

C 091 A



Main Features

- Metal locking ring; screw locking according to DIN EN 60130-9 / IEC 60130-9
- Number of contacts: 2 – 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: 2 – 8, 12 and 14 contacts
 - Crimp connection: 2 – 8 contacts
 - With cable sleeve for max. cable diameter 6 mm, or
 - 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 or right angled
 - With dip solder contacts of various contact lengths
 - Solder connection: 2 – 8, 12 and 14 contacts
 - Crimp connection: 2 – 8 contacts
- Coloured back shells optional
- 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		2*+ 3	4	5	5 Stereo	6	7	7	8	12	14	
View on termination side of male contact insert												
Contact arrangement acc. to DIN		41 524	—	—	41 524	45 322	—	45 329	45 326	—	—	
Contact arrangement acc. to IEC		60130-9	60120-9	—	60130-9	60130-9	—	60130-9	60130-9	—	—	
Electrical Characteristics												
Rated voltage	IEC 60664-1	300 V ≈			100 V ≈	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	II, 400 ≤ CTI < 600										
Current rating	IEC 60512-5-2 Test 5 b UL 1977	5 A / + 40 °C / + 104 °F please refer also to current derating curves page 45									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 60068-1	40 / 100 / 56										
Temperature range	IEC 60068-1	- 40 °C ... + 100 °C / - 40 °F ... + 212 °F										
Mechanical Characteristics												
IP-degree	IEC 60529	IP 40										
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 Test 9 a	Silver ≥ 500 mating cycles Gold ≥ 1000 mating cycles										
Materials												
Housing material		coupling ring brass, strain relief, die cast, nickel plated										
Dielectric material		thermoplastic										
Contact plating		silver plated / gold plated **										
Further Characteristics												
Termination technique		solder, crimp									solder	
Wire gauge		solder: ≤ 0,5 mm² / 20 AWG crimp: 2 - 6 pol (excluding 5S): 0,09 - 1,00 mm² / 28 - 18 AWG crimp: 5S, 7, 7S and 8-pol.: 0,09 - 0,75 mm² / 28 - 20 AWG									≤ 0,25 mm²/24 AWG	
Flammability		UL 94 V0										
Locking system	IEC 60130-9	metal screw coupling; tightening torque 0,7 Nm										

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

*** 2 contact version: contact loading 1+3**

**** 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 ≙ DIN VDE 0110 ; IEC 60 512-x ≙ DIN EN 60 512-x; IEC 60 130-9 ≙ DIN EN 60 130-9

C 091 A

Male cable connector,
screw locking,
straight



Cable diameter 4-6 mm



Cable diameter 6-8 mm



Cable diameter 4-6 mm



Cable diameter 4-6 mm

Description	Drawing	No. of cont.	Part Number solder termination		Part Number Crimp termination ¹⁾
			Contact plating silver	Contact plating gold ²⁾	
Male cable connector, for cable diameter 4-6 mm, termination: solder or crimp, contact plating: silver or gold.		2	T 3200 001	T 3200 018	—
		3 ³⁾	T 3260 001	T 3260 018	T 3260 551
		4 ³⁾	T 3300 001	T 3300 018	T 3300 551
		5	T 3360 001	T 3360 018	T 3360 551
		5 S ³⁾	T 3360 010	T 3356 018 ⁴⁾	T 3356 551
		6 ³⁾	T 3400 001	T 3400 018	T 3400 551
		7	T 3475 001	T 3475 018	T 3475 551
		7 ³⁾	T 3484 001	T 3484 018 ⁴⁾	T 3484 551
		8 ³⁾	T 3504 001	T 3504 018	T 3504 551
		12	T 3635 001	T 3635 000	—
		14	T 3650 001	T 3650 000	—
Male cable connector, for cable diameter 6-8 mm, termination: solder or crimp, with clamping ring, contact plating: silver or gold.		2	T 3200 002	T 3200 028	—
		3 ³⁾	T 3260 002	T 3260 028	T 3260 552
		4 ³⁾	T 3300 002	T 3300 028	T 3300 552
		5	T 3360 002	T 3360 028	T 3360 552
		5 S ³⁾	T 3360 020	T 3356 028 ⁴⁾	T 3356 552
		6 ³⁾	T 3400 002	T 3400 028	T 3400 552
		7	T 3475 002	T 3475 028	T 3475 552
		7 ³⁾	T 3484 002	T 3484 028	T 3484 552
		8 ³⁾	T 3504 002	T 3504 028	T 3504 552
		12	—	T 3635 002	—
		14	—	T 3650 002	—
Male cable connector, for cable diameter 4-6 mm, termination: solder or crimp, contact plating: silver or gold.		2	T 3200 004	T 3200 048	—
		3 ³⁾	T 3260 004	T 3260 048	T 3260 554
		4 ³⁾	T 3300 004	T 3300 048	T 3300 554 ⁴⁾
		5	T 3360 004	T 3360 048	T 3360 554 ⁴⁾
		5 S ³⁾	T 3356 004	T 3356 048 ⁴⁾	T 3356 554
		6 ³⁾	T 3400 004	T 3400 048	T 3400 554 ⁴⁾
		7	T 3475 004	T 3475 048	T 3475 554 ⁴⁾
		7 ³⁾	T 3484 004	T 3484 048	T 3484 554 ⁴⁾
		8 ³⁾	T 3504 004	T 3504 048	T 3504 554
		12	—	T 3635 004	—
		14	—	T 3650 004	—
Male cable connector, for cable diameter 4-6 mm, solder termination, plastic coated coupling ring, contact plating: silver.		2	T 3200 013	—	—
		3 ³⁾	T 3260 013	—	—
		4 ³⁾	T 3300 013	—	—
		5	T 3360 013	—	—
		5 S ³⁾	T 3360 130	—	—
		6 ³⁾	T 3400 013	T 3400 038	—
		7	T 3475 013	T 3475 038	—
		7 ³⁾	T 3484 013 ⁴⁾	—	—
		8 ³⁾	T 3504 013	—	—
		12	—	—	—
		14	—	—	—

¹⁾ Please order crimp contacts separately, see page 43

²⁾ see remark page 5

³⁾ Contact order for DIN EN 60 130-9

⁴⁾ Available upon request.

C 091 A

Male cable connector,
screw locking,
right-angled



Description	Drawing	No. of cont.	Part Number solder termination		Part Number Crimp termination ¹⁾
			Contact plating silver	Contact plating gold ²⁾	
Male cable connector, right-angled, for cable diameter 4-6 mm, termination: solder or crimp, contact plating: silver or gold.		2	T 3200 005	—	—
		3 ³⁾	T 3260 005	T 3260 058 ⁴⁾	T 3260 055
		4 ³⁾	T 3300 005	T 3300 058 ⁴⁾	T 3300 055
		5	T 3360 005	T 3360 058	T 3360 055
		5 S ³⁾	T 3356 005	T 3356 058 ⁴⁾	T 3356 055
		6 ³⁾	T 3400 005	T 3400 058	T 3400 055
		7	T 3475 005	T 3475 058 ⁴⁾	T 3475 055
		7 ³⁾	T 3484 005	T 3484 058 ⁴⁾	T 3484 055
		8 ³⁾	T 3504 005	T 3504 058 ⁴⁾	T 3504 055
		12	T 3635 005	T 3635 058	—
		14	T 3650 005	T 3650 058	—

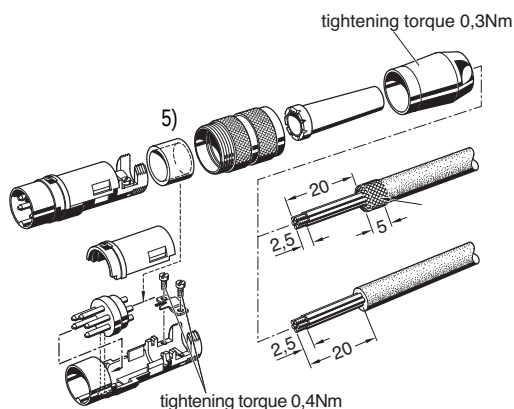
¹⁾ Please order crimp contacts separately, see page 43

²⁾ See remark page 6

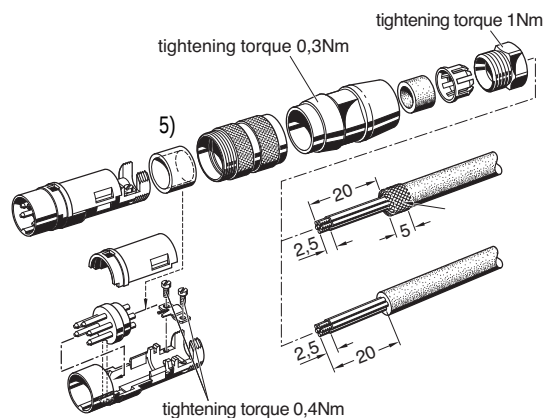
³⁾ Contact order for DIN EN 60 130-9

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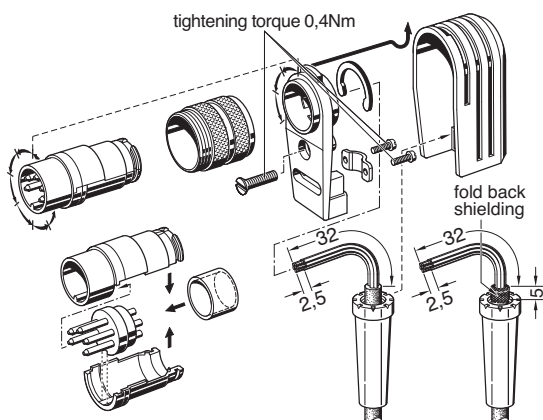
Assembly instructions ⁶⁾ male cable connector, cable diameter 4-6 mm



Assembly instructions ⁶⁾ male cable connector, cable diameter 4-6 mm or 6-8 mm



Assembly instructions ⁶⁾ male cable connector, right-angled, can be keyed to 8 angle positions



⁵⁾ Solder version only

⁶⁾ Assembly Instructions please refer to page 46, connecting instructions

C 091 A

Female cable connector,
screw locking,
straight



Description	Drawing	No. of cont.	Part Number solder termination		Part Number Crimp termination ¹⁾
			Contact plating silver	Contact plating gold ²⁾	
Female cable connector, for cable diameter 4-6 mm, termination: solder or crimp, contact plating: silver or gold.		2	T 3201 001	T 3201 018	—
		3 ³⁾	T 3261 001	T 3261 018	T 3261 551
		4 ³⁾	T 3301 001	T 3301 018	T 3301 551
		5	T 3361 001	T 3361 018	T 3361 551
		5 S ³⁾	T 3361 010	T 3357 018 ⁴⁾	T 3357 551
		6 ³⁾	T 3401 001	T 3401 018	T 3401 551
		7	T 3476 001	T 3476 018	T 3476 551
		7 ³⁾	T 3485 001	T 3485 018	T 3485 551
		8 ³⁾	T 3505 001	T 3505 018	T 3505 551
		12	T 3636 001	T 3636 000	—
		14	T 3651 001	T 3651 000	—
		2	T 3201 002	T 3201 028	—
		3 ³⁾	T 3261 002	T 3261 028	T 3261 552 ⁴⁾
		4 ³⁾	T 3301 002	T 3301 028	T 3301 552 ⁴⁾
Female cable connector, for cable diameter 6-8 mm, termination: solder or crimp, with clamping ring, contact plating: silver or gold.		5	T 3361 002	T 3361 028	T 3361 552
		5 S ³⁾	T 3361 020	T 3357 028 ⁴⁾	T 3357 552 ⁴⁾
		6 ³⁾	T 3401 002	T 3401 028	T 3401 552 ⁴⁾
		7	T 3476 002	T 3476 028	T 3476 552
		7 ³⁾	T 3485 002	T 3485 028	T 3485 552 ⁴⁾
		8 ³⁾	T 3505 002	T 3505 028	T 3505 552
		12	—	T 3636 002	—
		14	—	T 3651 002	—
		2	—	—	—
		3 ³⁾	T 3261 004	T 3261 048	T 3261 554 ⁴⁾
		4 ³⁾	T 3301 004	T 3301 048	T 3301 554
		5	T 3361 004	T 3361 048 ⁴⁾	T 3361 554 ⁴⁾
		5 S ³⁾	T 3357 004	T 3357 048 ⁴⁾	T 3357 554
		6 ³⁾	T 3401 004	T 3401 048	T 3401 554 ⁴⁾
		7	T 3476 004	T 3476 048	T 3476 554 ⁴⁾
Female cable connector, for cable diameter 4-6 mm, termination: solder or crimp, contact plating: silver or gold.		7 ³⁾	T 3485 004	T 3485 048	T 3485 554 ⁴⁾
		8 ³⁾	T 3505 004	T 3505 048	T 3505 554
		12	—	T 3636 004	—
		14	—	T 3651 004	—
		2	T 3201 013	—	—
		3 ³⁾	T 3261 013	—	—
		4 ³⁾	T 3301 013	—	—
		5	T 3361 013	—	—
		5 S ³⁾	T 3361 130	—	—
		6 ³⁾	T 3401 013	—	—
		7	T 3476 013	T 3476 038	—
		7 ³⁾	T 3485 013	—	—
		8 ³⁾	T 3505 013	—	—
		12	—	—	—
		14	—	—	—
Female cable connector, for cable diameter 4-6 mm, solder termination, plastic coated coupling ring, contact plating: silver.		2	T 3201 013	—	—
		3 ³⁾	T 3261 013	—	—
		4 ³⁾	T 3301 013	—	—
		5	T 3361 013	—	—
		5 S ³⁾	T 3361 130	—	—
		6 ³⁾	T 3401 013	—	—
		7	T 3476 013	T 3476 038	—
		7 ³⁾	T 3485 013	—	—
		8 ³⁾	T 3505 013	—	—
		12	—	—	—
		14	—	—	—

¹⁾ Please order crimp contacts separately, see page 43

²⁾ See remark page 6

³⁾ Contact order for DIN EN 60 130-9

⁴⁾ Available upon request.

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Female cable connector,
screw locking,
right-angled



Description	Drawing	No. of cont.	Part Number solder termination		Part Number Crimp termination ¹⁾
			Contact plating silver	Contact plating gold ²⁾	
Female cable connector, right-angled, for cable diameter 4-6 mm, termination: solder or crimp, contact plating: silver or gold.		2	T 3201 005	—	—
		3 ³⁾	T 3261 005	T 3261 058 ⁴⁾	T 3261 055
		4 ³⁾	T 3301 005	T 3301 058 ⁴⁾	T 3301 055
		5	T 3361 005	T 3361 058 ⁴⁾	T 3361 055
		5 S ³⁾	T 3357 005	T 3357 058	T 3357 055
		6 ³⁾	T 3401 005	T 3401 058	T 3401 055
		7	T 3476 005	T 3476 058 ⁴⁾	T 3476 055
		7 ³⁾	T 3485 005	T 3485 058 ⁴⁾	T 3485 055
		8 ³⁾	T 3505 005	T 3505 058 ⁴⁾	T 3505 055
		12	T 3636 005	T 3636 058	—
		14	T 3651 005	T 3651 058 ⁴⁾	—

¹⁾ Please order crimp contacts separately, see page 43

²⁾ See remark page 6

³⁾ Contact order for DIN EN 60 130-9

⁴⁾ Available upon request.

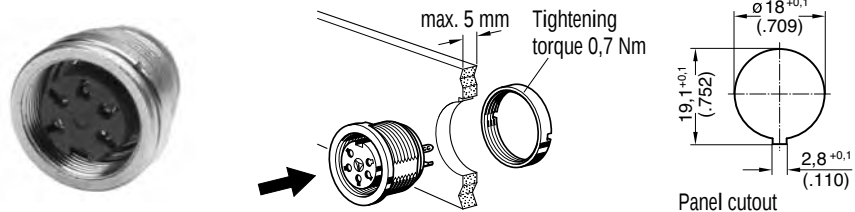
Assembly instructions ⁶⁾ female cable connector, cable diameter 4-6 mm	Assembly instructions ⁶⁾ female cable connector, cable diameter 4-6 mm or 6-8 mm
Assembly instructions ⁶⁾ female cable connector, right-angled, can be keyed to 8 angle positions	

⁵⁾ Solder version only

⁶⁾ Assembly instructions please refer to page 46, connecting instructions

C 091 A

Female receptacle,
screw locking,
front mounting



Description	Drawing	No. of cont.	Part Number solder termination			Part No. Crimp termination ¹⁾
			Contact plating silver ring nut	hex nut	Contact plating gold ²⁾ ring nut	
Female receptacle, termination: solder or crimp, panel mounting with ring or hex nut, contact plating: silver or gold.		2	T 3203 000	T 3203 009	T 3203 018	—
		3 ³⁾	T 3263 000	T 3263 009	T 3263 018	T 3263 550
		4 ³⁾	T 3303 000	T 3303 009	T 3303 018	T 3303 550
		5	T 3363 000	T 3363 009	T 3363 018	T 3363 550
		5 S ³⁾	T 3363 010	T 3359 009	T 3359 018	T 3359 550
		6 ³⁾	T 3403 000	T 3403 009	T 3403 018	T 3403 550
		7	T 3478 000	T 3478 009	T 3478 018	T 3478 550
		7 ³⁾	T 3487 000	T 3487 009	T 3487 018 ⁴⁾	T 3487 550
		8 ³⁾	T 3507 000	T 3507 009	T 3507 018	T 3507 550
		12	T 3638 000	T 3638 009	T 3638 004	—
		14	T 3653 000	T 3653 009	T 3653 004	—
		2	—	—	—	—
		3 ³⁾	T 3263 300	—	—	—
		4 ³⁾	T 3303 300	—	—	—
Female receptacle, termination: straight dip solder, pin length 15 mm from flange, panel mounting with ring nut, contact plating: silver or gold, solder area: tin plated.		5	T 3363 300	—	—	—
		5 S ³⁾	T 3359 300	—	—	—
		6 ³⁾	T 3403 300	—	—	—
		7	T 3478 300	—	—	—
		7 ³⁾	T 3487 300	—	—	—
		8 ³⁾	T 3507 300	—	—	—
		12	—	—	T 3638 304	—
		14	—	—	T 3653 304	—
		2	—	—	—	—
		3 ³⁾	T 3263 320	—	—	—
		4 ³⁾	T 3303 320	—	—	—
		5	T 3363 320	—	—	—
		5 S ³⁾	T 3359 320	—	—	—
		6 ³⁾	T 3403 320	—	—	—
Female receptacle, termination: straight dip solder, pin length 19 mm from flange, panel mounting with ring nut, contact plating: silver, solder area: tin plated.		7	T 3478 320	—	—	—
		7 ³⁾	T 3487 320	—	—	—
		8 ³⁾	T 3507 320	—	—	—
		12	—	—	—	—
		14	—	—	—	—
		2	—	—	—	—
		3 ³⁾	T 3263 330	—	—	—
		4 ³⁾	T 3303 330	—	—	—
		5	T 3363 330	—	—	—
		5 S ³⁾	T 3359 330	—	—	—
		6 ³⁾	T 3403 330	—	—	—
		7	T 3478 330	—	—	—
		7 ³⁾	T 3487 330	—	—	—
		8 ³⁾	T 3507 330	—	—	—
		12	—	—	—	—
		14	—	—	—	—

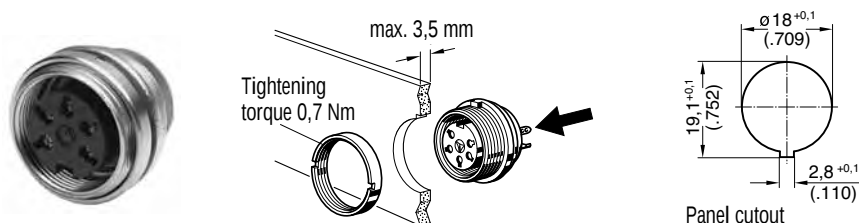
¹⁾ Please order crimp contacts separately, see page 43

²⁾ See remark page 6

³⁾ Contact order for DIN EN 60 130-9

⁴⁾ Available upon request.

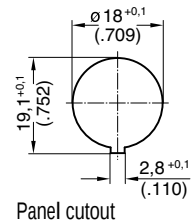
**Female receptacle,
screw locking,
rear mounting**



¹⁾ Please order crimp contacts separately, see page 43 ²⁾ See remark page 6 ³⁾ Contact order for DIN EN 60 130-9 ⁴⁾ Available upon request.

C 091 A

Female receptacle,
screw locking,
right-angled

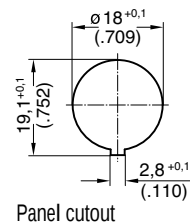


Panel cutout

Description	Drawing	No. of cont.	Part Number solder termination		Part Number Crimp termination ¹⁾						
			Contact plating silver	Contact plating gold ²⁾							
Female receptacle, right-angled, PCB mounting, contact plating: gold, solder area: tin plated.	<table><tr><th>³⁾ *A</th><th>Best.-Nr.</th></tr><tr><td>3</td><td>...218</td></tr><tr><td>8,3</td><td>...228</td></tr></table>	³⁾ *A	Best.-Nr.	3	...218	8,3	...228	2	—	—	—
		³⁾ *A	Best.-Nr.								
		3	...218								
		8,3	...228								
		3 ³⁾	—	—	—						
		4 ³⁾	—	—	—						
		5	—	T 3363 ... ³⁾	—						
		5 S ³⁾	—	—	—						
		6 ³⁾	—	T 3403 ... ³⁾	—						
		7	—	—	—						
		7 ³⁾	—	—	—						
		8 ³⁾	—	—	—						
		12	—	—	—						
		14	—	—	—						
PCB-layout components side											
5 Pol.			6 Pol.								
Female receptacle, right-angled, rear mounting, panel mounting with ring nut, contact plating: gold, solder area: tin plated.	<table><tr><th>M18x0.75</th><th>Best.-Nr.</th></tr><tr><td>1</td><td>...218</td></tr><tr><td>8,3</td><td>...228</td></tr></table>	M18x0.75	Best.-Nr.	1	...218	8,3	...228	2	—	—	—
		M18x0.75	Best.-Nr.								
		1	...218								
		8,3	...228								
		3 ³⁾	—	—	—						
		4 ³⁾	—	—	—						
		5	—	T 3363 902	—						
		5 S ³⁾	—	—	—						
		6 ³⁾	—	T 3403 902	—						
		7	—	—	—						
		7 ³⁾	—	—	—						
		8 ³⁾	—	—	—						
		12	—	—	—						
		14	—	—	—						
PCB-layout components side											
5 Pol.			6 Pol.								

C 091 A

Female receptacle,
screw locking,
right-angled



Description	Drawing	No. of cont.	Part Number solder termination		Part Number Crimp termination ¹⁾
			Contact plating silver	Contact plating gold ²⁾	
Female receptacle, right-angled, PCB mounting, contact plating: silver.		2	—	—	—
		3 ³⁾	T 3263 900	—	—
		4 ³⁾	—	—	—
		5	—	—	—
		5 S ³⁾	T 3359 900	—	—
		6 ³⁾	—	—	—
		7	—	—	—
		7 ³⁾	T 3487 900	—	—
		8 ³⁾	T 3507 900	—	—
		12	—	—	—
		14	—	—	—
PCB layout components side					
3 POL 5 Pol. Stereo 7 Pol. 8 Pol.					

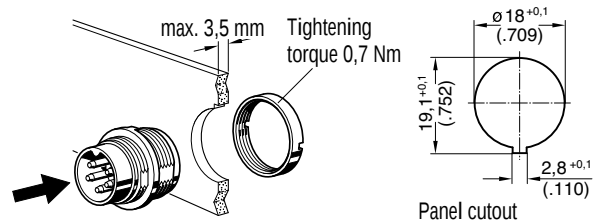
¹⁾ Please order crimp contacts separately, see page 43

²⁾ see remark page 6

³⁾ Contact order for DIN EN 60 130-9

C 091 A

Male receptacle,
screw locking,
front mounting



Description	Drawing	No. of cont.	Part Number solder termination			Part No. Crimp termination ¹⁾
			Contact plating silver ring nut	hex nut	Contact plating gold ²⁾ ring nut	
Male receptacle, termination: solder or crimp, panel mounting with ring or hex nut, contact plating: silver or gold.		2	T 3202 000	T 3202 009	T 3202 018	—
		3 ³⁾	T 3262 000	T 3262 009	T 3262 018	T 3262 550
		4 ³⁾	T 3302 000	T 3302 009	T 3302 018	T 3302 550
		5	T 3362 000	T 3362 009	T 3362 018	T 3362 550
		5 S ³⁾	T 3362 010	T 3358 009	T 3358 018	T 3358 550 ⁴⁾
		6 ³⁾	T 3402 000	T 3402 009	T 3402 018	T 3402 550
		7	T 3477 000	T 3477 009	T 3477 018	T 3477 550
		7 ³⁾	T 3486 000	T 3486 009	T 3486 018	T 3486 550 ⁴⁾
		8 ³⁾	T 3506 000	T 3506 009	T 3506 018	T 3506 550 ⁴⁾
		12	T 3637 001	T 3637 009	T 3637 000	—
		14	T 3652 001	T 3652 009	T 3652 000	—
Male receptacle, termination: straight dip solder, pin length 10.5 mm from flange, panel mounting with ring nut, contact plating: silver or gold.		2	—	—	—	—
		3 ³⁾	T 3262 300	—	—	—
		4 ³⁾	T 3302 300 ⁴⁾	—	—	—
		5	T 3362 300 ⁴⁾	—	—	—
		5 S ³⁾	T 3358 300 ⁴⁾	—	—	—
		6 ³⁾	T 3402 300 ⁴⁾	—	—	—
		7	T 3477 300 ⁴⁾	—	—	—
		7 ³⁾	T 3486 300 ⁴⁾	—	—	—
		8 ³⁾	T 3506 300	—	—	—
		12	—	—	T 3637 304 ⁴⁾	—
		14	—	—	T 3652 304 ⁴⁾	—

¹⁾ Please order crimp contacts separately, see page 43

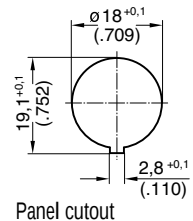
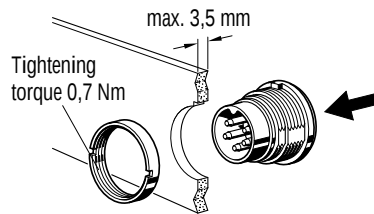
²⁾ see remark page 6

³⁾ Contact order for DIN EN 60 130-9

⁴⁾ Available upon request.

C 091 A

Male receptacle,
screw locking,
rear mounting



Description	Drawing	No. of cont.	Part Number solder termination			Part No. Crimp termination ¹⁾
			Contact plating silver ring nut	hex nut	Contact plating gold ²⁾ ring nut	
Male receptacle, termination: solder or crimp, panel mounting with ring nut, contact plating: silver or gold.		2	T 3202 100	—	—	—
		3 ³⁾	T 3262 100	—	—	T 3262 150 ⁴⁾
		4 ³⁾	T 3302 100	—	—	T 3302 150 ⁴⁾
		5	T 3362 100	—	—	T 3362 150
		5 S ³⁾	T 3358 100	—	—	T 3358 150 ⁴⁾
		6 ³⁾	T 3402 100	—	—	T 3402 150 ⁴⁾
		7	T 3477 100	—	—	T 3477 150 ⁴⁾
		7 ³⁾	T 3486 100	—	—	T 3486 150 ⁴⁾
		8 ³⁾	T 3506 100	—	—	T 3506 150 ⁴⁾
		12	—	—	T 3637 100	—
		14	—	—	T 3652 100	—
Male receptacle, termination: straight dip solder, pin length 10,5 mm from flange, panel mounting with ring nut, contact plating: silver or gold.		3 ³⁾	T 3262 400	—	—	—
		4 ³⁾	T 3302 400	—	—	—
		5	T 3362 400	—	—	—
		5 S ³⁾	T 3358 400	—	—	—
		6 ³⁾	T 3402 400	—	—	—
		7	T 3477 400	—	—	—
		7 ³⁾	T 3486 400	—	—	—
		8 ³⁾	T 3506 400	—	—	—
		12	—	—	T 3637 400	—
		14	—	—	T 3652 400 ⁴⁾	—
Male receptacle, termination: straight dip solder, pin length 14,5 mm from flange, panel mounting with ring nut, contact plating: silver or gold.		3 ³⁾	T 3262 420 ⁴⁾	—	—	—
		4 ³⁾	T 3302 420 ⁴⁾	—	—	—
		5	T 3362 420 ⁴⁾	—	—	—
		5 S ³⁾	T 3358 420 ⁴⁾	—	—	—
		6 ³⁾	T 3402 420	—	—	—
		7	T 3477 420 ⁴⁾	—	—	—
		7 ³⁾	T 3486 420	—	—	—
		8 ³⁾	T 3506 420	—	—	—
Male receptacle, termination: straight dip solder, pin length 19,5 mm from flange, panel mounting with ring nut, contact plating: silver or gold.		3 ³⁾	T 3262 430	—	—	—
		4 ³⁾	T 3302 430 ⁴⁾	—	—	—
		5	T 3362 430 ⁴⁾	—	—	—
		5 S ³⁾	T 3358 430 ⁴⁾	—	—	—
		6 ³⁾	T 3402 430	—	—	—
		7	T 3477 430	—	—	—
		7 ³⁾	T 3486 430 ⁴⁾	—	—	—
		8 ³⁾	T 3506 430 ⁴⁾	—	—	—

¹⁾ Please order crimp contacts separately, see page 43

²⁾ see remark page 6

³⁾ Contact order for DIN EN 60 130-9

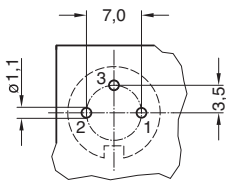
⁴⁾ Available upon request.

PCB-layout

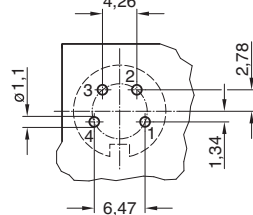
Male Receptacles

These hole patterns on PCB are valid for male receptacles with **straight dip solder pins**.
Components side of circuit board

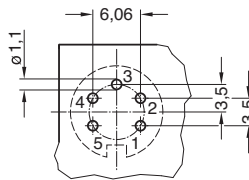
3 POL*



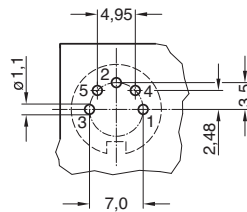
4 POL*



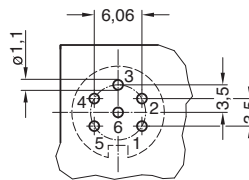
5 POL



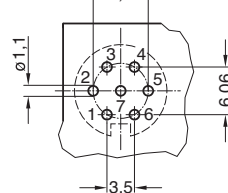
5 POL S*



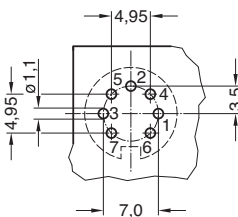
6 POL*



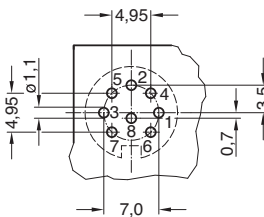
7 POL



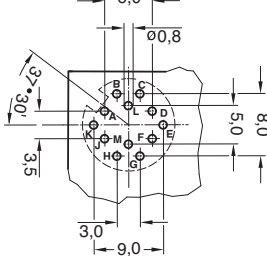
7 POL*



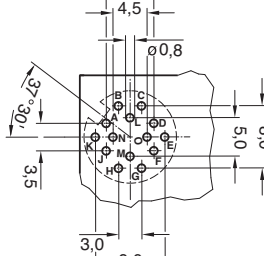
8 POL*



12 POL

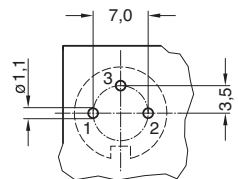


14 POL

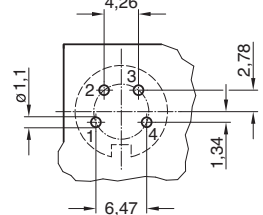
**Female Receptacles**

These hole patterns on PCB are valid for female receptacles with **straight dip solder pins**.
Components side of circuit board

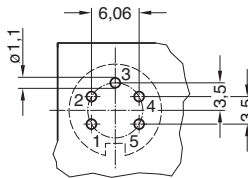
3 POL*



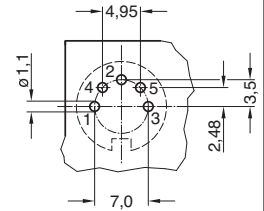
4 POL*



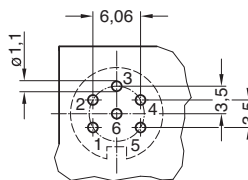
5 POL



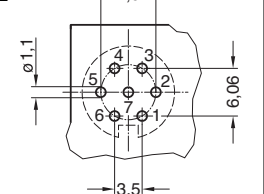
5 POL S*



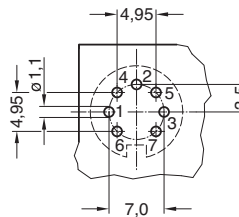
6 POL*



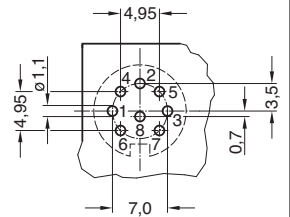
7 POL



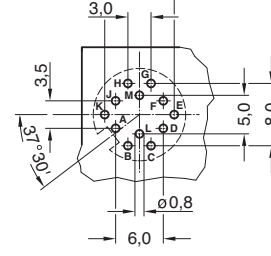
7 POL*



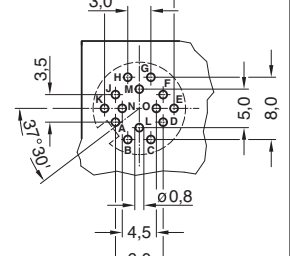
8 POL*



12 POL



14 POL



* Contact order for DIN EN 130-9

C 091

Crimp contacts

Stamped single contacts



packaging unit 100 pcs

Stamped contacts on reel for hand crimping tools



200 pcs

Stamped contacts on reel for crimp machines



2000 pcs
(feeding left or right hand side)

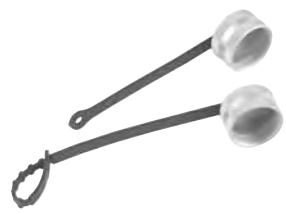
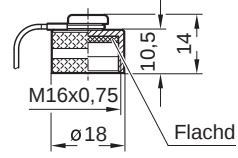
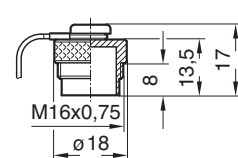
Type of Contact	Contact Ø	Wire Gauge	max. Insul. Ø	Supplied as	Pcs.	Part Number	
						silver	gold
Pin contact 	1.5 mm	0.09-0.25 mm²	0.7-1.6	single contact	100	VN01 015 0052 (1)	VN01 015 0052 (2)
				contacts on reel	200	ZN01 015 0052 (1)	ZN01 015 0052 (2)
				right	2000	HN01 015 0052 (1)	HN01 015 0052 (2)
				left	2000	TN01 015 0052 (1)	TN01 015 0052 (2)
		0.35-0.50 mm²	1.0-2.0	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 mm²	1.6-2.1	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	0.09-0.25 mm²	0.7-1.6	single contact	100	VN02 015 0052 (1)	VN02 015 0052 (2)
				contacts on reel	200	ZN02 015 0052 (1)	ZN02 015 0052 (2)
				right	2000	HN02 015 0052 (1)	HN02 015 0052 (2)
				left	2000	TN02 015 0052 (1)	TN02 015 0052 (2)
		0.35-0.50 mm²	1.0-2.0	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 mm²	1.6-2.1	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)

Connecting Range	Wire Gauge		Stripping length	Crimp height (average values)	Crimp retention force acc. DIN EN 60352-2 N
	mm ²	AWG			
0.09-0.25	0.09	28	3.0 + 0.5	0.85-0.89	11
		26			15
	0.14			0.86-0.90	18
		24			28
				0.91-0.97	32
0.35-0.50	0.35	22	3.0 + 0.5	0.90-1.06	40
	0.50	20		0.95-1.11	60
0.75-1.00	0.75		3.5 + 1.0	1.33-1.50	85
		18			90
	1.00			1.36-1.53	108

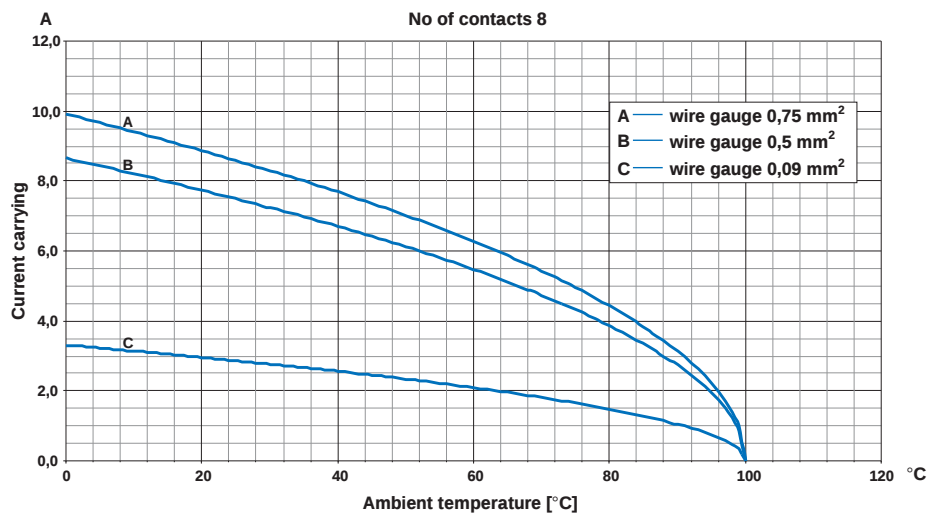
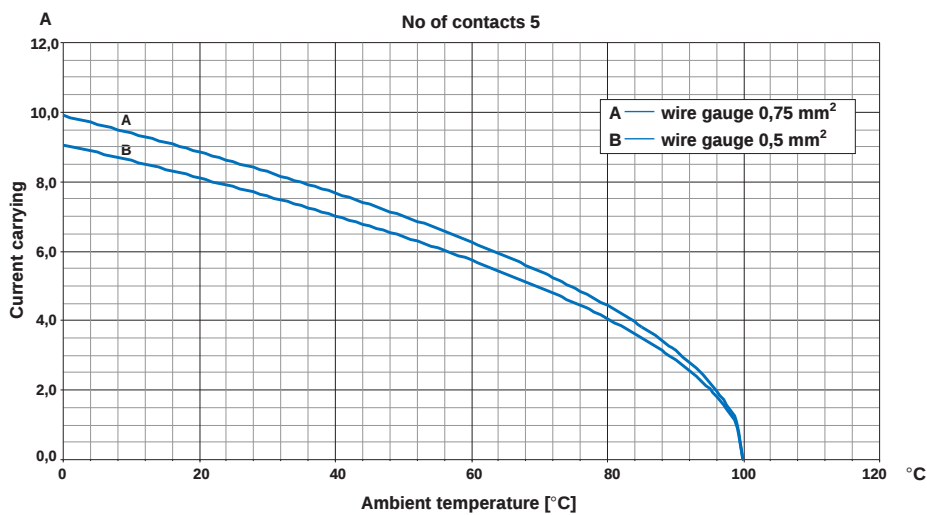
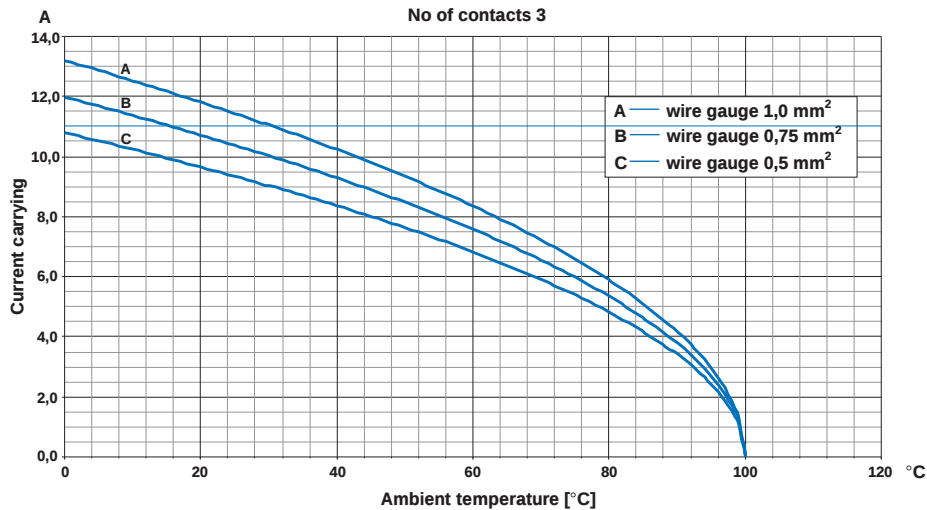
These min. values are based on the copper wire tensile strength with $\delta_B \approx 230 \text{ N/mm}^2$.

C 091

Accessories

Description	for Series	Drawing			Part Number
Spanner wrench for receptacles with ring nut.	C 091 A C 091 B C 091 D				N 45 091-000 1
Spanner wrench for male and female cable connectors.	C 091 A C 091 B C 091 D				FH 0300-091
Protective cover for male cable connectors and male receptacles.	C 091 A C 091 D	 			for male cable connectors C 091 00U000 120 2 L = 85 mm for male receptacles C 091 00U000 130 2 L = 60 mm C 091 00U000 131 2 L = 100 mm
Protective cover for female cable connectors and female receptacles, brass nickel plated.	C 091 A C 091 D	 			for female cable connectors C 091 00V000 120 2 L = 85 mm for female receptacles C 091 00V000 130 2 L = 60 mm C 091 00V000 131 2 L = 100 mm
Knurled ring-nut for male and female receptacles.	C 091 A C 091 D				T1336 060 9
Colored back-shells thermoplast.	C 091 A C 091 B		Colour	Pieces	Part Number
			blue	10 100	T 2993 510 9X T 2993 510 9C
			red	10 100	T 2993 511 9X T 2993 511 9C
			yellow	10 100	T 2993 512 9X T 2993 512 9C
			green	10 100	T 2993 513 9X T 2993 513 9C

The following current derating curves refer to the stated numbers of contacts and wire gauges, when all contacts are simultaneously loaded with the same current. The maximum ambient temperature for the series C091 is 100°C.





1. General Remarks

These connectors are designed and produced in conformity with the low voltage directive (73/23/EWG) respectively Gerätesicherheitsgesetz (German law) and are especially in accordance with the standards DIN EN 61984 (VDE 0627); IEC 60664-1 (VDE 0110-1) and IEC 60529.

The connectors may be used only within the technical ratings.

All technical data refer to mated connectors under live conditions. The safety of the connector system depends on the correct selection of products, proper assembly of the connector device, and a precise fit of the connectors.

2. Application Remarks

Connectors with / without breaking capacity must be used according to specified technical ratings.

The technical data represent the initial value of mated parts under predetermined conditions and length of time. These values could change with different test parameters or product requirements.

The C 091 Series connectors are used in a wide variety of industries and equipment. Some of these include industrial machines and controls, data processing, instrumentation and test equipment, medical devices, telecommunication's network and equipment, plus outdoor and marine applications. All rated data for the connectors listed in this catalog are based on over-voltage category and pollution degree for electronic applications. Connectors were completely mated according to their respective safety locking mechanism. Selection and testing of connectors with / without breaking capacity to meet specific product or industrial requirements such as rated voltage and the related clearances and creepage distances are the responsibility of the user.

3. Assembling Remarks

Certain appliances and equipment include protective measures that relate to the coupling devices of the male and female receptacle housings. (see also DIN VDE 0100 part 410; IEC 60364-4-41).

Care must be taken to insure the parts are correctly mated and screws are tightened with the proper torque. Protection against electrical shock on the termination side of the connector (receptacles, contact insert) shall be secured by suitable mounting.

4. Termination Remarks

The dimensions as stated in the assembly instructions are for general information only and can vary depending on cable styles and types.

Please note in the case of an internal strain relief: Always clamp the outer cable mantle (not the individual lead wires) to avoid damage of the lead wire insulation. In case of shielded cables, fold the braid over the outer mantle to avoid damage of the lead wire insulation when clamping the braid.

In case of clamping rings, make sure that the lead wire insulation is not damaged when connecting (clamping) the braid.

Cable connectors are effectively secured when using the internal cable clamp. When the connector contains a simple gland bushing for retention the cable should have a strain relief close behind the connector. All cable properties or specifications must be compatible with the connector design and materials. Designated wire conductors must be terminated to the correct poles in the connector. Please make sure that the usability of the cable in conjunction with the clamping ring is given.

Crimp contacts must be fully inserted into the plastic housing and retention assured with a slight tug on the wire.

Wire should be stripped correctly according to printed specifications to ensure no electrical contact can be made between the conductors. There should be no nicked or cut strains during the stripping action.

5. Classification according to DIN EN 61984 / IEC 61984 (VDE 0627)

Style	enclosed	unenclosed	protective earthing contact	cable clamp	finger safety mated	finger safety unmated	hand back safety mated	Connector with breaking capacity ¹⁾	rewirable	Cable clamp	
										with	without
Male cable connector		X		X	X				X	X	
Female cable connector	X			X	X	X	X		X	X	
Male panel connector					X ¹⁾				X		X
Female panel connector		X			X ¹⁾	X ¹⁾	X ¹⁾		X		X

¹⁾ Protection against electrical shock on the termination side has to be secured by proper mounting.

Degree of protection

Electrical devices to which connectors belong have to be protected for safety reasons from outside influences like dust, foreign objects, direct contact, moisture and water. This protection is provided on industrial connectors by their housings with their latching devices and sealed cable entries.

The degree of protection can be selected depending on the type of intended use. The standard IEC 60529 and/or DIN EN 60529 has specified the degree of protection and divided into several classes.

The degree of protection is indicated in the following way:

Code letters ——— IP 65
(Ingress Protection)
1st charact. numeral (degree of protection against access to hazardous parts and against solid foreign objects)
2nd charact. numeral (degree of protection against ingress of water)
The following charts give an overview about all protection degrees.

1st charact. numeral	Brief description	Definition
0	Non-protected	—
1	Protected against access to hazardous parts with the back of a hand. Protected against solid foreign objects of $\geq 50\text{mm } \varnothing$.	The probe, sphere of 50mm $\varnothing$, shall not fully penetrate and shall have adequate clearance from hazardous parts.
2	Protected against access to hazardous parts with a finger. Protected against solid foreign objects of $\geq 12.5\text{mm } \varnothing$.	The jointed test finger of 12mm $\varnothing$, 80mm length, shall have adequate clearance from hazardous parts. The probe, sphere of 12.5mm $\varnothing$, shall not fully penetrate.
3	Protected against access to hazardous parts with a tool. Protected against solid foreign objects of $\geq 2.5\text{mm } \varnothing$.	The probe of 2.5mm $\varnothing$ shall not penetrate at all.
4	Protected against access to hazardous parts with a wire. Protected against solid foreign objects of $\geq 1\text{mm } \varnothing$.	The probe of 1mm $\varnothing$ shall not penetrate at all.
5	Protected against access to hazardous parts with a wire. Dust-protected.	The probe of 1mm $\varnothing$ shall not penetrate. Intrusion of dust is not totally prevented, but dust shall not penetrate in a quantity to interfere with satisfactory operation of the device or to impair safety.
6	Protected against access to hazardous parts with a wire. Dust-tight.	The probe of 1mm $\varnothing$ shall not penetrate. No intrusion of dust.

2nd charact. numeral	Brief description	Definition
0	Non-protected	—
1	Protected against vertically falling water drops	Vertically falling drops shall have no harmful effects.
2	Protected against vertically falling water drops when enclosure tilted up to 15°	Vertically falling drops shall have no harmful effects when the enclosure is tilted at any angle up to 15° on either side of the vertical.
3	Protected against spraying water	Water sprayed at an angle up to 60° on either side of the vertical shall have no harmful effects.
4	Protected against splashing water	Water splashed against the enclosure from any direction shall have no harmful effects.
5	Protected against water jets	Water projected in jets against the enclosure from any direction shall have no harmful effects.
6	Protected against powerful water jets	Water projected in powerful jets against the enclosure from any direction shall have no harmful effects.
7	Protected against the effects of temporary immersion in water	Intrusion of water in quantities causing harmful effects shall not be possible when the enclosure is temporally immersed in water for 30 min. in 1m depth.
8	Protected against the effects of continuous immersion in water	Intrusion of water in quantities causing harmful effects shall not be possible when the enclosure is continuously immersed in water under conditions which shall be agreed between manufacturer and user but which are more severe than for numeral 7.
9 K ¹⁾	Protected against water during high pressure/steam jet cleaning	Water projected in powerful jets with high pressure against the enclosure from any direction shall have no harmful effects.

1) Remark: Numeral acc. to DIN 40050 part 9, vehicles IP code

Summary of Part Numbers

Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
C091 11C003 000 2	42	C091 11K007 000 2	37	C091 31D014 200 2	36	C091 31K003 101 2	37	C091 31W007 200 2	41	C 091 00V000 131 2	44
C091 11C004 000 2	42	C091 11K007 001 2	37	C091 31D014 201 2	36	C091 31K004 100 2	37	C091 31W008 100 2	41	FH 0300-091	44
C091 11C005 000 2	42	C091 11K008 000 2	37	C091 31D105 100 2	36	C091 31K004 101 2	37	C091 31W008 200 2	41	HN01 015 0046 (1)	43
C091 11C006 000 2	42	C091 11K008 001 2	37	C091 31D105 101 2	36	C091 31K005 100 2	37	C091 31W012 100 2	41	HN01 015 0046 (2)	43
C091 11C007 000 2	42	C091 11K105 000 2	37	C091 31D107 100 2	36	C091 31K005 101 2	37	C091 31W012 200 2	41	HN01 015 0047 (1)	43
C091 11C008 000 2	42	C091 11K105 001 2	37	C091 31D107 101 2	36	C091 31K006 100 2	37	C091 31W014 100 2	41	HN01 015 0047 (2)	43
C091 11C105 000 2	42	C091 11K107 000 2	37	C091 31F003 100 2	38	C091 31K006 101 2	37	C091 31W014 200 2	41	HN01 015 0052 (1)	42
C091 11C107 000 2	42	C091 11K107 001 2	37	C091 31F003 101 2	38	C091 31K007 100 2	37	C091 31W105 100 2	41	HN01 015 0052 (2)	43
C091 11D003 000 2	36	C091 11N003 000 2	39	C091 31F004 100 2	38	C091 31K007 101 2	37	C091 31W105 200 2	41	HN02 015 0046 (1)	43
C091 11D003 001 2	36	C091 11N004 000 2	39	C091 31F004 101 2	38	C091 31K008 100 2	37	C091 31W107 100 2	41	HN02 015 0046 (2)	43
C091 11D004 000 2	36	C091 11N005 000 2	39	C091 31F005 100 2	38	C091 31K008 101 2	37	C091 31W107 200 2	41	HN02 015 0047 (1)	43
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