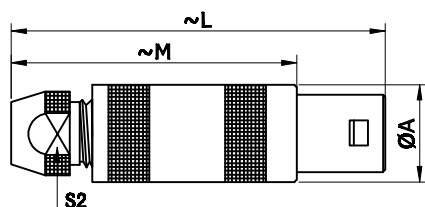


5. INT-S Series Half-Moon Connectors

Product Size

INT13-TFA

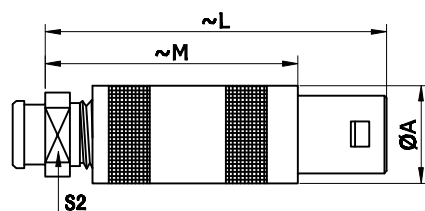
Straight plug, cable collet



Reference		Dimensions (mm)			
Model	Series	A	L	M	S2
INT13-TFA	00S	6.4	26.0	18.0	4.5
INT13-TFA	0S	9.0	34.5	24.5	6.5
INT13-TFA	1S	12.0	42.5	31.5	8.5
INT13-TFA	2S	14.8	52.0	40.0	11.0
INT13-TFA	3S	17.8	61.0	46.0	14.0

INT13-TFA

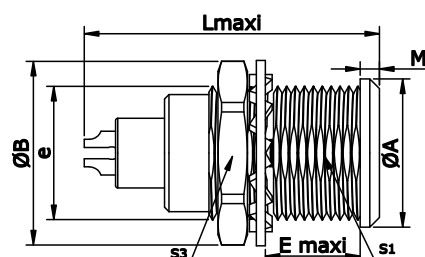
Straight plug, cable collet, nut for fitting a bend relief



Reference		Dimensions (mm)			
Model	Series	A	L	M	S2
INT13-TFA	00S	6.4	26.0	18.0	4.5
INT13-TFA	0S	9.0	34.5	24.5	6.5
INT13-TFA	1S	12.0	42.5	31.5	8.5
INT13-TFA	2S	14.8	52.0	40.0	11.0
INT13-TFA	3S	17.8	61.0	46.0	14.0

INT13-ZRA

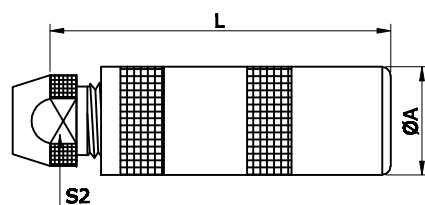
Panel mount fixed receptacle, nut fixing



Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	M	S1	S3
INT13-ZRA	00S	8.0	10.2	M7 * 0.5	5.5	14.5	1.0	6.3	9.0
INT13-ZRA	0S	10.0	12.4	M9 * 0.6	7.0	17.5	1.2	8.2	11.0
INT13-ZRA	1S	14.0	15.8	M12 * 1.0	7.5	20.2	1.5	10.5	14.0
INT13-ZRA	2S	18.0	19.2	M15 * 1.0	8.5	24.5	1.8	13.5	17.0
INT13-ZRA	3S	22.0	25.0	M18 * 1.0	11.5	29.0	2.0	16.5	22.0

INT13-DCA

Free cable receptacle, cable collet

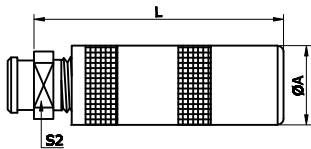


Reference		Dimensions (mm)		
Model	Series	A	L	S2
INT13-DCA	00S	6.5	25.0	4.5
INT13-DCA	0S	8.9	33.5	6.5
INT13-DCA	1S	11.9	40.5	8.5
INT13-DCA	2S	14.8	50.0	11.0
INT13-DCA	3S	17.8	59.0	14.0

5. INT-S Series Half-Moon Connectors

INT13-DCA

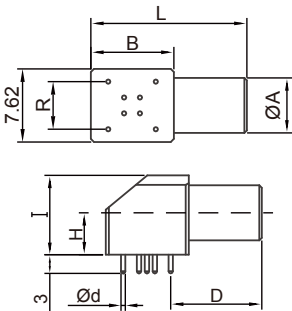
Free cable receptacle, cable collet, nut for fitting a bend relief



Reference		Dimensions (mm)		
Model	Series	A	L	S2
INT13-DCA	00S	6.5	25.0	6
INT13-DCA	0S	8.9	33.5	7
INT13-DCA	1S	11.9	40.5	9
INT13-DCA	2S	14.8	50.0	12.0
INT13-DCA	3S	17.8	59.0	14.0

INT13-ZPL

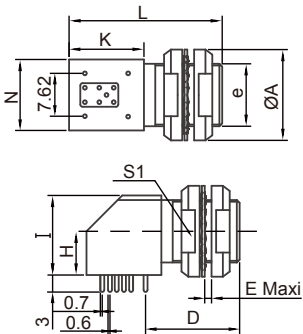
Elbow (90°) receptacle for printed circuit, solder or screw fixing



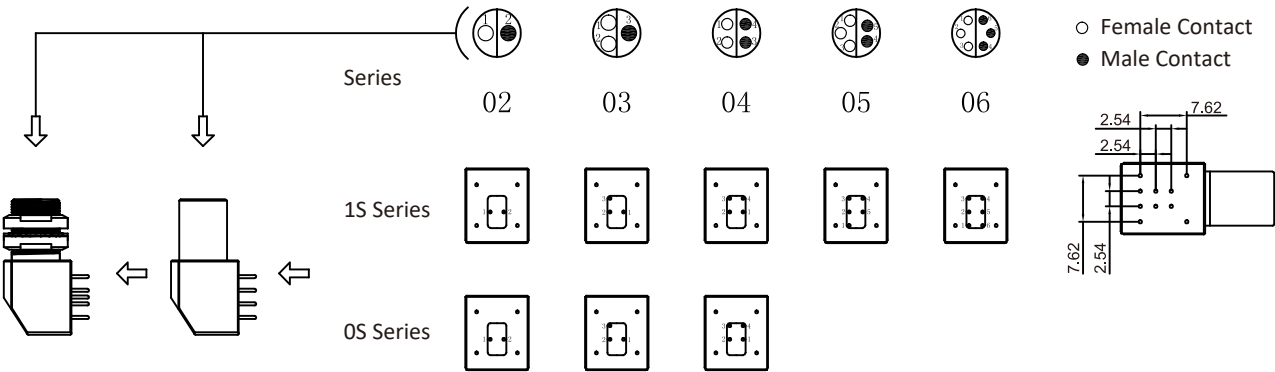
Reference		Dimensions (mm)							
Model	Series	A	B	N	I	H	D	d	L
INT13-ZPL	0S	9	14.2	12	12.7	6.7	14.6	0.7	25
INT13-ZPL	1S	11	13.3	13	14.2	7.5	16.6	0.7	27

INT13-ZXP

Elbow (90°) receptacle for printed circuit, solder or screw fixing, back panel mounting

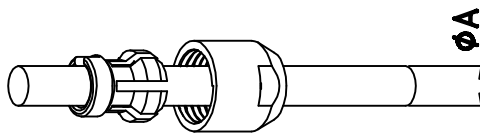


Reference		Dimensions (mm)									
Model	Series	A	K	N	I	H	A	L	D	S1	e
INT13-ZXP	0S	12	14.2	12	12.7	6.7	12	25	14.6	10	M9*0.5
INT13-ZXP	1S	14	13.3	13	14.2	7.5	15	27	16.6	13	M11*0.5



5. INT-S Series Half-Moon Connectors

Cable Collet Size



Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	φA	Max	Min
0S-032	32	3.2	3.2	>2.2
0S-042	42	4.2	4.2	>3.2
0S-052	52	5.2	5.2	>4.2

Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	φA	Max	Min
1S-042	42	4.2	4.2	>2.5
1S-052	52	5.2	5.2	>4.2
1S-062	62	6.2	6.2	>5.2
1S-072	72	7.2	7.2	>6.2

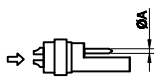
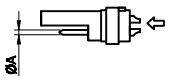
Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	φA	Max	Min
2S-042	42	4.2	4.2	>3.2
2S-052	52	5.2	5.2	>4.2
2S-062	62	6.2	6.2	>5.2
2S-072	72	7.2	7.2	>6.2
2S-082	82	8.2	8.2	>7.2
2S-087	87	8.7	8.7	>7.7

Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	φA	Max	Min
3S-042	42	4.2	4.2	>3.2
3S-057	57	5.7	5.7	>4.7
3S-072	72	7.2	7.2	>6.2
3S-087	87	8.7	8.7	>7.7
3S-097	97	9.7	9.7	>8.7
3S-011	11	11.0	11.0	>10.0

INT13-S Series Multipole Layout

	Male contact	Female contact	Insulator	Contact No.	φA(MM)	Contact type			Test voltage (contact - contact) K/V rms	Test voltage (contact - shell) K/V rms	Rated current (A)
						Solder contact	PCB straight contact	PCB elbow contact			
0S			302	2	0.9	●	●	●	1.50	2.10	10.0
			303	3	0.7	●	●	●	1.00	1.50	7.0
			304	4	0.7	●	●	●	1.00	1.50	7.0

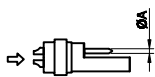
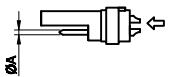
5. INT-S Series Half-Moon Connectors

	Male contact 	Female contact 	Insulator	Contact No.	ØA(MM)	Contact type			Test voltage (contact - contact) K/V rms	Test voltage (contact - shell) K/V rms	Rated current (A)
						Solder contact	PCB straight contact	PCB elbow contact			
1S			302	2	1.3	●	○	○	1.20	1.80	15.0
			303	3	0.9	●	●	○	1.20	1.80	10.0
			304	4	0.9	●	●	●	1.20	1.80	10.0
			305	2 3	0.9 0.7	●	●	●	1.50 1.50	2.10 2.10	10.0 7.0
			306	6	0.7	●	●	●	1.50	2.10	7.0
2S			302	2	1.6	●	○	○	1.70	2.40	20.0
			303	3	1.3	●	○	○	1.50	2.10	15.0
			304	4	1.3	●	○	○	1.70	2.40	15.0
			305	5	1.3	●	○	○	1.50	2.10	13.0
			306	6	1.3	●	○	○	1.50	2.10	12.0
			307	3 4	1.3 0.9	●	○	○	0.80 0.80	1.20 1.20	12.0 9.0
			308	8	0.9	●	○	○	0.80	1.20	9.0
			310	10	0.9	●	○	○	0.80	1.20	7.0

- First choice alternative
- Special order alternative

5. INT-S Series Half-Moon Connectors

3S

Male contact 	Female contact 	Insulator	Contact No.	ØA(MM)	Contact type			Test voltage (contact - contact) K/V rms	Test voltage (contact - shell) K/V rms	Rated current (A)
					Solder contact	PCB straight contact	PCB elbow contact			
		302	2	2.0	●	○	-	3.0	4.2	23
		303	3	2.0	●	○	-	1.5	2.1	20
		304	4	2.0	●	○	-	1.5	2.1	18
		305	2	2.0	●	○	-	1.5	2.1	18
			3	1.3				1.5	2.1	14
		306	6	1.3	●	●	-	2.1	3.0	14
		307	7	1.3	●	●	-	1.0	1.5	12
		308	8	1.3	●	●	○	1.0	1.5	10
		310	10	1.3	●	●	●	1.0	1.5	9
		312	12	0.9	●	●	●	1.5	2.1	8
		313	13	0.9	●	●	○	1.5	2.1	8
		314	14	0.9	●	●	●	1.5	2.1	7
		316	16	0.9	●	●	●	1.0	1.5	7
		318	18	0.9	●	●	○	1.0	1.5	6

- First choice alternative
- Special order alternative

6. INT-S & E Series Coaxial Connector

00S Plug



INT13-TFA



INT13-TFA(Z)



INT13-TLA



INT13-TLA



INT13-TFS

00S Receptacle



INT13-ZRA



INT13-DCA



INT13-DCA(Z)



INT13-ZRN



INT13-ZPL



INT13-ZPS



INT13-ZPA

0S Plug



INT13-TFA



INT13-TFA(Z)

0S Receptacle



INT13-ZRA

1S Plug



INT13-TFA



INT13-TFA (Z)



INT13-TLA

1S Receptacle



INT13-ZRA

2S Plug



INT13-TFA



INT13-TFA (Z)



INT13-ZRA

2S Receptacle

1E Plug (IP68)



INT13-TGG

1E Receptacle (IP68)



INT13-TGG (Z)

1E Receptacle (IP68)



INT13-ZGG

6. INT-S & E Series Coaxial Connector

Push-Pull Self-Latching Connection System



Drawing	Specification
	Engaging The self-latching system allows the connector to be mated by simply pushing the plug into the receptacle.
	Latched Once firmly latched, the connection cannot be broken by pulling on the cable or any other component part other than the outer release sleeve.
	Disengaging When required, the connector is disengaged by a single axial pull on the outer release sleeve. This first disengage the latches and then withdraws the plug from the socket.

6. INT-S & E Series Coaxial Connector

Coaxial Connector with the Following Main Features

1. Push-Pull self-latching system
2. Coaxial (50Ω and 75Ω), unipole configuration
3. M7, M9, M12, M15 size are optional
4. Fast connection, reliable performances
5. 360° screening for full EMC shielding

Technical Characteristics

Mechanical and Climatical

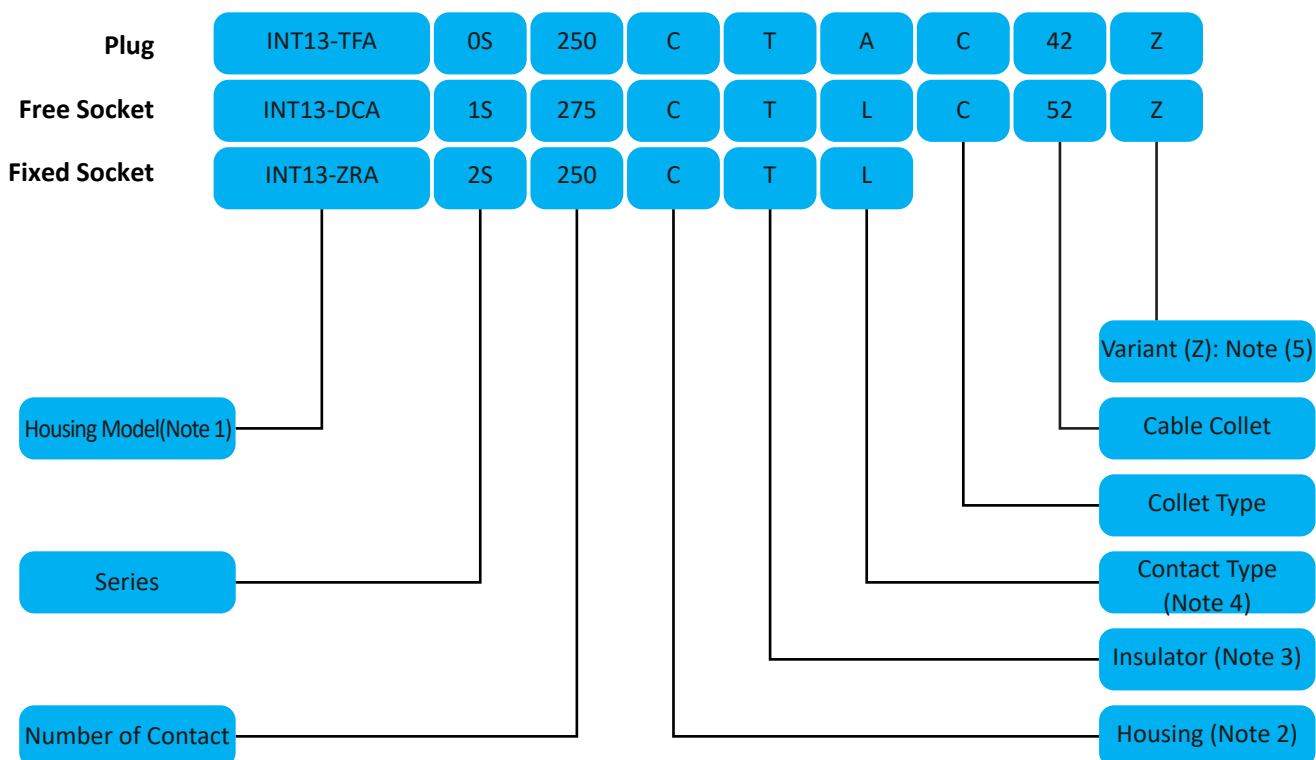
Characteristics	Value	Standard
Endurance	>5000 cycles	IEC 60512-5 test 9a
Humidity	Up to 95% at 60°C	
Temperature Range	-40°C, +150°C	
Resistance to Vibration	10-2000Hz, 15g	IEC 60512-4 test 6d
Shock Resistance	100g, 6ms	IEC 60512-4 test 6c
Salt Spray Corrosion Test	>96h	IEC 60512-6 test 11f
Protection Index (mated)	S series: IP50 E series: IP68	IEC 60529

Electrical

Characteristics		Value	Standard
Shielding Efficiency	at 10 MHZ	>75 dB	IEC 60619-1-3
	at 1 GHZ	>40 dB	IEC 60619-1-3

6. INT-S & E Series Coaxial Connector

Part Numbering System



*Note 1:

INT13-TFA.0S.250.CTAC42 = 0S unipole pins straight plug, 50 Ohm, pearl chrome plated brass housing, PTFE insulator, 4.2mm cable collet

INT13-DCA.1S.275.CTLC62Z = 1S unipole pins straight plug, 75 Ohm, pearl chrome plated brass housing, PTFE insulator, 6.2mm cable collet, nut for fitting bend relief

*NOTE: To order a model with cable collet and nut for fitting a bend relief, a letter "Z" is in the variant position.

*Note 2:

C=Brass plated chrome
K=Brass plated black chrome
N=Brass plated nickel
T=Stainless Steel
L=Aluminum alloy anodized

*Note 3:

L=PPS
T=PTFE
P=PEEK

*Note 4:

A=Male soldering contacts
L=Female soldering contacts

*Note 5:

To request a model that includes a nut for fitting the bend relief, designate the variant position with the letter "Z" and include the bend relief part numbers INT13-GMA.

Bend relief color:

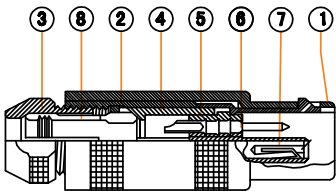
N=Black G=Gray A=Blue R=Red J=Yellow V=Green

6. INT-S & E Series Coaxial Connector

Part Section Showing Internal Components

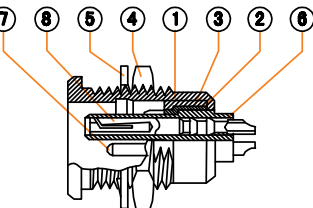
Straight Plug

- ① Outer Shell
- ② Latch Sleeve
- ③ Collet Nut
- ④ Center-Piece
- ⑤ Insulator
- ⑥ Male Contact
- ⑦ Collet

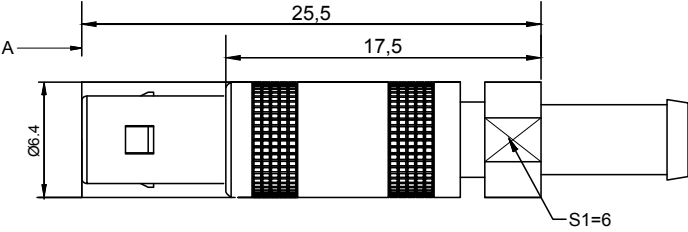
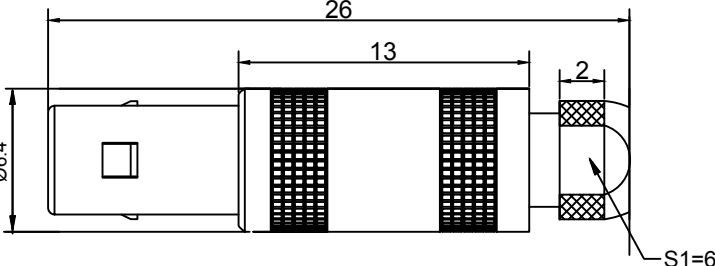


Fixed Receptacle

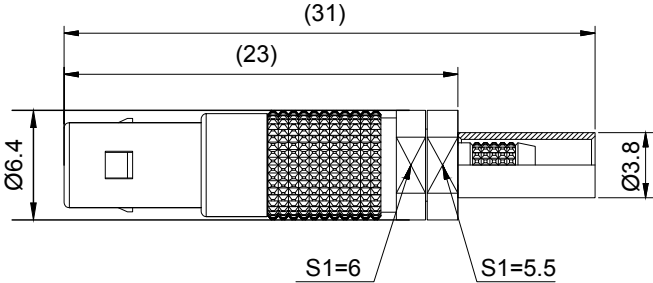
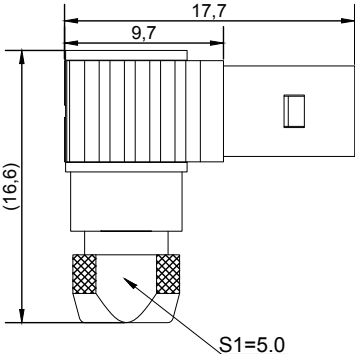
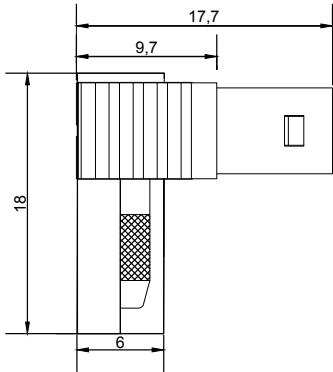
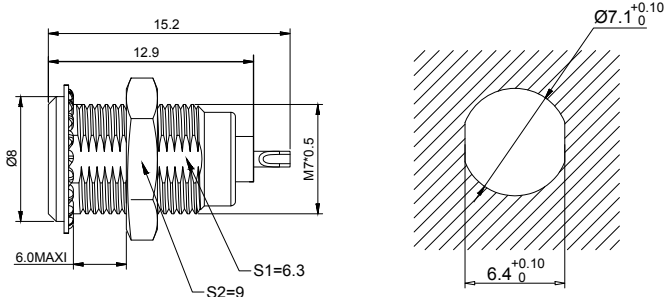
- ① Outer Shell
- ② Earthing Crown
- ③ Retaining Ring
- ④ Hexagonal Nut
- ⑤ Locking Washer
- ⑥ Insulator
- ⑦ Female Contact



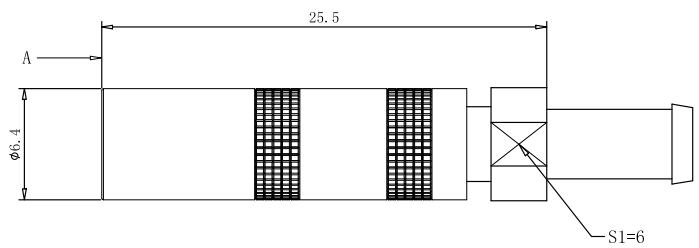
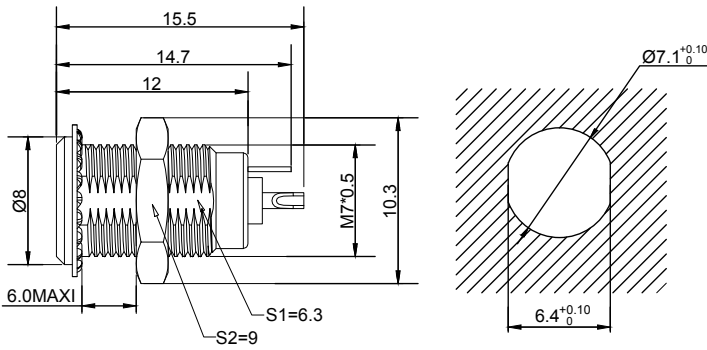
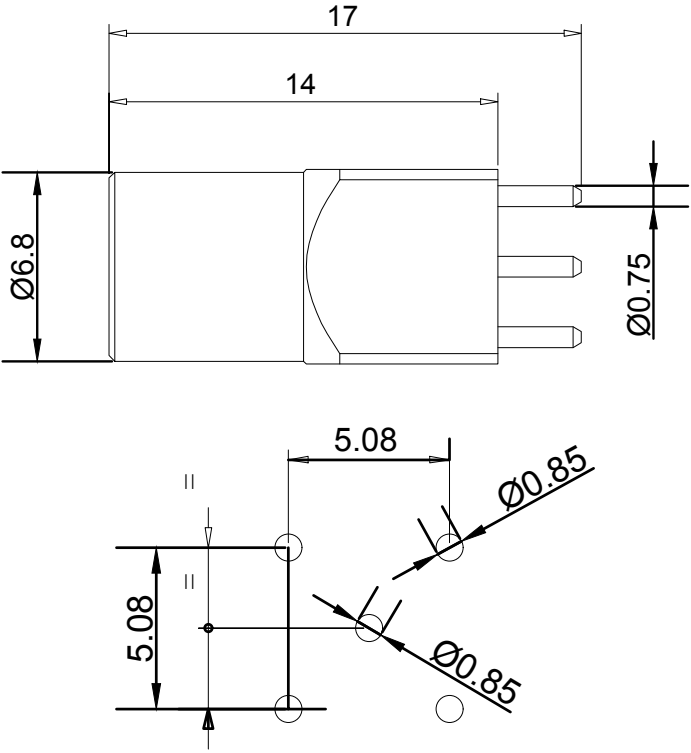
Product Size

Part Number	Product Photo	Size
INT13-TFA.00.250.CTACXXZ		
INT13-TFA.00.250.CTACXX		

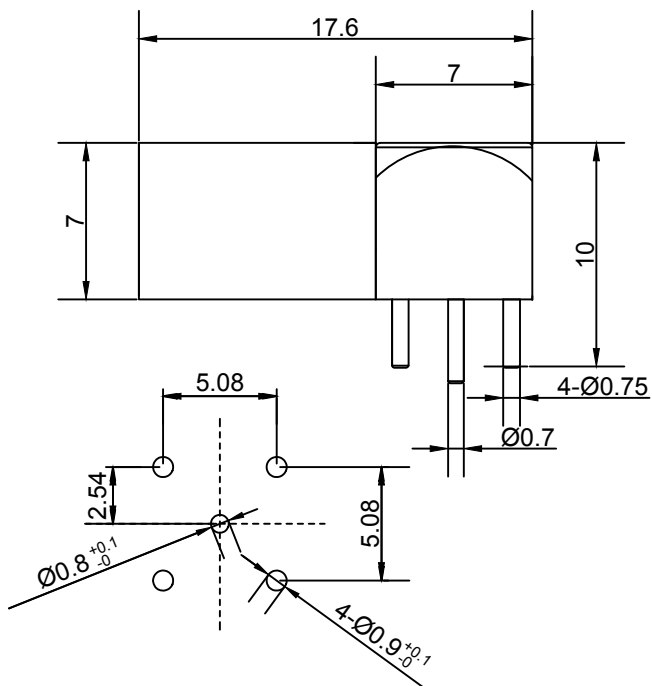
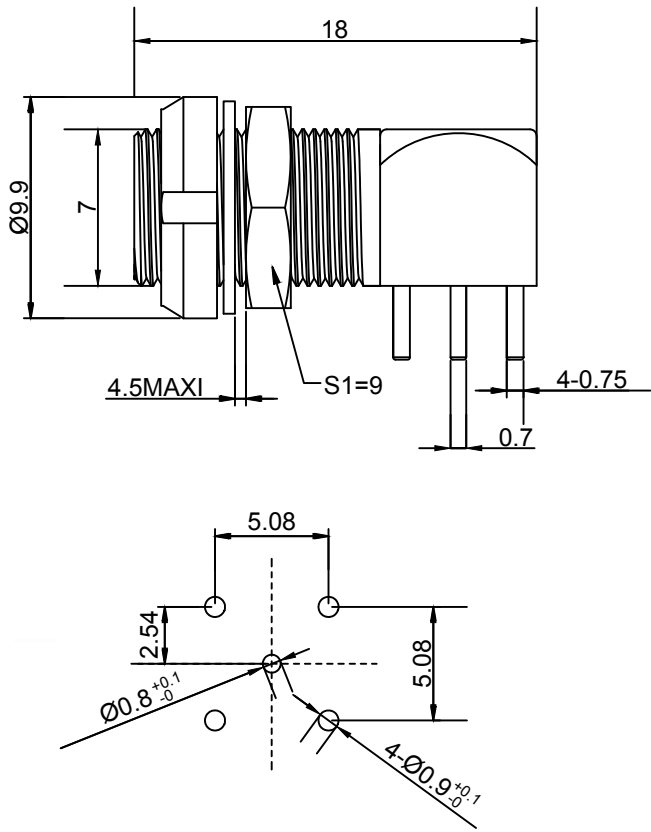
6. INT-S & E Series Coaxial Connector

Part Number	Product Photo	Size
INT13-TFS.00.250.CTAEXX		
INT13-TLA.00.250.CTACXX		
INT13-TLA.00.250.CTAEXX		
INT13-ZRA.00.250.CTL		

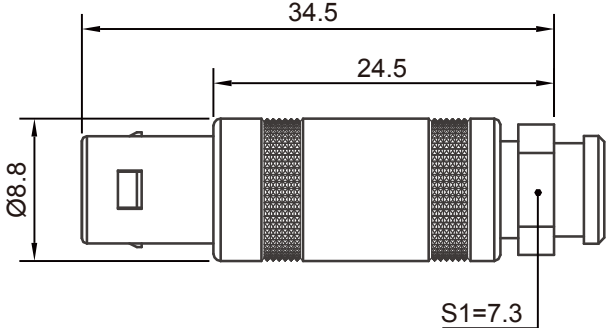
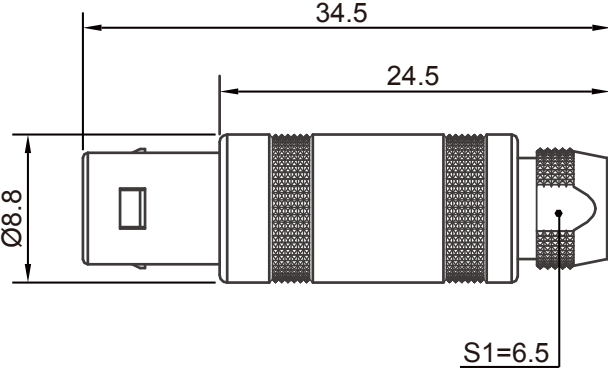
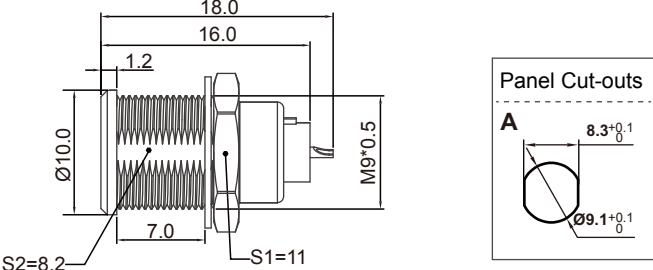
6. INT-S & E Series Coaxial Connector

Part Number	Product Photo	Size
INT13- DCA.00.250.CTLCXXZ		
INT13- ZRN.00.250.CTL		
INT13- ZPA.00.250.NTN		

6. INT-S & E Series Coaxial Connector

Part Number	Product Photo	Size
INT13 -ZPL.00.250.NTN		
INT13-ZPS.00.250.NTN		

6. INT-S & E Series Coaxial Connector

INT13-TFA.0S.250.CTACXXZ		
INT13-TFA.0S.250.CTACXX		
INT13-ZRA.0S.250.CTL		

6. INT-S & E Series Coaxial Connector

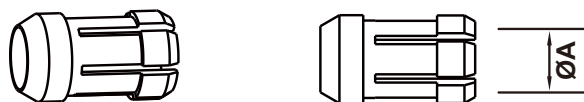
INT13-TFA.1S.250.CTACXXZ INT13-TFA.1S.275.CTACXXZ		
INT13-TFA.1S.250.CTACXX INT13-TFA.1S.275.CTACXX		
INT13-TLA.1S.250.CTACXX INT13-TLA.1S.275.CTACXX		
INT13-ZRA.1S.250.CTL INT13-ZRA.1S.275.CTL		
INT13-DCA.1S.250.CTLCXX		

6. INT-S & E Series Coaxial Connector

INT13-TFA.2S.250.CTACXXZ		
INT13-TFA.2S.250.CTACXX		
INT13-ZRA.2S.250.CTL		
INT13-TGG.1E.250.CLADXXZ		
INT13-ZGG.1E.250.CLL		

6. INT-S & E Series Coaxial Connector

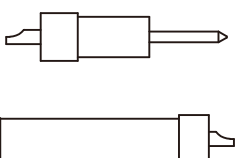
Cable Collet Size



Code	Cable Collet ϕA	Cable dia Range		Series				
	(mm)	Max	Min	00S	0S	1S	2S	1E
27	2.7	2.2	2.7	•		•		
29	2.9	2.4	2.9	•				
32	3.2	2.7	3.2	•	•			•
35	3.5	3.1	3.5			•		
40	4.0	3.6	4.0		•	•	•	•
45	4.5	4.1	4.5		•			•
50	5.0	4.6	5.0		•	•		•
60	6.0	5.1	6.0			•		•
62	6.2	5.8	6.2			•		•
65	6.5	6.1	6.5			•		
70	7.0	6.6	7.0				•	•
80	8.0	7.1	8.0				•	

6. INT-S & E Series Coaxial Connector

Coaxial Connector Unipole Layout

			Code	Ohm(Ω)	ØA(MM)	Solder contact	Voltage standing-wave ratio SWR(F=GHz)	Test voltage (KV/rms)	Work voltage (KV/rms)	Current rate (A)	IP Rating
00			250	50	0.7	1	1.09 +0.11*f/GHz	2.1	0.7	4	IP50
0S			250	50	0.9	1	1.02 +0.25*f/GHz	3.0	1.0	6	IP50
1S			250	50	1.6	1	1.01 +0.23*f/GHz	3.0	1.0	12	IP50
			275	75	1.3	1	1.02 +0.08*f/GHz	2.4	0.8	10	IP50
2S			250	50	2.0	1	1.01 +0.95*f/GHz	3.0	1.0	15	IP50
			275	75	1.6	1	1.02 +0.03*f/GHz	1.5	1.5	12	IP50
1E			250	50	0.9	1	1.09 +0.23*f/GHz	1.0	0.3	6	IP68

7. INT-2C Series Push Pull Connectors

Plug: Straight Plug



INT13-TTA



INT13-TTA

Receptacle: Fixed Panel Mount Receptacle



INT13-ZAA



INT13-ZRY



INT13-ZRA



INT13-ZCP



INT13-ZEP



INT13-MGP



INT13-MEP

Cable Mount Receptacle



INT13-DCA



INT13-DCA



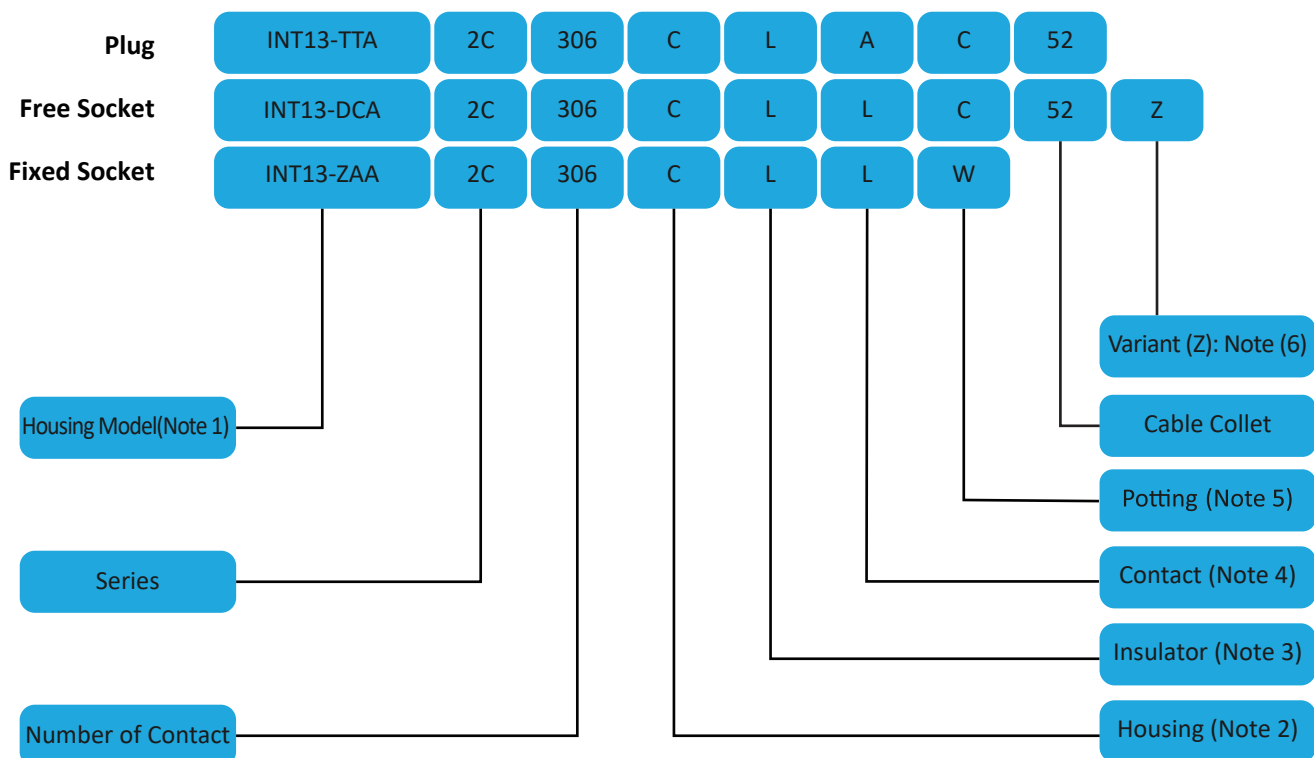
INT13-XSA

2C Series Connectors with the Following Main Features

1. Secure push-pull self-latching system design
2. Multipole types 2 to 14 contacts
3. Ultra short series (length less than 30mm)
4. 360° screening for full EMC shielding(anti-electromagnetic interference)
5. Positioning of high and low insulators to prevent insert errors

7. INT-2C Series Push Pull Connectors

Part Numbering System



*Note 1:

INT13-TTA.2C.306.CLAC52 = 2C 6 pins straight plug, half-moon insert, pearl chrome plated brass housing, PPS insulator, 3 male and 3 female soldering contact type, 5.2 mm cable collet, nut for fitting bend relief

INT13-DCA.2C.306.CLL52Z = 2C 6 pins cable mounted receptacle, half-moon insert, pearl chrome plated brass housing, PPS insulator, 3 male and 3 female soldering contact type, 5.2 mm cable collet, nut for fitting bend relief

INT13-ZAA.2C.306.CLL = 2C 6 pins fixed receptacle, half-moon insert, pearl chrome plated brass housing, PPS insulator, 3 male and 3 female soldering contact type

*Note 2:

C=Brass plated chrome

K=Brass plated black chrome (At the end of the model number, adding 'R' indicates a red dot, while adding 'W' indicates a white dot.)

N=Brass plated nickel

T=Stainless Steel

L=Aluminum alloy anodized

*Note 3:

L=PPS

T=PTFE

P=PEEK

*Note 4:

A=Male soldering contacts

L=Female soldering contacts

D=Male straight PCB contacts

N=Female straight PCB contacts

V=Female 90° PCB contacts

7. INT-2C Series Push Pull Connectors

*Note 5:

W=White silicone sealing

T=Transparent epoxy resin seal

*Note 6:

To request a model that includes a nut for fitting the bend relief, designate the variant position with the letter "Z" and include the bend relief part numbers INT13-GMA.

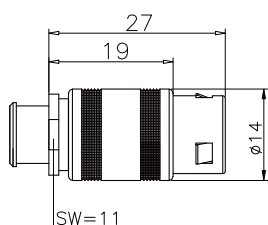
Bend relief color:

N=Black G=Gray A=Blue R=red J=Yellow V=Green

Product Size

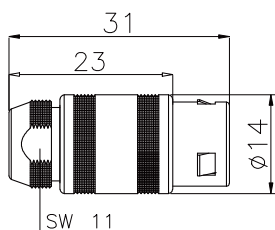
INT13-TTA

Cable mounted straight plug, cable collect, nut for fitting relief



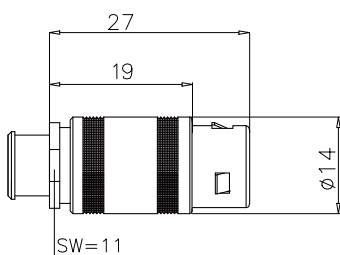
INT13-TTA

Cable mounted straight plug, cable collect



INT13-DCA

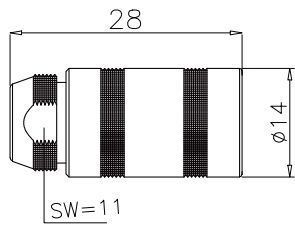
Cable mounted receptacle, cable collect, nut for fitting bend relief



7. INT-2C Series Push Pull Connectors

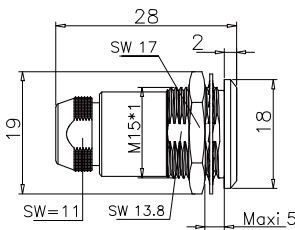
INT13-DCA

Cable mounted receptacle, cable collect



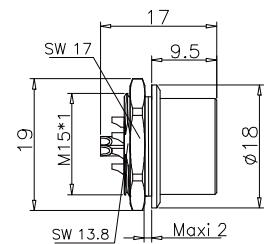
INT13-XSA

Fixed receptacle with fixed nut, cable collect, nut for fitting bend relief



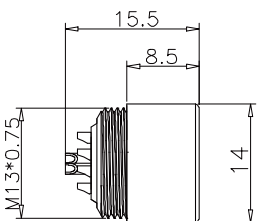
INT13-ZAA

Panel mount fixed receptacle, nut fixing



INT13-ZRY

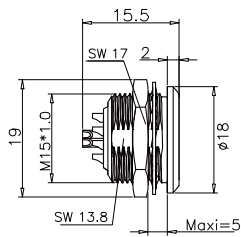
Panel mount fixed receptacle, nut fixing (fixed panel thread), and protruding shell



7. INT-2C Series Push Pull Connectors

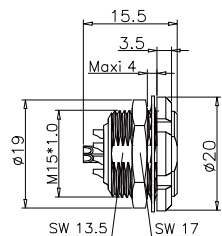
INT13-ZRA

Panel mount fixed receptacle, nut fixing



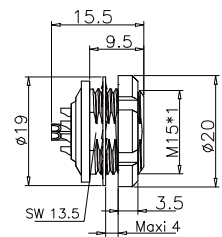
INT13-ZCP

Panel mount fixed receptacle, with two nuts
(rear panel mounting)



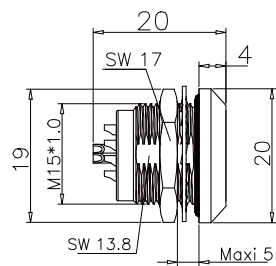
INT13-ZEP

Panel mount fixed receptacle, nut fixing, rear panel mounting



INT13-MGP

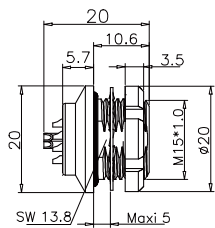
Panel mount fixed receptacle, nut fixing, watertight or
vacuum-tight



7. INT-2C Series Push Pull Connectors

INT-MEP

Panel mount fixed receptacle, nut fixing, watertight or vacuum-tight (rear panel mounting)



INT-2C Series Multipole Layout

		Male contact	Female contact	Insulator	Contact No.	øA(MM)	Contact type		Solder contact		Rated current (A)
							Solder contact	Crimp contact	Test voltage (contact - contact) K/V rms	Test voltage (contact - shell) K/V rms	
2C				302	2	1.6	●	○	1.8	2.4	20
				303	3	1.3	●	○	1.5	2.1	15
				304	4	1.3	●	○	1.8	2.4	15
				306	6	1.3	●	○	1.5	2.1	12
				308	8	0.7	●	●	0.95	1.35	7
				310	10	0.7	●	●	0.95	1.35	7
				312	12	0.7	●	●	0.60	0.9	5
				314	14	0.7	●	●	0.60	0.9	5

8. INT-C Series Push Pull Connectors

Plug: Straight Plug



INT13-TGG



INT13-TGG



INT13-TRG

Receptacle: Fixed Panel Mount Receptacle



INT13-MEG



INT13-ZHG

Cable Mount Receptacle



INT13-DHG



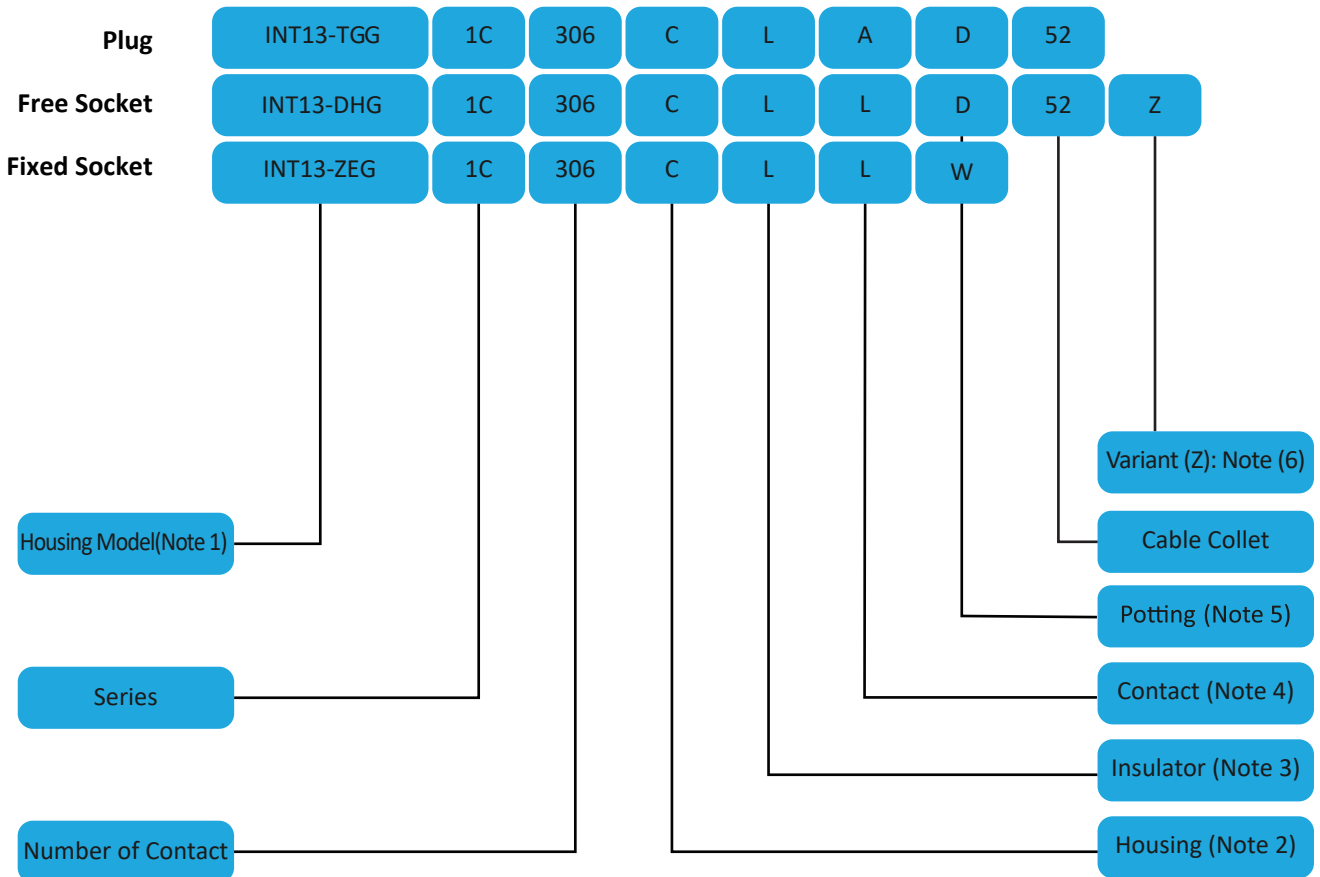
INT13-DHG

C Series Connectors with the Following Main Features

1. C series can be interchangeably IP50 B series
2. Secure split type push-pull self-locking system design
3. Multipole types 2 to 14 contacts
4. Solder contact, PCB contact(straight or elbow)
5. High-density installation saves space
6. 360° screening for full EMC shielding
7. Positioning key to avoid insertion errors
8. The receptacle is vacuum sealed structure, suitable for equipment requiring sealing

8. INT-C Series Push Pull Connectors

Part Numbering System



*Note 1:

INT13-TGG.1C.306.CLAD52 = 1C 6 pins straight plug, G key (alpha=0), pearl chrome plated brass housing, PPS insulator, male soldering contact type, 5.2 mm cable collet

INT13-DHG.1C.306.CLLD52Z = 1C 6 pins cable mounted receptacle, G key (alpha=0), pearl chrome plated brass housing, PPS insulator, female soldering contact type, 5.2 mm cable collet, nut for fitting bend relief

INT13-ZEG.1C.306.CLL = 1C 6 pins fixed receptacle, G key (alpha=0), pearl chrome plated brass housing, PPS insulator, female soldering contact type

*Note 2:

C=Brass plated chrome

K=Brass plated black chrome (At the end of the model number, adding 'R' indicates a red dot, while adding 'W' indicates a white dot.)

N=Brass plated nickel

T=Stainless Steel

L=Aluminum alloy anodized

*Note 3:

L=PPS

T=PTFE

P=PEEK

8. INT-C Series Push Pull Connectors

***Note 4:**
A=Male soldering contacts
L=Female soldering contacts
D=Male straight PCB contacts
N=Female straight PCB contacts
V=Female 90° PCB contacts

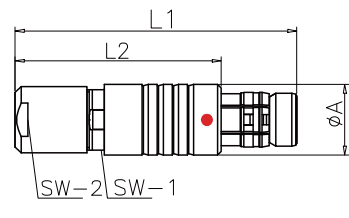
***Note 5:**
W=White silicone sealing
T=Transparent epoxy resin seal

***Note 6:**
To request a model that includes a nut for fitting the bend relief, designate the variant position with the letter "Z" and include the bend relief part numbers INT13-GMA.
Bend relief color:
N=Black G=Gray A=Blue R=red J=Yellow V=Green

Product Size

INT13-TGG

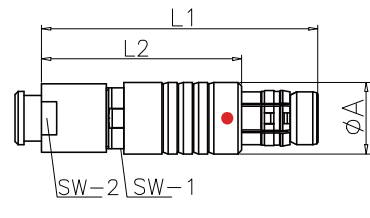
Cable mount straight plug, key (G) or keys (A...M), cable collet



Reference		Dimensions (mm)				
Series	Type	A	L1	L2	SW1	SW2
0C	INT13-TGG	9.5	37	27	8	8
1C	INT13-TGG	12	45	34	10	9
2C	INT13-TGG	15	51	39	13	13
3C	INT13-TGG	18	59	44	16	15

INT13-TGG

Cable mount straight plug, key (G) or keys (A...M), cable collet, nut for fitting bend relief

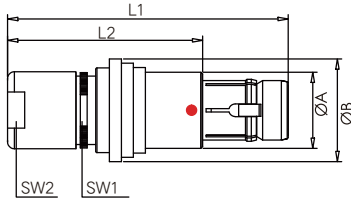


Reference		Dimensions (mm)				
Series	Type	A	L1	L2	SW1	SW2
0C	INT13-TGG	9.5	37	27	8	8
1C	INT13-TGG	12	45	34	10	9
2C	INT13-TGG	15	52	40	13	13
3C	INT13-TGG	18	58	43	16	15

8. INT-C Series Push Pull Connectors

INT13-TRG

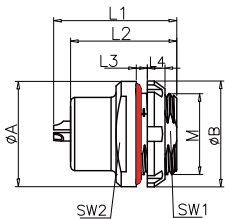
Short straight plug, key (G) or keys (A...M), cable collect



Reference		Dimensions (mm)					
Series	Type	A	B	L	M	S1	S2
0C	INT13-TRG	11.5	9.5	34.5	24.5	8	8
1C	INT13-TRG	13.5	12.5	42	30	11.5	12
2C	INT13-TRG	16.5	15.3	48	36	13	13
3C	INT13-TRG	18	18.4	48	33	16	16

INT13-MEG

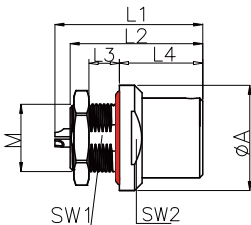
Panel mounted fixed receptacle, key (G) or keys (A...M), nut fixing, back panel mounting, watertight or vacuum - tight



Reference		Dimensions (mm)									Panel Cut-outs
Series	Type	A	B	M	L1	L2	L3	L4	SW1	SW2	
0C	INT13-MEG	14.5	14.5	M10*0.5	20.6	18.5	3	3	9	12	SW9.1 / Ø 10.1
1C	INT13-MEG	18.5	18	M14*1.0	25	21	5	3	12	15	SW12.1 / Ø 14.1
2C	INT13-MEG	21	22	M16*1.0	25	21	5	5	15	18	SW15.1 / Ø 16.1
3C	INT13-MEG	26	25	M20*1.0	32	26.5	7	4	18		SW18.1 / Ø 20.1

INT13-ZHG

Panel mount fixed receptacle, nut fixing, key (G) or keys (A...M), and protruding shell

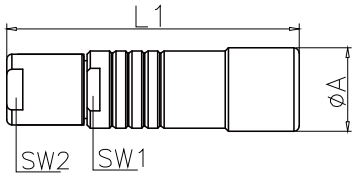


Reference		Dimensions (mm)								Panel Cut-outs
Series	Type	A	M	L1	L2	L3	L4	SW1	SW2	
0C	INT13-ZHG	14	M19*0.5	22	17.5	4	11.5	8.2	12	SW8.3 / Ø 9.1
1C	INT13-ZHG	18.5	M14*1.0	26	21	4.5	13.5	12	14	SW12.1 / Ø 14.1
2C	INT13-ZHG	21	M16*1.0	28	23	4	15.5	13.5	17	SW13.6 / Ø 16.1
3C	INT13-ZHG	24	M18*1.0	33	26.5	6	16.2	16.5	22	SW16.6 / Ø 18.1

8. INT-C Series Push Pull Connectors

INT13-DHG

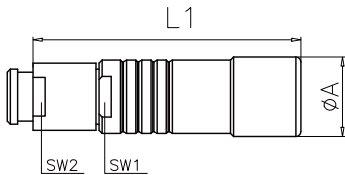
Cable mount receptacle, key (G) or keys (A...M), cable collet



Reference		Dimensions (mm)			
Series	Type	LA	A	SW1	SW2
0C	INT13-DHG	36	10	8	8
1C	INT13-DHG	43	13	10	9
2C	INT13-DHG	50	15	13	13
3C	INT13-DHG	56	18	16	15

INT13-DHG

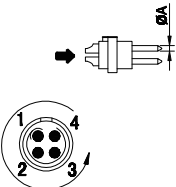
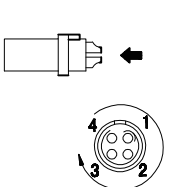
Cable mount receptacle, key (G) or keys (A...M), cable collet, nut for fitting bend relief



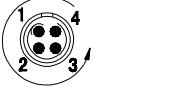
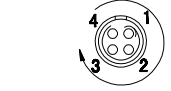
Reference		Dimensions (mm)			
Series	Type	LA	A	SW1	SW2
0C	INT13-DHG	39	10	8	8
1C	INT13-DHG	45	13	10	9
2C	INT13-DHG	50	15	13	13
3C	INT13-DHG	60	18	16	15

8. INT-C Series Push Pull Connectors

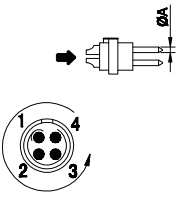
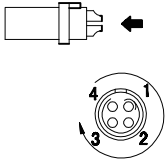
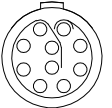
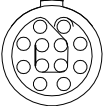
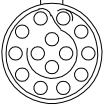
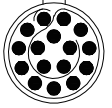
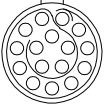
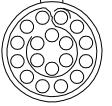
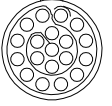
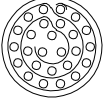
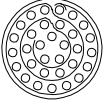
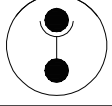
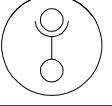
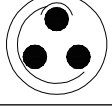
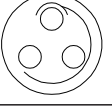
INT-C Series Multipole Layout

	Male Contact 	Female Contact 	Insulator	Contact No.	ØA(MM)	Contact type			Test voltage (contact - contact) K/V rms	Test voltage (contact - shell) K/V rms	Rated current (A)
						Solder contact	PCB straight contact	PCB elbow contact			
0C			302	2	0.9	●	●	●	1.30	1.05	10.0
			303	3	0.9	●	●	●	1.20	0.90	8.0
			304	4	0.7	●	●	●	0.85	0.70	7.0
			305	5	0.35	●	●	●	0.7	1.0	1.7
			306	6	0.5	●	●	●	0.85	0.65	2.5
			307	7	0.5	●	●	●	0.80	0.70	2.5
			309	9	0.5	●	●	○	0.60	0.50	2.0
1C			302	2	1.3	●	●	●	1.50	1.35	15.0
			303	3	1.3	●	●	●	1.30	1.55	12.0
			304	4	0.9	●	●	●	1.35	1.45	10.0
			305	5	0.9	●	●	●	1.25	1.15	9.0

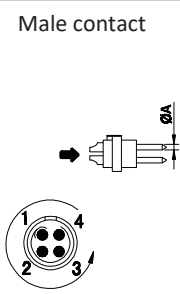
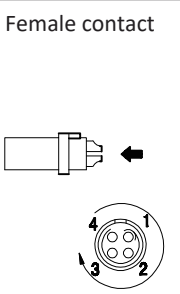
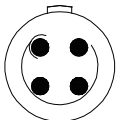
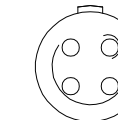
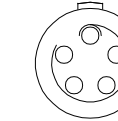
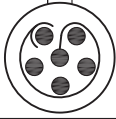
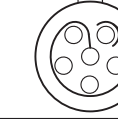
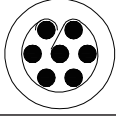
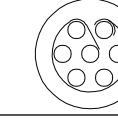
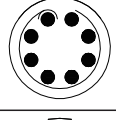
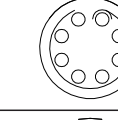
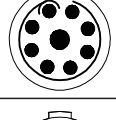
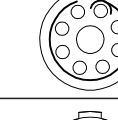
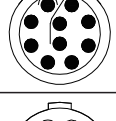
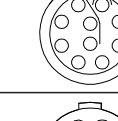
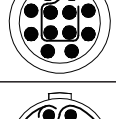
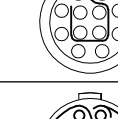
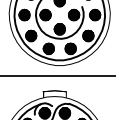
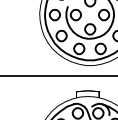
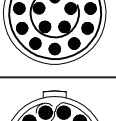
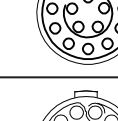
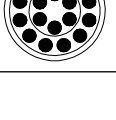
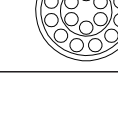
8. INT-C Series Push Pull Connectors

	Male contact 	Female contact 	Insulator	Contact No.	ØA(MM)	Contact type			Test voltage (contact - contact) K/V rms	Test voltage (contact - shell) K/V rms	Rated current (A)
						Solder contact	PCB straight contact	PCB elbow contact			
1C			306	6	0.7	●	●	●	1.05	1.20	7.0
			307	7	0.7	●	●	●	0.95	1.05	7.0
			308	8	0.7	●	●	●	0.95	1.15	5.0
			310	10	0.5	●	●	●	0.90	1.50	2.5
			314	14	0.5	●	●	●	0.80	1.20	2.0
			316	16	0.5	●	●	○	0.80	1.25	1.5
2C			302	2	2.0	●	●	●	2.10	1.75	25.0
			303	3	1.6	●	●	●	2.40	1.85	17.0
			304	4	1.3	●	●	●	1.85	1.85	15.0
			305	5	1.3	●	●	●	1.75	1.60	14.0
			306	6	1.3	●	●	●	1.35	1.45	12.0
			307	7	1.3	●	●	●	1.75	1.60	11.0

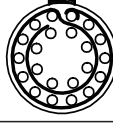
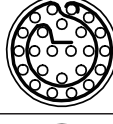
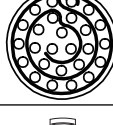
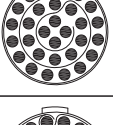
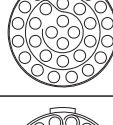
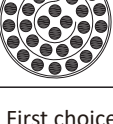
8. INT-C Series Push Pull Connectors

	Male contact	Female contact	Insulator	Contact No.	$\phi A(MM)$	Contact type			Test voltage (contact - contact) K/V rms	Test voltage (contact - shell) K/V rms	Rated current (A)
						Solder contact	PCB straight contact	PCB elbow contact			
2C			308	8	0.9	●	●	●	1.50	1.25	10.0
			310	10	0.9	●	●	●	1.45	1.30	8.0
			312	12	0.7	●	●	●	1.25	1.35	7.0
			314	14	0.7	●	●	●	1.15	1.35	6.5
			316	16	0.7	●	●	●	0.95	1.25	6.0
			318	18	0.9	●	●	●	1.2	1.05	7.0
			319	19	0.7	●	●	●	0.95	1.25	5.0
			326	26	0.5	●	●	○	0.95	1.30	2.0
			332	32	0.5	●	●	○	0.80	1.20	1.5
3C			302	2	3.0	●	○	-	2.10	1.55	35.0
			303	3	2.0	●	●	○	1.90	1.50	25.0

8. INT-C Series Push Pull Connectors

	Male contact	Female contact	Insulator	Contact No.	$\phi A(MM)$	Contact type			Test voltage (contact - contact) K/V rms	Test voltage (contact - shell) K/V rms	Rated current (A)
						Solder contact	PCB straight contact	PCB elbow contact			
3C			304	4	2.0	●	●	●	1.45	1.25	19.0
			305	5	1.6	●	●	○	1.90	1.25	19.0
			306	6	1.6	●	●	○	1.60	1.15	17.0
			307	7	1.6	●	●	○	1.70	1.25	15.0
			308	8	1.3	●	●	●	1.65	1.15	13.0
			309	8 1	1.3 2.0	●	●	-	1.35 1.35	1.05 1.05	6.0 15.0
			310	10	1.3	●	●	○	1.25	0.90	12.0
			312	12	0.9	●	●	●	1.45	1.00	9.0
			314	14	0.9	●	●	●	1.20	1.20	9.0
			316	16	0.9	●	●	●	1.20	0.85	8.0
			318	18	0.9	●	●	●	1.20	1.05	7.0

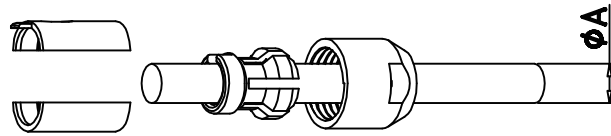
8. INT-C Series Push Pull Connectors

		320	20	0.7	●	●	●	1.0	0.9	6.0
		322	22	0.7	●	●	●	1.0	0.9	5.5
		324	24	0.7	●	●	●	1.2	1.45	7.0
		326	26	0.7	●	●	●	0.95	0.7	4.0
		330	30	0.7	●	●	●	0.8	0.7	3.5
		332	32	0.7	●	●	●	0.75	0.7	3.0

- First choice alternative
- Special order alternative

8. INT-C Series Push Pull Connectors

Cable Collet Size



Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	ϕA	Max	Min
0C-022	22	2.2	2.2	>1.4
0C-032	32	3.2	3.2	>2.2
0C-042	42	4.2	4.2	>3.2
0C-052	52	5.2	5.2	>4.2
0C-056	56	5.6	5.6	>4.6

Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	ϕA	Max	Min
1C-042	42	4.2	4.2	>3.2
1C-052	52	5.2	5.2	>4.2
1C-062	62	6.2	6.2	>5.2
1C-072	72	7.2	7.2	>6.2
1C-080	80	8.0	8.0	>7.0

Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	ϕA	Max	Min
2C-042	42	4.2	4.2	>3.2
2C-052	52	5.2	5.2	>4.2
2C-062	62	6.2	6.2	>5.2
2C-072	72	7.2	7.2	>6.2
2C-082	82	8.2	8.2	>7.2
2C-092	92	9.2	9.2	>8.2
2C-100	10	10.0	10.0	>9.0

Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	ϕA	Max	Min
3C-062	62	6.2	6.2	>4.9
3C-072	72	7.2	7.2	>6.2
3C-082	82	8.2	8.2	>7.1
3C-092	92	9.2	9.2	>7.7
3C-100	10	10.2	10.2	>9.2
3C-110	11	11.2	11.0	>10.2
3C-120	12	12.0	12	>11.1

9. INT-T Series Push Pull Connectors

Plug: Straight Plug



INT13-TGG



INT13-TGG



INT13-TFG

Fixed Panel Mount Receptacle



INT13-ZGG



INT13-ZEG



INT13-MEG



INT13-MGG



INT13-MMG

Cable Mount Receptacle



INT13-DHG



INT13-DHG

T Series Connectors with the Following Main Features

- 1. Secure push-pull self-latching system design
- 2. Multipole types 2 to 32 contacts
- 3. Solder contact, PCB contacts (straight or elbow)
- 4. High-density installation saves space
- 5. Multiple key options for aligned and blind mating
- 6. Keying system available (G, A, B, C, D, E, F, J, K, L.....)
- 7. 360° screening for full EMC shielding (anti-electromagnetic interference)
- 8. IP66-IP68, endurance 5000 times

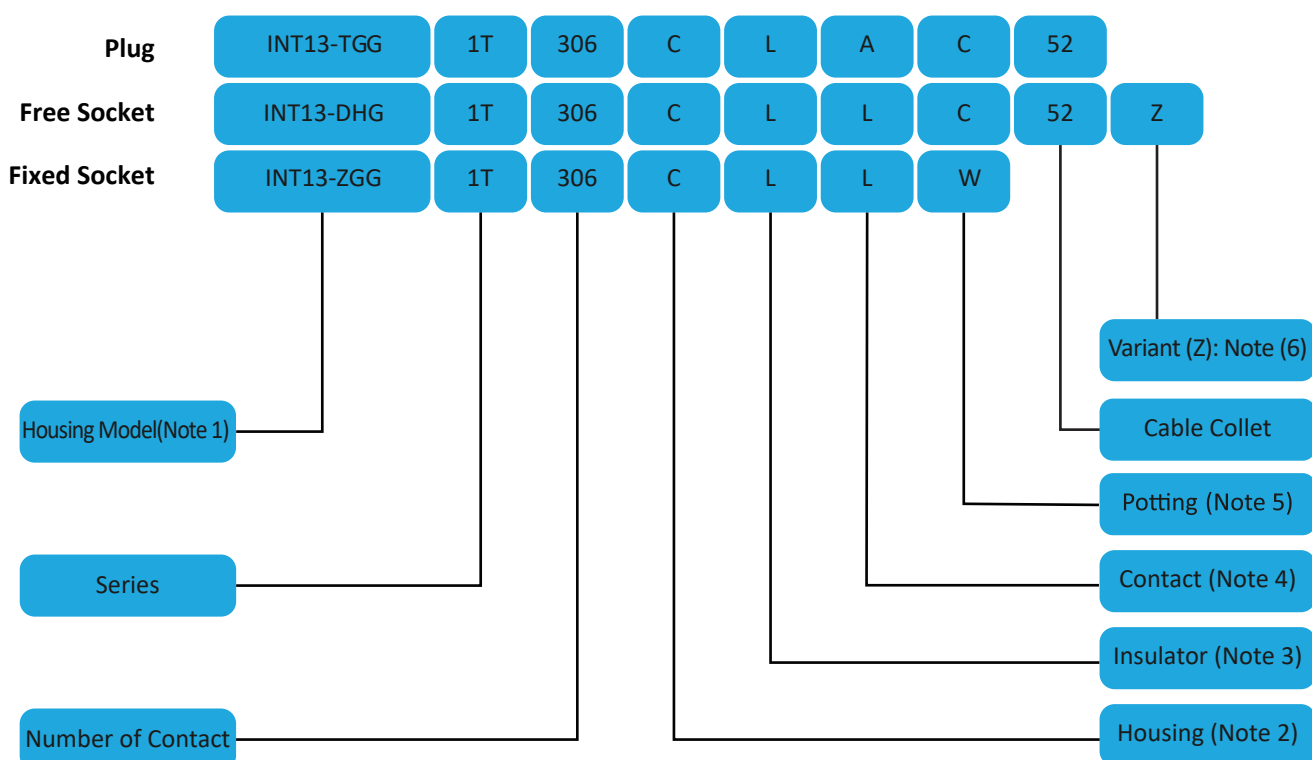
Technical Characteristics

Characteristics	Parameter
Locking Type	push pull self-latching type
Working Temperature	-55°C~+250°C
Maximum Humidity	up to 95% at 60°/140°F
Shielding Efficiency	75dB(10MHz) 40dB(1GHz)
Resistance to Vibration	15g[10Hz-2000H]

9. INT-T Series Push Pull Connectors

Characteristics	Parameter
Salt spray corrosion test	96hr
Shock resistance	100g, 6ms
Endurance	5000 cycles
Protection index(mated)	IP68

Part Numbering System



*Note 1:

INT13-TGG.1T.306.CLAC52 = 1T 6 pins straight plug, G key (alpha=0), pearl chrome plated brass housing, PPS insulator, male soldering contact type, 5.2 mm cable collet

INT13-DHG.1T.306.CLLC52Z = 1T 6 pins cable mounted receptacle, G key (alpha=0), pearl chrome plated brass housing, PPS insulator, female soldering contact type, 5.2 mm cable collet, nut for fitting bend relief

INT13-ZGG.1T.306.CLL = 1T 6 pins fixed receptacle, G key (alpha=0), pearl chrome plated brass housing, PPS insulator, female soldering contact type

*Note 2:

C=Brass plated chrome

K=Brass plated black chrome (At the end of the model number, adding 'R' indicates a red dot, while adding 'W' indicates a white dot.)

N=Brass plated nickel

T=Stainless Steel

L=Aluminum alloy anodized

9. INT-T Series Push Pull Connectors

*Note 3:

L=PPS
T=PTFE
P=PEEK

*Note 4:

A=Male soldering contacts
L=Female soldering contacts
D=Male straight PCB contacts
N=Female straight PCB contacts
V=Female 90° PCB contacts

*Note 5:

W=White silicone sealing
T=Transparent epoxy resin seal

*Note 6:

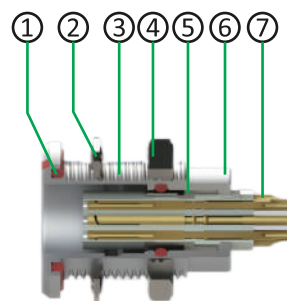
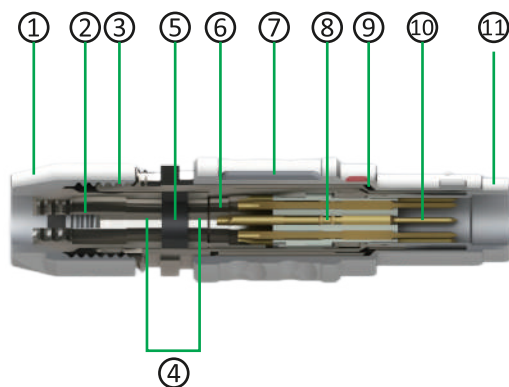
To request a model that includes a nut for fitting the bend relief, designate the variant position with the letter "Z" and include the bend relief part numbers INT13-GMA.

Bend relief color:

N=Black G=Gray A=Blue R=red J=Yellow V=Green

Part Section Showing Internal Components

- 1. Collet Nut
- 2. Cable Collet
- 3. Inner Shell
- 4. Gasket
- 5. Seal Ring
- 6. Split Insert Carrier
- 7. Outshell
- 8. Insulator
- 9. Latch Sleeve
- 10. Male Contact
- 11. Front Cover

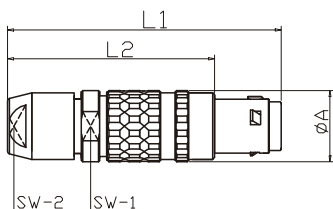


- 1. Seal Ring
- 2. Locking Washer
- 3. Insulator
- 4. Hexagonal Nut
- 5. Insulator Fixed
- 6. Outshell
- 7. Female Contact

Product Size

INT13-TGG

Cable mount straight plug, key (G) or keys (A...M), cable collet

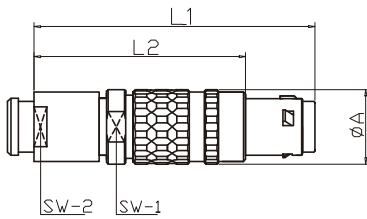


Reference		Dimensions (mm)				
Series	Type	A	L1	L2	SW1	SW2
00T	INT13-TGG	7	32.7	24.7	5.5	5
0T	INT13-TGG	9.5	38	28	7.5	7
1T	INT13-TGG	12	45	34	11	9
2T	INT13-TGG	15	54	42	14	12
3T	INT13-TGG	18.8	62	47	16	15

9. INT-T Series Push Pull Connectors

INT13-TGG

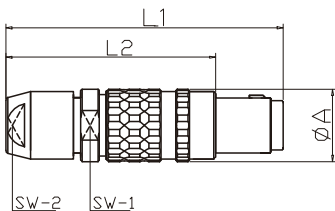
Cable mount straight plug, key (G) or keys (A...M), cable collet, nut for fitting bend relief



Reference		Dimensions (mm)				
Series	Type	A	L1	L2	SW1	SW2
00T	INT13-TGG	7	33.2	25.2	5.5	5
0T	INT13-TGG	9.5	39	29	7.5	7
1T	INT13-TGG	12	46	35	11	9
2T	INT13-TGG	15	55	43	14	12
3T	INT13-TGG	18.8	64	49	16	14

INT13-TFG

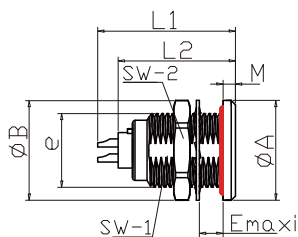
Cable mount straight plug, non-locking key (G) or keys (A...M), cable collet



Reference		Dimensions (mm)				
Series	Type	A	L1	L2	SW1	SW2
00T	INT13-TFG	7	33.2	25.2	6	5
0T	INT13-TFG	9.5	39	29	8	7
1T	INT13-TFG	12	46	35	10	9
2T	INT13-TFG	18	55	43	13	12
3T	INT13-TFG	18.8	64	49	16	14

INT13-ZGG

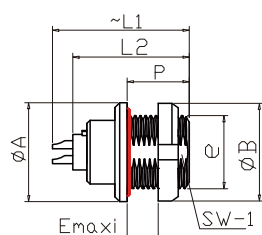
Panel mount fixed receptacle, nut fixing, key (G) or keys (A...M)



Reference		Dimensions (mm)									Panel Cut-outs
Series	Type	A	B	e	L1	L2	M	E	SW1	SW2	
00T	INT13-ZGG	10	10.2	M7*0.5	16	13.5	1.2	5.5	6.3	9	SW6.4 / Ø 7.1
0T	INT13-ZGG	12	12.5	M9*0.6	21	19.1	1.5	6	8.2	11	SW8.3 / Ø 9.1
1T	INT13-ZGG	15.5	16	M12*1.0	23	21.5	1.8	6	10.5	14	SW10.6 / Ø 12.1
2T	INT13-ZGG	18.5	19.6	M15*1.0	26.5	24.6	1.8	17.5	13.5	17	SW13.6 / Ø 15.1
3T	INT13-ZGG	23.5	25.1	M18*1.0	30.1	25	2.5	9.6	16.5	22	SW16.6 / Ø 18.1

INT13-ZEG

Panel mount fixed receptacle, nut fixing, key (G) or keys (A...M), back panel mounting

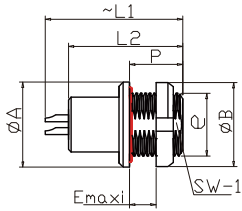


Reference		Dimensions (mm)									Panel Cut-outs
Series	Type	A	B	e	L1	L2	P	E	SW1		
00T	INT13-ZEG	10	10	M7*0.5	16	13.5	7	4.5	6.3		SW6.4 / Ø 7.1
0T	INT13-ZEG	12	12	M9*0.6	21	19.1	9	6.5	8.2		SW8.3 / Ø 9.1
1T	INT13-ZEG	15.5	16	M12*1.0	23	21.5	10	6.5	10.5		SW10.6 / Ø 12.1
2T	INT13-ZEG	18.5	20	M15*1.0	26.5	24.6	11	7.5	13.5		SW13.6 / Ø 15.1
3T	INT13-ZEG	23.5	24	M18*1.0	30.1	25	12	7.5	16.5		SW16.6 / Ø 18.1

9. INT-T Series Push Pull Connectors

INT13-MEG

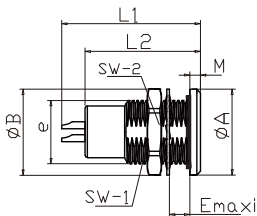
Panel mount fixed receptacle, nut fixing, key (G) or keys (A...M), back panel mounting, waterproof or vacuum-tight



Reference		Dimensions (mm)								Panel Cut-outs
Series	Type	A	B	e	L1	L2	P	E	SW1	
00T	INT13-MEG	10	10	M7*0.75	18	15	7	4.5	6.3	SW6.4 / Ø 7.1
0T	INT13-MEG	12	12	M9*0.6	22	18.5	9	6.5	8.2	SW8.3 / Ø 9.1
1T	INT13-MEG	15.5	16	M12*1.0	26	21.5	10	6.5	10.5	SW10.6 / Ø 12.1
2T	INT13-MEG	18.5	16	M15*1.0	30.5	25	11	7.5	13.5	SW13.6 / Ø 15.1

INT13-MGG

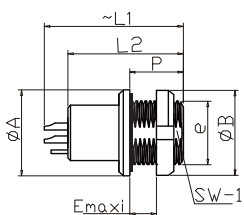
Panel mount fixed receptacle, nut fixing, key (G) or keys (A...M), waterproof or vacuum-tight



Reference		Dimensions (mm)								Panel Cut-outs
Series	Type	A	B	e	L1	L2	M	E	SW1	SW2
00T	INT13-MGG	10	10.2	M7*0.5	18	15	1.2	5.5	6.3	9
0T	INT13-MGG	12	12.5	M9*0.6	22	18.5	1.5	6.5	8.2	11
1T	INT13-MGG	15.5	16	M12*1.0	26	21.5	1.8	6	10.5	14
2T	INT13-MGG	18.5	19.6	M15*1.0	30.5	25	1.8	8	13.5	17

INT13-MMG

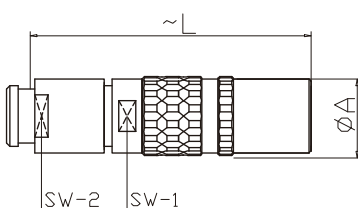
Panel mount fixed receptacle, with ground tag, nut fixing, key (G) or keys (A...M), waterproof or vacuum-tight



Reference		Dimensions (mm)								Panel Cut-outs
Series	Type	A	B	e	L1	L2	P	E	SW1	
00T	INT13-MMG	10	10	M7*0.72	18	15	7	4.5	6.3	SW6.4 / Ø 7.1
0T	INT13-MMG	12	12	M9*0.6	22	18.5	9	6.5	8.2	SW8.3 / Ø 9.1
1T	INT13-MMG	15.5	16	M12*1.0	26	21.5	10	6.5	10.5	SW10.6 / Ø 12.1
2T	INT13-MMG	18.5	20	M15*1.0	30.5	25	11	7.5	13.5	SW13.6 / Ø 15.1

INT13-DHG

Cable mount receptacle, key (G) or keys (A...M), cable collet

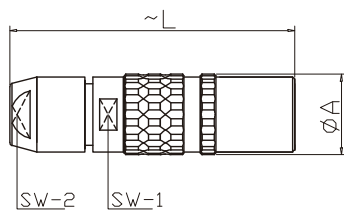


Reference		Dimensions (mm)			
Series	Type	A	L1	SW1	SW2
00T	INT13-DHG	7	31.5	5.5	6
0T	INT13-DHG	9.5	37	7.5	7
1T	INT13-DHG	12	42.5	11	9
2T	INT13-DHG	15	51	14	12
3T	INT13-DHG	18.8	60	16	15

9. INT-T Series Push Pull Connectors

INT13-DHG

Cable mount receptacle, key (G) or keys (A...M), cable collet, nut for fitting bend relief

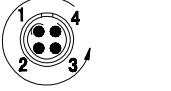
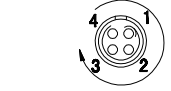


Reference		Dimensions (mm)			
Series	Type	A	L1	SW1	SW2
00T	INT13-DHG	7	32	5.5	5
0T	INT13-DHG	9.5	38	7.5	7
1T	INT13-DHG	12	43.5	11	9
2T	INT13-DHG	15	52	14	12
3T	INT13-DHG	18.8	61.5	16	14

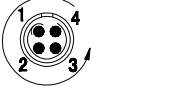
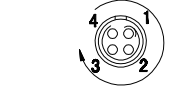
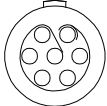
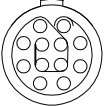
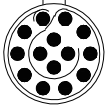
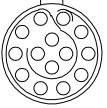
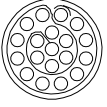
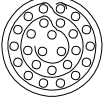
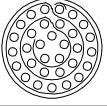
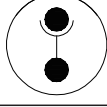
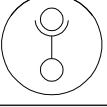
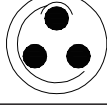
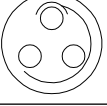
INT-T Series Multipole Layout

	Male Contact	Female Contact	Insulator	Contact No.	ØA(MM)	Contact type			Test voltage (contact - contact) K/V rms	Test voltage (contact - shell) K/V rms	Rated current (A)
						Solder contact	PCB straight contact	PCB elbow contact			
0T			302	2	0.9	●	●	●	1.30	1.05	10.0
			303	3	0.9	●	●	●	1.20	0.90	8.0
			304	4	0.7	●	●	●	0.85	0.70	7.0
			305	5	0.35	●	●	●	0.7	1.0	1.7
			306	6	0.5	●	●	●	0.85	0.65	2.5
			307	7	0.5	●	●	●	0.80	0.70	2.5
			309	9	0.5	●	●	○	0.60	0.50	2.0
1T			302	2	1.3	●	●	●	1.50	1.35	15.0
			303	3	1.3	●	●	●	1.30	1.55	12.0

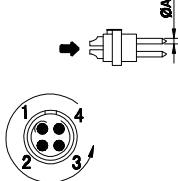
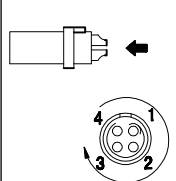
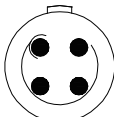
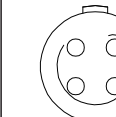
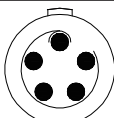
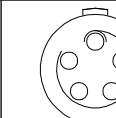
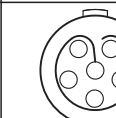
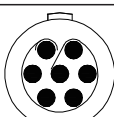
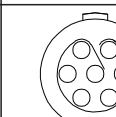
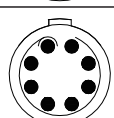
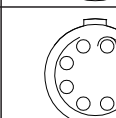
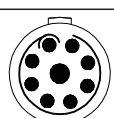
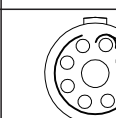
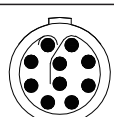
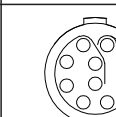
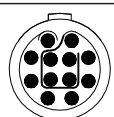
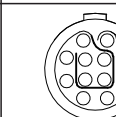
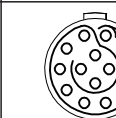
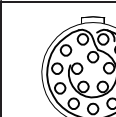
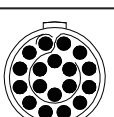
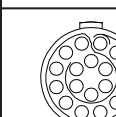
9. INT-T Series Push Pull Connectors

	Male contact 	Female contact 	Insulator	Contact No.	ØA(MM)	Contact type			Test voltage (contact - contact) K/V rms	Test voltage (contact - shell) K/V rms	Rated current (A)
						Solder contact	PCB straight contact	PCB elbow contact			
1T			304	4	0.9	●	●	●	1.35	1.45	10.0
			305	5	0.9	●	●	●	1.25	1.15	9.0
			306	6	0.7	●	●	●	1.05	1.20	7.0
			307	7	0.7	●	●	●	0.95	1.05	7.0
			308	8	0.7	●	●	●	0.95	1.15	5.0
			310	10	0.5	●	●	●	0.90	1.50	2.5
			314	14	0.5	●	●	●	0.80	1.20	2.0
			316	16	0.5	●	●	○	0.80	1.25	1.5
2T			302	2	2.0	●	●	●	2.10	1.75	25.0
			303	3	1.6	●	●	●	2.40	1.85	17.0
			304	4	1.3	●	●	●	1.85	1.85	15.0
			305	5	1.3	●	●	●	1.75	1.60	14.0
			306	6	1.3	●	●	●	1.35	1.45	12.0

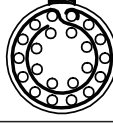
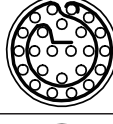
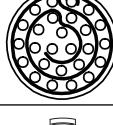
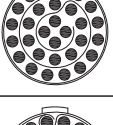
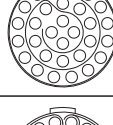
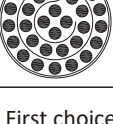
9. INT-T Series Push Pull Connectors

	Male contact 	Female contact 	Insulator	Contact No.	$\phi A(MM)$	Contact type			Test voltage (contact - contact) K/V rms	Test voltage (contact - shell) K/V rms	Rated current (A)
						Solder contact	PCB straight contact	PCB elbow contact			
2T			307	7	1.3	●	●	●	1.75	1.60	11.0
			308	8	0.9	●	●	●	1.50	1.25	10.0
			310	10	0.9	●	●	●	1.45	1.30	8.0
			312	12	0.7	●	●	●	1.25	1.35	7.0
			314	14	0.7	●	●	●	1.15	1.35	6.5
			316	16	0.7	●	●	●	0.95	1.25	6.0
			318	18	0.9	●	●	●	1.2	1.05	7.0
			319	19	0.7	●	●	●	0.95	1.25	5.0
			326	26	0.5	●	●	○	0.95	1.30	2.0
			332	32	0.5	●	●	○	0.80	1.20	1.5
3T			302	2	3.0	●	○	-	2.10	1.55	35.0
			303	3	2.0	●	●	○	1.90	1.50	25.0

9. INT-T Series Push Pull Connectors

	Male contact	Female contact	Insulator	Contact No.	$\phi A(MM)$	Contact type			Test voltage (contact - contact) K/V rms	Test voltage (contact - shell) K/V rms	Rated current (A)
						Solder contact	PCB straight contact	PCB elbow contact			
3T			304	4	2.0	●	●	●	1.45	1.25	19.0
			305	5	1.6	●	●	○	1.90	1.25	19.0
			306	6	1.6	●	●	○	1.60	1.15	17.0
			307	7	1.6	●	●	○	1.70	1.25	15.0
			308	8	1.3	●	●	●	1.65	1.15	13.0
			309	8 1	1.3 2.0	●	●	-	1.35 1.35	1.05 1.05	6.0 15.0
			310	10	1.3	●	●	○	1.25	0.90	12.0
			312	12	0.9	●	●	●	1.45	1.00	9.0
			314	14	0.9	●	●	●	1.20	1.20	9.0
			316	16	0.9	●	●	●	1.20	0.85	8.0
			318	18	0.9	●	●	●	1.20	1.05	7.0

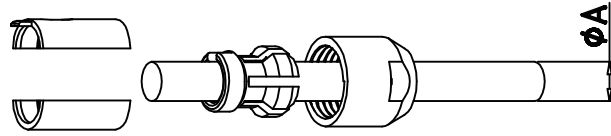
9. INT-T Series Push Pull Connectors

		320	20	0.7	●	●	●	1.0	0.9	6.0
		322	22	0.7	●	●	●	1.0	0.9	5.5
		324	24	0.7	●	●	●	1.2	1.45	7.0
		326	26	0.7	●	●	●	0.95	0.7	4.0
		330	30	0.7	●	●	●	0.8	0.7	3.5
		332	32	0.7	●	●	●	0.75	0.7	3.0

- First choice alternative
- Special order alternative

9. INT-T Series Push Pull Connectors

Cable Collet Size



Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	ϕA	Max	Min
0T-022	22	2.2	2.2	>1.4
0T-032	32	3.2	3.2	>2.2
0T-042	42	4.2	4.2	>3.2
0T-052	52	5.2	5.2	>4.2
0T-056	56	5.6	5.6	>4.6

Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	ϕA	Max	Min
1T-042	42	4.2	4.2	>3.2
1T-052	52	5.2	5.2	>4.2
1T-062	62	6.2	6.2	>5.2
1T-072	72	7.2	7.2	>6.2
1T-080	80	8.0	8.0	>7.0

Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	ϕA	Max	Min
2T-042	42	4.2	4.2	>3.2
2T-052	52	5.2	5.2	>4.2
2T-062	62	6.2	6.2	>5.2
2T-072	72	7.2	7.2	>6.2
2T-082	82	8.2	8.2	>7.2
2T-092	92	9.2	9.2	>8.2
2T-100	10	10.0	10.0	>9.0

Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	ϕA	Max	Min
3T-062	62	6.2	6.2	>4.9
3T-072	72	7.2	7.2	>6.2
3T-082	82	8.2	8.2	>7.1
3T-092	92	9.2	9.2	>7.7
3T-100	10	10.2	10.2	>9.2
3T-110	11	11.2	11.0	>10.2
3T-120	12	12.0	12	>11.1

10. INT-U Series Push Pull Connectors

Plug: Straight Plug



INT13-TUA

Receptacle: Fixed Panel Mount Receptacle



INT13-MUG



INT13-MDA

Cable Mount Receptacle



INT13-DHA

U Series Connectors with the Following Main Features

1. Secure push-pull self-latching system design
2. Multipole types, 2 to 13 pins
3. Solder contact, PCB contacts (straight or elbow)
4. High-density installation saves space, M7/M9 sizes, three keys slots + double semicircle positioning and double positioning to avoid insert error
5. 360° screening for full EMC shielding (anti-electromagnetic interference)
6. IP68, endurance 5000 to 10000 times

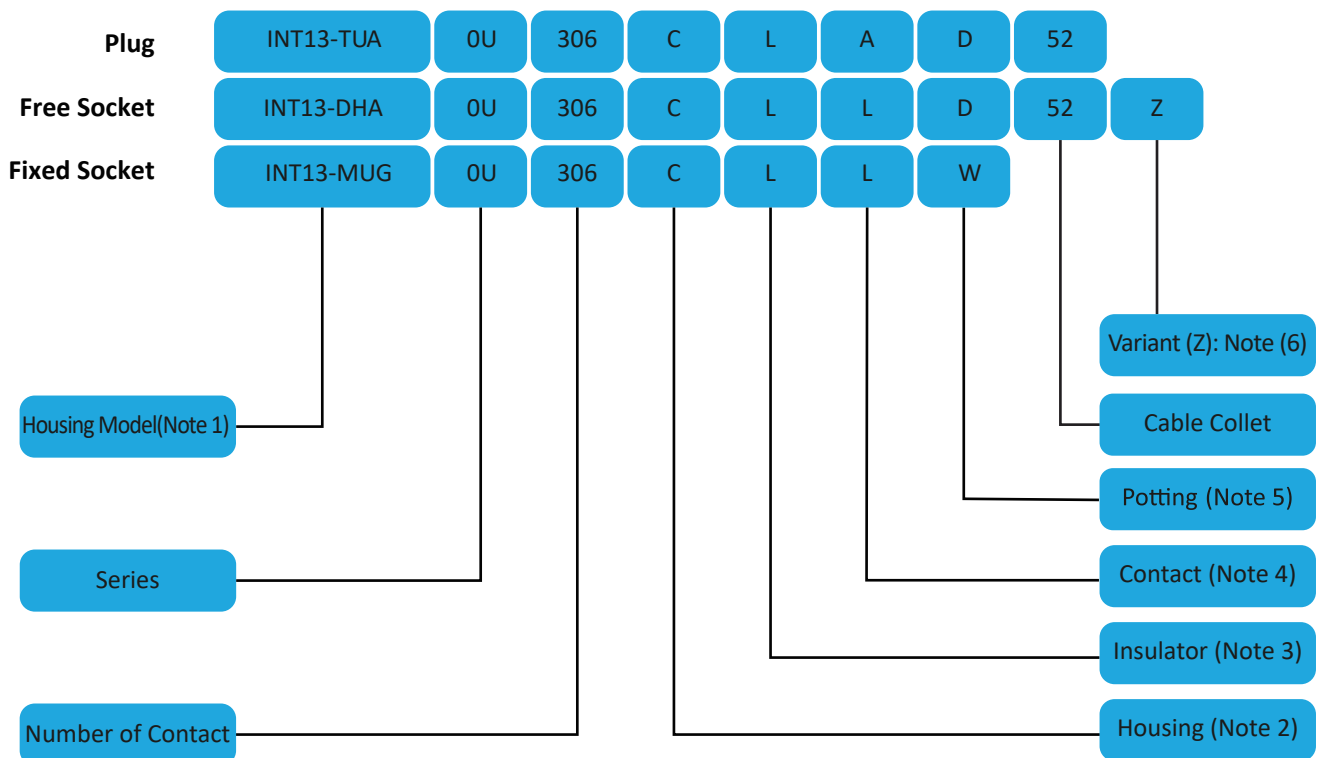
Technical Characteristics

Characteristics	Parameter
Locking Type	push pull self-latching type
Working Temperature	-55°C~+250°C
Maximum Humidity	up to 95% at 60°/140°F
Shielding Efficiency	75dB(100MHz) 40dB(1GHz)
Resistance to Vibration	15g[10Hz-2000H]

10. INT-U Series Push Pull Connectors

Characteristics	Parameter
Salt spray corrosion test	96hr
Shock resistance	100g, 6ms
Endurance	10000 cycles
Protection index(mated)	IP68

Part Numbering System



*Note 1:

INT13-TUA.0U.306.CLAD52 = 0U 6 pins straight plug, code A, pearl chrome plated brass housing, PPS insulator, male soldering contact type, 5.2 mm cable collet

INT13-DHA.0U.306.CLLD52Z = 0U 6 pins cable mounted receptacle, code A, pearl chrome plated brass housing, PPS insulator, female soldering contact type, 5.2 mm cable collet, nut for fitting bend relief

INT13-MUG.0U.306.CLL = 0U 6 pins fixed receptacle, code A, pearl chrome plated brass housing, PPS insulator, female soldering contact type

*Note 2:

C=Brass plated chrome

K=Brass plated black chrome (At the end of the model number, adding 'R' indicates a red dot, while adding 'W' indicates a white dot.)

N=Brass plated nickel

T=Stainless Steel

L=Aluminum alloy anodized

10. INT-U Series Push Pull Connectors

***Note 3:**

L=PPS
T=PTFE
P=PEEK

***Note 4:**

A=Male soldering contacts
L=Female soldering contacts
D=Male straight PCB contacts
N=Female straight PCB contacts
V=Female 90° PCB contacts

***Note 5:**

W=White silicone sealing
T=Transparent epoxy resin seal

***Note 6:**

To request a model that includes a nut for fitting the bend relief, designate the variant position with the letter "Z" and include the bend relief part numbers INT13-GMA.

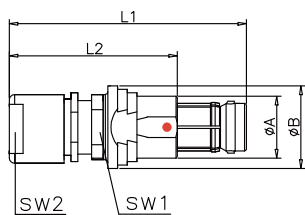
Bend relief color:

N=Black G=Gray A=Blue R=red J=Yellow V=Green

Product Size

INT13-TUA

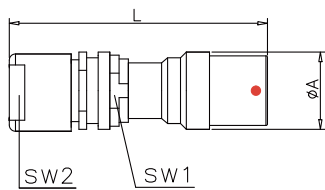
Short straight plug, cable collect, internal components prevent cable rotation, multi-key design to prevent incorrect insertion



Reference		Dimensions (mm)					
Series	Type	A	B	L1	L2	S1	S2
00U	INT13-TUA	10	10.5	32	24	6.5	7
0U	INT13-TUA	10	12	36	28	8	7

INT13-DHA

Short cable mounted receptacle, cable collect, internal components prevent cable rotation, multi-key design to prevent incorrect insertion

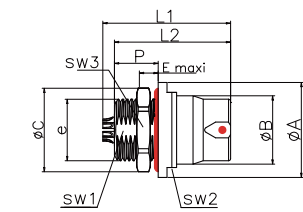


Reference		Dimensions (mm)			
Series	Type	A	L	SW1	SW2
0U	INT13-DHA	9.8	33.6	8	7

10. INT-U Series Push Pull Connectors

INT13-MUG

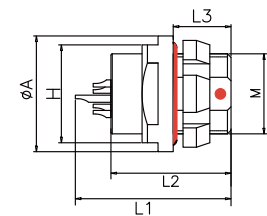
Vacuum seal protruding receptacle, multi-key design to prevent incorrect insertion



Reference		Dimensions (mm)											Panel Cut-outs
Series	Type	A	B	E	P	L1	L2	C	E	SW1	SW2	SW3	
0U	INT13-MUG	14	10	4	6.5	20.5	17	11	M9*0.5	7.8	11	11	SW7.9 / Ø 9.1

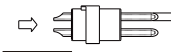
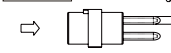
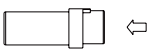
INT13-MDA

Vacuum seal receptacle, multi-key design to prevent incorrect insertion

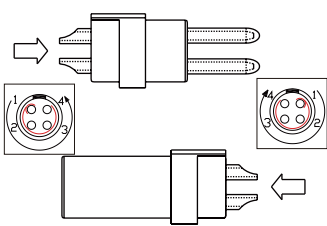


Reference		Dimensions (mm)						Panel Cut-outs
Series	Type	A	H	M	L1	L2	L3	
00U	INT13-MDA	10	8	M7*0.5	15	12.5	5	SW6.3 / Ø 7.1
0U	INT13-MDA	13	11	M9*0.5	18.4	13.5	6.5	SW8.1 / Ø 9.1

INT-U Series Multipole Layout

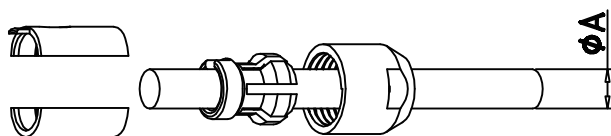
	Solder Male Contact  Crimp Male Contact 	Solder Female Contact  Crimp Female Contact 	Insulator	Contact No.	ØA(MM)	Contact type			Solder contact		Rated current (A)
	Solder contact	PCB contact				Elbow 90° PCB contact	Test voltage (contact - contact) K/V rms	Test voltage (contact - shell) K/V rms			
00U			302	2	0.5	●	●	●	1.5	0.95	5
			303	3	0.5	●	●	●	0.8	0.95	3
			304	4	0.5	●	●	●	0.8	0.65	2
			305	5	0.35	●	●	●	0.7	1	1.7

10. INT-U Series Push Pull Connectors

	Male Contact  Female Contact		Insulator	Contact No.	øA(MM)	Contact type			Solder contact		Rated current (A)
	Solder contact	PCB contact				Elbow 90° PCB contact	Test voltage (contact - contact) K/V rms	Test voltage (contact - shell) K/V rms			
0U			302	2	0.9	●	●	●	1.7	1.3	10
			303	3	0.9	●	●	●	1.3	1.3	8
			304	4	0.7	●	●	●	1.2	1.2	7
			305	5	0.7	●	●	●	1.0	0.8	6.5
			307	7	0.5	●	●	●	1.0	0.8	2.5
			309	9	0.5	●	●	●	1.1	0.8	2
			310	10	0.5	●	●	●	1.1	0.8	2
			313	13	0.4	●	●	●	1.1	0.8	2

10. INT-U Series Push Pull Connectors

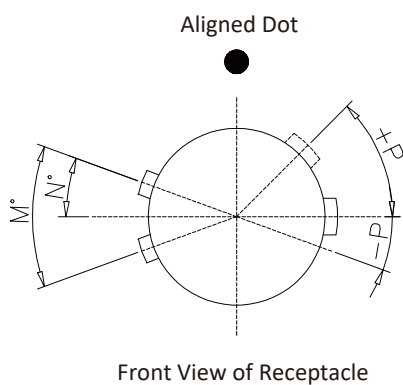
Cable Collet Size



Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	ϕA	Max	Min
00U-022	22	2.2	2.2	>1.4
00U-027	27	2.7	2.7	>2.2
00U-030	30	3.0	3.0	>2.5

Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	ϕA	Max	Min
0U-022	22	2.2	2.2	>1.4
0U-032	32	3.2	3.2	>2.2
0U-042	42	4.2	4.2	>3.2
0U-052	52	5.2	5.2	>4.2
0U-056	56	5.6	5.6	>4.6

Alignment Key and Polarized Key



Series	Key No.	M°	N°	P°
00U	A	45°	22.5°	0°
	B	60°	30°	0°
0U	A	40°	20°	0°
	B	60°	30°	45°
	C	70°	35°	-20°
	D	80°	40°	0°
	E	100°	50°	0°
0U(13 Pins)	F	100°	55°	45°

11. INT-W Series Push Pull Connectors

Plug: Straight Plug



INT13-TVG



INT13-TVG



INT13-TVG

Receptacle: Fixed Panel Mount Receptacle



INT13-MRG



INT13-ZVG



INT13-MVG

W Series Connectors with the Following Main Features

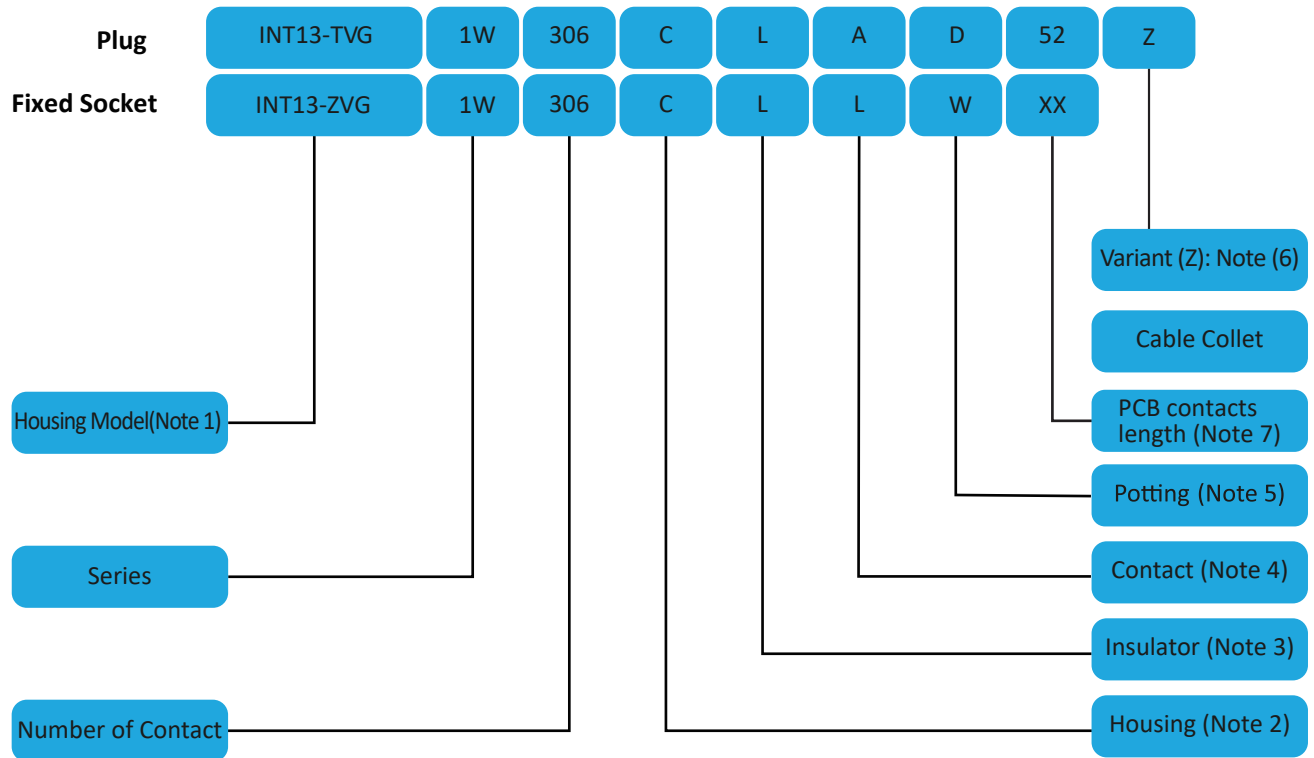
1. Stable thread locking structure
2. Multipole types 2 to 32 contacts
3. Solder contact, crimp contact
4. High-density configurations for blind mating even in tight spaces
5. Keying system available
6. Brass hard housing design for harsh working environments
7. 360° screening for full EMC shielding (anti-electromagnetic interference)
8. IP68, endurance 5000 times

Technical Characteristics

Characteristic	Parameter	Characteristic	Parameter
Locking mode	The connection buckle is locked	Salt Spray Test	96hr
Temperature Range	-55°C~+125°C	Shock Resistance	100g,6ms
Shielding Effectiveness	75dB(10MHz)40dB(1GHz)	Mechanical Life	5000 times
Vibration Resistance	15g[10HZ~2000Hz]	Protection Index(mated)	IP68

11. INT-W Series Push Pull Connectors

Part Numbering System



*Note 1:

INT13-TVG.1W.306.CLAC52 = 1W 6 pins straight plug, G key (alpha=0), pearl chrome plated brass housing, PPS insulator, male soldering contact type, 5.2 mm cable collet

INT13-ZVG.1W.306.CLL = 1W 6 pins fixed receptacle, G key (alpha=0), pearl chrome plated brass housing, PPS insulator, female soldering contact type

*Note 2:

C=Brass plated chrome

K=Brass plated black chrome (At the end of the model number, adding 'R' indicates a red dot, while adding 'W' indicates a white dot.)

N=Brass plated nickel

T=Stainless Steel

L=Aluminum alloy anodized

*Note 3:

L=PPS

T=PTFE

P=PEEK

*Note 4:

A=Male soldering contacts

L=Female soldering contacts

D=Male straight PCB contacts

N=Female straight PCB contacts

V=Female 90° PCB contacts

11. INT-W Series Push Pull Connectors

***Note 5:**
W=White silicone sealing
T=Transparent epoxy resin seal

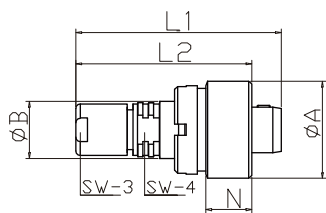
***Note 6:**
To request a model that includes a nut for fitting the bend relief, designate the variant position with the letter "Z" and include the bend relief part numbers INT13-GMA.
Bend relief color:
N=Black G=Gray A=Blue R=red J=Yellow V=Green

***Note 7:**
25=2.5mm
30=3mm
35=3.5mm
40=4mm

Product Size

INT13-TVG

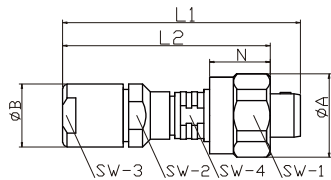
Straight plug with cable collect



Reference		Dimensions (mm)						
Series	Type	A	B	L1	L2	N	SW3	SW4
0W	INT13-TVG	17	8.9	36	29.8	13.5	8	8

INT13-TVG

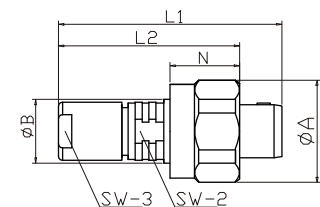
Straight plug with cable collect



Reference		Dimensions (mm)								
Series	Type	A	B	L1	L2	N	SW1	SW2	SW3	SW4
0W	INT13-TVG	19.3	14.5	56.5	48.3	14	18	12	12	10
1W	INT13-TVG	23.5	17	68.5	56	15.5	22	15	15	13
2W	INT13-TVG	27.8	22	80.5	67	16.5	26	19	19	-
3W	INT13-TVG	34.3	36	105.5	91.5	17.5	32	30	32	-

INT13-TVG

Straight plug, non-locking, cable collect

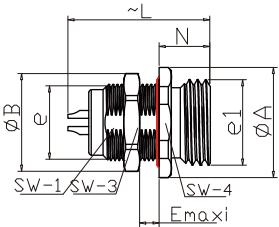


Reference		Dimensions (mm)						
Series	Type	A	B	L1	L2	N	SW3	SW4
0W	INT13-TVG	17.2	10	36	30.8	16	8	8
1W	INT13-TVG	19.3	12	43.2	35.1	18	9	10
2W	INT13-TVG	23.5	16	52.5	43	22	12	13
3W	INT13-TVG	27.5	17	61.5	48	26	15	-

11. INT-W Series Push Pull Connectors

INT13-MRG

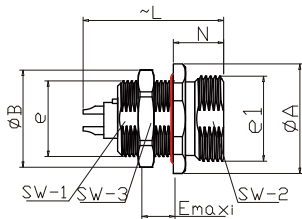
Fixed panel mounted receptacle



Reference		Dimensions (mm)										Panel Cut-outs
Series	Type	A	B	e	e 1	L	N	E	SW1	SW3	SW4	
0W	INT13-MRG	18	16	M12*1.0	M14*1.0	24.1	8	5.5	10.5	14	17	SW 10.6 / Ø 12.1

INT13-ZVG

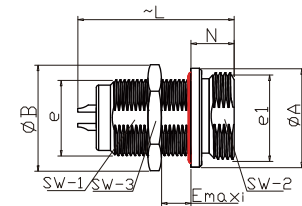
Fixed panel mounted receptacle



Reference		Dimensions (mm)										Panel Cut-outs
Series	Type	A	B	e	e 1	L	N	E	SW1	SW2	SW3	
0W	INT13-ZVG	16.2	16	M12*1.0	M14*1.0	21.7	8	4	10.5	12.5	14	SW10.6 / Ø 12.1
1W	INT13-ZVG	18.3	19.5	M14*1.0	M16*1.0	27	8	8	12.5	14.5	17	SW12.6 / Ø 14.1
2W	INT13-ZVG	22.5	21.8	M16*1.0	M20*1.0	30.7	9	9	14.5	18.5	19	SW14.6 / Ø 16.1
3W	INT13-ZVG	26.6	27	M20*1.0	M24*1.0	36.2	9.5	13	18.5	22.5	24	SW18.6 / Ø 20.1

INT13-MVG

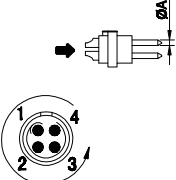
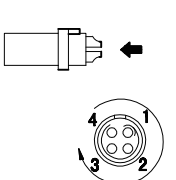
Fixed panel mounted receptacle



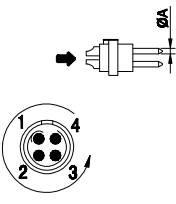
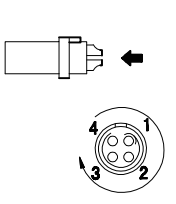
Reference		Dimensions (mm)										Panel Cut-outs
Series	Type	A	B	e	e 1	L	N	E	SW1	SW2	SW3	
0W	INT13-MVG	16.2	16	M12*1.0	M14*1.0	24.1	8	5.5	10.5	12.5	14	SW10.6 / Ø 12.1
1W	INT13-MVG	18.3	19.5	M14*1.0	M16*1.0	30	8	11.5	12.5	14.5	17	SW12.6 / Ø 14.1
2W	INT13-MVG	22.5	21.8	M16*1.0	M20*1.0	35.8	9	14.5	14.5	18.5	19	SW14.6 / Ø 16.1
3W	INT13-MVG	26.6	27	M20*1.0	M24*1.0	42.2	9.5	17.5	18.5	22.5	24	SW18.6 / Ø 20.1

11. INT-W Series Push Pull Connectors

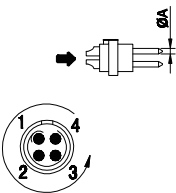
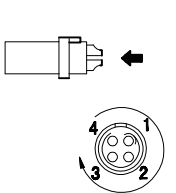
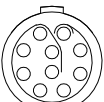
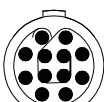
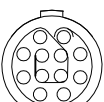
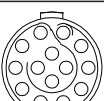
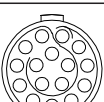
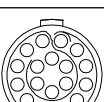
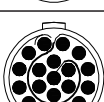
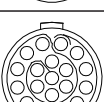
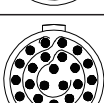
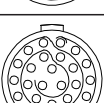
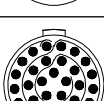
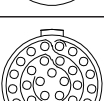
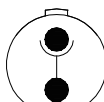
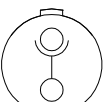
INT-W Series Multipole Layout

	Male Contact 	Female Contact 	Insulator	Contact No.	ØA (MM)	Contact type			Test voltage (contact - contact) K/V rms	Test voltage (contact - shell) K/V rms	Rated current (A)
						Solder contact	PCB straight contact	PCB elbow contact			
0W			302	2	0.9	●	●	●	1.30	1.05	10.0
			303	3	0.9	●	●	●	1.20	0.90	8.0
			304	4	0.7	●	●	●	0.85	0.70	7.0
			305	5	0.35	●	●	●	0.7	1.0	1.7
			306	6	0.5	●	●	●	0.85	0.65	2.5
			307	7	0.5	●	●	●	0.80	0.70	2.5
			309	9	0.5	●	●	○	0.60	0.50	2.0
1W			302	2	1.3	●	●	●	1.50	1.35	15.0
			303	3	1.3	●	●	●	1.30	1.55	12.0
			304	4	0.9	●	●	●	1.35	1.45	10.0
			305	5	0.9	●	●	●	1.25	1.15	9.0

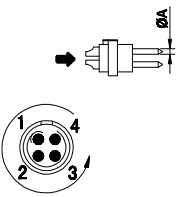
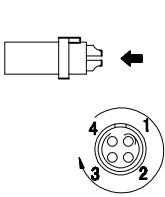
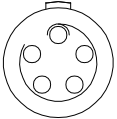
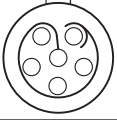
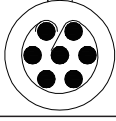
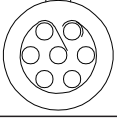
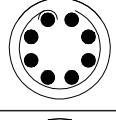
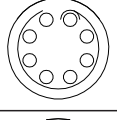
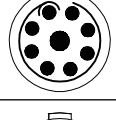
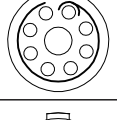
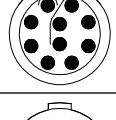
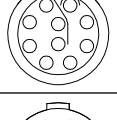
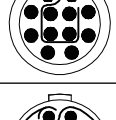
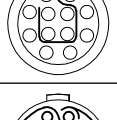
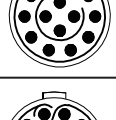
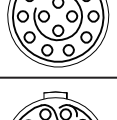
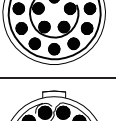
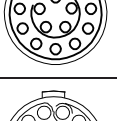
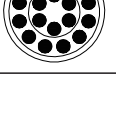
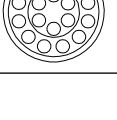
11. INT-W Series Push Pull Connectors

	Male contact 	Female contact 	Insulator	Contact No.	ØA(MM)	Contact type			Test voltage (contact - contact) K/V rms	Test voltage (contact - shell) K/V rms	Rated current (A)
						Solder contact	PCB straight contact	PCB elbow contact			
1W			306	6	0.7	●	●	●	1.05	1.20	7.0
			307	7	0.7	●	●	●	0.95	1.05	7.0
			308	8	0.7	●	●	●	0.95	1.15	5.0
			310	10	0.5	●	●	●	0.90	1.50	2.5
			314	14	0.5	●	●	●	0.80	1.20	2.0
			316	16	0.5	●	●	○	0.80	1.25	1.5
2W			302	2	2.0	●	●	●	2.10	1.75	25.0
			303	3	1.6	●	●	●	2.40	1.85	17.0
			304	4	1.3	●	●	●	1.85	1.85	15.0
			305	5	1.3	●	●	●	1.75	1.60	14.0
			306	6	1.3	●	●	●	1.35	1.45	12.0
			307	7	1.3	●	●	●	1.75	1.60	11.0

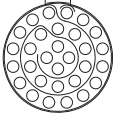
11. INT-W Series Push Pull Connectors

	Male contact 	Female contact 	Insulator	Contact No.	ϕA (MM)	Contact type			Test voltage (contact - contact) K/V rms	Test voltage (contact - shell) K/V rms	Rated current (A)
						Solder contact	PCB straight contact	PCB elbow contact			
2W			308	8	0.9	●	●	●	1.50	1.25	10.0
			310	10	0.9	●	●	●	1.45	1.30	8.0
			312	12	0.7	●	●	●	1.25	1.35	7.0
			314	14	0.7	●	●	●	1.15	1.35	6.5
			316	16	0.7	●	●	●	0.95	1.25	6.0
			318	18	0.9	●	●	●	1.2	1.05	7.0
			319	19	0.7	●	●	●	0.95	1.25	5.0
			326	26	0.5	●	●	○	0.95	1.30	2.0
			332	32	0.5	●	●	○	0.80	1.20	1.5
3W			302	2	3.0	●	○	-	2.10	1.55	35.0
			303	3	2.0	●	●	○	1.90	1.50	25.0

11. INT-W Series Push Pull Connectors

	Male contact	Female contact	Insulator	Contact No.	ϕA (MM)	Contact type			Test voltage (contact - contact) K/V rms	Test voltage (contact - shell) K/V rms	Rated current (A)
						Solder contact	PCB straight contact	PCB elbow contact			
3W			304	4	2.0	●	●	●	1.45	1.25	19.0
			305	5	1.6	●	●	○	1.90	1.25	19.0
			306	6	1.6	●	●	○	1.60	1.15	17.0
			307	7	1.6	●	●	○	1.70	1.25	15.0
			308	8	1.3	●	●	●	1.65	1.15	13.0
			309	8 1	1.3 2.0	●	●	-	1.35 1.35	1.05 1.05	6.0 15.0
			310	10	1.3	●	●	○	1.25	0.90	12.0
			312	12	0.9	●	●	●	1.45	1.00	9.0
			314	14	0.9	●	●	●	1.20	1.20	9.0
			316	16	0.9	●	●	●	1.20	0.85	8.0
			318	18	0.9	●	●	●	1.20	1.05	7.0

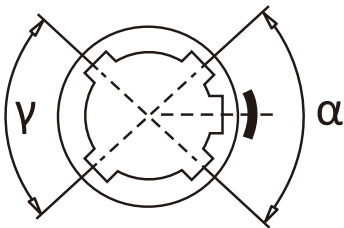
11. INT-W Series Push Pull Connectors

		320	20	0.7	●	●	●	1.0	0.9	6.0
		322	22	0.7	●	●	●	1.0	0.9	5.5
		324	24	0.7	●	●	●	1.2	1.45	7.0
		326	26	0.7	●	●	●	0.95	0.7	4.0
		330	30	0.7	●	●	●	0.8	0.7	3.5
		332	32	0.7	●	●	●	0.75	0.7	3.0

- First choice alternative
- Special order alternative

Alignment Key and Polarized Key

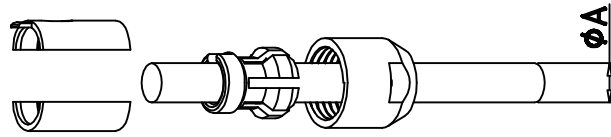
Front View of Receptacle



Key	Key number	Angle	Series	Contact Type		Remark
			0W-3W	Plug	Receptacle	
G	1	-	0°	Male contact	Female contact	
A	2	a	30°			
B	2	a	45°			
L	2	y	75°	Female contact	Male contact	

11. INT-W Series Push Pull Connectors

Cable Collet Size



Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	ϕA	Max	Min
0W-022	22	2.2	2.2	>1.4
0W-032	32	3.2	3.2	>2.2
0W-042	42	4.2	4.2	>3.2
0W-052	52	5.2	5.2	>4.2
0W-056	56	5.6	5.6	>4.6

Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	ϕA	Max	Min
1W-042	42	4.2	4.2	>3.2
1W-052	52	5.2	5.2	>4.2
1W-062	62	6.2	6.2	>5.2
1W-072	72	7.2	7.2	>6.2
1W-080	80	8.0	8.0	>7.0

Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	ϕA	Max	Min
2W-042	42	4.2	4.2	>3.2
2W-052	52	5.2	5.2	>4.2
2W-062	62	6.2	6.2	>5.2
2W-072	72	7.2	7.2	>6.2
2W-082	82	8.2	8.2	>7.2
2W-092	92	9.2	9.2	>8.2
2W-100	10	10.0	10.0	>9.0

Cable Clamp Set		Cable Collet (mm)	Cable dia Range	
Type	Code	ϕA	Max	Min
3W-062	62	6.2	6.2	>4.9
3W-072	72	7.2	7.2	>6.2
3W-082	82	8.2	8.2	>7.1
3W-092	92	9.2	9.2	>7.7
3W-100	10	10.2	10.2	>9.2
3W-110	11	11.2	11.0	>10.2
3W-120	12	12.0	12	>11.1

12. INT-Y Series Push Pull Connectors

Plug: Straight Plug



INT13-TTA



INT13-TAA

Receptacle: Fixed Panel Mount Receptacle



INT13-ZMA



INT13-ZEA

Cable Mount Receptacle



INT13-DLA

Y Series Connectors with the Following Main Features

Available in two types: self-locking and easily separable

-Small, lightweight, easy to operation

-operating temperature range:

Silicone filling-55°C-+200°C

When filling epoxy resin glue-55°C-+125 °C

When not filled (PPS insulator) -55C-+200°C

Mechanical key and color key, design to prevent incorrect insertion

POGO-PIN can be customized and easy to clean

Very robust outshell

-Signals, high/low voltage, coaxial/triaxial, fiber, fluid and other signals can be mixed in one connector

-System solutions are available, including component processing

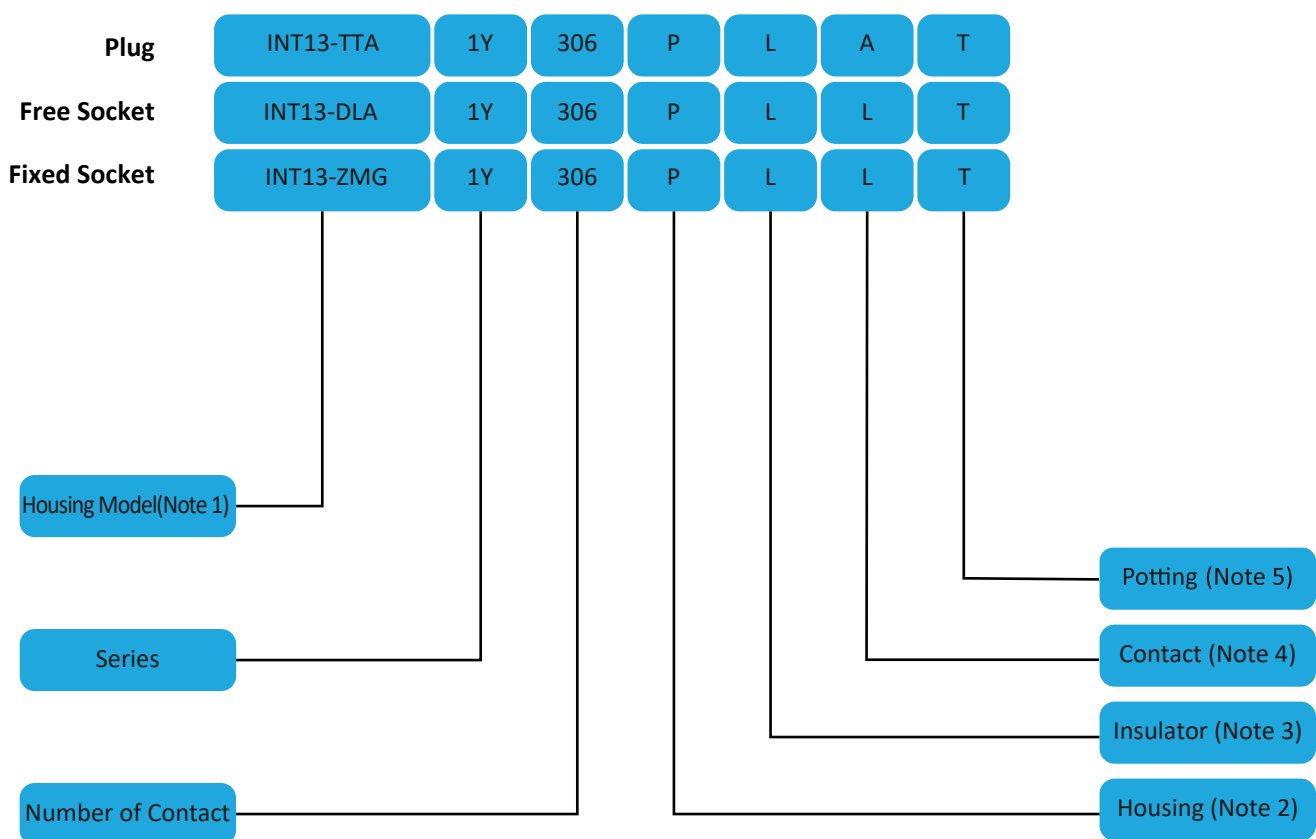
-Suitable for harsh environments

-Blind insertion and removal, easy to operate

12. INT-Y Series Push Pull Connectors

- Good shield characteristics
- Protection level: IP 68
- Reliable data transmission
- More than 5000 mating cycles

Part Numbering System



*Note 1:

INT13-TTA.1Y.306.PLAM = 1Y 6 pins short straight plug, code A, aluminum alloy shell with chemical nickel plating, PPS insulator, solder male contact type, sealed with epoxy resin

INT13-DLA.1Y.306.PLAM = 1Y 6 pins short cable mounted plug, code A, aluminum alloy shell with chemical nickel plating, PPS insulator, solder male contact type, sealed with epoxy resin

INT13-ZMA.1Y.306.PLL = 1Y 6 pins fixed receptacle, code A, aluminum alloy shell with chemical nickel plating, PPS insulator, solder male contact type, sealed with epoxy resin

*Note 2:

P=Aluminum alloy shell with chemical nickel plating
L=Aluminum alloy anodized

*Note 3:

L=PPS
P=PEEK

12. INT-Y Series Push Pull Connectors

***Note 4:**

A=Male soldering contacts
L=Female soldering contacts
N=Female straight PCB contacts

***Note 5:**

W=White silicone sealing
T=Transparent epoxy resin seal

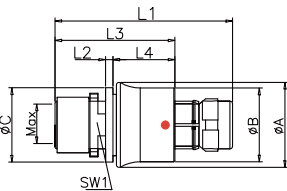
***Note 6:**

To request a ground tab, designate the letter "G", eg: INT13-ZLA.1Y.306.PLLMG

Product Size

INT13-TTA

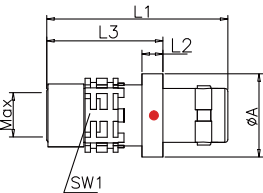
Short straight plug



Reference		Dimensions (mm)								
Series	Type	A	B	C	L1	L2	L3	L4	SW1	Max
0Y	INT13-TTA	14	12	11.9	31.4	1.5	21.4	10.4	7	5.5
1Y	INT13-TTA	15.9	13.9	13.9	33.2	1.5	22.4	11.4	8	6.5
15Y	INT13-TTA	16.5	14.5	14.5	32.7	1.5	22.7	11.7	10	8
2Y	INT13-TTA	19.6	17.6	17.6	35.2	1.5	23.2	12.2	12	10

INT13-TAA

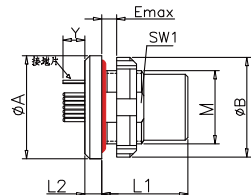
Quick-release plug



Reference		Dimensions (mm)						
Series	Type	A	L1	L2	L3	Max	SW1	
0Y	INT13-TAA	11.9	25	3	15	5.5	9	
1Y	INT13-TAA	13.9	29.2	3.5	18.4	6.5	11	
15Y	INT13-TAA	15.9	28.5	3.5	18.5	8	12	
2Y	INT13-TAA	17.6	31	4	19	10	14	

INT13-ZMA

Fixed panel mounted receptacle

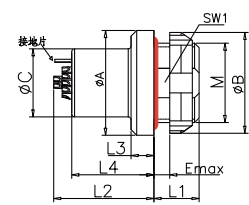


Reference		Dimensions (mm)								
Series	Type	A	B	L1	L2	M	Y	E	SW1	
0Y	INT13-ZMA	15.5	15.0	13.0	2.5	M11*0.75	35	5	10.1	
1Y	INT13-ZMA	18.5	17.9	15.5	3.0	M14*1.0	43	4	13.1	
15Y	INT13-ZMA	18.9	17.9	14.2	3.0	M14*1.0	47	4	13.1	
2Y	INT13-ZMA	20.8	21.9	17.5	3.0	M16*1.0	49	4	15.1	

12. INT-Y Series Push Pull Connectors

INT13-ZEA

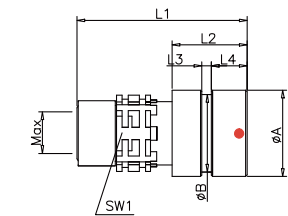
Fixed panel mounted receptacle



Reference		Dimensions (mm)									
Series	Type	A	B	C	L1	L2	L3	L4	M	E	SW1
0Y	INT13-ZEA	15.5	15.0	10.0	6.5	15.5	3.0	11.5	M11*0.75	3.0	10
1Y	INT13-ZEA	18.5	17.9	12.0	8.0	19.0	4.0	14.5	M14*1	3.5	13
15Y	INT13-ZEA	18.9	17.9	14.0	7.0	17.7	2.5	12.5	M14*1	3.0	13
2Y	INT13-ZEA	20.8	21.9	14.5	8.0	21.5	4.0	15.0	M16*1	3.0	15

INT13-DLA

Cable mounted receptacle

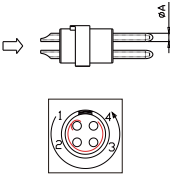
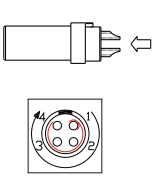


Reference		Dimensions (mm)							
Series	Type	A	B	L1	L2	L3	L4	Max	SW1
0Y	INT13-DLA	11.9	10.5	25.0	13.0	1.5	5.8	5.5	9.0
1Y	INT13-DLA	13.9	12.5	27.0	12.1	1.5	5.8	6.5	11.0
15Y	INT13-DLA	15.9	14.5	27.0	12.0	1.5	5.8	12	12.0
2Y	INT13-DLA	17.6	16.2	30.0	15.0	1.5	5.8	14	14.0

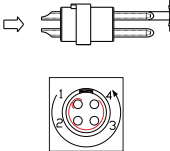
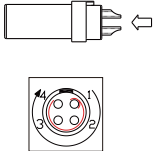
Key	A	B	C	D
Plug front view				
Color key				
Colors	Light brown	Red	Blue	Green

12. INT-Y Series Push Pull Connectors

INT-Y Series Multipole Layout

	Solder Male Contact 	Solder Female Contact 	Contact type								
			Insulator	Contact No.	ØA (MM)	Solder contact	PCB straight contact	PCB elbow contact	Test voltage (contact - contact) K/V rms	Test voltage (contact - shell) K/V rms	Rated current (A)
0Y			302	5	2.0	●	●	●	2.0	2.0	10
			303	5	0.9	●	●	●	1.2	0.4	10
			304	5	0.7	●	●	●	0.9	0.3	7
			305	5	0.7	●	●	●	0.9	0.3	7
			307	5	0.5	●	●	●	0.9	0.3	5
			309	5	0.5	●	●	●	0.6	0.3	5
1Y			310	10	0.5	●	●	●	0.6	0.3	5
			305	5	0.9	●	●	●	1.35	0.45	10
			308	8	0.7	●	●	●	1.0	0.33	7
			314	14	0.5	●	●	●	0.9	0.3	5
			316	16	0.5	●	●	●	0.9	0.3	5
			304	4	0.5	●	●	●	0.9	0.3	5
			PD8	8	0.5	●	●	●	1.0	0.33	5

12. INT-Y Series Push Pull Connectors

	Solder Male Contact 	Solder Female Contact 	Contact type								
			Insulator	Contact No.	ØA(MM)	Solder contact	PCB straight contact	PCB elbow contact	Test voltage (contact - contact) K/V rms	Test voltage (contact - shell) K/V rms	Rated current (A)
15Y			310	10	0.7	●	●	●	1.2	0.4	7
			319	19	0.5	●	●	●	1.0	0.33	5
			PD8	8	0.7	●	●	●	-	-	-
2Y			306	6	1.3	●	●	●	1.35	0.45	12
			319	19	0.7	●	●	●	0.95	16	0.32
			326	26	0.5	●	●	●	0.95	1.3	0.32
			304	4	1.3	●	●	●	1.85	1.3	0.62
			PD8	8	0.9	●	●	●	1.5	1.3	0.5
			PDM	12	0.7	●	●	●	1.25	1.3	0.42
			316	16	0.7	●	●	●	0.95	0.9	0.32

12. INT-Y Series Push Pull Connectors

0Y-PCB Panel cut-out drawing

		ZEA (mm)	ZMA (mm)
2 Pins		—	—
3 Pins		3.5	3.5
4 Pins		3.5	3.5
5 Pins		3.5	—
7 Pins		3.5	3.3
9 Pins		3.5	3.1
10 Pins		3.5	3.1
ZEA Receptacle earthing washer and PCB contact length			
ZMA Receptacle earthing washer and PCB contact length			

12. INT-Y Series Push Pull Connectors

1Y-PCB Panel cut-out drawing

		ZEA (mm)	ZMA (mm)
5 Pins		3.5	3.0
8 Pins		3.5	3.0
14 Pins		3.5	3.0
16 Pins		3.0	3.0
4 Pins		3.5	3.0
ZEA Receptacle earthing washer and PCB contact length			
ZMA Receptacle earthing washer and PCB contact length			

AY Panel cut-out drawing

		ZEA (mm)	ZMA (mm)
10 Pins		3.2	3.0
19 Pins		3.2	3.0
8 Pins		3.2	3.0
ZEA Receptacle earthing washer and PCB contact length			
ZMA Receptacle earthing washer and PCB contact length			

12. INT-Y Series Push Pull Connectors

2Y-PCB Panel cut-out drawing

		ZEA (mm)	ZMA (mm)
6 Pins		4.5	3.0
19 Pins		5.5	3.0
26 Pins		5.5	3.0
		ZEA (mm)	ZMA (mm)
4 Pins		4.5	3.0
8 Pins		5.0	3.5
12 Pins		5.5	3.0
		ZEA (mm)	ZMA (mm)
16 Pins		5.5	3.0
ZEA Receptacle earthing washer and PCB contact length		ZMA Receptacle earthing washer and PCB contact length	

13. INT-P Series Plastic Connectors

Plug



INT13-P-TAG



INT13-P-TAG (Z)



INT13-2P-TAB



INT13-3P-TAG

Panel Mount Receptacle



INT13-P-ZKG



INT13-P-ZKG (elbow)



INT13-P-ZLG



INT13-P-ZLG



INT13-P-ZLG



INT13-P-ZLG



INT13-P-ZLG



INT13-P-ZLG



INT13-2P-ZKB



INT13-3P-ZLG

Cable Mount Receptacle



INT13-P-ZRG



INT13-P-ZRG (Z)

13. INT-P Series Plastic Connectors

Push-Pull Self-Latching Connection System



Drawing	Specification
	Engaging The self-latching system allows the connector to be mated by simply pushing the plug into the receptacle.
	Latched Once firmly latched, the connection cannot be broken by pulling on the cable or any other component part other than the outer release sleeve.
	Disengaging When required, the connector is disengaged by a single axial pull on the outer release sleeve. This first disengage the latches and then withdraws the plug from the socket.

13. INT-P Series Plastic Connectors

P Series Plastic Connector with the Following Main Features

1. Quick push-pull self-latching connection system
2. Solder and PCB (straight and elbow) contacts
3. Keying system (G key standard) for connector alignment
4. Multiple key options to avoid cross mating of similar connectors
5. High-temperature endurable plastic out shell (-25°C~125°C)
6. High density configuration for saving space
7. Can be sterilization
8. Available custom assembly solutions

Technical Characteristics

Mechanical and Climatical

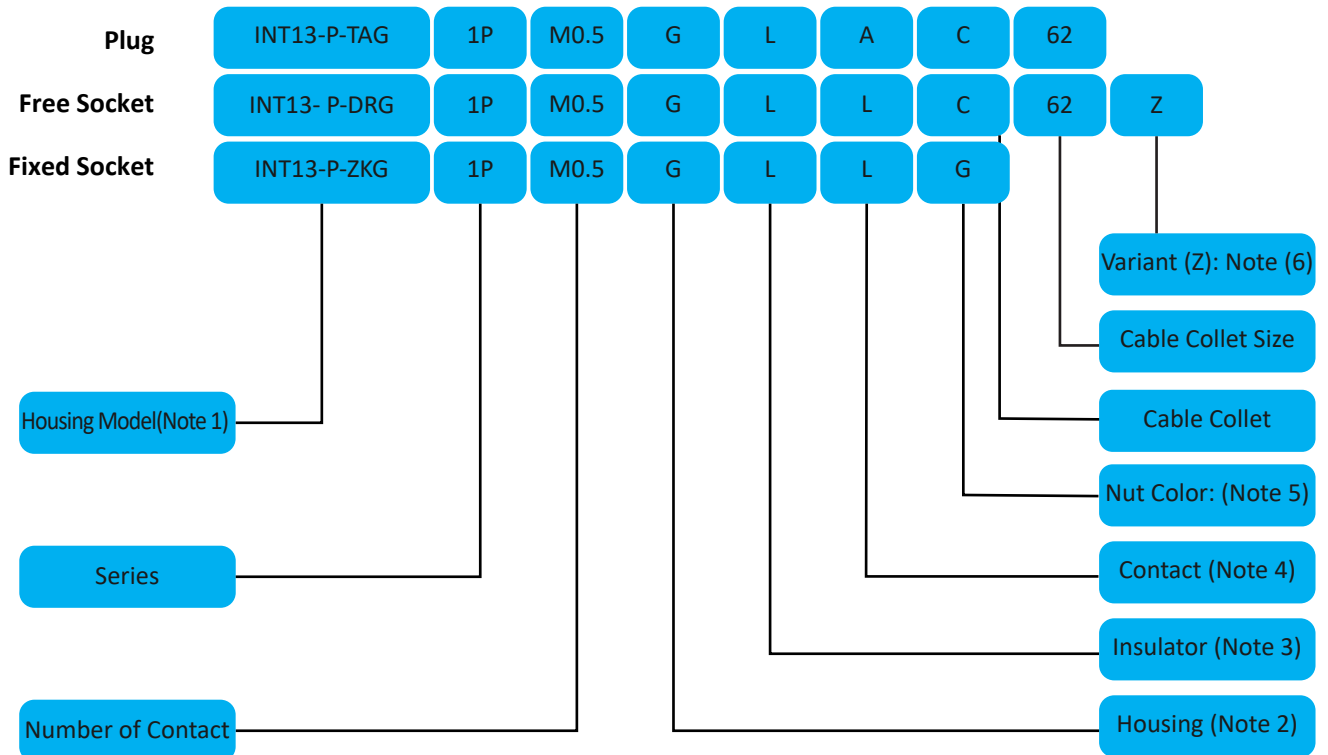
Characteristics	Value	Standard
Endurance	>1000 cycles	IEC 60512-5 test 9a
Humidity	Up to 95% at 60°C	
Temperature Range	-20°C, +120°C	
Resistance to Vibration	10-2000Hz, 15g	IEC 60512-4 test 6d
Shock Resistance	100g, 6ms	IEC 60512-4 test 6c
Salt Spray Corrosion Test	>72h	IEC 60512-6 test 11f
Protection Index (mated)	IP 50	IEC 60529
Climatical category	55/175/21	IEC 60068-1

Electrical

Characteristics		Value	Standard
Shielding Efficiency	at 10 MHZ	>75 dB	IEC 60619-1-3
	at 1 GHZ	>40 dB	IEC 60619-1-3

13. INT-P Series Plastic Connectors

Part Numbering System



*Note 1:

To place an order for a concave surface, please use the identifier INT12
 INT13-TAG.M0.5GL.AC52A = 1P series 5 pins straight plug, G key (alpha=0), PC housing, PPS insulator, 5.2mm cable collet, blue nut.

INT13-DRG.M0.5GL.LC52A = 1P series 5 pins cable mounted receptacle, G key (alpha=0), PC housing, PPS insulator, 5.2mm cable collet, blue nut.

*Note 2:

G=Gray(PC)
 N=Black(PC)
 B=White(PC)

*Note 3:

L=PPS

*Note 4:

A=Male soldering contacts
 L=Female soldering contacts
 D=Male straight PCB contacts
 N=Female straight PCB contacts
 W=Male 90° PCB contacts
 V=Female 90° PCB contacts

*Note 5:

Front Nut Color
 N=Black G=Gray A=Blue R=Red J=Yellow V=Green

*Note 6:

To request a model that includes a nut for fitting the bend relief, designate the variant position with the letter "Z" and include the bend relief part numbers INT13-GMA.

Bend relief color:

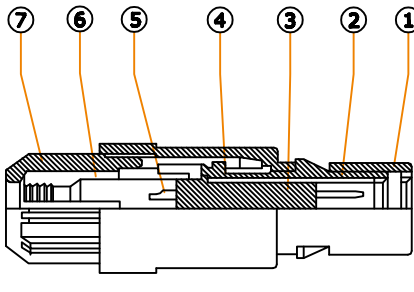
N=Black G=Gray A=Blue R=Red J=Yellow V=Green

13. INT-P Series Plastic Connectors

Part Section Showing Internal Components

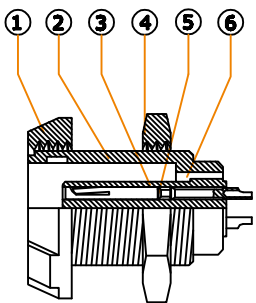
Straight Plug

- ① Outer Shell
- ② Latch Sleeve
- ③ Insulator
- ④ Male Contact
- ⑤ Split Insert Carrier
- ⑥ Collet
- ⑦ Nut



Fixed Receptacle

- ① Outer Shell
- ② Retaining Ring
- ③ Hexagonal Nut
- ④ Locking Washer
- ⑤ Insulator
- ⑥ Female Contact

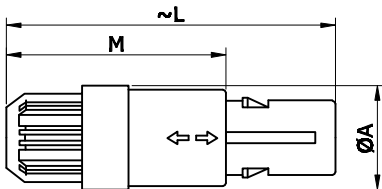


Product Size

1P Series:

INT13-P-TAG

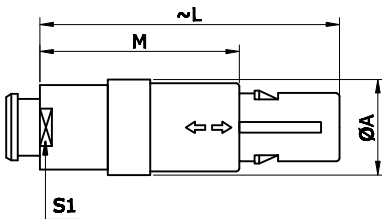
Straight plug, key (G) or keys (A, B, C, H, J), cable collet



Reference		Dimensions (mm)		
Model	Series	A	L	M
INT13-P-TAG	1P	14	46.5	32

INT13-P-TAG

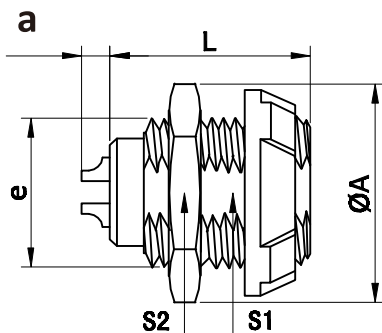
Straight plug, key (G) or keys (A, B, C, H, J), cable collet, nut for fitting a bend relief



Reference		Dimensions (mm)				
Model	Series	A	L	M	S1	
INT13-P-TAG	1P	14	45.5	32	9	

INT13-P-ZKG

Fixed receptacle with two nuts, key (G) or keys (A, B, C, H, J), back panel mounting

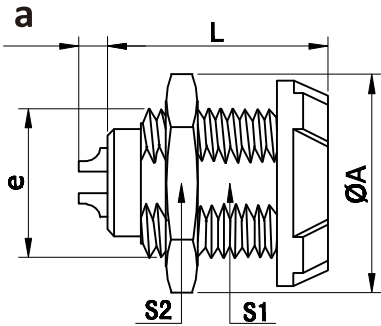


Reference		Dimensions (mm)						
Model	Series	A	L	a	e	S1	S2	
INT13-P-ZKG	1P	18.5	20.5	2.7	M14* 1.0	12.5	17	

13. INT-P Series Plastic Connectors

INT13-P-ZLG

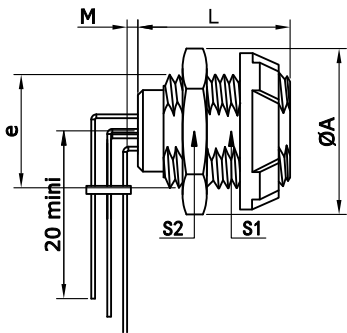
Fixed receptacle, all-in-one type, key (G) or keys (A, B, C, H, J), nut fixing



Reference		Dimensions (mm)					
Model	Series	A	L	a	e	S1	S2
INT13-P-ZLG	1P	19.5	20.5	2.7	M14* 1.0	12.5	17

INT13-P-ZKG

Fixed receptacle, key (G) or keys (A, B, C, H, J), elbow 90° contact for printed circuit



Reference		Dimensions (mm)					
Model	Series	A	L	M	e	S1	S2
INT13-P-ZKG	1P	19.5	20.5	2.0	M14 * 1.0	12.5	17.0

INT13-P-ZRG

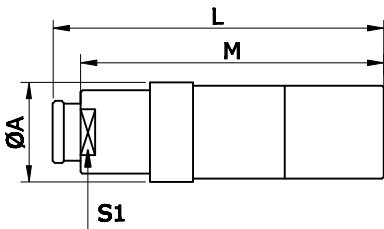
Free cable mount receptacle, key (G) or keys (A, B, C, H, J), cable collet



Reference		Dimensions (mm)	
Model	Series	A	L
INT13-P-ZRG	1P	14	40

INT13-P-ZRG

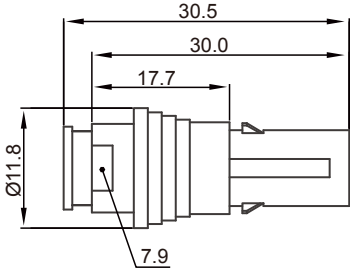
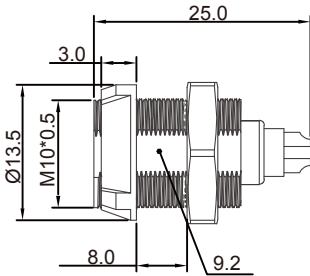
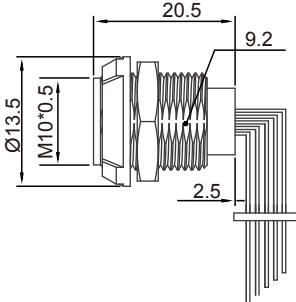
Free cable mount receptacle, key (G) or keys (A, B, C, H, J), cable collet, nut for fitting a bend relief



Reference		Dimensions (mm)			
Model	Series	A	L	M	S1
INT13-P-ZRG	1P	14	43	38.7	9

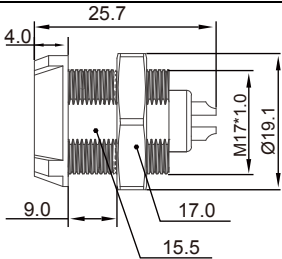
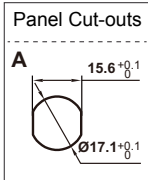
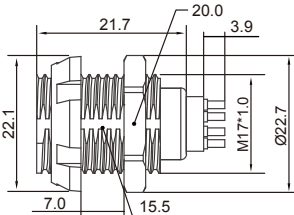
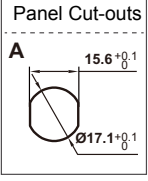
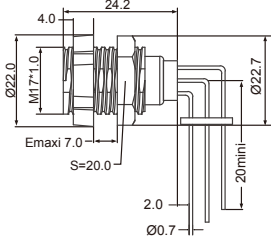
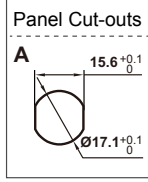
13. INT-P Series Plastic Connectors

OP Series

Part Number	Product Photo	Size
INT13-0P-TAG		
INT13-0P-ZKG		 Panel Cut-outs A $9.3^{+0.1}_0$ $\text{Ø}10.1^{+0.1}_0$
INT13-0P-ZKG		 Panel Cut-outs A $9.3^{+0.1}_0$ $\text{Ø}10.1^{+0.1}_0$

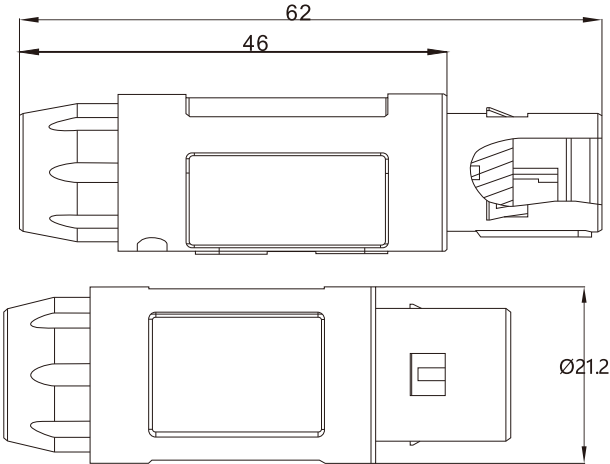
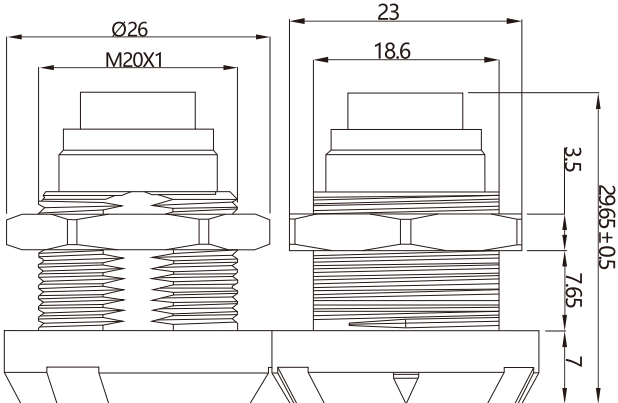
13. INT-P Series Plastic Connectors

2P Series

Part Number	Product Photo	Size
INT13-2P-TAB		
INT13-2P-TAB(Z)		
INT13-2P-ZLB		 
INT13-2P-ZKB		 
INT13-2P-ZKB(Elbow)		 

13. INT-P Series Plastic Connectors

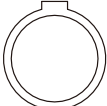
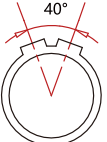
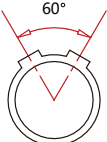
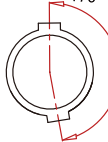
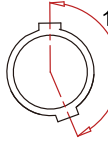
3P Series

Part Number	Product Photo	Size
INT13-3P-TAG		
INT13-3P-ZLG		

13. INT-P Series Plastic Connectors

Alignment Key and Polarized Keying System

1P Series

Keying (plug front view)						
Key Code	G	A	B	C	H	J

Alignment keys:



G = standard key



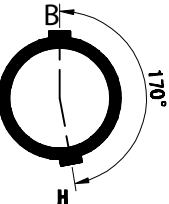
A = two keys with 40 degree



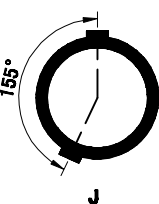
B = two keys with 60 degree



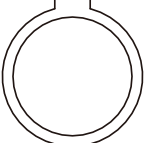
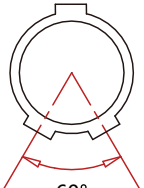
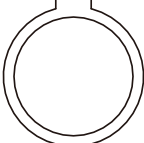
C = two keys with 80 degree



H = two keys with 170 degree

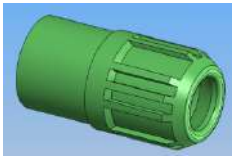
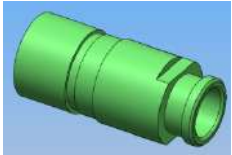
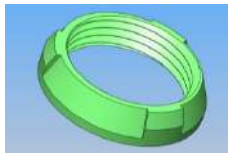
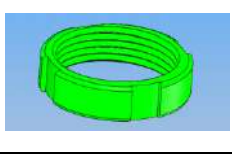
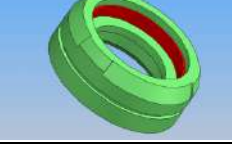
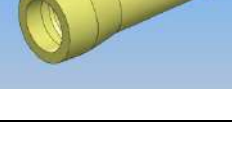


J = two keys with 155 degree

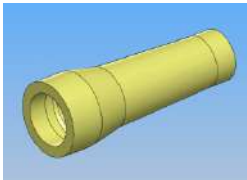
Keying (plug front view)			
Key Code	0P	2P	3P

13. INT-P Series Plastic Connectors

Nut Code

	Code	Color		Code	Color
	G	Gray		N	Black
	A	Blue		R	Red
	Code	Color		Code	Color
	G	Gray		N	Black
	A	Blue		R	Red
	Code	Color		Code	Color
	G	Gray		N	Black
	A	Blue		R	Red
	Code	Color		Code	Color
	G	Gray		N	Black
	A	Blue		R	Red
	Code	Color		Code	Color
	G	Gray		N	Black
	A	Blue		R	Red
	Code	Color		Code	Color
	G	Gray		N	Black
	A	Blue		R	Red
	Code	Color		Code	Color
	G	Gray		N	Black
	A	Blue		R	Red
	Code	Color		Code	Color
	G	Gray		N	Black
	A	Blue		R	Red
	Code	Color		Code	Color
	G	Gray		N	Black
	A	Blue		R	Red
	Code	Color		Code	Color
	G	Gray		N	Black
	A	Blue		R	Red
	Code	Color		Code	Color
	G	Gray		N	Black
	A	Blue		R	Red

Bend Relief Code

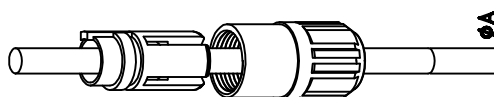
	Code	Color		Code	Color
	G	Gray		V	Green
	A	Blue		W	White
	J	Yellow		B	Brown
	N	Black		O	Orange
	R	Red		I	Beige

13. INT-P Series Plastic Connectors

Bend Relief Size

	Size	ϕA	AWG	
			$\phi B(\text{Max.})$	$\phi B(\text{Min.})$
	0P	4.0	3.9	2.7
		5.0	4.9	3.7
1P		4.2	4.1	3.0
		5.2	5.1	4.0
		6.5	6.4	5.2
2P		5.2	5.1	4.0
		7.2	7.1	6.0
		8.0	7.9	6.8
		9.0	8.9	7.8
3P		12.0	12.0	11.0

Cable Collet Size



Cable Clamp Set	$\phi A(\text{mm})$	Cable $\phi(\text{mm})$	
		Min	Max
1P-040	4.0	2.7	4.0
1P-052	5.2	4.0	5.2
1P-060	6.0	5.5	6.0

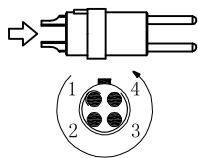
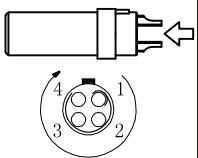
Size	ϕA	AWG min~max		Size	ϕA	AWG min~max
2P	52	3.3~5.2mm		0P	40	2.7~3.9mm
	72	5.3~7.2mm		0P	50	3.7~4.9mm
	92	7.3~9.2mm		3P	12	11.0~12.0mm

13. INT-P Series Plastic Connectors

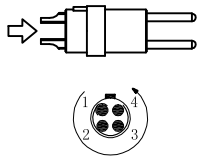
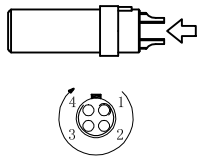
INT-P Series Multipole Layout

Series	Insulator	Pin Array		ØA (mm)	Contact resistance (mΩ)	Related current (A)	Test voltage (V)	Work Voltage(V)
		Solder male contact	Solder female contact					
OP	02			0.9	6	10	1000	450
	03			0.9	6	8	875	400
	04			0.7	7.5	7	875	300
	05			0.7	7.5	6.5	750	350
	06			0.5	10	2.5	750	300
	07			0.5	10	2.5	750	250
	09			0.5	10	2	600	200

13. INT-P Series Plastic Connectors

Series	Insulator	Pin Array		ØA (mm)	Contact resistance (mΩ)	Related current (A)	Test voltage (V)	Work Voltage(V)
		Solder male contact 	Solder female contact 					
1P	02			1.3	5	10	1200	500
	03			1.3	5	9	1200	500
	04			0.9	6	8	1200	500
	05			0.9	6	7	1050	500
	06			0.7	7.5	6	1050	450
	07			0.7	7.5	5	1050	450
	08			0.7	7.5	5	1050	400
	09			0.5	10	3	850	333
	10			0.5	10	3	850	333
	12			0.5	10	2.2	750	333
	14			0.5	10	2	600	550

13. INT-P Series Plastic Connectors

Series	Insulator	Pin Array		ØA (mm)	Contact resistance (mΩ)	Related current (A)	Test voltage (V)	Work Voltage(V)
		Solder male contact 	Solder female contact 					
2P	02			2.0	3	30	1650	600
	03			1.6	4	17	1800	600
	04			1.3	5	15	1800	500
	05			1.3	5	14	1500	500
	06			1.3	5	12	1500	550
	07			1.3	6	11	1680	400
	08			0.9	6	10	1200	400
	10			0.9	7.5	8	1200	450
	12			0.7	7.5	7	1350	400
	16			0.7	7.5	6	1200	400
	18			0.7	7.5	6	1200	400
	19			0.7	7.5	6	1200	400
	26			0.5	8	5.5	1200	400

14. INT Metal & Plastic Hybrid Connectors

Plug (Fluidic)



INT13-TGG



INT13-TGG (Z)



INT13-TGG.4P

Receptacle (Fluidic)



INT13-ZGG.2B (6+1)



INT13-ZGG.3B (8+1)



INT13-ZGG.2B(10+1)



INT13-ZGG.3B(13+1)



INT13-ZGG.3B(6+2)



INT13-ZGG.4P(9+2)



INT13-ZGG.4P(13+1)

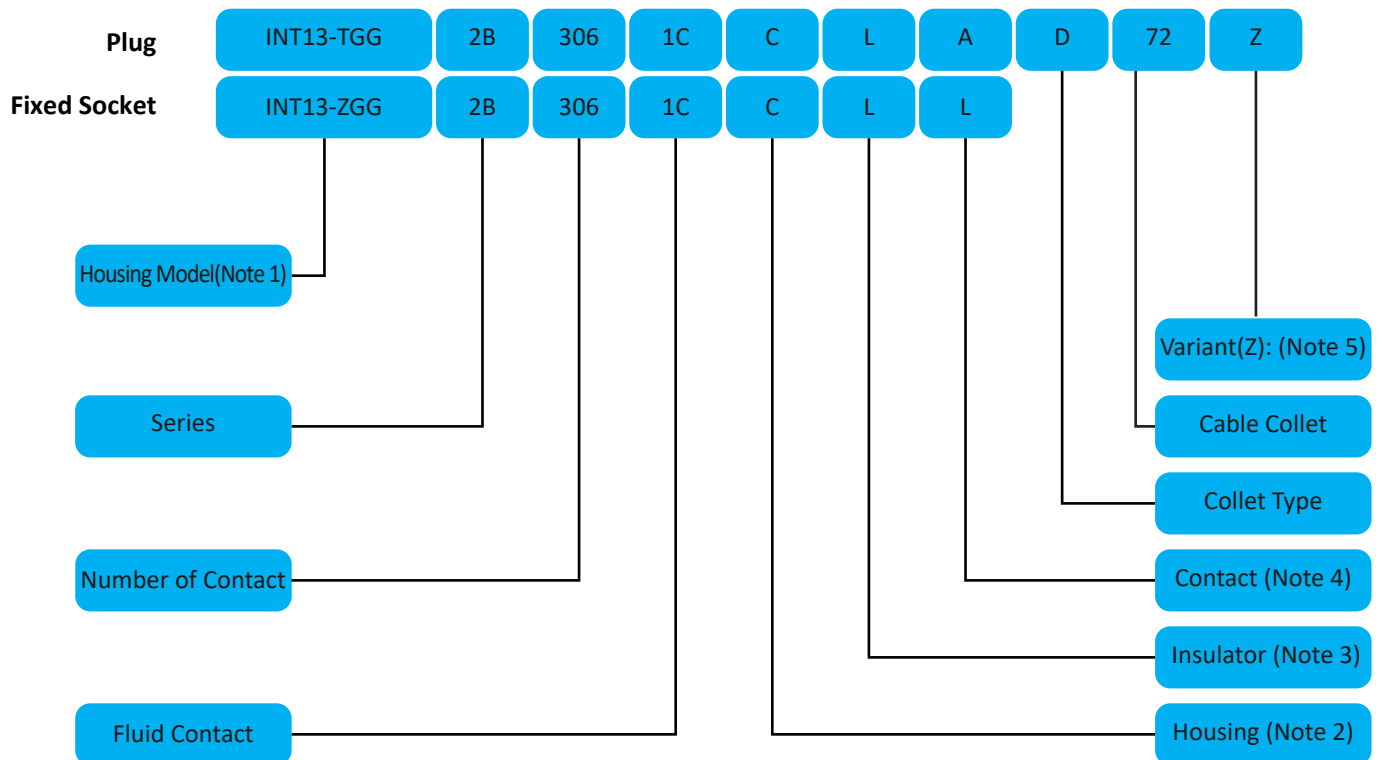
Hybrid Fluidic Connector with the Following Main Features

1. Security of the original Push-Pull self-latching system.
2. The alignment key (G, A, B, C) ensures excellent repeatability of performance during frequent mattings.
3. The P1 fluid contact mixed low voltage contacts allow hybrid configuration in the B, K and P series series.
4. The possible outer cable diameters range from 4.0 to 12.0mm

The P1 fluidic contact has been designed to work in the B, K and P series series. This kind of fluidic connector is used for medical and dentistry equipment. The connector is of the monotube type and primarily intended for use with air or inert gas.

14. INT-Metal & Plastic Hybrid Connectors

Part Numbering System



*Note 1:

To place an order for a chocolate design, please use the identifier INT12

INT13-TGG.2B.306+1C.CLAD72Z = 2B series straight plug, 6 low voltage contacts + 1 fluidic contact, 1 key (alpha=0), 7.2mm cable collet, nut for fitting bend relief

INT13-ZGG.2B.306+1C.CLL = 2B series fixed receptacle, 6 low voltage contacts + 1 fluidic contact, 1 key (alpha=0)

*Note 2:

C=Brass plated chrome

K=Brass plated black chrome (At the end of the model number, adding 'R' indicates a red dot, while adding 'W' indicates a white dot.)

N=Brass plated nickel

T=Stainless Steel

L=Aluminum alloy anodized

*Note 3:

L=PPS

P=PEEK

*Note 4:

A=Male soldering contacts

L=Female soldering contacts

D=Male straight PCB contacts

N=Female straight PCB contacts

W=Male 90° PCB contacts

V=Female 90° PCB contacts

*Note 5:

To request a model that includes a nut for fitting the bend relief, designate the variant position with the letter "Z" and include the bend relief part numbers INT13-GMA.

Bend relief color:

N=Black G=Gray A=Blue R=Red J=Yellow V=Green

14. INT-Metal & Plastic Hybrid Connectors

B K Series Metal Hybrid Connector – Low Voltage Contacts Mixed Fluidic Tube

B K Series Metal Hybrid Connector – Low Voltage Contacts Mixed Coaxial Contacts

B Series Plug



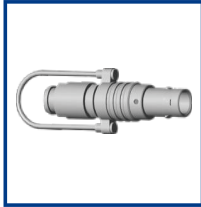
INT13-TGG



INT13-TEG



INT13-TFG



INT13-TNG



INT13-THG



INT13-TSG



INT13-TAG

B Series Receptacle



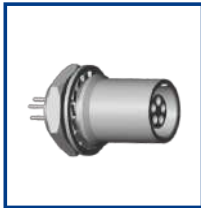
INT13-ZGG



INT13-ZCG



INT13-ZEG



INT13-ZHG



INT13-RFG



ITN13-RKG



INT13-DHG

K Series Plug



INT13-TGG



INT13-TGG



INT13-THG

K Series Receptacle



INT13-ZGG



INT13-ZEG



INT13-DHG



INT13-ZHG

14. INT-Metal & Plastic Hybrid Connectors

P Series Plastic Hybrid Connector – Low Voltage Contacts Mixed Fluidic Tube



INT13-2P-TGG



INT13-2P-ZKB



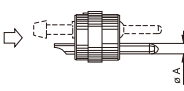
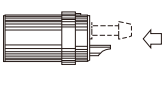
INT13-TGG.4P



INT13-ZGG.4P

	Male contact	Female contact	Reference	Fluidic Contact				Low Voltage Contact					
				Number of fluidic tube	Ext. ϕ of tube	Int. ϕ of tube	Max. working pressure (bars)	Contact No	ϕ A (mm)	Solder contact	Test voltage (kV rms) Contact-contact	Test voltage (kV rms) Contact-shell	Rated current (A)
1B 1K			304 + 1	1	3.0	1.8	6	4	0.7 0.5	●	0.5	0.7	3
			304 + 1	1	3.0 4.0	1.8 2.0	6	4	0.7	●	0.85	1.2	6
2B 2K			306 + 1	1	3.0 4.0	1.8 2.0	6	6	0.7	●	0.85	1.2	6
			310 + 1	1	3.0 4.0	1.8 2.0	6	10	0.7	●	1.15	1.35	6
			308 + 1	1	3.0 4.0	1.8 2.0	6	8	0.9	●	0.8	0.95	8
3B 3K			313 + 1	1	3.0 4.0	1.8 2.0	6	13	0.7	●	0.7	0.8	5
			306 + 2	2	3.0 4.0	1.8 2.0	6	6	0.9	●	1.2	1.05	8
			310 + 4	4	3.0	1.8	6	9	0.9	●	1.0	1.0	8
4B 4K			312 + 3	3	3.0	1.8	6	12	0.9	●	0.9	0.95	6
2P			304 + 1	1	4.0	3.0	6	4	0.7	●	1.4	0.6	5

14. INT-Metal & Plastic Hybrid Connectors

	Male contact	Female contact	Reference	Fluidic Contact				Low Voltage Contact					
				Number of fluidic tube	Ext. ϕ of tube	Int. ϕ of tube	Max. working pressure (bars)	Contact No	ϕ A (mm)	Solder contact	Test voltage (kV rms) Contact-contact	Test voltage (kV rms) Contact-shell	Rated current (A)
4P			306 + 1	1	4.0	3.0	6	6	0.9	●	1.5	1.0	10
			304 + 1	1	4.0	2.0	6	4	2.0	●	2.0	1.75	6
			306 + 1	1	4.0	2.0	6	6	2.0	●	2.0	1.75	6
			309 + 2	2	4.0	2.5	6	9	0.9	●	1.2	1.05	8
			313 + 1	1	6.0	4.0	6	9+2	2 0.9	●	2.0 1.2	1.75 1.05	15 6

14. INT-Metal & Plastic Hybrid Connectors

IP50 Plug (Coaxial)



INT13-TGG (Z)



INT13-TGG

IP68 Plug (Coaxial)



INT13-TGG (Z)



INT13-ZEG

IP50 Receptacle (Coaxial)



INT13-ZCG

IP68 Receptacle (Coaxial):



INT13-ZEG

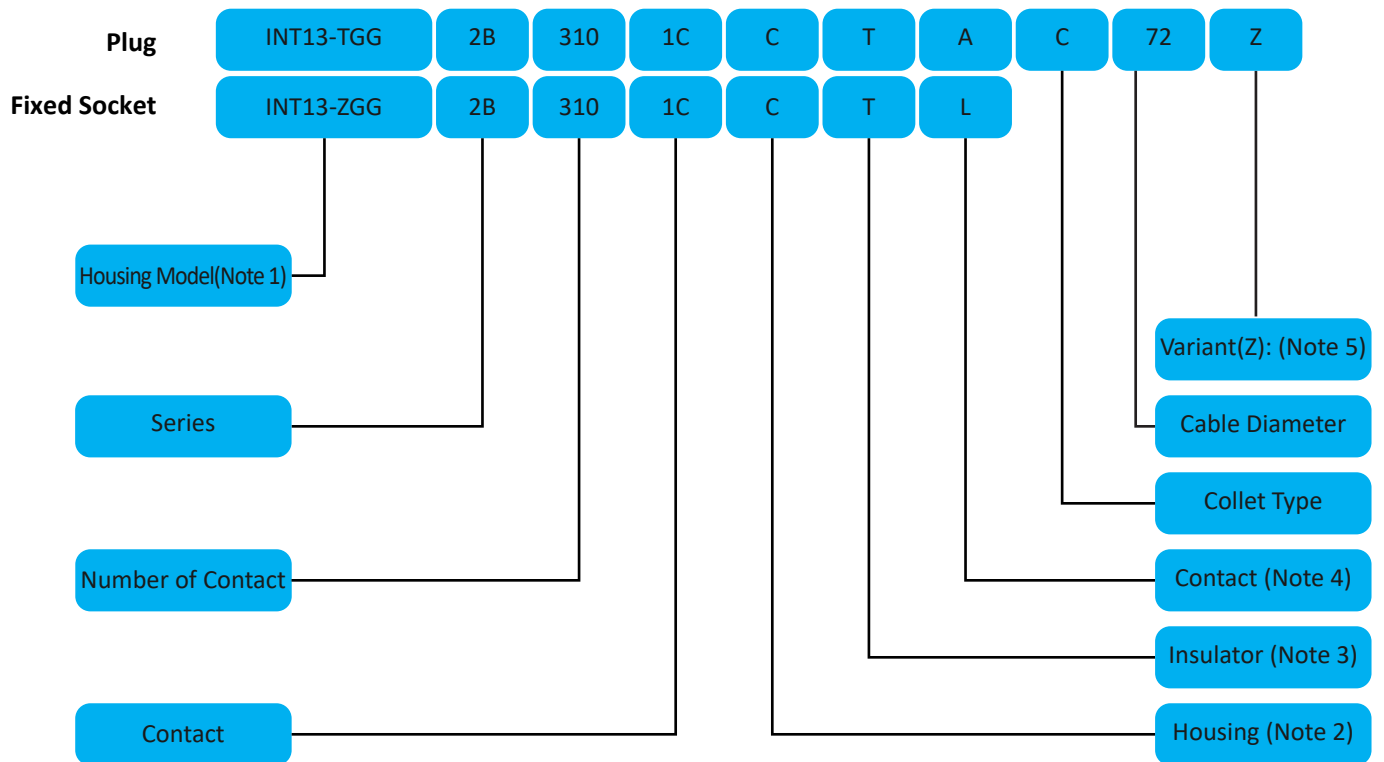
Hybrid Coaxial Connector with the Following Main Features

1. Fast push-pull self-locking connection
2. Ease of installation
3. High density mixed insert configuration for saving space
4. Keying system («G» key standard) for connector alignment
5. 360° screening for full EMC shielding
6. Rugged housing for extreme working conditions
7. Available custom cable assembly
8. Combined transmission of various media in one interface: electrical (signals, power, data)

The coaxial contact mixed low voltage contacts insert has been designed to work in the 2B, 2K and 3B, 3K series. Smaller, lighter, more powerful hybrid connectors, what apply for end devices in the areas of industry, medical technology, as well as test and measurement is also a key requirement for the connecting interfaces and transmission infrastructure. They are suited for use in harsh environments while ensuring high numbers of mating cycles.

14. INT-Metal & Plastic Hybrid Connectors

Part Numbering System



*Note 1:

To place an order for a chocolate design, please use the identifier INT12

INT13-TGG.2B.306+1C.CTAC72Z = 2B series straight plug, 6 low voltage contacts + 1 coaxial contact, 1 key (alpha=0), 7.2mm cable collet, nut for fitting bend relief

INT13-ZGG.2B.306+1C.CTL = 2B series fixed receptacle, 6 low voltage contacts + 1 coaxial contact, 1 key (alpha=0)

*Note 2:

C=Brass plated chrome

K=Brass plated black chrome (At the end of the model number, adding 'R' indicates a red dot, while adding 'W' indicates a white dot.)

N=Brass plated nickel

T=Stainless Steel

L=Aluminum alloy anodized

*Note 3:

L=PPS

T=PTFE

P=PEEK

*Note 4:

A=Male soldering contacts

L=Female soldering contacts

D=Male straight PCB contacts

N=Female straight PCB contacts

W=Male 90° PCB contacts

V=Female 90° PCB contacts

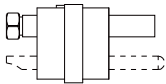
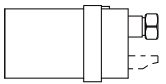
*Note 5:

To request a model that includes a nut for fitting the bend relief, designate the variant position with the letter "Z" and include the bend relief part numbers INT13-GMA.

Bend relief color:

N=Black G=Gray A=Blue R=Red J=Yellow V=Green

14. INT-Metal & Plastic Hybrid Connectors

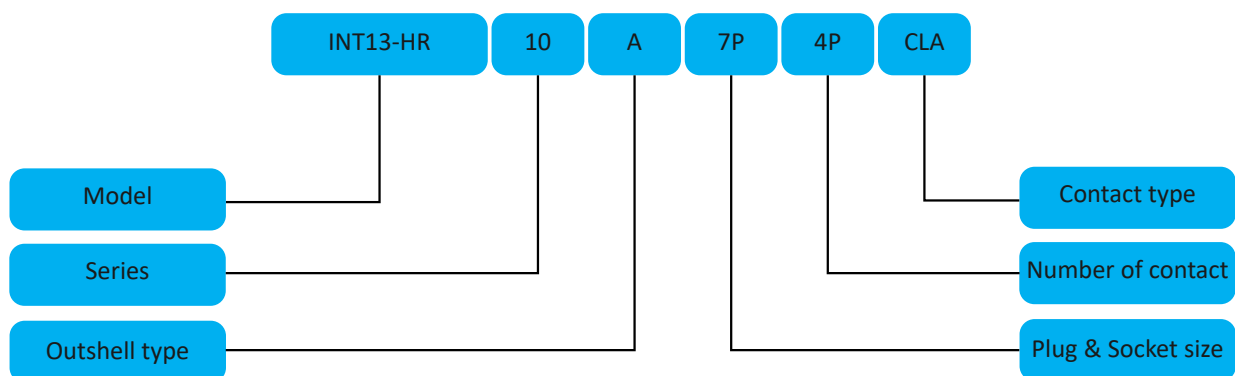
	Male contact	Female contact		Coaxial Contact				Low Voltage Contact				
			Reference	Number of contacts	Impedance (Ω)	Cable group	Contact No	ϕ A (mm)	Solder contact	Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
2B 2K			306 + 1	1	50	1-2-3	6	0.7	●	0.75	1.05	7
			310 + 1	1	50	1-2-3	10	0.7	●	0.95	1.35	7
3B 3K			308 + 1	1	50	1-2-3	8	0.9	●	1.0	1.5	8
			310 + 1	1	50	1-2-3	10	0.7	●	0.9	1.3	7
			306 + 2	2	50	1-2-3	6	0.9	●	0.9	1.3	10

15. INT-HR10 Series Miniature Camera Connector

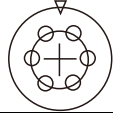
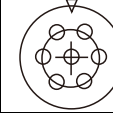
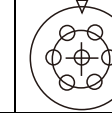
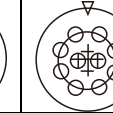
HR10 Series Connector with the Following Main Features

1. Push-pull coupling mechanism assures easy and quick connecting & disconnecting.
2. Smart design, well-balanced, simplified layout in the limited space.
3. Straight solder contacts, PCB contacts.
4. Five-key system permits only one way of coupling when blind mating.
5. Series of multi-core, high-density installation space-saving.
6. Easy wiring and mounting, no use of screws make wiring and mounting easier.

Part Numbering System



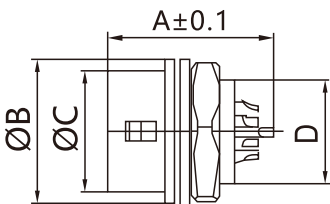
Technical Characteristics

No.	Out Shell Size	01			02	
	Pin Array					
	Specification	4	6	7	7	10
1.	Contact Diameter (mm)	0.6			0.8	0.6
2.	Contact Resistance (mΩ)	10			6.5	10
3.	Working Voltage (KV/DC)	0.3			0.45	0.3
	Working Voltage (KV/AC)	0.2			0.35	0.2
4.	Experimental Voltage (KV/DV)	0.9			1.2	0.9
	Experimental Voltage (KV/AV)	0.5			0.8	0.5
5.	Working Current (A)	2			3.5	2
6.	Work temperature (°C)	-40°C~125°C				
7.	Lifetime	1000 times				

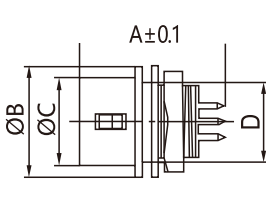
15. INT-HR10 Series Miniature Camera Connector

Product Size

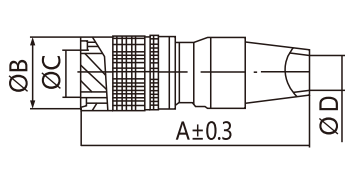
Fixed Socket with Solder Pin

						
Size	Item NO.	Pin Array	A	B	C	D
01	INT13-HR10A-7R-4S-CLL	4	14	11	8.85	M8*0.5
	INT13-HR10A-7R-6S-CLL	6	14	11	8.85	M8*0.5
	INT13-HR10A-7R-7S-CLL	7	14	11	8.85	M8*0.5
02	INT13-HR10A-10P-7S-CLL	7	16	14	11.9	M11*0.75
	INT13-HR10A-10P-10S-CLL	10	16	14	11.9	M11*0.75
	INT13-HR10A-10P-12S-CLL	12	16	14	11.9	M11*0.75

Fixed Receptacle with PCB Pin

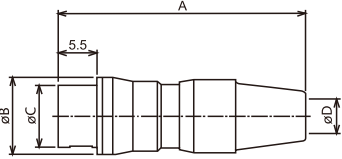
						
Size	Item NO.	Pin Array	A	B	C	D
01	INT13-HR10A-7R-4S-CLN	4	15.5	11	8.85	M8*0.5
	INT13-HR10A-7R-6S-CLN	6	15.5	11	8.85	M8*0.5
	INT13-HR10A-7R-7S-CLN	7	15.5	11	8.85	M8*0.5
02	INT13-HR10A-10P-7S-CLN	7	15.5	14	11.9	M11*0.75
	INT13-HR10A-10P-10S-CLN	10	15.5	14	11.9	M11*0.75
	INT13-HR10A-10P-12S-CLN	12	15.5	14	11.9	M11*0.75

Plug with Solder Pin

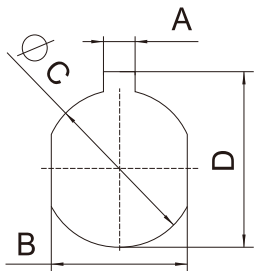
						
Size	Item NO.	Pin Array	A	B	C	D
01	INT13-HR10A-7P-4P-CLA	4	35.5	11	8.85	5
	INT13-HR10A-7P-6P-CLA	6	35.5	11	8.85	5
	INT13-HR10A-7P-7P-CLA	7	35.5	11	8.85	5
02	INT13-HR10A-10P-7P-CLA	7	44	14	11.9	7
	INT13-HR10A-10P-10P-CLA	10	44	14	11.9	7
	INT13-HR10A-10P-12P-CLA	12	44	14	11.9	7

15. INT-HR10 Series Miniature Camera Connector

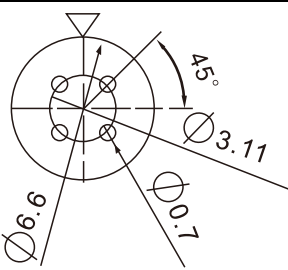
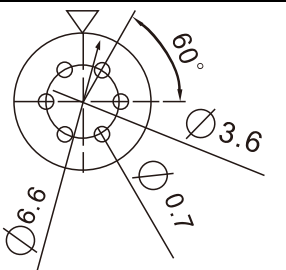
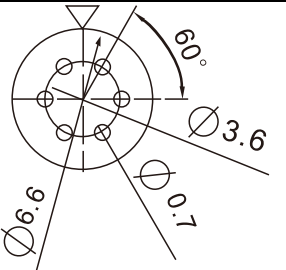
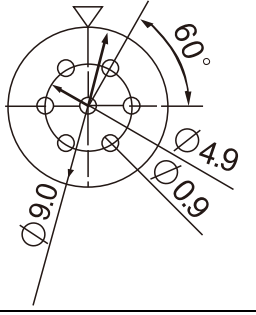
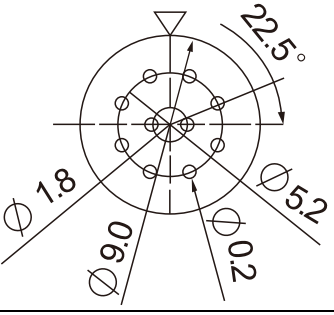
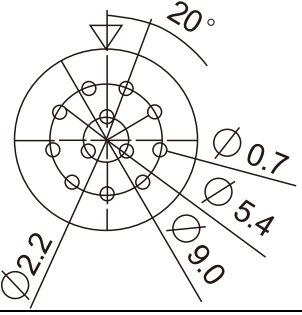
Free Receptacle with Solder Pin

						
Size	Item NO.	Pin Array	A	B	C	D
01	INT13-HR10A-7J-4S-CLL	4	35.5	11	8.85	5
	INT13-HR10A-7J-6S-CLL	6	35.5	11	8.85	5
	INT13-HR10A-7J-7S-CLL	7	35.5	11	8.85	5
02	INT13-HR10A-10J-7S-CLL	7	44	14	11.9	7
	INT13-HR10A-10J-10S-CLL	10	44	14	11.9	7
	INT13-HR10A-10J-12S-CLL	12	44	14	11.9	7

Panel Holes Dimension for Fixed Receptacle

	Size	Drawing	A	B	C	D
	01		1.6	7.3	8.1	9.0
	02		2.5	10.1	11.1	12

PCB Drilling Pattern

Size	Pin Array		
01			
	04	06	07
02			
	07	10	12

16. INT-BP Series Fluidic Connector

Metal Fluidic Connector



INT13-BP12



INT13-BP15



INT13-BP16



INT13-BP44

Metal Fluidic Connector with the Following Main Features

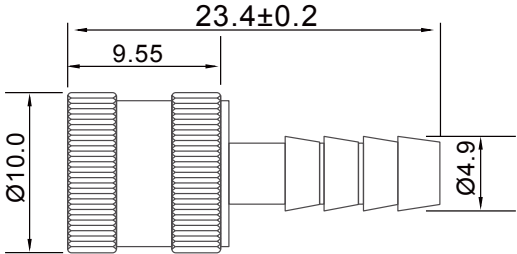
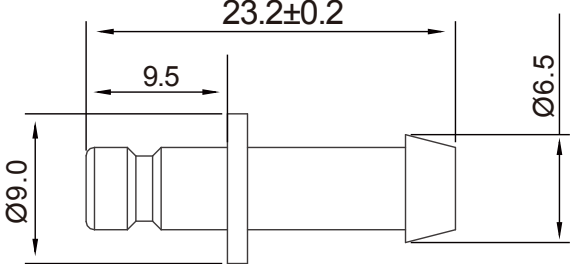
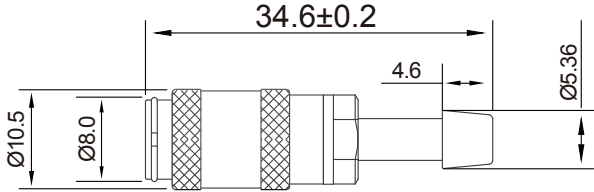
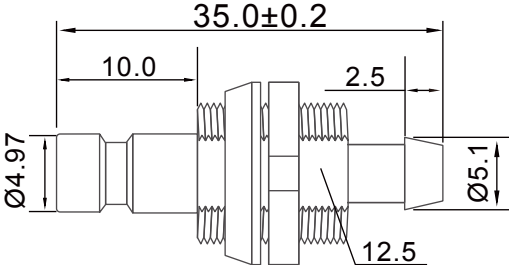
NIBP connectors are widely used in medical appliances, instruments and industries with wind (water) piping interconnection. They can be realized fast connection and disconnection.

Technical Specifications

Tube Diameter	5.00mm or 4.00mm
Work Temperature	-20°C ,+120°C
Certifications	RoHS compliant
Material Connector	Copper alloy housing, nickel plating
Connection	Quick connect and disconnect (Bayonet)
Life Cycles	1000 times

16. INT-BP Series Fluidic Connector

Product Size

Part Number	Product Photo	Size
INT13-BP44		
INT13-BP12		
INT13-BP15		
INT13-BP16		

16. INT-BP Series Fluidic Connector

PLastic Fluidic Connector



INT13-P-TAG



INT13-P-TAG(Z)



INT13-P-ZKG

Plastic Fluidic Connector with the Following Main Features

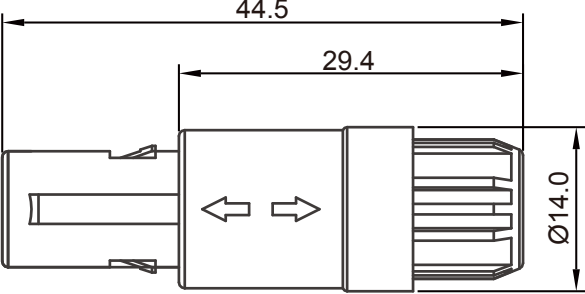
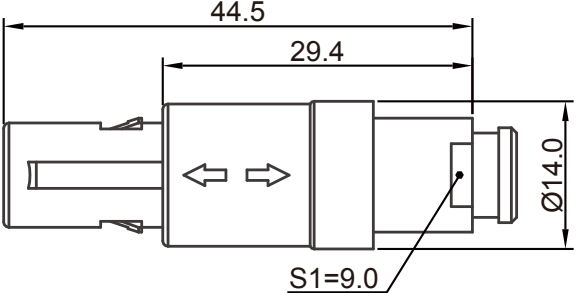
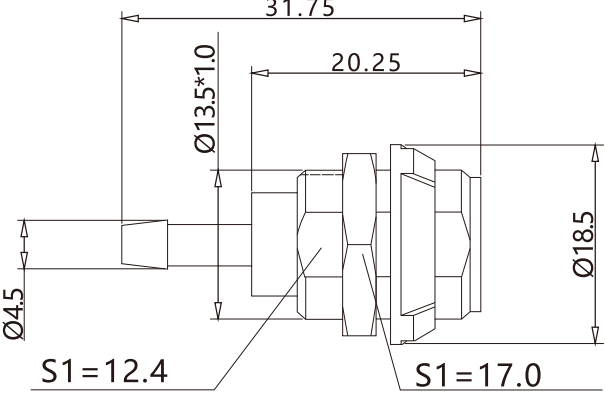
1. Quick push-pull self-latching connection system
2. Fluidic contacts
3. Can be sterilization
4. Keying system (G key standard) for connector alignment
5. High-temperature endurable plastic out shell (-25°C~125°C)
6. Available custom cable assembly solutions

Technical Specifications

Shell Style/Model	1P (Plastic (Mechanical Keying))
Housing Material	PC
Insulator Material	PPS
Tube Inner Diameter	4mm
Docking Metal Head Diameter	4.5mm, with slot
Life Cycles	Max. Mating: 1000 times
Air Leakage	Volume 500ml ³ , pressure 400mmHg, leakage is less than 6mmHg within 3min.
Salt Spray	> 72hrs
Temp (min)	-20°C
Temp (max)	125°C
Humidity (max)	<=95% [at 60°C / 140 F]
Vibration	15 g [10 Hz - 2000 Hz]
Shock Resistance	100 g [6 ms]

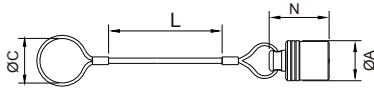
16. INT-BP Series Fluidic Connector

Product Size

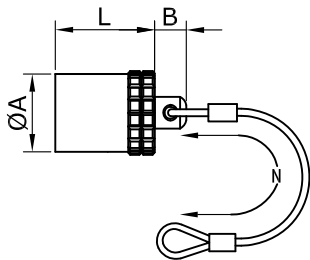
Part Number	Product Photo	Size
INT13-TAG.A0.1GZ.ZCXXG		
INT13-TAG.A0.1GZ.ZCXXGZ		
INT13-ZKG.A0.1GZ.ZG		

17. Accessories

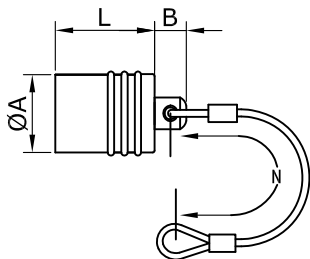
Dust Cap for Plug



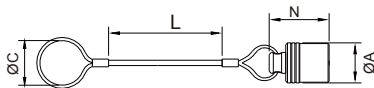
Reference		Dimensions (mm)			
Model	Series	A	L	N	ΦC
INT13-BFG.0B.CSS01	0B	10	65	17	8
INT13-BFG.1B.CSS01	1B	12	75	17	10
INT13-BFG.2B.CSS01	2B	15	80	18	13
INT13-BFG.3B.CSS01	3B	19	95	23	16



Reference		Dimensions (mm)			
Model	Series	A	B	L	N
INT13-BFG.0K.CSS01	0K	14.0	6	12.5	85
INT13-BFG.1K.CSS01	1K	16	6	15.5	85
INT13-BFG.2K.CSS01	2K	19.5	6	17.5	85
INT13-BFG.3K.CSS01	3K	23.0	6	22.0	120

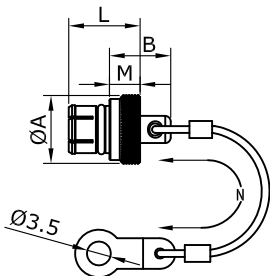


Reference		Dimensions (mm)			
Model	Series	A	B	L	N
INT13-BFG.0F.CSS01	0F	9.8	4	12.5	65
INT13-BFG.1F.CSS01	1F	12	4	13.5	85
INT13-BFG.15F.CSS01	1.5F	14	4	12.5	85
INT13-BFG.2F.CSS01	2F	16	4	15	120

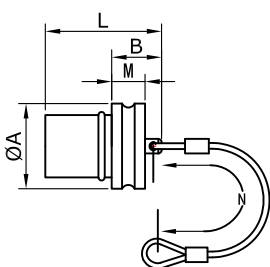


Reference		Dimensions (mm)			
Model	Series	A	L	N	ΦC
INT13-BFG.0S.CSS01	0S	10	65	17	8
INT13-BFG.1S.CSS01	1S	12	75	17	10
INT13-BFG.2S.CSS01	2S	15	80	18	13

Dust Cap for Receptacle

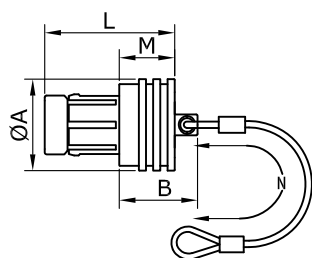


Reference		Dimensions (mm)				
Model	Series	A	B	L	M	N
INT13-BRG.00.CSS03	00	7.5	7.5	8.8	3.5	60
INT13-BRG.0*.CSS03	0S-0B	9.5	9.5	10.5	4.5	85
INT13-BRG.1*.CSS03	1S-1B	11.0	11.0	15.5	5.0	85
INT13-BRG.2*.CSS03	2S-2B	12.0	12.0	14.0	6.0	85
INT13-BRG.3*.CSS03	3S-3B	14.0	14.0	18.0	8.0	120

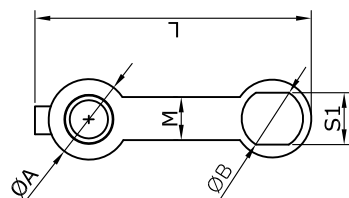


Reference		Dimensions (mm)				
Model	Series	A	B	M	L	N
INT13-BRG.0K.CSS01	0K	15	7	4	15	85
INT13-BRG.1K.CSS01	1K	17	5.8	6	20	85
INT13-BRG.2K.CSS01	2K	20.5	5.8	8	24	85

17. Accessories



Reference		Dimensions (mm)				
Model	Series	A	B	L	M	N
INT13-BRG.0F.CSS01	0F	10	7	12.8	3	60
INT13-BRG.1F.CSS01	1F	14	12	23.4	8.5	85
INT13-BRG.15F.CSS01	1.5F	14	11.7	21.6	8.5	85



Reference		Dimensions (mm)				
Model	Series	A	B	L	M	S1
INT13-BRP.0B.PRB01	0B	11.9	9.0	40	6.3	8.0
INT13-BRP.1B.PRB01	1B	14.1	12.0	60	7.2	10.5
INT13-BRP.2B.PRB01	2B	16.1	15.0	60	7.2	13.5

Bend Relief



INT-GMA

Main Characteristics:

Material: TPU (Thermoplastic Polyurethane)

Temperature Range in Dry Atmosphere: -60°C +200°C

Shell Size	Cable ϕ		Dimension (mm)		Part Number
				L	
00	2.8	3.1	2.8	22	INT13-GMA.0*.030.DN
0B 0S 0K 0F	2.5	3.0	3.0	24	INT13-GMA.0*.030.DN
	3.0	3.5	3.5	24	INT13-GMA.0*.035.DN
	3.5	4.0	4.0	24	INT13-GMA.0*.040.DN
	3.7	4.2	4.2	24	INT13-GMA.0*.042.DN
	4.0	4.5	4.5	24	INT13-GMA.0*.045.DN
	4.5	5.0	5.0	24	INT13-GMA.0*.050.DN
1B 1S 1K 1F	2.5	3.0	3.0	30	INT13-GMA.1*.030.DN
	3.5	4.0	4.0	30	INT13-GMA.1*.040.DN
	4.0	4.5	4.5	30	INT13-GMA.1*.045.DN
	4.5	5.0	5.0	30	INT13-GMA.1*.050.DN
	5.5	6.0	6.0	30	INT13-GMA.1*.060.DN
	6.5	7.0	7.0	30	INT13-GMA.1*.070.DN
2B 2K	4.5	5.0	5.0	36	INT13-GMA.2*.050.DN
	5.5	6.0	6.0	36	INT13-GMA.2*.060.DN
	6.50	7.0	7.0	36	INT13-GMA.2*.070.DN
	7.5	8.0	8.0	36	INT13-GMA.2*.080.DN
	8.0	9.0	9.0	36	INT13-GMA.2*.090.DN
3S 3B 3K	4.5	5.0	5.0	42	INT13-GMA.3*.050.DN
	5.5	6.0	6.0	42	INT13-GMA.3*.060.DN
	6.5	7.0	7.0	42	INT13-GMA.3*.070.DN
	7.5	8.0	8.0	42	INT13-GMA.3*.080.DN
	8.5	9.0	9.0	42	INT13-GMA.3*.090.DN
	9.5	10.0	10.0	42	INT13-GMA.3*.010.DN
	10.0	11.0	11.0	42	INT13-GMA.3*.011.DN
	11.0	12.0	12.0	42	INT13-GMA.3*.012.DN

17. Accessories

Note:

The letter «N» of the part number indicates black color bend relief. For ordering a bend relief with another color, replace the letter «N» with the code of the required color.

A bend relief made from thermoplastic polyurethane can be fitted over INTE-AUTO plugs and cable receptacles that are supplied with nuts for fitting such bend relief. They are available in eight different colors. Each color has the code listed below.

Code	Color	Code	Color
A	Blue	B	Brown
B	White	N	Black
G	Gray	R	Red
J	Yellow	O	Orange

Housings, Contacts, Contact Variants

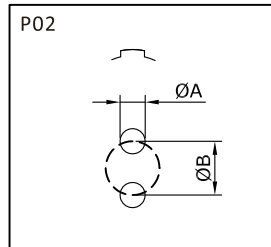
Ref.	Series	Material	Code	Colour	Code	Colour
Housings	F series	Brass	130	Natural Chrome Plated	140	Black Chrome Plated
	B series	Brass	C	Natural Chrome Plated	K	Black Chrome Plated
	K series	Brass	C	Natural Chrome Plated	K	Black Chrome Plated
	S series	Brass	C	Natural Chrome Plated	K	Black Chrome Plated
	P series	Plastic	G	Gray Color Outshell	N	Black Color Outshell

Ref.	Series	Material	Code	Color	Surface Treatment	Code	Color	Surface Treatment
Contacts	F series	Brass	A	Male Contact	Gold Plated	Z	Female Contact	Gold Plated
	B series	Brass	A	Male Contact	Gold Plated	L	Female Contact	Gold Plated
	K series	Brass	A	Male Contact	Gold Plated	L	Female Contact	Gold Plated
	S series	Brass	A	Male Contact	Gold Plated	L	Female Contact	Gold Plated
	P series	Brass	A	Male Contact	Gold Plated	L	Female Contact	Gold Plated

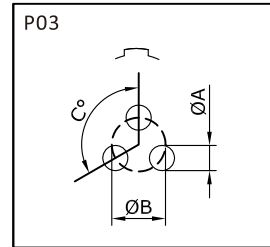
Ref.	Series	Material	Code	Variants	Surface Treatment	Code	Variants	Surface Treatment	Code	Variants	Surface Treatment
Contact Variants	F series	Brass	L	Solder	Gold Plated	N	PCB	Gold Plated	V	Elbow PCB	Gold Plated
	B series	Brass	L	Solder	Gold Plated	N	PCB	Gold Plated	V	Elbow PCB	Gold Plated
	K series	Brass	L	Solder	Gold Plated	N	PCB	Gold Plated	V	Elbow PCB	Gold Plated
	S series	Brass	L	Solder	Gold Plated	N	PCB	Gold Plated	V	Elbow PCB	Gold Plated
	P series	Brass	L	Solder	Gold Plated	N	PCB	Gold Plated	V	Elbow PCB	Gold Plated

18. PCB Drilling Pattern

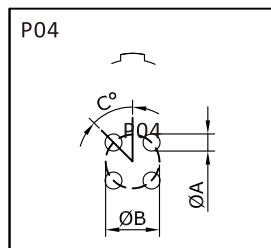
Fixed Receptacle with Straight Print Contact (B-K Series)



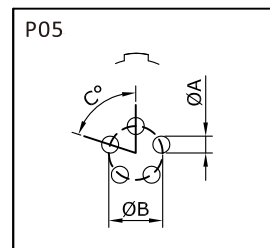
Series	Dimensions(mm)	
	A	B
00	0.6	1.2
0B-0K	0.8	2.2
1B-1K	0.8	2.8
2B-2K	0.8	4.4



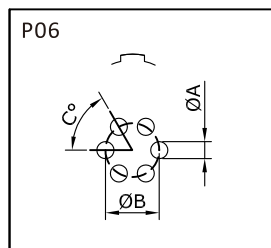
Series	Dimensions(mm)		
	A	B	C
00	0.6	1.35	120°
0B-0K	0.8	2.30	120°
1B-1K	0.8	3.00	120°
2B-2K	0.8	4.60	120°
3B-3K	0.8	5.60	120°



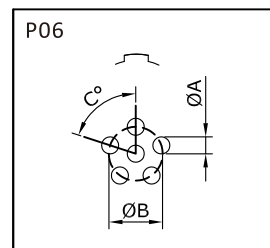
Series	Dimensions(mm)		
	A	B	C
00	0.6	1.6	45°
0B-0K	0.8	2.5	45°
1B-1K	0.8	3.1	45°
2B-2K	0.8	5.0	45°
3B-3K	0.8	6.2	45°



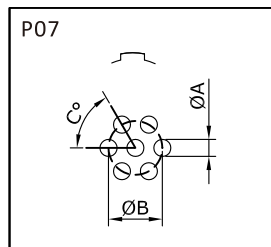
Series	Dimensions(mm)		
	A	B	C
0B-0K	0.6	2.8	72°
1B-1K	0.8	3.4	72°
2B-2K	0.8	5.2	72°
3B-3K	0.8	6.7	72°



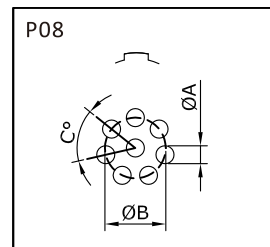
Series	Dimensions(mm)		
	A	B	C
0B-0K	0.6	3.0	60°
1B-1K	0.8	3.7	60°



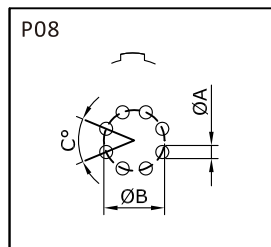
Series	Dimensions(mm)		
	A	B	C
2B-2K	0.8	5.6	72°
3B-3K	0.8	7.1	72°



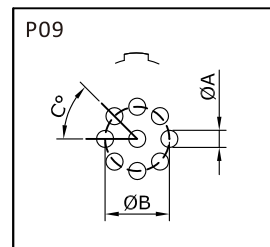
Series	Dimensions(mm)		
	A	B	C
0B-0K	0.6	3.0	60°
1B-1K	0.8	3.7	60°
2B-2K	0.8	5.8	60°
3B-3K	0.8	7.08	60°



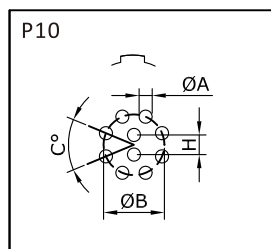
Series	Dimensions(mm)		
	A	B	C
1B-1K	0.8	3.8	51°26'



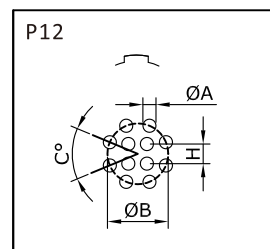
Series	Dimensions(mm)		
	A	B	C
2B-2K	0.8	6.4	45°
3B-3K	0.8	7.5	45°



Series	Dimensions(mm)		
	A	B	C
0B-0K	0.6	3.2	45°
3B-3K	0.8	7.5	45°

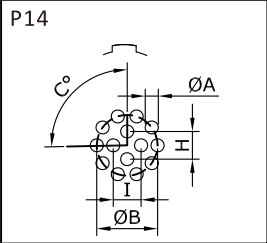


Series	Dimensions(mm)			
	A	B	C	H
1B-1K	0.6	3.95	45°	1.40
2B-2K	0.8	6.2	45°	2.15
3B-3K	0.8	7.9	45°	2.80

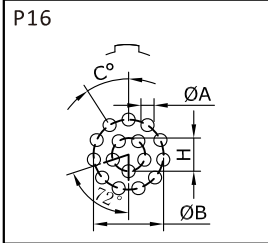


Series	Dimensions(mm)			
	A	B	C	H
2B-2K	0.8	6.5	45°	2.80
3B-3K	0.8	8.2	45°	3.40

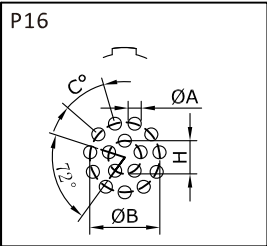
18. PCB Drilling Pattern



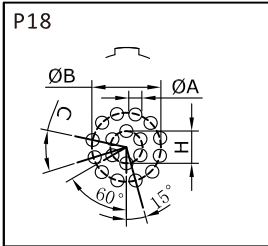
Series	Dimensions(mm)				
	A	B	C	H	I
1B-1K	0.6	4.4	90°	1.90	1.80
2B-2K	0.8	6.5	90°	2.65	2.65
3B-3K	0.8	8.2	90°	3.40	3.40



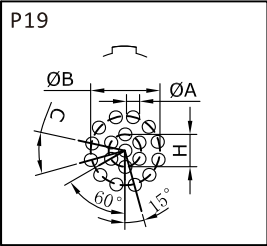
Series	Dimensions(mm)			
	A	B	C	H
1B-1K	0.6	4.4	32°44'	2.0



Series	Dimensions(mm)			
	A	B	C	H
2B-2K	0.8	6.6	32°44'	3.10
3B-3K	0.8	8.4	32°44'	3.86

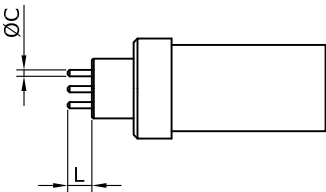


Series	Dimensions(mm)			
	A	B	C	H
2B-2K	0.8	6.7	30°	3.5
3B-3K	0.8	8.4	30°	4.34



Series	Dimensions(mm)			
	A	B	C	H
2B-2K	0.8	6.7	30°	3.50

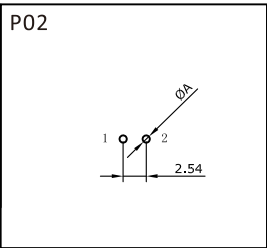
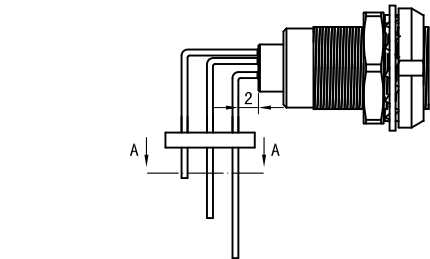
Length of Straight Print Contacts (For Receptacle)



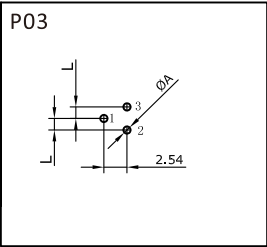
Series	Contact No.	Dimensions(mm)	
		Ø C	L
00	302	0.5	3.0
	303	0.5	3.0
	304	0.5	3.0
0B 0K	302/303	0.7	3.2
	304/305	0.5	3.2
	306/307/309	0.5	3.2
1B 1K	302/303/303/304/305	0.7	3.0
	306/307/308	0.7	3.0
	310/314/316	0.5	4.0
2B 2K	302/303/304/305/306/307	0.7	3.0
	308/310/314/316/318/319	0.7	3.0
	326/332	0.5	3.0
3B 3K	303/304/305/306/307	0.7	3.0
	308/309/310/312/314/316/318	0.7	3.0
	320/322/324/326/330	0.5	5.0

18. PCB Drilling Pattern

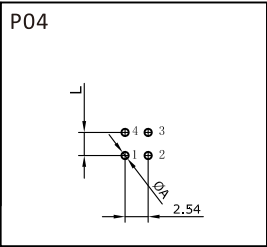
Fixed Receptacle with Elbow Print Contact (B-K Series)



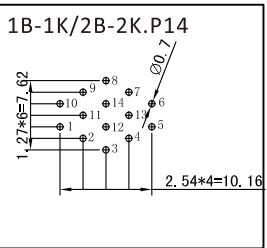
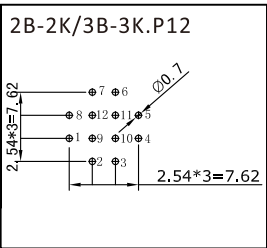
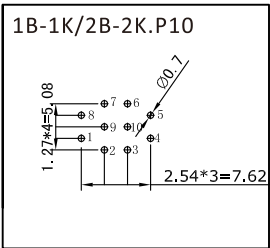
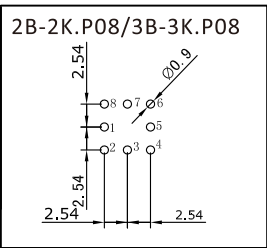
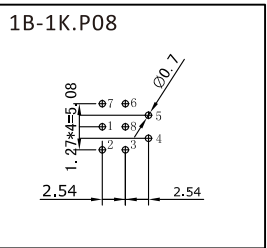
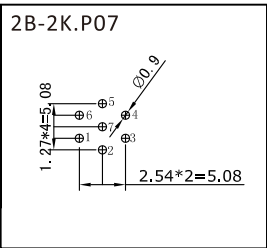
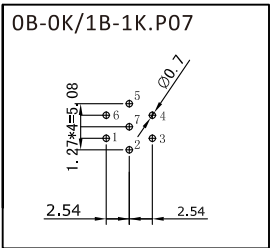
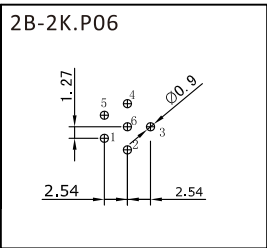
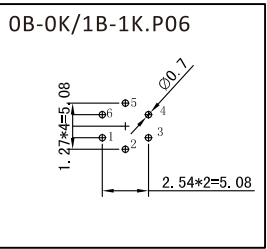
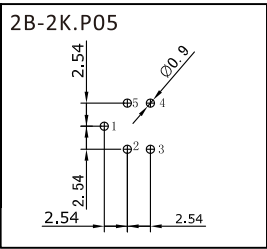
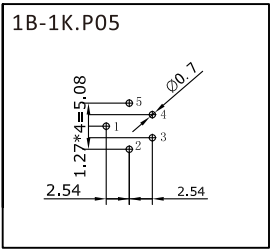
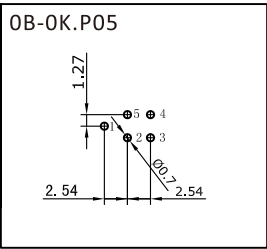
Series	Dimensions (mm)
	A
00	0.6
0B-0K	0.7
1B-1K	0.9
2B-2K	0.9



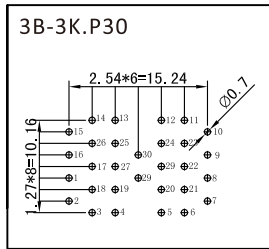
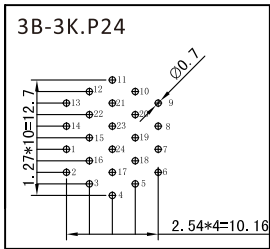
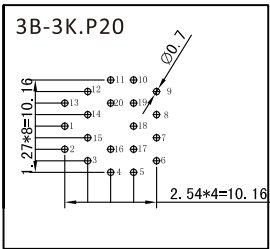
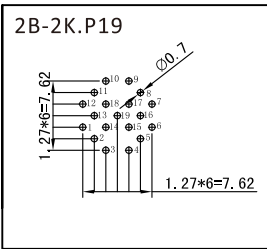
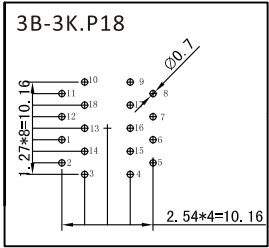
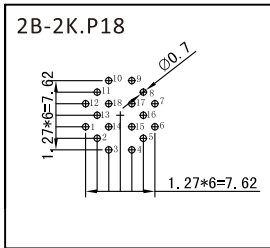
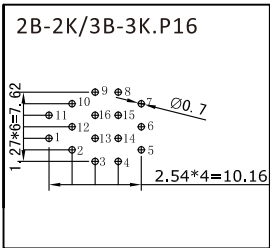
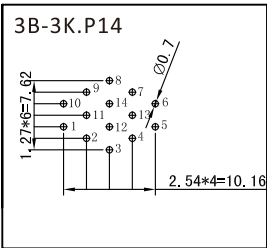
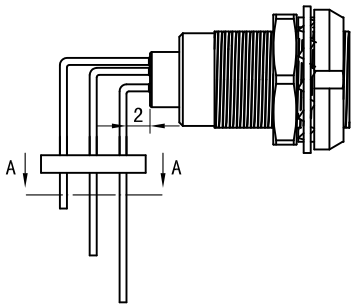
Series	Dimensions(mm)	
	A	L
00	0.6	1.27
0B-0K	0.7	1.27
1B-1K	0.9	1.27
2B-2K	0.9	2.54



Series	Dimensions(mm)	
	A	L
00	0.6	2.54
0B-0K	0.7	2.54
1B-1K	0.7	2.54
2B-2K	0.9	3.50



18. PCB Drilling Pattern



19. Customized Cable Assembly



19. Customized Cable Assembly





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