

C 091 D



Main Features

- Metal locking ring; screw locking according to DIN EN 60130-9 / IEC 60130-9
- Full metal construction
- Protection class IP 65 and IP 67
- Number of contacts: 3 – 8, 12 and 14 contacts
- Internal strain relief
- Good shielding effectiveness when mated and locked
- Male and female cable connectors
 - Straight or right angled
 - Solder connection: 3 – 8, 12 and 14 contacts
 - Crimp connection: 3 – 8 contacts
 - With cable glands for cable diameter 4 – 6 mm or 6 – 8 mm
- Male and female receptacles
 - Panel mount types for front or rear panel mounting
 - Pcb mount types, straight
 - With 4-hole flange
 - With dip solder contacts of various contact lengths
 - Solder connection: 3 – 8, 12 and 14 contacts
 - Crimp connection: 3 – 8 contacts
- UL registered under file number E 63 093 UL













UNDERWRITERS LABORATORIES INC.

¹⁾ In general approvals refer to representative versions of the connector series. Test report upon request.
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Characteristics

General Characteristics	Standard	Characteristics										
Number of contacts		3	4	5	5 Stereo	6	7	7	8	12	14	
View on termination side of contact insert												
Contact arrangement acc. to DIN		41 524	–	–	41 524	45 322	–	45 329	45 326	–	–	
Contact arrangement acc. to IEC		60130-9	60130-9	–	60130-9	60130-9	–	60130-9	60130-9	–	–	
Electrical Characteristics												
Rated voltage	IEC 60664-1	300 V ≈			100V ≈	300 V ≈		100 V ≈		150 V ≈		
Rated voltage	UL 1977	250 V									60 V	
Rated impulse withstand voltage	IEC 60664-1	1500 V			1200 V	1500 V		1200 V				
Pollution degree	IEC 60664-1	1										
Installation category	IEC 60664-1	I										
Insulation group	IEC 60664-1	III CTI \triangleq 175										
Test voltage	IEC 60664-1	980 V ~			670 V ~	980 V ~		670 V ~				
Current rating	IEC 60512-5-2 Test 5 b UL 1977	5 A / + 40 °C / + 104 °F									3 A / + 40 °C / + 104 °F	
Insulation resistance	IEC 60512-3-1 Test 3 a	> 10 ¹⁰ Ω										
Contact resistance	IEC 60512-2-1 Test 2 a	< 5 m Ω										
Climatic Characteristics												
Climatic category	IEC 60668-1	40 / 85 / 56										
Temperature range	IEC 60668-1	- 40 °C ... + 85 °C / - 40 °F ... + 185 °F										
Mechanical Characteristics												
IP-degree	IEC 60529	IP 67 / IP 65										
Insertion and withdrawal forces	IEC 60512-13-2 Test 13 b	25 N 90.0z	30 N 110.0z	35 N 125.0z	50 N 180.0z	55 N 200.0z	60 N 220.0z	50 N 180.0z				
Mechanical operation	IEC 60512-9-1 Test 9 a	Silver \geq 500 mating cycles Gold \geq 1000 mating cycles										
Materials												
Housing material		die cast, nickel plated										
Dielectric material		thermoplastic										
Sealing material		neoprene										
Contact plating		silver plated / gold plated *										
Further Characteristics												
Termination technique		solder, crimp									solder	
Wire gauge		solder \leq 0,5 mm ² (20-26 AWG), crimp 0,14 – 0,75 mm ² (26-18 AWG)									\leq 0,25 mm ² /24 AWG	
Flammability		UL 94 V0										
Locking system	IEC 60130-9	metal screw coupling; tightening torque 0,5 - 0,7 Nm										
UL	UL 1977	Conditions of acceptability										

Caution: Do not connect or disconnect under load. Metal housing parts shall be securely incorporated to protected ground.

* **Remark for gold plated contacts:** In order to avoid brittle inter-metallic connections, gold-plated terminals have to be tin-plated in the solder area.
IEC 60 664 \triangleq DIN VDE 0110 ; IEC 60 512-x \triangleq DIN EN 60 512-x

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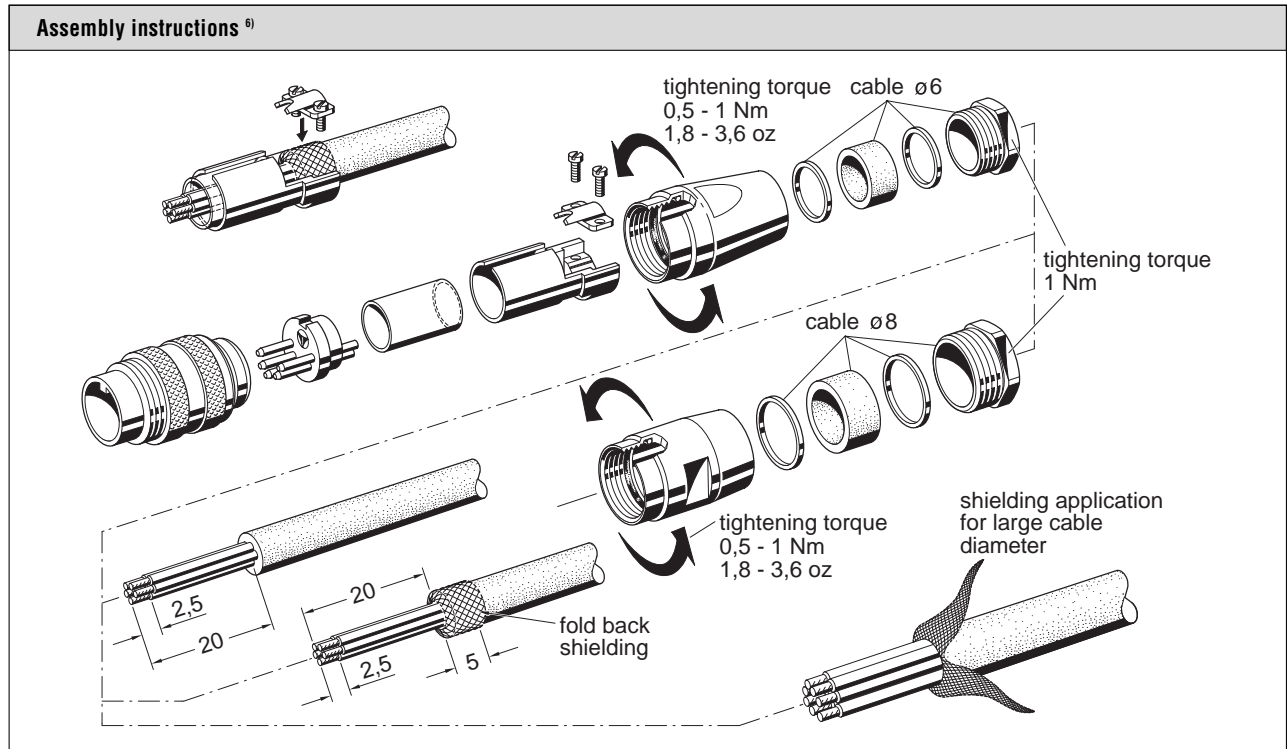
Male cable connector



Description	Drawing	No. of cont.	Part Number solder termination		Part Number Crimp termination ¹⁾		
			Contact plating silver	Contact plating gold ²⁾			
Male cable connector, straight, for cable diameter 4-6 mm, termination: solder or crimp, contact plating: silver or gold.	<p>PG 7</p>	3 ³⁾	C091 31H003 100 2	–	C091 11H003 000 2		
		4 ³⁾	C091 31H004 100 2	–	C091 11H004 000 2		
		5	C091 31H005 100 2	C091 31H005 200 2	C091 11H005 000 2		
		5S ³⁾	C091 31H105 100 2	C091 31H105 200 2	C091 11H105 000 2		
		6 ³⁾	C091 31H006 100 2	C091 31H006 200 2	C091 11H006 000 2		
		7	C091 31H007 100 2	–	C091 11H007 000 2		
		7 ³⁾	C091 31H107 100 2	C091 31H107 200 2	C091 11H107 000 2		
		8 ³⁾	C091 31H008 100 2	C091 31H008 200 2	C091 11H008 000 2		
		12	C091 31H012 100 2	C091 31H012 200 2	–		
		14	C091 31H014 100 2	C091 31H014 200 2	–		
		Male cable connector, straight, for cable diameter 6-8 mm, termination: solder or crimp, contact plating: silver or gold.	<p>PG 9</p>	3 ³⁾	C091 31H003 101 2	–	C091 11H003 001 2
				4 ³⁾	C091 31H004 101 2	–	C091 11H004 001 2
				5	C091 31H005 101 2	–	C091 11H005 001 2
				5S ³⁾	C091 31H105 101 2	–	C091 11H105 001 2
6 ³⁾	C091 31H006 101 2			–	C091 11H006 001 2		
7	C091 31H007 101 2			C091 31H007 201 2	C091 11H007 001 2		
7 ³⁾	C091 31H107 101 2			–	C091 11H107 001 2		
8 ³⁾	C091 31H008 101 2			C091 31H008 201 2	C091 11H008 001 2		
12	–			C091 31H012 201 2	–		
14	–			C091 31H014 201 2	–		

¹⁾ Please order crimp contacts separately, see page 43 ²⁾ see remark page 34 ³⁾ Contact order for DIN EN 60 130-9

Assembly instructions⁶⁾



⁵⁾ Solder version only ⁶⁾ Assembly instructions please refer to page 46, connecting instructions

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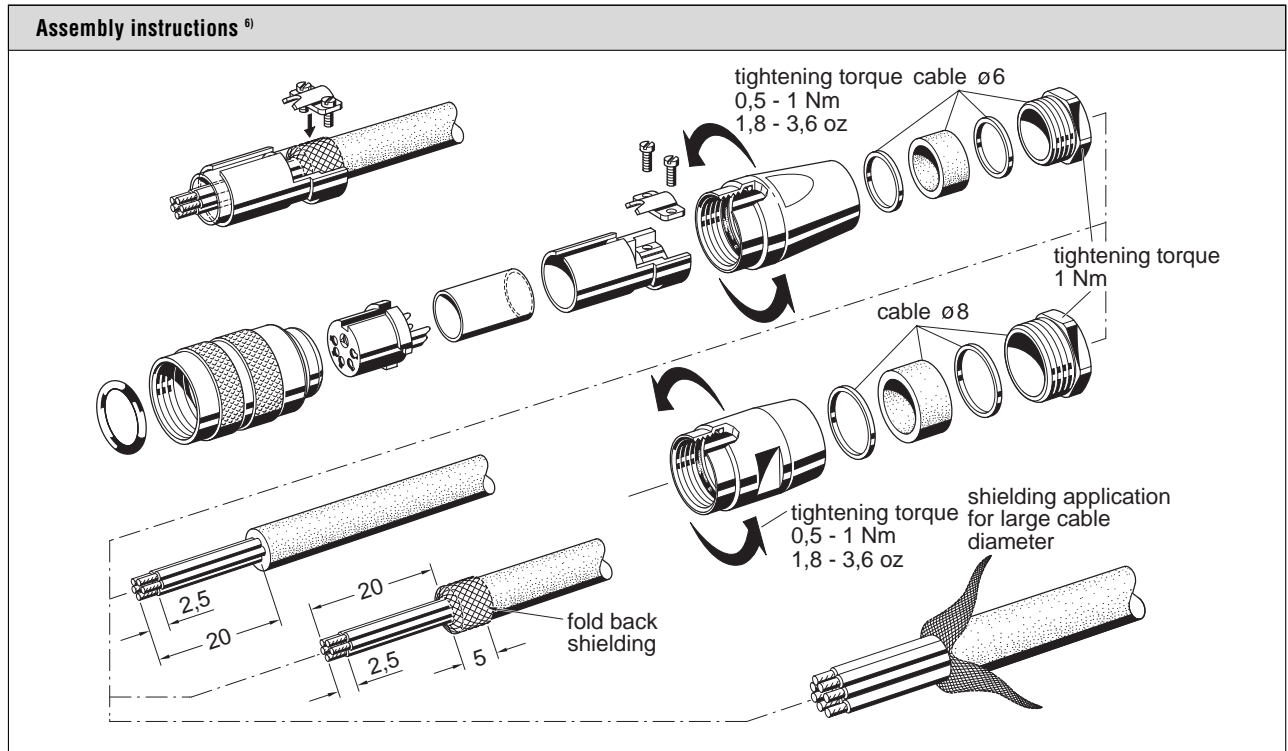
Female cable connector



Description	Drawing	No. of cont.	Part Number solder termination		Part Number Crimp termination ¹⁾		
			Contact plating silver	Contact plating gold ²⁾			
Female cable connector, straight, for cable diameter 4-6 mm, termination: solder or crimp, contact plating: silver or gold.	<p>PG 7</p>	3 ³⁾	C091 31D003 100 2	–	C091 11D003 000 2		
		4 ³⁾	C091 31D004 100 2	–	C091 11D004 000 2		
		5	C091 31D005 100 2	C091 31D005 200 2	C091 11D005 000 2		
		5S ³⁾	C091 31D105 100 2	–	C091 11D105 000 2		
		6 ³⁾	C091 31D006 100 2	C091 31D006 200 2	C091 11D006 000 2		
		7	C091 31D007 100 2	–	C091 11D007 000 2		
		7 ³⁾	C091 31D107 100 2	–	C091 11D107 000 2		
		8 ³⁾	C091 31D008 100 2	C091 31D008 200 2	C091 11D008 000 2		
		12	C091 31D012 100 2	C091 31D012 200 2	–		
		14	C091 31D014 100 2	C091 31D014 200 2	–		
		Female cable connector, straight, for cable diameter 6-8 mm, termination: solder or crimp, contact plating: silver or gold.	<p>PG 9</p>	3 ³⁾	C091 31D003 101 2	–	C091 11D003 001 2
				4 ³⁾	C091 31D004 101 2	–	C091 11D004 001 2
				5	C091 31D005 101 2	–	C091 11D005 001 2
				5S ³⁾	C091 31D105 101 2	–	C091 11D105 001 2
6 ³⁾	C091 31D006 101 2			–	C091 11D006 001 2		
7	C091 31D007 101 2			C091 31D007 201 2	C091 11D007 001 2		
7 ³⁾	C091 31D107 101 2			–	C091 11D107 001 2		
8 ³⁾	C091 31D008 101 2			C091 31D008 201 2	C091 11D008 001 2		
12	–			C091 31D012 201 2	–		
14	–			C091 31D014 201 2	–		

¹⁾ Please order crimp contacts separately, see page 43 ²⁾ see remark page 34 ³⁾ Contact order for DIN EN 60 130-9

Assembly instructions ⁴⁾



⁴⁾ Solder version only ⁵⁾ Assembly instructions please refer to page 46 , connecting instructions

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Connector Right Angle

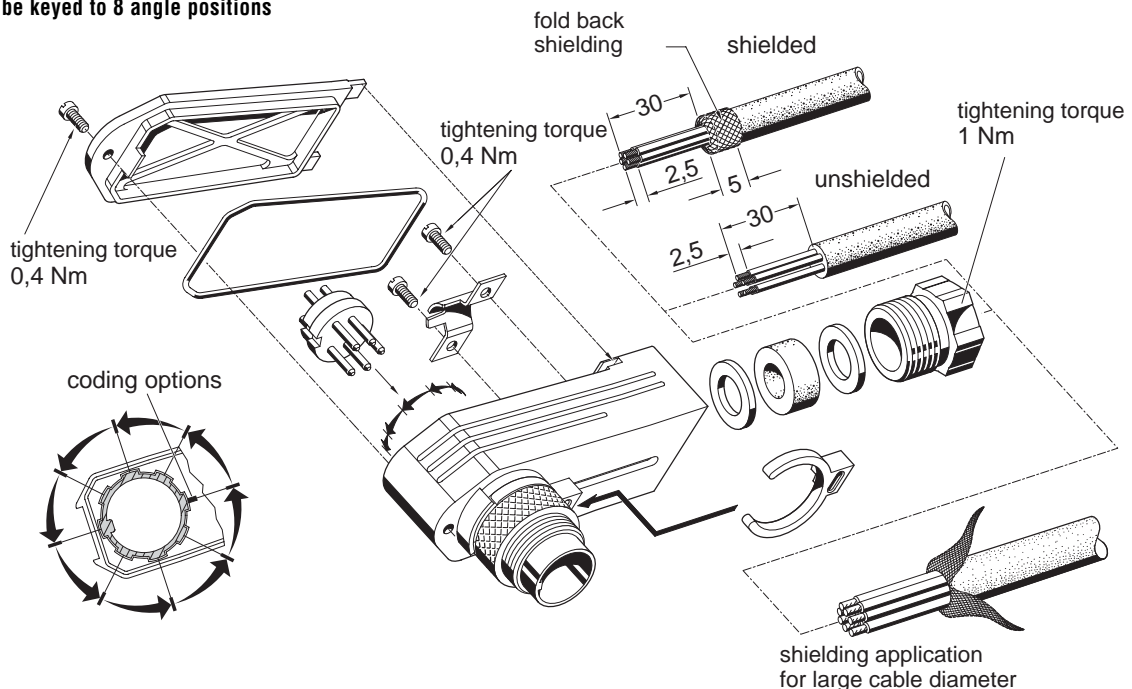


Description	Drawing	No. of cont.	Part Number solder termination Contact plating silver	Part Number Crimp termination ¹⁾		
Male cable connector, right angled, for cable diameter 4-6 mm, termination: solder or crimp. Dimension A = 55,5 mm		3 ³⁾	C091 31K003 100 2	C091 11K003 000 2		
		4 ³⁾	C091 31K004 100 2	C091 11K004 000 2		
		5	C091 31K005 100 2	C091 11K005 000 2		
		5S ³⁾	C091 31K105 100 2	C091 11K105 000 2		
		6 ³⁾	C091 31K006 100 2	C091 11K006 000 2		
		7	C091 31K007 100 2	C091 11K007 000 2		
		7 ³⁾	C091 31K107 100 2	C091 11K107 000 2		
		8 ³⁾	C091 31K008 100 2	C091 11K008 000 2		
		12	C091 31K012 100 2	—		
		14	C091 31K014 100 2	—		
		Male cable connector, right angled, for cable diameter 6-8 mm, termination: solder or crimp. Dimension A = 57,5 mm		3 ³⁾	C091 31K003 101 2 ⁵⁾	C091 11K003 001 2 ⁵⁾
				4 ³⁾	C091 31K004 101 2 ⁵⁾	C091 11K004 001 2 ⁵⁾
				5	C091 31K005 101 2	C091 11K005 001 2 ⁵⁾
				5S ³⁾	C091 31K105 101 2	C091 11K105 001 2 ⁵⁾
6 ³⁾	C091 31K006 101 2			C091 11K006 001 2		
7	C091 31K007 101 2			C091 11K007 001 2		
7 ³⁾	C091 31K107 101 2			C091 11K107 001 2		
8 ³⁾	C091 31K008 101 2			C091 11K008 001 2		
12	C091 31K012 101 2			—		
14	C091 31K014 101 2			—		

¹⁾ Please order crimp contacts separately, see page 43 ³⁾ Contact order for DIN EN 60 130-9 ⁵⁾ Available upon request.

Assembly instructions ⁴⁾

Can be keyed to 8 angle positions



⁴⁾ For assembly Instructions please refer to page 46, connecting instructions
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Connector Right Angle



Description	Drawing	No. of cont.	Part Number solder termination Contact plating silver	Part Number Crimp termination ¹⁾		
Female cable connector, right angled, for cable diameter 4-6 mm, termination: solder or crimp. Dimension A = 55,5 mm		3 ³⁾	C091 31F003 100 2	C091 11F003 000 2		
		4 ³⁾	C091 31F004 100 2	C091 11F004 000 2		
		5	C091 31F005 100 2	C091 11F005 000 2		
		5S ³⁾	C091 31F105 100 2	C091 11F105 000 2		
		6 ³⁾	C091 31F006 100 2	C091 11F006 000 2		
		7	C091 31F007 100 2	C091 11F007 000 2		
		7 ³⁾	C091 31F107 100 2	C091 11F107 000 2		
		8 ³⁾	C091 31F008 100 2	C091 11F008 000 2		
		12	C091 31F012 100 2	—		
		14	C091 31F014 100 2	—		
		Female cable connector, right angled, for cable diameter 6-8 mm, termination: solder or crimp. Dimension A = 57,5 mm		3 ³⁾	C091 31F003 101 2 ⁵⁾	C091 11F003 001 2 ⁵⁾
				4 ³⁾	C091 31F004 101 2 ⁵⁾	C091 11F004 001 2 ⁵⁾
				5	C091 31F005 101 2	C091 11F005 001 2 ⁵⁾
				5S ³⁾	C091 31F105 101 2	C091 11F105 001 2 ⁵⁾
6 ³⁾	C091 31F006 101 2			C091 11F006 001 2		
7	C091 31F007 101 2			C091 11F007 001 2		
7 ³⁾	C091 31F107 101 2			C091 11F107 001 2		
8 ³⁾	C091 31F008 101 2			C091 11F008 001 2		
12	C091 31F012 101 2			—		
14	C091 31F014 101 2			—		

¹⁾ Please order crimp contacts separately, see page 43 ³⁾ Contact order for DIN EN 60 130-9 ⁵⁾ Available upon request

Assembly instructions ⁴⁾

Can be keyed to 8 angle positions

fold back shielding

shielded

unshielded

tightening torque 0,4 Nm

tightening torque 1 Nm

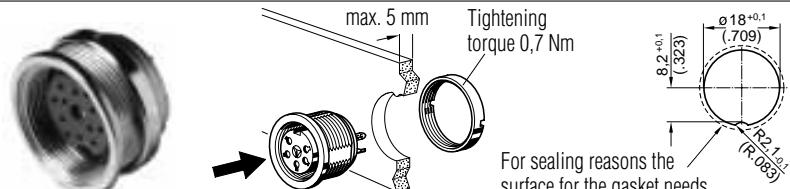
coding options

shielding application for large cable diameter

⁴⁾ For assembly Instructions please refer to page 46, connecting instructions

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Female receptacle for front mounting



For sealing reasons the surface for the gasket needs to be level and free of burrs.

Panel cutout

Description	Drawing	No. of cont.	Part Number solder termination		Part Number Crimp termination ¹⁾		
			Contact plating silver	Contact plating gold ²⁾			
Female receptacle, termination: solder or crimp, contact plating: silver or gold, panel mounting with ring nut, sealing with O-Ring.		3 ³⁾	C091 31N003 100 2	–	C091 11N003 000 2		
		4	C091 31N004 100 2	–	C091 11N004 000 2		
		5	C091 31N005 100 2	C091 31N005 200 2	C091 11N005 000 2		
		5S ³⁾	C091 31N105 100 2	–	C091 11N105 000 2		
		6 ³⁾	C091 31N006 100 2	–	C091 11N006 000 2		
		7	C091 31N007 100 2	–	C091 11N007 000 2		
		7 ³⁾	C091 31N107 100 2	–	C091 11N107 000 2		
		8 ³⁾	C091 31N008 100 2	C091 31N008 200 2	C091 11N008 000 2		
		12	C091 31N012 100 2	C091 31N012 200 2	–		
		14	C091 31N014 100 2	C091 31N014 200 2	–		
		Female receptacle, termination: straight dip solder, contact plating: silver or gold, pin length 15 mm from flange, panel mounting with ring nut, sealing with O-Ring, solder area: tin plated.		3 ³⁾	C091 61N003 110 2	–	–
				4 ³⁾	C091 61N004 110 2	–	–
				5	C091 61N005 110 2	–	–
				5S ³⁾	C091 61N105 110 2	–	–
6	C091 61N006 110 2			–	–		
7	C091 61N007 110 2			–	–		
7 ³⁾	C091 61N107 110 2			–	–		
8 ³⁾	C091 61N008 110 2			–	–		
12	–			C091 61N012 210 2	–		
14	–			C091 61N014 210 2	–		
Female receptacle, termination: straight dip solder, contact plating: silver, pin length 19 mm from flange, panel mounting with ring nut, sealing with O-Ring, solder area: tin plated.				3 ³⁾	C091 61N003 120 2	–	–
				4 ³⁾	C091 61N004 120 2	–	–
				5	C091 61N005 120 2	–	–
				5S ³⁾	C091 61N105 120 2	–	–
		6 ³⁾	C091 61N006 120 2	–	–		
		7	C091 61N007 120 2	–	–		
		7 ³⁾	C091 61N107 120 2	–	–		
		8 ³⁾	C091 61N008 120 2	–	–		
		12	–	–	–		
		14	–	–	–		
		Female receptacle, termination: straight dip solder, contact plating: silver, pin length 24 mm from flange, panel mounting with ring nut, sealing with O-Ring, solder area: tin plated.		3 ³⁾	C091 61N003 130 2	–	–
				4 ³⁾	C091 61N004 130 2	–	–
				5	C091 61N005 130 2	–	–
				5S ³⁾	C091 61N105 130 2	–	–
6 ³⁾	C091 61N006 130 2			–	–		
7	C091 61N007 130 2			–	–		
7 ³⁾	C091 61N107 130 2			–	–		
8 ³⁾	C091 61N008 130 2			–	–		
12	–			–	–		
14	–			–	–		

¹⁾ Please order crimp contacts separately, see page 43

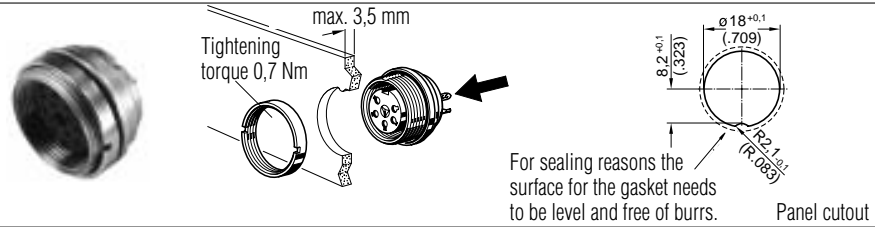
²⁾ see remark page 34

³⁾ Contact order for DIN EN 60 130-9

⁴⁾ Available upon request.

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Female receptacle for rear mounting



Description	Drawing	No. of cont.	Part Number solder termination		Part Number Crimp termination ¹⁾		
			Contact plating silver	Contact plating gold ²⁾			
Female receptacle, termination: solder or crimp, contact plating: silver or gold, panel mounting with ring nut, sealing with O-Ring.		3 ³⁾	C091 31G003 100 2	–	C091 11G003 000 2		
		4 ³⁾	C091 31G004 100 2	C091 31G004 200 2	C091 11G004 000 2		
		5	C091 31G005 100 2	C091 31G005 200 2	C091 11G005 000 2		
		5S ³⁾	C091 31G105 100 2	–	C091 11G105 000 2		
		6 ³⁾	C091 31G006 100 2	–	C091 11G006 000 2		
		7	C091 31G007 100 2	C091 31G007 200 2	C091 11G007 000 2		
		7 ³⁾	C091 31G107 100 2	–	C091 11G107 000 2		
		8 ³⁾	C091 31G008 100 2	C091 31G008 200 2	C091 11G008 000 2		
		12	C091 31G012 100 2	C091 31G012 200 2	–		
		14	C091 31G014 100 2	C091 31G014 200 2	–		
		Female receptacle, termination: straight dip solder, contact plating: silver or gold, pin length 10.5 mm from flange, panel mounting with ring nut, sealing with O-Ring, solder area: tin plated.		3 ³⁾	C091 61G003 110 2	–	–
				4 ³⁾	C091 61G004 110 2	–	–
				5	C091 61G005 110 2	–	–
				5S ³⁾	C091 61G105 110 2	–	–
6 ³⁾	C091 61G006 110 2			C091 G006 210 2	–		
7	C091 61G007 110 2			–	–		
7 ³⁾	C091 61G107 110 2			–	–		
8 ³⁾	C091 61G008 110 2			–	–		
12	C091 61G012 110 2			C091 61G012 210 2	–		
14	C091 61G014 110 2			C091 61G014 210 2	–		
Female receptacle, termination: straight dip solder, contact plating: silver, pin length 15 mm from flange, panel mounting with ring nut, sealing with O-Ring, solder area: tin plated.				3 ³⁾	C091 61G003 120 2	–	–
				4 ³⁾	C091 61G004 120 2	–	–
				5	C091 61G005 120 2	–	–
				5S ³⁾	C091 61G105 120 2	–	–
		6 ³⁾	C091 61G006 120 2	–	–		
		7	C091 61G007 120 2	–	–		
		7 ³⁾	C091 61G107 120 2	–	–		
		8 ³⁾	C091 61G008 120 2	–	–		
		12	–	–	–		
		14	–	–	–		
		Female receptacle, termination: straight dip solder, contact plating: silver, pin length 20 mm from flange, panel mounting with ring nut, sealing with O-Ring, solder area: tin plated.		3 ³⁾	C091 61G003 130 2	–	–
				4 ³⁾	C091 61G004 130 2	–	–
				5	C091 61G005 130 2	–	–
				5S ³⁾	C091 61G105 130 2	–	–
6 ³⁾	C091 61G006 130 2			–	–		
7	C091 61G007 130 2			–	–		
7 ³⁾	C091 61G107 130 2			–	–		
8 ³⁾	C091 61G008 130 2			–	–		
12	–			–	–		
14	–			–	–		

¹⁾ Please order crimp contacts separately, see page 43

²⁾ see remark page 34

³⁾ Contact order for DIN EN 60 130-9

⁴⁾ Available upon request.

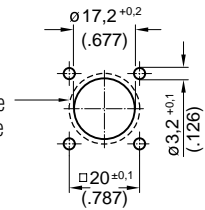
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Female receptacle for flange mounting



For sealing reasons the surface for the gasket needs to be level and free of burrs. Provide suitable sealing for the screws.

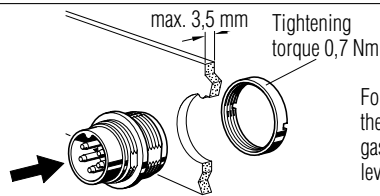
Panel Cutout



Description	Drawing	No. of cont.	Part Number solder termination		Part Number Crimp termination ¹⁾
			Contact plating silver	Contact plating gold ²⁾	
Female receptacle, sealing with O-Ring, termination: solder or crimp, contact plating: silver or gold, with sealing gasket.		3 ³⁾	C091 31T003 100 2	C091 31T003 200 2	–
		4 ³⁾	C091 31T004 100 2	C091 31T004 200 2	–
		5	C091 31T005 100 2	–	–
		5S ³⁾	C091 31T105 100 2	–	–
		6 ³⁾	C091 31T006 100 2	C091 31T006 200 2	–
		7	C091 31T007 100 2	C091 31T007 200 2	C091 11T007 000 2
		7 ³⁾	C091 31T107 100 2	–	C091 11T107 000 2
		8 ³⁾	C091 31T008 100 2	–	–
		12	C091 31T012 100 2	C091 31T012 200 2	–
		14	C091 31T014 100 2	C091 31T014 200 2	–

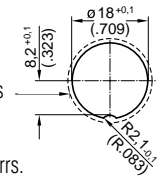
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Male receptacle for front mounting



For sealing reasons the surface for the gasket needs to be level and free of burrs.

Panel Cutout



Description	Drawing	No. of cont.	Part Number solder termination		Part Number Crimp termination ¹⁾
			Contact plating silver	Contact plating gold ²⁾	
Male receptacle, termination: solder or crimp, contact plating: silver or gold, panel mounting with ring nut, sealing with O-Ring.		3 ³⁾	C091 31W003 100 2	C091 31W003 200 2	C091 11W003 000 2
		4 ³⁾	C091 31W004 100 2	C091 31W004 200 2	C091 11W004 000 2
		5	C091 31W005 100 2	C091 31W005 200 2	C091 11W005 000 2
		5S ³⁾	C091 31W105 100 2	C091 31W105 200 2	C091 11W105 000 2
		6 ³⁾	C091 31W006 100 2	C091 31W105 200 2	C091 11W006 000 2
		7	C091 31W007 100 2	C091 31W006 200 2	C091 11W007 000 2
		7 ³⁾	C091 31W107 100 2	C091 31W107 200 2	C091 11W107 000 2
		8 ³⁾	C091 31W008 100 2	C091 31W008 200 2	C091 11W008 000 2
		12	C091 31W012 100 2	C091 31W012 200 2	–
		14	C091 31W014 100 2	C091 31W014 200 2	–

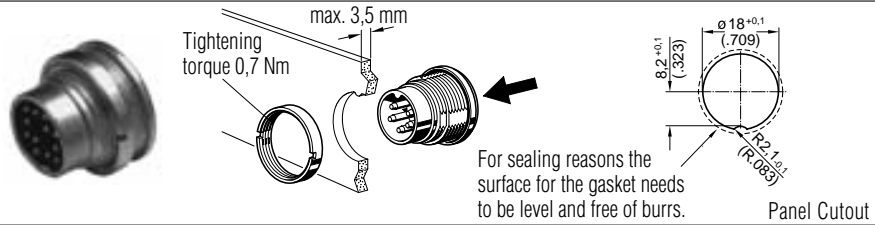
¹⁾ Please order crimp contacts separately, see page 43

²⁾ see remark page 34

³⁾ Contact order for DIN EN 60 130-9

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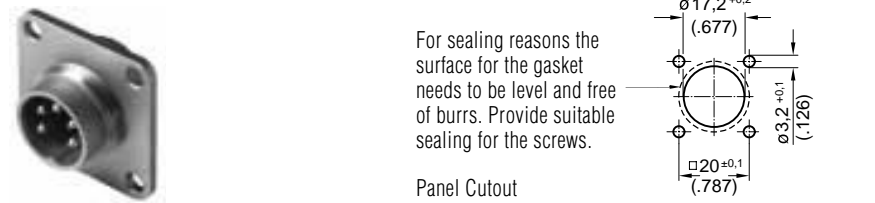
Male receptacle for rear mounting



Description	Drawing	No. of cont.	Part Number solder termination		Part Number Crimp termination ¹⁾
			Contact plating silver	Contact plating gold ²⁾	
Male receptacle, termination: solder or crimp, contact plating: silver or gold, panel mounting with ring nut, sealing with O-Ring.		3 ³⁾	C091 31C003 100 2	C091 31C003 200 2	C091 11C003 000 2
		4 ³⁾	C091 31C004 100 2	C091 31C004 200 2	C091 11C004 000 2
		5	C091 31C005 100 2	C091 31C005 200 2	C091 11C005 000 2
		5S ³⁾	C091 31C105 100 2	C091 31C105 200 2	C091 11C105 000 2
		6 ³⁾	C091 31C006 100 2	C091 31C006 200 2	C091 11C006 000 2
		7	C091 31C007 100 2	C091 31C007 200 2	C091 11C007 000 2
		7 ³⁾	C091 31C107 100 2	C091 31C107 200 2	C091 11C107 000 2
		8 ³⁾	C091 31C008 100 2	C091 31C008 200 2	C091 11C008 000 2
		12	C091 31C012 100 2	C091 31C012 200 2	–
		14	C091 31C014 100 2	C091 31C014 200 2	–

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Male receptacle for flange mounting



Description	Drawing	No. of cont.	Part Number solder termination		Part Number Crimp termination ¹⁾
			Contact plating silver	Contact plating gold ²⁾	
Male receptacle, sealing with O-Ring, termination: solder or crimp, contact plating: silver or gold, with sealing gasket.		3 ³⁾	C091 31S003 100 2	–	C091 11S003 000 2
		4 ³⁾	C091 31S004 100 2	–	–
		5	C091 31S005 100 2	–	–
		5S ³⁾	C091 31S105 100 2	–	–
		6 ³⁾	C091 31S006 100 2	C091 31S006 200 2	–
		7	C091 31S007 100 2	–	C091 11S007 000 2
		7 ³⁾	C091 31S107 100 2	–	C091 11S107 000 2
		8 ³⁾	C091 31S008 100 2	C091 31S008 200 2	–
		12	C091 31S012 100 2	C091 31S012 200 2	–
		14	C091 31S014 100 2	C091 31S014 200 2	–

¹⁾ Please order crimp contacts separately, see page 43

²⁾ see remark page 34

³⁾ Contact order for DIN EN 60 130-9

C 091

Crimp contacts

Stamped single contacts

Stamped contacts on reel for hand crimping tools

Stamped contacts on reel for crimp machines





packaging unit 100 pcs



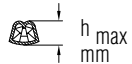
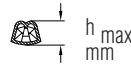
200 pcs



2000 pcs
(feeding left or right hand side)

Typ of Contact	Contact Ø	Wire Gauge	max. Insul. Ø	Supplied as	Pcs.	Part Number	
						silver	gold
Pin contact 	1.5 mm	0.14-0.5 mm ² AWG 26-20	2.0 ^{+0.2} mm	single contact	100	VN01 015 0046 (1)	VN01 015 0046 (2)
				contacts on reel	200	ZN01 015 0046 (1)	ZN01 015 0046 (2)
				right	2000	HN01 015 0046 (1)	HN01 015 0046 (2)
				left	2000	TN01 015 0046 (1)	TN01 015 0046 (2)
		0.75-1.0 mm ² AWG 18	2.0 ^{+0.2} mm	single contact	100	VN01 015 0047 (1)	VN01 015 0047 (2)
				contacts on reel	200	ZN01 015 0047 (1)	ZN01 015 0047 (2)
				right	2000	HN01 015 0047 (1)	HN01 015 0047 (2)
				left	2000	TN01 015 0047 (1)	TN01 015 0047 (2)
Socket contact 	1.5 mm	0.14-0.5 mm ² AWG 26-20	2.0 ^{+0.2} mm	single contact	100	VN02 015 0046 (1)	VN02 015 0046 (2)
				contacts on reel	200	ZN02 015 0046 (1)	ZN02 015 0046 (2)
				right	2000	HN02 015 0046 (1)	HN02 015 0046 (2)
				left	2000	TN02 015 0046 (1)	TN02 015 0046 (2)
		0.75-1.0 mm ² AWG 18	2.0 ^{+0.2} mm	single contact	100	VN02 015 0047 (1)	VN02 015 0047 (2)
				contacts on reel	200	ZN02 015 0047 (1)	ZN02 015 0047 (2)
				right	2000	HN02 015 0047 (1)	HN02 015 0047 (2)
				left	2000	TN02 015 0047 (1)	TN02 015 0047 (2)

For more information upon crimping tools please contact factory or order our catalogue „Tools“.

Minimum retention forces according to DIN EN 60 352-2							
Wires				Wires			
Wire size		Minimum retention force	Crimp height (average values)	Wire size		Minimum retention force	Crimp height (average values)
mm ²		N	 h _{max} mm	mm ²	AWG	N	 h _{max} mm
0.14 - 0.5 AWG 26-20	0.14	24	0.9 - 1.01	0.14 - 0.5	26	24	0.9 - 1.0
	0.25	42	0.92 - 1.09		24	39	0.92 - 1.02
	0.5	73	0.95 - 1.11 1.3 - 1.39		22	53	0.93 - 1.03
0.5 - 1.5 AWG 20-16	0.75	101	1.34 - 1.4	0.5 - 1.5	20	84	0.95 - 1.10 1.24 - 1.34
	1	135	1.36 - 1.44		18	131	1.32 - 1.42

These min. values are based on the copper wire tensile strength with $\delta_B \approx 230 \text{ N/mm}^2$.