

Quick Selection Guide

Signal Connectors

- M23 Coupling
- Bayonet Coupling



CONINVERS®

Edition 03/02











The first 7 digits out of the 11 digit part number define the contact insert.
This applies for RC, UC and TU connector series.

C O N I N V E R S - P a r t N u m b e r

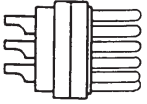
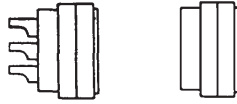
RC/UC/TU-	1	2	S	1	N	1	2				
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Number of Contacts

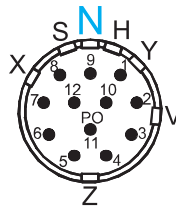
(View: mating face)

	06	6 Positions
	07	7 Positions
	09	9 Positions (8+1)
	63	9 Positions (6+3)
	12	12 Positions
	2R	12 Pos. (11 + PE)
	16	16 Positions
	17	17 Positions
	19	19 Pos. (16 + 3)
	1R	19 Pos. (16 + 2 + PE)

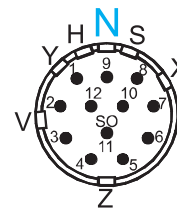
Style of Contacts

	
Contact inserts male (pin)	Contact inserts female (socket)
P	S

Contact Insert Coding



Pin



Socket





The standard coding is "N".
Other coding options available on request.
Not all codings are available for all No. of positions.

Contact Terminations

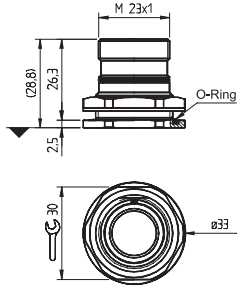
Standard Versions

- 12** = Solder Cup
 - 8A** = Crimp Style (up to 17 pos./ up to 0,75 mm²)
 - RA** = Crimp Style (16-19 pos./ up to 1,0 mm²)
 - S2** = Screw Style (6, 7, 9 pos.)
 - 22** = Dip Solder
 - 32** = PCB mounting
 - A2** for receptacles in various lengths
 - C2** for receptacles in various lengths
 - 42** = IP67 unmated
 - K2** (12 pos. only)
 - N2**
 - L2**
- Other on Request*

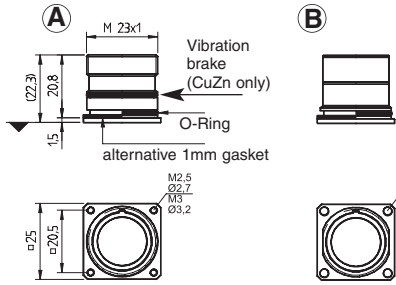
Contact Insert Numbering

1		Insert with pin contacts numbering clockwise (mating face)
1		Insert with socket contacts numbering counter clockwise (mating face)
2		Insert with pin contacts numbering counter clockwise (mating face)
2		Insert with socket contacts numbering clockwise (mating face)

CONINVERS - Part Number											
RC-								2	3	0	0



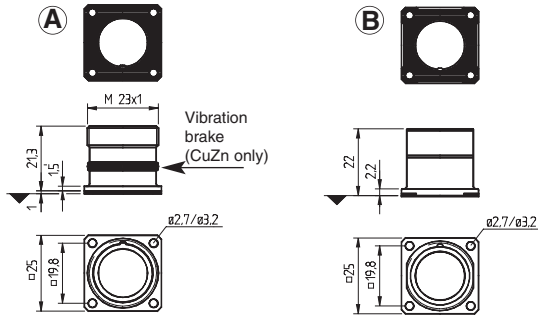
H000 Receptacle round flange, rear mounting, O-ring axial



Receptacle square flange, rear mounting, Shell material CuZn / GD-Zn *

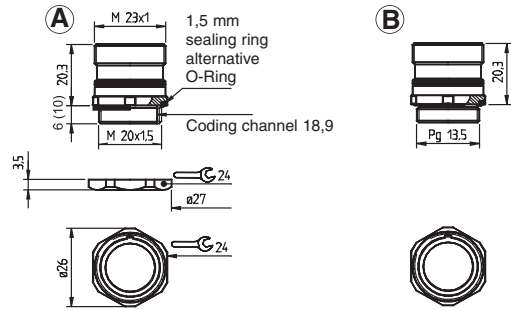
4000	With gasket, 4 threads M2,5, CuZn	] see fig. (A)
4100	With gasket, 4 threads M3, CuZn	
4200	With o-ring, 4 threads M2,5, CuZn	] see fig. (B)
4300	With o-ring, 4 threads M3, CuZn	
4F00	With gasket, 4 threads M2,5, GD-Zn	] see fig. (A)
4E00	With gasket, 4 threads M3, GD-Zn	
4Z00	With o-ring, 4 threads M2,5, GD-Zn	] see fig. (B)
4D00	With o-ring, 4 threads M3, GD-Zn	

5000	With gasket, 4 holes Ø 2,7 mm, CuZn	] see fig. (A)
5100	With gasket, 4 holes Ø 3,2 mm, CuZn	
5200	With o-ring, 4 holes Ø 2,7 mm, CuZn	] see fig. (B)
5300	With o-ring, 4 holes Ø 3,2 mm, CuZn	
5F00	With gasket, 4 holes Ø 2,7 mm, GD-Zn	] see fig. (A)
5E00	With gasket, 4 holes Ø 3,2 mm, GD-Zn	
5Z00	With o-ring, 4 holes Ø 2,7 mm, GD-Zn	] see fig. (B)
5D00	With o-ring, 4 holes Ø 3,2 mm, GD-Zn	



Receptacle square flange, front mounting, Shell material CuZn / GD-Zn *

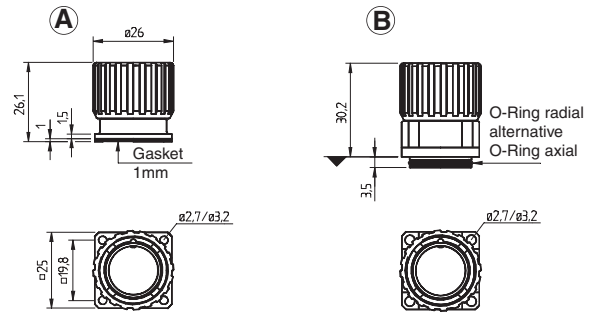
2200	With gasket, 4 holes Ø 2,7 mm, CuZn	] see fig. (A)
2300	With gasket, 4 holes Ø 3,2 mm, CuZn	
2K00	With gasket, 4 holes Ø 2,7 mm, GD-Zn	] see fig. (B)
2S00	With gasket, 4 holes Ø 3,2 mm, GD-Zn	



Receptacle round flange, front mounting,

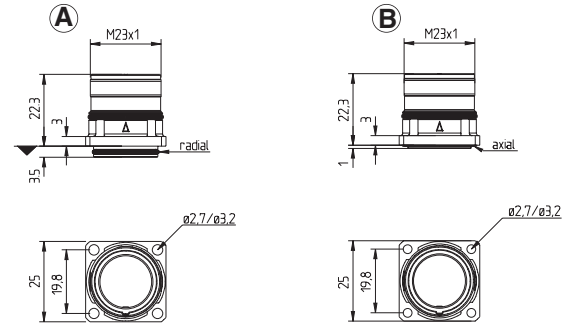
6000	With hex. nut and gasket, threading 6 mm length	] see fig. (A)
6R00	With hex. nut and gasket, threading 10 mm length	
6100	With hex. nut and o-ring, threading 6 mm length	] see fig. (B)
6300	With threading only PG13,5 6 mm length	

B * Contact insert can not be disassembled (shell material GD-Zn only)



Receptacle square flange, front mounting

Y200	With gasket, 4 holes Ø 2,7 mm	] see fig. (A)
Y300	With gasket, 4 holes Ø 3,2 mm	
YR00	With o-ring radial, 4 holes Ø 3,2 mm	] see fig. (B)
YF00	With o-ring axial, 4 holes Ø 3,2 mm	



Receptacle square flange, front mounting

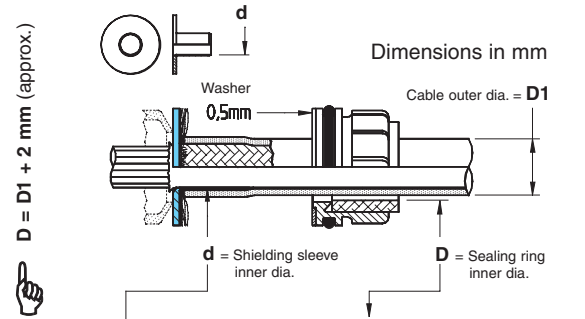
WQ00	With o-ring radial, 4 holes Ø 2,7 mm	] see fig. (A)
WR00	With o-ring radial, 4 holes Ø 3,2 mm	
WS00	With o-ring axial, 4 holes Ø 2,7 mm	] see fig. (B)
WT00	With o-ring axial, 4 holes Ø 3,2 mm	

The last 4 digits out of the 11 digit part number define the body style.

CONINVERS - Part Number

RC-							8	0	4	9
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Regarding the RC shielded connectors, the EMI accessories are defined by the last two digits as shown in the matrix below. This is not applicable to the UC / TU series.



D = D1 + 2 mm (approx.)

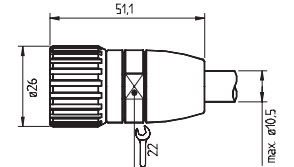
	4,0	5,0	6,0	7,5	8,5	10,0	11,0	NBR Univ.	FPM Univ.
2,5	53	57	E7					HA	MA
3,2		58	50	U7				HB	MB
3,6		A7	59	60	V7			HC	MC
3,8			61	62	Q5	99		HD	MD
4,1			54	56	P5	J8		HE	ME
4,3			W7	X9	Y9	Z9		HF	MF
4,6			X7	55	03	P8		HG	MG
4,9				J9	G6	P6		HH	MH
5,2				63	64	05		HJ	MJ
5,5				84	49	04	JC	HK	MK
5,8				H7	N8	07	E6	HL	ML
6,2					G5	NY	Q6	HM	MM
6,6					Q8	06	V5	HN	MN
7,0						52	L6	HP	MP
7,4						51	Q9	HQ	MQ
7,7						98	J0	HR	MR

Universal type: shielding disc / universal sealing ring for cable dia. up to 9,5 mm = EP

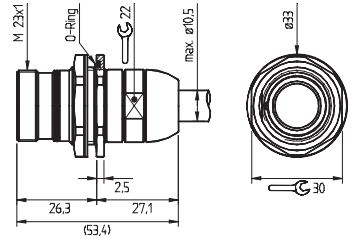
The last 4 digits out of the '11 digit part number' define the body style.

M23 RC-Series Shielded

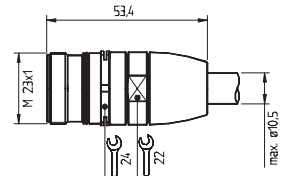
Defining the Shell Style of Connectors



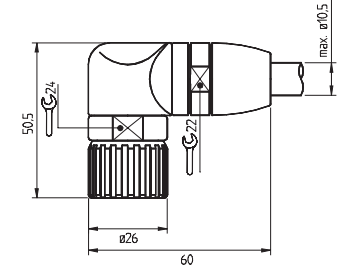
80 Cable connector with integrated cable gland, max 10,5 mm cable dia., IP 67



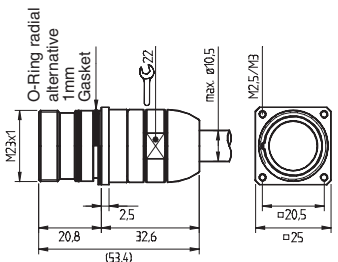
Q0 Cable connector with integrated cable gland, max 10,5 mm cable dia., IP 67, for rear mounting to use as a receptacle



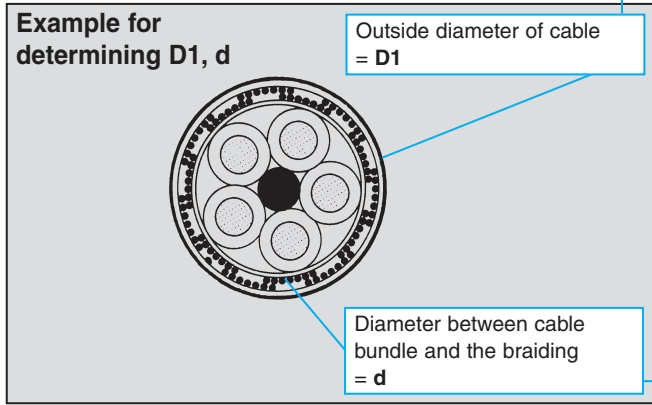
90 Cable connecting receptacle with integrated cable gland, max 10,5 mm cable dia., IP 67, fits into connector with coupling nut



T0 Cable connector with integrated cable gland, max 10,5 mm cable dia., IP 67

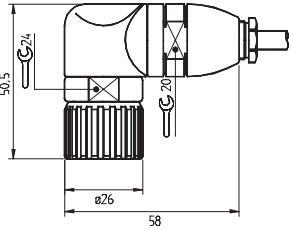


C0 Cable connector with integrated cable gland, max 10,5 mm cable dia., IP 67, for rear mounting to use as a receptacle
C1 With gasket, 4 threads M2,5
C2 With gasket, 4 threads M3
C3 With o-ring, 4 threads M2,5
C3 With o-ring, 4 threads M3

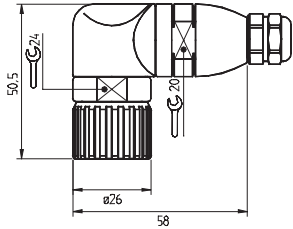


The last 4 digits out of the 11 digit part number define the body style.

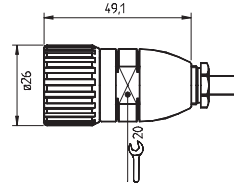
CONINVERS - Part Number											
RC-								1	L	0	0



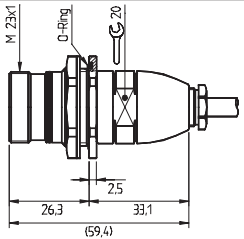
Cable connector with standard cable gland, PG 7 to PG 13,5
Z400 PG 7 cable entry 4-6 mm dia.
Z500 PG 9 cable entry 6-10 mm dia.
Z600 PG 11 cable entry 8-12 mm dia.
Z700 PG 13,5 cable entry 10-14 mm dia.



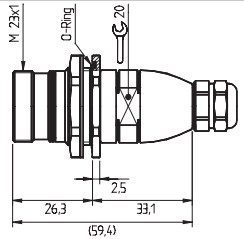
Cable connector with IP 68 cable gland, PG 7 to PG 13,5
ZH00 PG 7 cable entry 4-6 mm dia.
ZI00 PG 9 cable entry 6-10 mm dia.
ZK00 PG 11 cable entry 8-12 mm dia.
ZL00 PG 13,5 cable entry 10-14 mm dia.



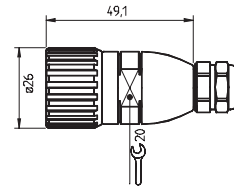
Cable connector with standard cable gland, PG 7 to PG 13,5
1400 PG 7 cable entry 4-6 mm dia.
1500 PG 9 cable entry 6-10 mm dia.
1600 PG 11 cable entry 8-12 mm dia.
1700 PG 13,5 cable entry 10-14 mm dia.



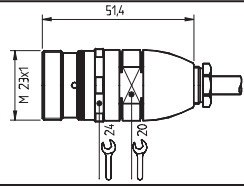
Receptacle, rear mounting, with standard cable gland, PG 7 to PG 13,5
G400 PG 7 cable entry 4-6 mm dia.
G500 PG 9 cable entry 6-10 mm dia.
G600 PG 11 cable entry 8-12 mm dia.
G700 PG 13,5 cable entry 10-14 mm dia.



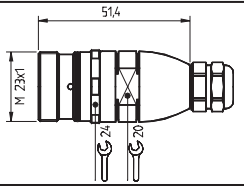
Receptacle, rear mounting, with IP 68 cable gland, PG 7 to PG 13,5
GH00 PG 7 cable entry 4-6 mm dia.
GI00 PG 9 cable entry 6-10 mm dia.
GK00 PG 11 cable entry 8-12 mm dia.
GL00 PG 13,5 cable entry 10-14 mm dia.



Cable connector with IP 68 cable gland, PG 7 to PG 13,5
1H00 PG 7 cable entry 4-6 mm dia.
1I00 PG 9 cable entry 6-10 mm dia.
1K00 PG 11 cable entry 8-12 mm dia.
1L00 PG 13,5 cable entry 10-14 mm dia.



Cable connecting receptacle with standard cable gland, PG 7 to PG 13,5
7400 PG 7 cable entry 4-6 mm dia.
7500 PG 9 cable entry 6-10 mm dia.
7600 PG 11 cable entry 8-12 mm dia.
7700 PG 13,5 cable entry 10-14 mm dia.

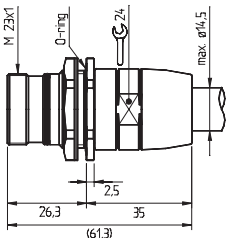


Cable connecting receptacle with IP 68 cable gland, PG 7 to PG 13,5
7H00 PG 7 cable entry 4-6 mm dia.
7I00 PG 9 cable entry 6-10 mm dia.
7K00 PG 11 cable entry 8-12 mm dia.
7L00 PG 13,5 cable entry 10-14 mm dia.

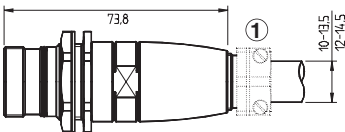
Further cable glands and metric threadings available on request

The last 4 digits out of the 11 digit part number define the body style.

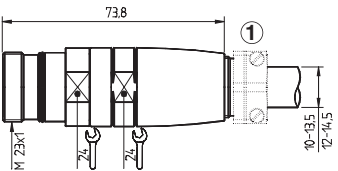
CONINVERS - Part Number											
UC-								8	0	D	U



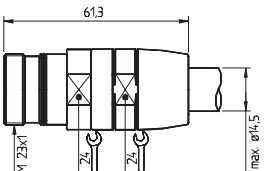
Q0DU Receptacle, rear mounting, with integrated cable gland, universal shielding, enlarged cable entry up to 14,5 mm dia., IP 67



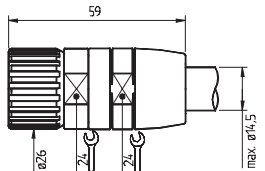
Q3DU
QNDU Receptacle (long version), rear mounting, with additional strain relief, Pg 13,5 or Pg 16, universal shielding, enlarged cable entry up to 14,5 mm dia., IP 67
PG 13,5 cable entry 10-13,5 mm dia.
PG 16 cable entry 12-14,5 mm dia.



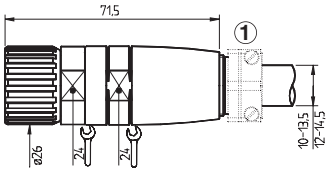
F3DU
FNDU Cable connecting receptacle (long version), with additional strain relief, Pg 13,5 or Pg 16, universal shielding, enlarged cable entry up to 14,5 mm dia., IP 67
PG 13,5 cable entry 10-13,5 mm dia.
PG 16 cable entry 12-14,5 mm dia.



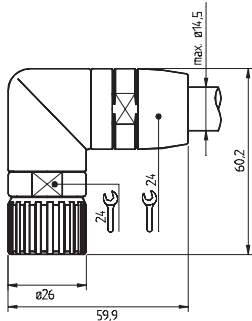
90DU Cable connecting receptacle with integrated cable gland, universal shielding, enlarged cable entry up to 14,5 mm dia., IP 67



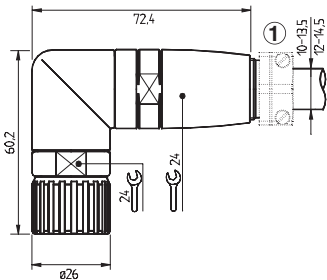
80DU Cable connector with integrated cable gland, universal shielding, enlarged cable entry up to 14,5 mm dia., IP 67



R3DU
RNDU Cable connector (long version), with additional strain relief, Pg 13,5 or Pg 16, universal shielding, enlarged cable entry up to 14,5 mm dia., IP 67
PG 13,5 cable entry 10-13,5 mm dia.
PG 16 cable entry 12-14,5 mm dia.



TODU Cable connector with integrated cable gland, universal shielding, enlarged cable entry up to 14,5 mm dia., IP 67



N3DU
NNDU Cable connector (long version), with additional strain relief, Pg 13,5 or Pg 16, universal shielding, enlarged cable entry up to 14,5 mm dia., IP 67
PG 13,5 cable entry 10-13,5 mm dia.
PG 16 cable entry 12-14,5 mm dia.

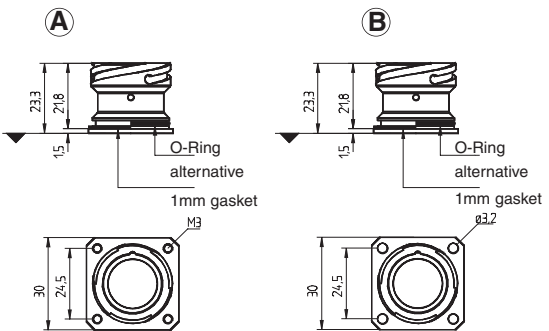
Further cable glands and metric threadings available on request

Please order cable glands (IP 68 / double lever strain relief) separately

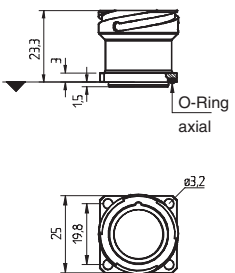
The last 4 digits out of the 11 digit part number define the body style.

CONINVERS - Part Number

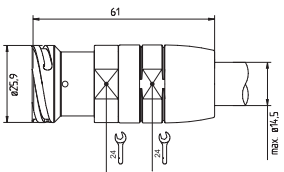
TU-											8	U	D	U
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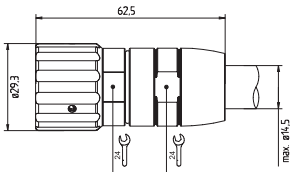
4100	Receptacle with bayonet coupling, square flange, rear mounting] see fig. A
4300	With gasket, 4 threads M3	
5100	With gasket, 4 holes Ø 3,2 mm	] see fig. B
5300	With o-ring, 4 holes Ø 3,2 mm	



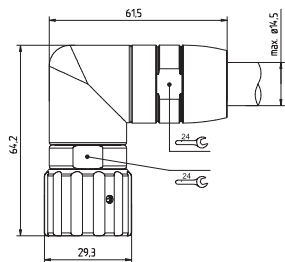
WB00	Receptacle with bayonet coupling, square flange, front mounting
	With o-ring, 4 holes Ø 3,2 mm



9UDU	Cable connecting receptacle with bayonet coupling, integrated cable gland, universal shielding, enlarged cable entry up to 14,5 mm dia., IP 67
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8UDU	Cable connector with bayonet coupling, integrated cable gland, universal shielding, enlarged cable entry up to 14,5 mm dia., IP 67
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TUDU	Cable connector with bayonet coupling, integrated cable gland, universal shielding, enlarged cable entry up to 14,5 mm dia., IP 67
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Mechanical Data

Shell material	
Machined component by Copper-Zinc alloy (CuZn) , die cast component by Zinc (GD-Zn)	
Shell plating	
Nickel (standard), on request: black chromated, plastic molded	
Insulator/flammability	
Thermoplastic Polyester (PBT), Polyamid (PA 66), Polycarbonat (PC)/UL 94 V0	
Contact material	
Copper-Zinc alloy (CuZn)	
Contact plating	
Nickel (Ni) with Gold (Au) and passivated	
Contact termination	
Solder cup, dip solder, crimp type, screw type	
Seal and O-Ring	
Fluor rubber (FPM)	
Gasket	
Perbunan (NBR-stiffened gasket), Fluor rubber (FPM)	
Temperature range	
-40°C/+125°C (long term temperature)	
Cable entry RC-Series	
EMI version: outer dia. of cable 2 - 10,5 mm, without EMI protection: outer dia. of cable 4 - 14 mm	
Cable entry UC/TU-Series	
EMI version: outer dia. of cable 2 - 14,5 mm	
Mating method	Mating cycles mechan.
RC/UC-Series: threaded coupling M23; TU-Series: bayonet coupling	Standard: 50, higher on request
Protection class	
IP 67 mated, for EMI versions	
IP 65 - IP 68 mated, being subject to cable gland used, for versions without EMI protection	
Approval RC-Series	
UL-recognized File No 153698 (M) Underwriters Laboratories Inc.® 	

Electrical Data

Number of positions	6, 7	9(8+1)	9(6+3)	12 12(11+PE) 12 Hybrid	16 16(15+PE)	17 17(16+PE)	19(16+3) 19(16+2+PE)
Contact	6, 7	8 + 1	6 + 3	11, 12	15, 16	16, 17	16 + 3
Contact dia. (mm)	2	1 2	1 2	1	1	1	1 1,5
Rated current (A)	20	8 20	8 20	8	8	8	8 10
Rated voltage (V AC eff. / DC)	250	150	150	150	150	150	150
Test voltage (kV AC)	2,5	1,5	1,5	1,5	1,5	1,5	1,5
Overvoltage category ¹⁾	II	II	II	II	II	II	II
Insulation resistance (Ω)	≥10 ¹⁶	≥10 ¹⁶	≥10 ¹²	≥10 ¹²	≥10 ¹²	≥10 ¹²	≥10 ¹²
Contact resistance (mΩ)	≤3	≤3	≤3	≤3	≤3	≤3	≤3
Pollution degree acc. to IEC 664-1	2 (3 ¹)	2 (3 ¹)	2 (3 ¹)	2 (3 ¹)	2 (3 ¹)	2 (3 ¹)	2 (3 ¹)

1) Reference: DIN EN 61984:2001

Fax to: +49 (0) 70 32/92 74-330

We desire a technical consultation regarding the products:

Description	Part No.
_____	_____
Description	Part No.
_____	_____
Description	Part No.
_____	_____
Description	Part No.
_____	_____

Please send us the CONINVERS Short Form Catalog

Contact Person	Dept.
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Company	_____
Zip, City	Street
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Phone/Fax	E-mail
_____	_____

