

C 091 D

Main Features

- Precision metal construction.
- Ingress Protection class IP 67.
- Threaded coupling acc. to IEC 130-9.
- Number of contacts are 3 to 8, 12 and 14.
- Internal metal strain relief.
- Complete EMI shielding in the fully mated and locked position (EMI security).
- Male and female cable connectors: solder in 3 to 8, 12, 14 positions; crimp in 3 to 8 positions; cable outlet in PG 7 for diameter of 6 mm; cable outlet in PG 9 for diameter of 8 mm ; straight cable entry; metal coupling nickel plated
- Male and female receptacles for panel mount: front or rear mounting, solder in 3 to 8, 12, 14 positions; crimp in 3 to 8 positions; PCB mounting, vertical, using dip solder termination with multiple tail lengths.
- The connectors are registered under File # E 63 093 UL.



UNDERWRITERS LABORATORIES INC.

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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	41 322	—	45 329	45 326	—	—
Contact arrangement acc. to IEC		130-9	—	—	130-9	130-9	—	130-9	130-9	—	—
Electrical Characteristics											
Rated voltage	IEC 60664-1	300 V ≈			100V ≈	300 V ≈		150 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	3									
Test voltage	IEC 60664-1	980 V ~			670 V ~	980 V ~		670 V ~			
Current rating	IEC 60512-3 Test 5 b	5 A / + 40 °C / + 104 °F									3 A / + 40 °C / + 104 °F
Insulation resistance	IEC 60512-2 Test 3 a	> 10 ¹² Ω									
Contact resistance	IEC 60512-2 Test 2 a	< 5 m Ω									
Climatical 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, cable diameter PG 7: .137 - .236, PG 9: .236 - .314									
Insertion and withdrawal forces	IEC 60512-7 Test 13 b	25 N 90.oz	30 N 110.oz	35 N 125.oz		50 N 180.oz	55 N 200.oz		60 N 220.oz	50 N 180.oz	
Mechanical operation	IEC 60512-5 Test 9 a	Silver ≥ 500 mating cycles Gold ≥ 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 ≤ 0,5 mm ² (20-26 AWG), crimp 0,14 – 1,0 mm ² (26-18 AWG)									≤ 0,25 mm/24 AWG
Flammability		UL 94 V0									
Locking system	IEC 130-9	metal screw coupling									

Characteristics

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

* Remark for gold plated contacts

To avoid brittle intermetallic connections gold-plated soldering terminals must be pre-tinned before soldering.

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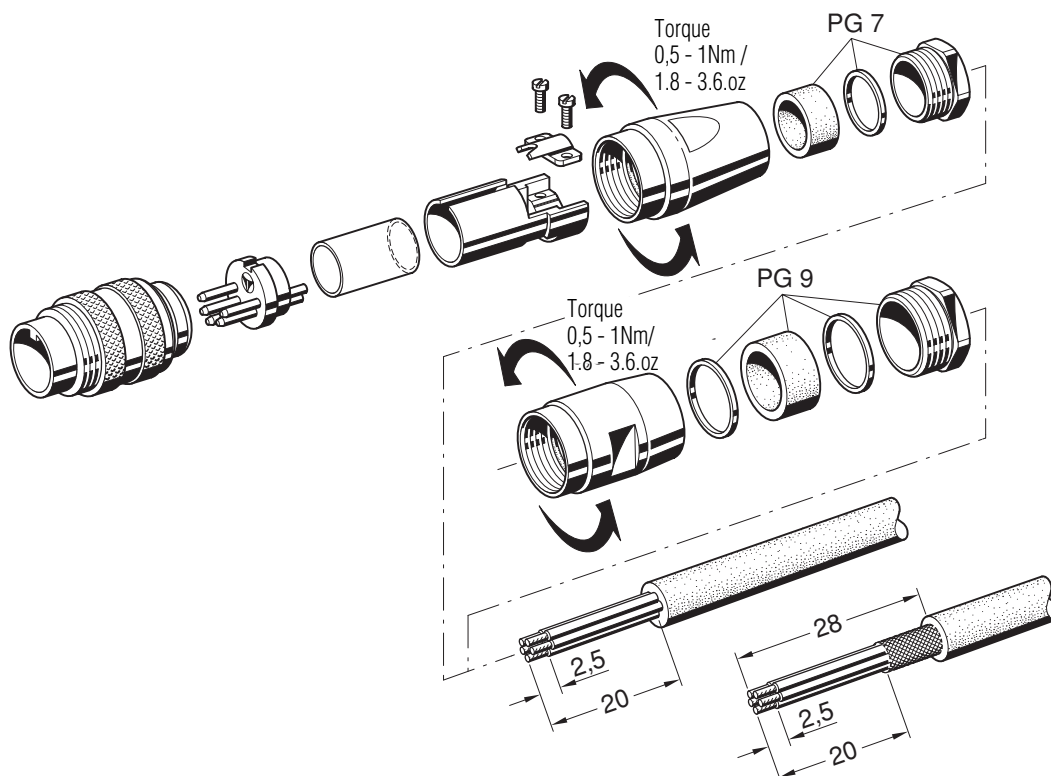
Male cable connector



Description	Drawing	No. of cont.	Part Number solder termination		Part Number Crimp termination ¹⁾
			Contact plating silver	Contact plating gold ²⁾	
Male cable connector. Max. cable outlet 6 mm, termination: solder or crimp, contact plating: silver or gold.	PG 7	3 DIN	C091 31H003 100 2	—	C091 11H003 000 2
		4 IEC	C091 31H004 100 2	—	C091 11H004 000 2
		5 DIN	C091 31H005 100 2	—	C091 11H005 000 2
		5S DIN	C091 31H105 100 2	—	C091 11H105 000 2
		6 DIN	C091 31H006 100 2	—	C091 11H006 000 2
		7	C091 31H007 100 2	—	C091 11H007 000 2
		7 DIN	C091 31H107 100 2	—	C091 11H107 000 2
		8 DIN	C091 31H008 100 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. Max. cable outlet 8 mm, termination: solder or crimp, contact plating: silver or gold.	PG 9	3 DIN	C091 31H003 101 2	—	C091 11H003 001 2
		4 IEC	C091 31H004 101 2	—	C091 11H004 001 2
		5 DIN	C091 31H005 101 2	—	C091 11H005 001 2
		5S DIN	C091 31H105 101 2	—	C091 11H105 001 2
		6 DIN	C091 31H006 101 2	—	C091 11H006 001 2
		7	C091 31H007 101 2	—	C091 11H007 001 2
		7 DIN	C091 31H107 101 2	—	C091 11H107 001 2
		8 DIN	C091 31H008 101 2	—	C091 11H008 001 2
		12	—	C091 31H012 201 2	—
		14	—	C091 31H014 201 2	—

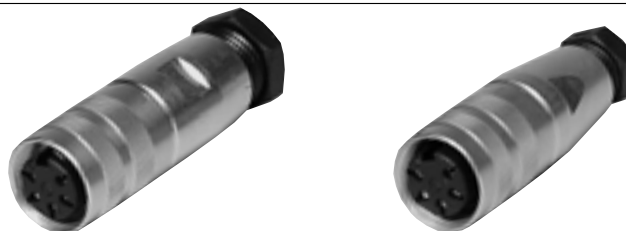
¹⁾ Please order crimp contacts separately, see page 46 ²⁾ see remark page 39

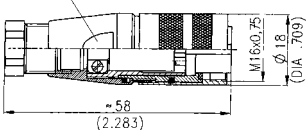
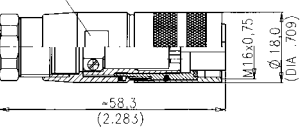
Assembling instruction



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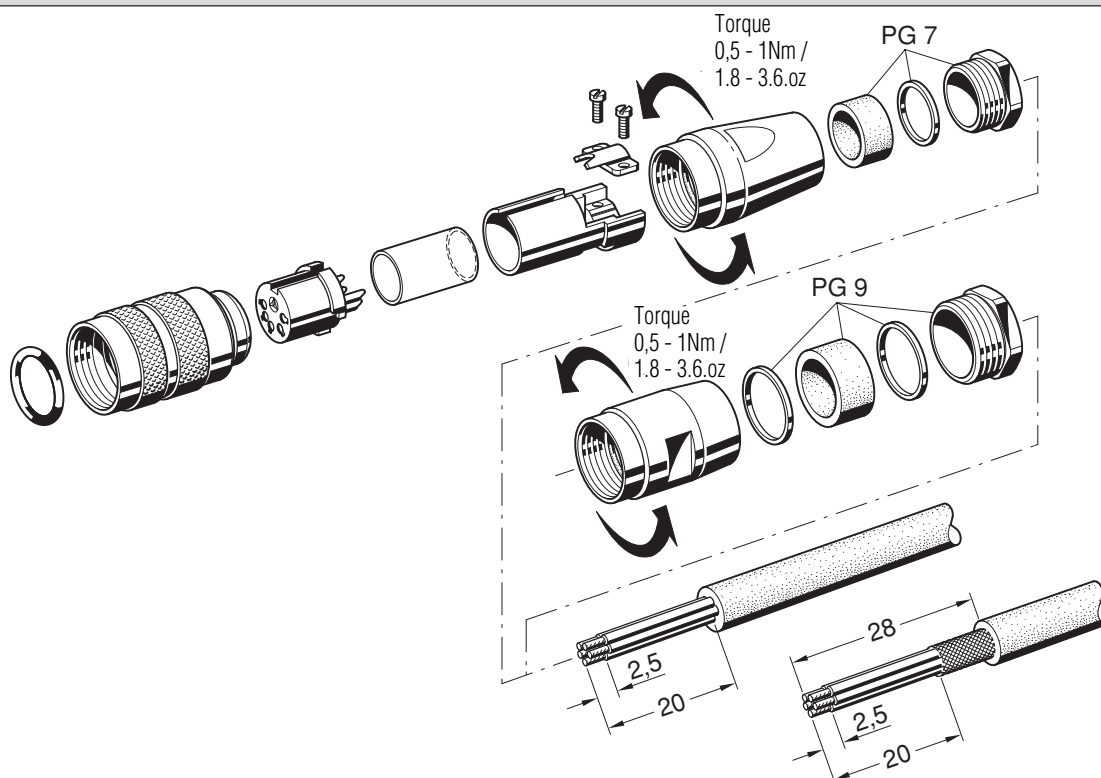
Female cable connector



Description	Drawing	No. of cont.	Part Number solder termination		Part Number Crimp termination ¹⁾
			Contact plating silver	Contact plating gold ²⁾	
Female cable connector. Max. cable outlet 6 mm, termination: solder or crimp, contact plating: silver or gold.	 PG 7	3 DIN	C091 31D003 100 2	—	C091 11D003 000 2
		4 IEC	C091 31D004 100 2	—	C091 11D004 000 2
		5 DIN	C091 31D005 100 2	—	C091 11D005 000 2
		5S DIN	C091 31D105 100 2	—	C091 11D105 000 2
		6 DIN	C091 31D006 100 2	—	C091 11D006 000 2
		7	C091 31D007 100 2	—	C091 11D007 000 2
		7 DIN	C091 31D107 100 2	—	C091 11D107 000 2
		8 DIN	C091 31D008 100 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. Max. cable outlet 8 mm, termination: solder or crimp, contact plating: silver or gold.	 PG 9	3 DIN	C091 31D003 101 2	—	C091 11D003 001 2
		4 IEC	C091 31D004 101 2	—	C091 11D004 001 2
		5 DIN	C091 31D005 101 2	—	C091 11D005 001 2
		5S DIN	C091 31D105 101 2	—	C091 11D105 001 2
		6 DIN	C091 31D006 101 2	—	C091 11D006 001 2
		7	C091 31D007 101 2	—	C091 11D007 001 2
		7 DIN	C091 31D107 101 2	—	C091 11D107 001 2
		8 DIN	C091 31D008 101 2	—	C091 11D008 001 2
		12	—	C091 31D012 201 2	—
		14	—	C091 31D014 201 2	—

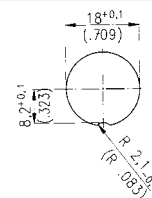
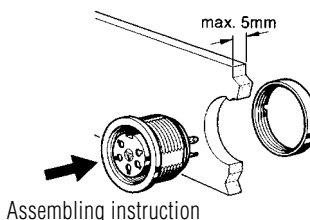
¹⁾ Please order crimp contacts separately, see page 46 ²⁾ see remark page 39

Assembling instruction



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Female receptacle for front mounting



Panel Cutout

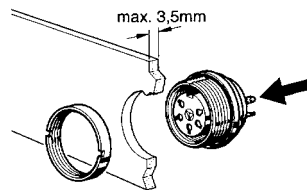
Description	Drawing	No. of cont.	Part Number solder termination		Part Number Crimp termination ¹⁾
			Contact plating silver	Contact plating gold ²⁾	
Female receptacle, termination: solder or crimp, contact plating: silver or gold, panel mounting with ring nut, sealing with O-Ring, solder area: tin plated.		3 DIN	C091 31N003 100 2	—	C091 11N003 000 2
		4 IEC	C091 31N004 100 2	—	C091 11N004 000 2
		5 DIN	C091 31N005 100 2	—	C091 11N005 000 2
		5S DIN	C091 31N105 100 2	—	C091 11N105 000 2
		6 DIN	C091 31N006 100 2	—	C091 11N006 000 2
		7	C091 31N007 100 2	—	C091 11N007 000 2
		7 DIN	C091 31N107 100 2 ⁴⁾	—	C091 11N107 000 2
		8 DIN	C091 31N008 100 2	—	C091 11N008 000 2
		12	—	C091 31N012 200 2 ⁴⁾	—
		14	—	C091 31N014 200 2 ⁴⁾	—
Female receptacle, termination: straight dip solder, contact plating: silver or gold, pin length 15 mm (12 + 14 contacts: 18 mm) from flange, panel mounting with ring nut, sealing with O-Ring, solder area: tin plated.		3 DIN	C091 61N003 110 2	—	—
		4 IEC	C091 61N004 110 2	—	—
		5 DIN	C091 61N005 110 2	—	—
		5S DIN	C091 61N105 110 2	—	—
		6 DIN	C091 61N006 110 2	—	—
		7	C091 61N007 110 2	—	—
		7 DIN	C091 61N107 110 2	—	—
		8 DIN	C091 61N008 110 2	—	—
		12	—	C091 61N012 210 2	—
		14	—	C091 61N014 210 2	—
Female receptacle, termination: straight dip solder, contact plating: silver, panel mounting with ring nut, sealing with O-Ring, solder area: tin plated.		3 DIN	C091 61N003 120 2	—	—
		4 IEC	C091 61N004 120 2	—	—
		5 DIN	C091 61N005 120 2	—	—
		5S DIN	C091 61N105 120 2	—	—
		6 DIN	C091 61N006 120 2	—	—
		7	C091 61N007 120 2	—	—
		7 DIN	C091 61N107 120 2	—	—
		8 DIN	C091 61N008 120 2	—	—
		12	—	—	—
		14	—	—	—
Female receptacle, termination: straight dip solder, contact plating: silver, panel mounting with ring nut, sealing with O-Ring, solder area: tin plated.		3 DIN	C091 61N003 130 2	—	—
		4 IEC	C091 61N004 130 2	—	—
		5 DIN	C091 61N005 130 2	—	—
		5S DIN	C091 61N105 130 2	—	—
		6 DIN	C091 61N006 130 2	—	—
		7	C091 61N007 130 2	—	—
		7 DIN	C091 61N107 130 2	—	—
		8 DIN	C091 61N008 130 2	—	—
		12	—	—	—
		14	—	—	—

¹⁾ Please order crimp contacts separately, see page 46 ²⁾ see remark page 39

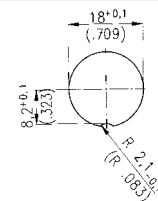
⁴⁾ Available upon request. Min. order qty. 100 pcs/type.

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Female receptacle for rear mounting



Assembling instruction



Panel Cutout

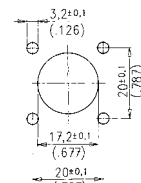
Description	Drawing	No. of cont.	Part Number solder termination		Part Number Crimp termination ¹⁾
			Contact plating silver	Contact plating gold ²⁾	
Female receptacle, termination: solder or crimp, contact plating: silver or gold, panel mounting with ring nut, sealing with O-Ring, solder area: tin plated.		3 DIN	C091 31G003 100 2	—	C091 11G003 000 2 ⁴⁾
		4 IEC	C091 31G004 100 2	—	C091 11G004 000 2
		5 DIN	C091 31G005 100 2	—	C091 11G005 000 2 ⁴⁾
		5S DIN	C091 31G105 100 2	—	C091 11G105 000 2
		6 DIN	C091 31G006 100 2	—	C091 11G006 000 2 ⁴⁾
		7	C091 31G007 100 2	—	C091 11G007 000 2 ⁴⁾
		7 DIN	C091 31G107 100 2	—	C091 11G107 000 2
		8 DIN	C091 31G008 100 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 (12 + 14 contacts: 13.5 mm) from flange, panel mounting with ring nut, sealing with O-Ring, solder area: tin plated.		3 DIN	C091 61G003 110 2	—	—
		4 IEC	C091 61G004 110 2	—	—
		5 DIN	C091 61G005 110 2	—	—
		5S DIN	C091 61G105 110 2	—	—
		6 DIN	C091 61G006 110 2	—	—
		7	C091 61G007 110 2	—	—
		7 DIN	C091 61G107 110 2	—	—
		8 DIN	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, panel mounting with ring nut, sealing with O-Ring, solder area: tin plated.		3 DIN	C091 61G003 120 2	—	—
		4 IEC	C091 61G004 120 2	—	—
		5 DIN	C091 61G005 120 2	—	—
		5S DIN	C091 61G105 120 2	—	—
		6 DIN	C091 61G006 120 2	—	—
		7	C091 61G007 120 2	—	—
		7 DIN	C091 61G107 120 2	—	—
		8 DIN	C091 61G008 120 2	—	—
		12	—	—	—
		14	—	—	—
Female receptacle, termination: straight dip solder, contact plating: silver, panel mounting with ring nut, sealing with O-Ring, solder area: tin plated.		3 DIN	C091 61G003 130 2	—	—
		4 IEC	C091 61G004 130 2	—	—
		5 DIN	C091 61G005 130 2	—	—
		5S DIN	C091 61G105 130 2	—	—
		6 DIN	C091 61G006 130 2	—	—
		7	C091 61G007 130 2	—	—
		7 DIN	C091 61G107 130 2	—	—
		8 DIN	C091 61G008 130 2	—	—
		12	—	—	—
		14	—	—	—

¹⁾ Please order crimp contacts separately, see page 46 ²⁾ see remark page 39

⁴⁾ Available upon request. Min. order qty.100 pcs/type.

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Female receptacle for flange mounting

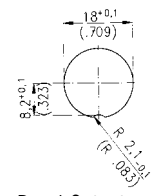
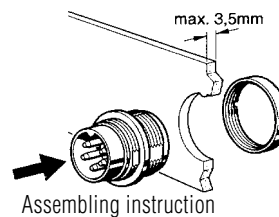


Panel Cutout

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

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Male receptacle for front mounting



Panel Cutout

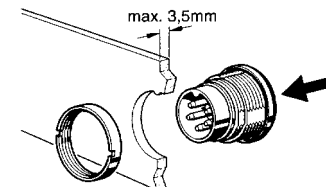
Description	Drawing	No. of cont.	Part Number solder termination		Part Number Crimp termination ¹⁾
			Contact plating silver	Contact plating gold ²⁾	
Male receptacle, termination: solder or crimp, contact plating: silver or gold, panel mounting with ring nut, sealing with O-Ring.		3 DIN	C091 31W003 100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

¹⁾ Please order crimp contacts separately, see page 46 ²⁾ see remark page 39

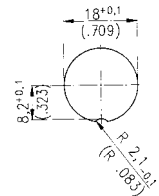
⁴⁾ Available upon request. Min. order qty.100 pcs/type.

C 091 D

Male receptacle for rear mounting



Assembling instruction

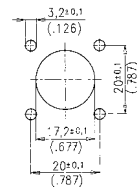


Panel Cutout

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 DIN	C091 31C003 100 2	—	C091 11C003 000 2 ⁴⁾
		4 IEC	C091 31C004 100 2	—	C091 11C004 000 2 ⁴⁾
		5 DIN	C091 31C005 100 2	—	C091 11C005 000 2 ⁴⁾
		5S DIN	C091 31C105 100 2	—	C091 11C105 000 2 ⁴⁾
		6 DIN	C091 31C006 100 2	—	C091 11C006 000 2 ⁴⁾
		7	C091 31C007 100 2	—	C091 11C007 000 2
		7 DIN	C091 31C107 100 2	—	C091 11C107 000 2 ⁴⁾
		8 DIN	C091 31C008 100 2	—	C091 11C008 000 2
		12	—	C091 31C012 200 2	—
		14	—	C091 31C014 200 2	—

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Male receptacle for flange mounting



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, square flange, termination: solder, contact plating: silver or gold, with sealing gasket.		3 DIN	C091 31S003 100 2	—	—
		4 IEC	C091 31S004 100 2	—	—
		5 DIN	C091 31S005 100 2	—	—
		5S DIN	C091 31S105 100 2	—	—
		6 DIN	C091 31S006 100 2	—	—
		7	C091 31S007 100 2	—	—
		7 DIN	C091 31S107 100 2	—	—
		8 DIN	C091 31S008 100 2	—	—
		12	—	C091 31S012 200 2	—
		14	—	C091 31S014 200 2	—

¹⁾ Please order crimp contacts separately, see page 46 ²⁾ see remark page 39

⁴⁾ Available upon request. Min. order qty.100 pcs/type.

C 091

Crimp contacts



Pin contact



Socket contact

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 0005 (1)	VN01 015 0005 (2)
				contacts on reel	200	ZN01 015 0005 (1)	ZN01 015 0005 (2)
					2000	HN01 015 0005 (1)	HN01 015 0005 (2)
		0.5-1.0 mm ² AWG 20-18	2.0 ^{+0.2} mm	single contact	100	VN01 015 0039 (1)	VN01 015 0039 (2)
				contacts on reel	200	ZN01 015 0039 (1)	ZN01 015 0039 (2)
					2000	HN01 015 0039 (1)	HN01 015 0039 (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 0005 (1)	VN02 015 0005 (2)
				contacts on reel	200	ZN02 015 0005 (1)	ZN02 015 0005 (2)
					2000	HN02 015 0005 (1)	HN02 015 0005 (2)
		0.5-1.0 mm ² AWG 20-18	2.0 ^{+0.2} mm	single contact	100	VN02 015 0039 (1)	VN02 015 0039 (2)
				contacts on reel	200	ZN02 015 0039 (1)	ZN02 015 0039 (2)
					2000	HN02 015 0039 (1)	HN02 015 0039 (2)

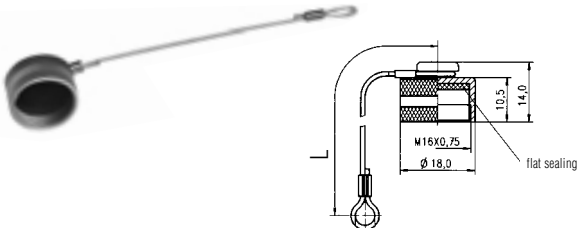
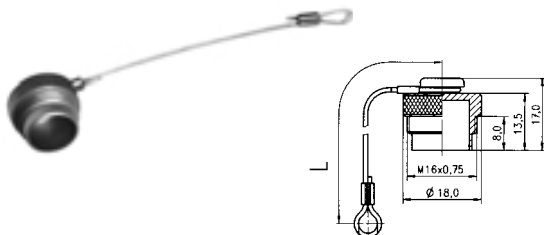
For more information upon crimping tools please contact factory or order our catalogue.

Minimum retention forces according to IEC 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 $\delta_B \approx 230 \text{ N/mm}^2$.

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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 100 2 L = 100 for male receptacles C 091 00U000 110 2 L = 80	
Protective cover for female cable connectors and female receptacles.	C 091 A C 091 D			for female cable connectors C 091 00V000 100 2 L = 100 for female receptacles C 091 00V000 110 2 L = 80	
Safety washer for male and female receptacles. Packaging unit: 25 pieces	C 091 A C 091 B			VN 05 180 000 1 (1)	
Colored back-shells	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

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C 091 00U000 110 2	47	C091 31C008 100 2	45	C091 31S004 100 2	45	C091 61N008 110 2	42	T 3260 028	10	T 3275 951	32
C 091 00V000 100 2	47	C091 31C012 200 2	45	C091 31S005 100 2	45	C091 61N008 120 2	42	T 3260 048	10	T 3275 991	32
C 091 00V000 110 2	47	C091 31C014 200 2	45	C091 31S006 100 2	45	C091 61N008 130 2	42	T 3260 055	11	T 3276 500	35
C091 11C003 000 2	45	C091 31C105 100 2	45	C091 31S007 100 2	45	C091 61N012 210 2	42	T 3260 058	11	T 3276 518	35
C091 11C004 000 2	45	C091 31C107 100 2	45	C091 31S008 100 2	45	C091 61N014 210 2	42	T 3260 551	10	T 3276 550	35
C091 11C005 000 2	45	C091 31D003 100 2	41	C091 31S012 200 2	45	C091 61N105 110 2	42	T 3260 552	10	T 3277 000	33
C091 11C006 000 2	45	C091 31D003 101 2	41	C091 31S014 200 2	45	C091 61N105 120 2	42	T 3260 554	10	T 3277 018	33
C091 11C007 000 2	45	C091 31D004 100 2	41	C091 31S105 100 2	45	C091 61N105 130 2	42	T 3261 001	12	T 3277 050	33
C091 11C008 000 2	45	C091 31D004 101 2	41	C091 31S107 100 2	45	C091 61N107 110 2	42	T 3261 002	12	T 3277 100	33
C091 11C105 000 2	45	C091 31D005 100 2	41	C091 31T003 100 2	44	C091 61N107 120 2	42	T 3261 004	12	T 3277 150	33
C091 11C107 000 2	45	C091 31D005 101 2	41	C091 31T004 100 2	44	C091 61N107 130 2	42	T 3261 005	13	T 3277 200	34
C091 11D003 000 2	41	C091 31D006 100 2	41	C091 31T005 100 2	44	FH 0300-091	47	T 3261 013	12	T 3277 500	33
C091 11D003 001 2	41	C091 31D006 101 2	41	C091 31T006 100 2	44	HN01 015 0005 (1)	46	T 3261 018	12	T 3277 518	33
C091 11D004 000 2	41	C091 31D007 100 2	41	C091 31T007 100 2	44	HN01 015 0005 (2)	46	T 3261 028	12	T 3277 550	33
C091 11D004 001 2	41	C091 31D007 101 2	41	C091 31T008 100 2	44	HN01 015 0039 (1)	46	T 3261 048	12	T 3277 600	34
C091 11D005 000 2	41	C091 31D008 100 2	41	C091 31T012 200 2	44	HN01 015 0039 (2)	46	T 3261 055	13	T 3277 900	34
C091 11D005 001 2	41	C091 31D008 101 2	41	C091 31T014 200 2	44	HN02 015 0005 (1)	46	T 3261 058	13	T 3278 501	30
C091 11D006 000 2	41	C091 31D012 100 2	41	C091 31T105 100 2	44	HN02 015 0005 (2)	46	T 3261 551	12	T 3278 502	30
C091 11D006 001 2	41	C091 31D012 200 2	41	C091 31T107 100 2	44	HN02 015 0039 (1)	46	T 3261 552	12	T 3278 504	30
C091 11D007 000 2	41	C091 31D012 201 2	41	C091 31W003 100 2	44	HN02 015 0039 (2)	46	T 3261 554	12	T 3278 518	30
C091 11D007 001 2	41	C091 31D014 100 2	41	C091 31W004 100 2	44	N 45 091-000 1	47	T 3262 000	18	T 3278 528	30
C091 11D008 000 2	41	C091 31D014 200 2	41	C091 31W005 100 2	44	T 2993 510 9C	47	T 3262 009	18	T 3278 548	30
C091 11D008 001 2	41	C091 31D014 201 2	41	C091 31W006 100 2	44	T 2993 510 9X	47	T 3262 018	18	T 3278 551	30
C091 11D105 000 2	41	C091 31D105 100 2	41	C091 31W007 100 2	44	T 2993 511 9C	47	T 3262 100	19	T 3278 552	30
C091 11D105 001 2	41	C091 31D105 101 2	41	C091 31W008 100 2	44	T 2993 511 9X	47	T 3262 150	19	T 3278 554	30
C091 11D107 000 2	41	C091 31D107 100 2	41	C091 31W012 200 2	44	T 2993 512 9C	47	T 3262 300	18	T 3278 951	32
C091 11D107 001 2	41	C091 31D107 101 2	41	C091 31W014 200 2	44	T 2993 512 9X	47	T 3262 400	19	T 3278 991	32
C091 11G003 000 2	43	C091 31G003 100 2	43	C091 31W105 100 2	44	T 2993 513 9C	47	T 3262 550	18	T 3279 501	26
C091 11G004 000 2	43	C091 31G004 100 2	43	C091 31W107 100 2	44	T 2993 513 9X	47	T 3263 000	14	T 3279 502	26
C091 11G005 000 2	43	C091 31G005 100 2	43	C091 61G003 110 2	43	T 3200 001	10	T 3263 009	14	T 3279 504	26
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C091 11G107 000 2	43	C091 31G012 200 2	43	C091 61G004 130 2	43	T 3200 018	10	T 3263 150	15	T 3279 552	26
C091 11H003 000 2	40	C091 31G014 100 2	43	C091 61G005 110 2	43	T 3200 028	10	T 3263 300	14	T 3279 554	26
C091 11H003 001 2	40	C091 31G014 200 2	43	C091 61G005 120 2	43	T 3200 048	10	T 3263 320	14	T 3300 001	10
C091 11H004 000 2	40	C091 31G105 100 2	43	C091 61G005 130 2	43	T 3200 058	11	T 3263 330	14	T 3300 002	10
C091 11H004 001 2	40	C091 31G107 100 2	43	C091 61G006 110 2	43	T 3200 552	10	T 3263 400	15	T 3300 004	10
C091 11H005 000 2	40	C091 31H003 100 2	40	C091 61G006 120 2	43	T 3201 001	12	T 3263 420	15	T 3300 005	11
C091 11H005 001 2	40	C091 31H003 101 2	40	C091 61G006 130 2	43	T 3201 002	12	T 3263 430	15	T 3300 013	10
C091 11H006 000 2	40	C091 31H004 100 2	40	C091 61G007 110 2	43	T 3201 004	12	T 3263 550	14	T 3300 018	10
C091 11H006 001 2	40	C091 31H004 101 2	40	C091 61G007 120 2	43	T 3201 005	13	T 3263 900	17	T 3300 028	10
C091 11H007 000 2	40	C091 31H005 100 2	40	C091 61G007 130 2	43	T 3201 013	12	T 3271 500	33	T 3300 048	10
C091 11H007 001 2	40	C091 31H005 101 2	40	C091 61G008 110 2	43	T 3201 018	12	T 3271 518	33	T 3300 055	11
C091 11H008 000 2	40	C091 31H006 100 2	40	C091 61G008 120 2	43	T 3201 028	12	T 3271 550	33	T 3300 058	11
C091 11H008 001 2	40	C091 31H006 101 2	40	C091 61G008 130 2	43	T 3201 048	12	T 3274 005	24	T 3300 551	10
C091 11H105 000 2	40	C091 31H007 100 2	40	C091 61G012 110 2	43	T 3201 058	13	T 3274 055	24	T 3300 552	10
C091 11H105 001 2	40	C091 31H007 101 2	40	C091 61G012 210 2	43	T 3202 000	18	T 3274 058	24	T 3300 554	10
C091 11H107 000 2	40	C091 31H008 100 2	40	C091 61G014 110 2	43	T 3202 009	18	T 3274 501	24	T 3301 001	12
C091 11H107 001 2	40	C091 31H008 101 2	40	C091 61G014 210 2	43	T 3202 018	18	T 3274 502	24	T 3301 002	12
C091 11N003 000 2	42	C091 31H012 100 2	40	C091 61G105 110 2	43	T 3202 100	19	T 3274 504	24	T 3301 004	12
C091 11N004 000 2	42	C091 31H012 200 2	40	C091 61G105 120 2	43	T 3202 300	18	T 3274 518	24	T 3301 005	13
C091 11N005 000 2	42	C091 31H012 201 2	40	C091 61G105 130 2	43	T 3202 400	19	T 3274 528	24	T 3301 013	12
C091 11N006 000 2	42	C091 31H014 100 2	40	C091 61G107 110 2	43	T 3203 000	14	T 3274 548	24	T 3301 018	12
C091 11N007 000 2	42	C091 31H014 200 2	40	C091 61G107 120 2	43	T 3203 009	14	T 3274 551	24	T 3301 028	12
C091 11N008 000 2	42	C091 31H014 201 2	40	C091 61G107 130 2	43	T 3203 018	14	T 3274 552	24	T 3301 048	12
C091 11N105 000 2	42	C091 31H105 100 2	40	C091 61N003 110 2	42	T 3203 100	15	T 3274 554	24	T 3301 055	13
C091 11N107 000 2	42	C091 31H105 101 2	40	C091 61N003 120 2	42	T 3203 109	15	T 3274 951	32	T 3301 058	13
C091 11W003 000 2	44	C091 31H107 100 2	40	C091 61N003 130 2	42	T 3203 118	15	T 3274 991	32	T 3301 551	12
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C091 11W005 000 2	44	C091 31N003 100 2	42	C091 61N004 120 2	42	T 3203 320	14	T 3275 055	28	T 3301 554	12
C091 11W006 000 2	44	C091 31N004 100 2	42	C091 61N004 130 2	42	T 3203 330	14	T 3275 058	28	T 3302 000	18
C091 11W007 000 2	44	C091 31N005 100 2	42	C091 61N005 110 2	42	T 3203 400	15	T 3275 501	28	T 3302 009	18
C091 11W008 000 2	44	C091 31N006 100 2	42	C091 61N005 120 2	42	T 3203 420	15	T 3275 502	28	T 3302 018	18
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C091 31C004 100 2	45	C091 31N014 200 2	42	C091 61N006 130 2	42	T 3260 004	10	T 3275 548	28	T 3302 400	19
C091 31C005 100 2	45	C091 31N105 100 2	42	C091 61N007 110 2	42	T 3260 005	11	T 3275 551	28	T 3302 550	18
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T 3303 100	15	T 3329 554	26	T 3361 552	12	T 3377 600	34	T 3399 528	26	T 3424 991	32
T 3303 109	15	T 3356 004	10	T 3361 554	12	T 3378 501	30	T 3399 548	26	T 3425 005	28
T 3303 118	15	T 3356 005	11	T 3362 000	18	T 3378 502	30	T 3399 551	26	T 3425 055	28
T 3303 150	15	T 3356 018	10	T 3362 009	18	T 3378 504	30	T 3399 552	26	T 3425 058	28
T 3303 300	14	T 3356 028	10	T 3362 010	18	T 3378 518	30	T 3399 554	26	T 3425 501	28
T 3303 320	14	T 3356 048	10	T 3362 018	18	T 3378 528	30	T 3400 001	10	T 3425 502	28
T 3303 330	14	T 3356 055	11	T 3362 100	19	T 3378 548	30	T 3400 002	10	T 3425 504	28
T 3303 400	15	T 3356 058	11	T 3362 150	19	T 3378 551	30	T 3400 004	10	T 3425 518	28
T 3303 420	15	T 3356 551	10	T 3362 300	18	T 3378 552	30	T 3400 005	11	T 3425 528	28
T 3303 430	15	T 3356 552	10	T 3362 400	19	T 3378 554	30	T 3400 013	10	T 3425 548	28
T 3303 550	14	T 3356 554	10	T 3362 550	18	T 3378 951	32	T 3400 018	10	T 3425 551	28
T 3321 500	33	T 3357 004	12	T 3363 218	16	T 3378 991	32	T 3400 028	10	T 3425 552	28
T 3321 518	33	T 3357 005	13	T 3363 228	16	T 3379 501	26	T 3400 048	10	T 3425 554	28
T 3321 550	33	T 3357 018	12	T 3363 000	14	T 3379 502	26	T 3400 055	11	T 3425 951	32
T 3324 005	24	T 3357 028	12	T 3363 009	14	T 3379 504	26	T 3400 058	11	T 3425 991	32
T 3324 055	24	T 3357 048	12	T 3363 010	14	T 3379 518	26	T 3400 551	10	T 3426 500	35
T 3324 058	24	T 3357 055	13	T 3363 018	14	T 3379 528	26	T 3400 552	10	T 3426 518	35
T 3324 501	24	T 3357 058	13	T 3363 100	15	T 3379 548	26	T 3400 554	10	T 3426 550	35
T 3324 502	24	T 3357 551	12	T 3363 109	15	T 3379 551	26	T 3401 001	12	T 3427 000	33
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T 3324 951	32	T 3358 400	19	T 3363 430	15	T 3394 058	24	T 3401 055	13	T 3427 550	33
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T 3325 055	28	T 3359 018	14	T 3371 500	33	T 3394 504	24	T 3401 552	12	T 3428 502	30
T 3325 058	28	T 3359 100	15	T 3371 518	33	T 3394 518	24	T 3401 554	12	T 3428 504	30
T 3325 501	28	T 3359 109	15	T 3371 550	33	T 3394 528	24	T 3402 000	18	T 3428 518	30
T 3325 502	28	T 3359 118	15	T 3374 005	24	T 3394 548	24	T 3402 009	18	T 3428 528	30
T 3325 504	28	T 3359 150	15	T 3374 055	24	T 3394 551	24	T 3402 018	18	T 3428 548	30
T 3325 518	28	T 3359 300	14	T 3374 058	24	T 3394 552	24	T 3402 100	19	T 3428 551	30
T 3325 528	28	T 3359 320	14	T 3374 501	24	T 3394 554	24	T 3402 150	19	T 3428 552	30
T 3325 548	28	T 3359 330	14	T 3374 502	24	T 3395 005	28	T 3402 300	18	T 3428 554	30
T 3325 551	28	T 3359 400	15	T 3374 504	24	T 3395 055	28	T 3402 400	19	T 3428 951	32
T 3325 552	28	T 3359 420	15	T 3374 518	24	T 3395 058	28	T 3402 550	18	T 3428 991	32
T 3325 554	28	T 3359 430	15	T 3374 528	24	T 3395 501	28	T 3403 218	16	T 3429 501	26
T 3325 951	32	T 3359 550	14	T 3374 548	24	T 3395 502	28	T 3403 228	16	T 3429 502	26
T 3325 991	32	T 3359 900	17	T 3374 551	24	T 3395 504	28	T 3403 000	14	T 3429 504	26
T 3326 500	35	T 3360 001	10	T 3374 552	24	T 3395 518	28	T 3403 009	14	T 3429 518	26
T 3326 518	35	T 3360 002	10	T 3374 554	24	T 3395 528	28	T 3403 018	14	T 3429 528	26
T 3326 550	35	T 3360 004	10	T 3374 951	32	T 3395 548	28	T 3403 100	15	T 3429 548	26
T 3327 000	33	T 3360 005	11	T 3374 991	32	T 3395 551	28	T 3403 109	15	T 3429 551	26
T 3327 018	33	T 3360 010	10	T 3375 005	28	T 3395 552	28	T 3403 118	15	T 3429 552	26
T 3327 050	33	T 3360 013	10	T 3375 055	28	T 3395 554	28	T 3403 150	15	T 3429 554	26
T 3327 100	33	T 3360 018	10	T 3375 058	28	T 3396 500	35	T 3403 300	14	T 3431 500	33
T 3327 150	33	T 3360 020	10	T 3375 501	28	T 3396 518	35	T 3403 320	14	T 3431 518	33
T 3327 500	33	T 3360 028	10	T 3375 502	28	T 3396 550	35	T 3403 330	14	T 3431 550	33
T 3327 518	33	T 3360 048	10	T 3375 504	28	T 3397 100	33	T 3403 400	15	T 3434 005	24
T 3327 550	33	T 3360 055	11	T 3375 518	28	T 3397 150	33	T 3403 420	15	T 3434 055	24
T 3328 501	30	T 3360 058	11	T 3375 528	28	T 3397 200	34	T 3403 430	15	T 3434 058	24
T 3328 502	30	T 3360 130	10	T 3375 548	28	T 3397 500	33	T 3403 550	14	T 3434 501	24
T 3328 504	30	T 3360 551	10	T 3375 551	28	T 3397 518	33	T 3403 902	16	T 3434 502	24
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T 3328 554	30	T 3361 005	13	T 3376 518	35	T 3398 504	30	T 3424 058	24	T 3434 552	24
T 3328 951	32	T 3361 010	12	T 3376 550	35	T 3398 518	30	T 3424 501	24	T 3434 554	24
T 3328 991	32	T 3361 013	12	T 3377 000	33	T 3398 528	30	T 3424 502	24	T 3434 951	32
T 3329 501	26	T 3361 018	12	T 3377 018	33	T 3398 548	30	T 3424 504	24	T 3434 991	32
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T 3329 504	26	T 3361 028	12	T 3377 100	33	T 3398 552	30	T 3424 528	24	T 3435 055	28
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T 3435 548	28	T 3447 900	34	T 3484 018	10	T 3506 018	18	T 3529 552	26	T 3644 548	24
T 3435 551	28	T 3448 501	30	T 3484 028	10	T 3506 100	19	T 3529 554	26	T 3645 005	28
T 3435 552	28	T 3448 502	30	T 3484 048	10	T 3506 150	19	T 3621 500	33	T 3645 058	28
T 3435 554	28	T 3448 504	30	T 3484 055	11	T 3506 300	18	T 3621 518	33	T 3645 501	28
T 3435 951	32	T 3448 518	30	T 3484 058	11	T 3506 400	19	T 3624 005	24	T 3645 502	28
T 3435 991	32	T 3448 528	30	T 3484 551	10	T 3506 550	18	T 3624 058	24	T 3645 504	28
T 3436 500	35	T 3448 548	30	T 3484 552	10	T 3507 000	14	T 3624 501	24	T 3645 518	28
T 3436 518	35	T 3448 551	30	T 3484 554	10	T 3507 009	14	T 3624 502	24	T 3645 528	28
T 3436 550	35	T 3448 552	30	T 3485 001	12	T 3507 018	14	T 3624 504	24	T 3645 548	28
T 3437 000	33	T 3448 554	30	T 3485 002	12	T 3507 100	15	T 3624 518	24	T 3646 500	35
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