

C 091 D

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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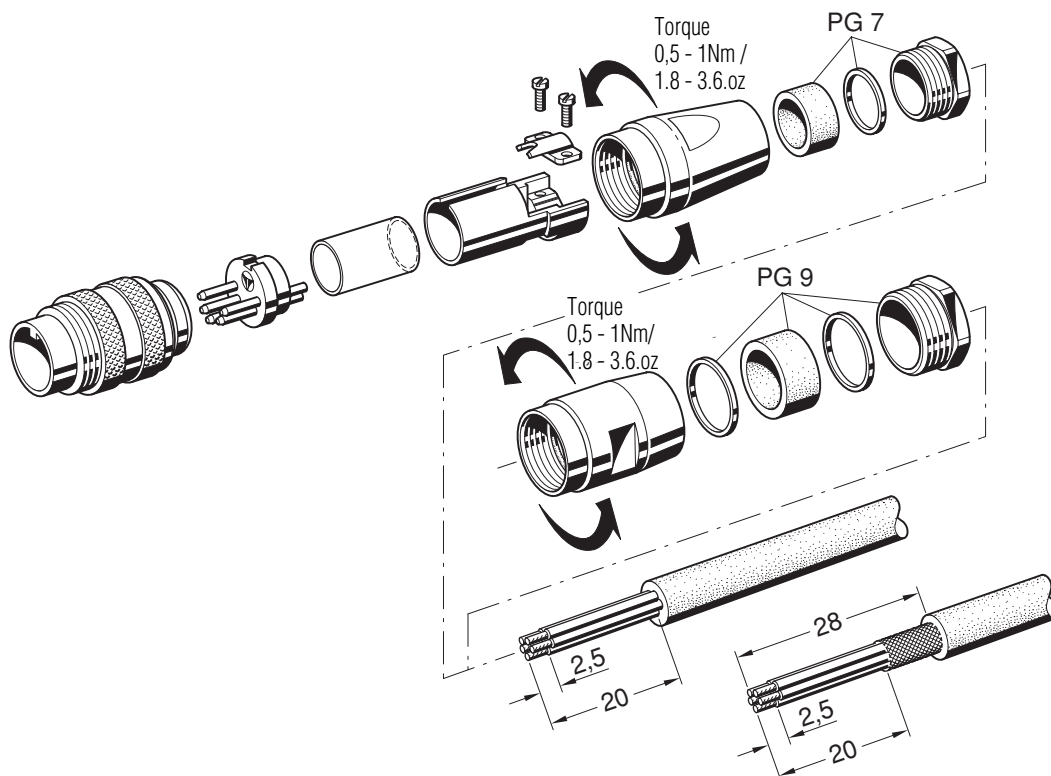
Male cable connector



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	—

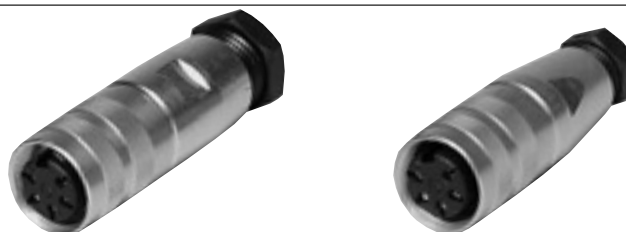
¹⁾ Please order crimp contacts separately, see page 46 ²⁾ see remark page 39

Assembling instruction



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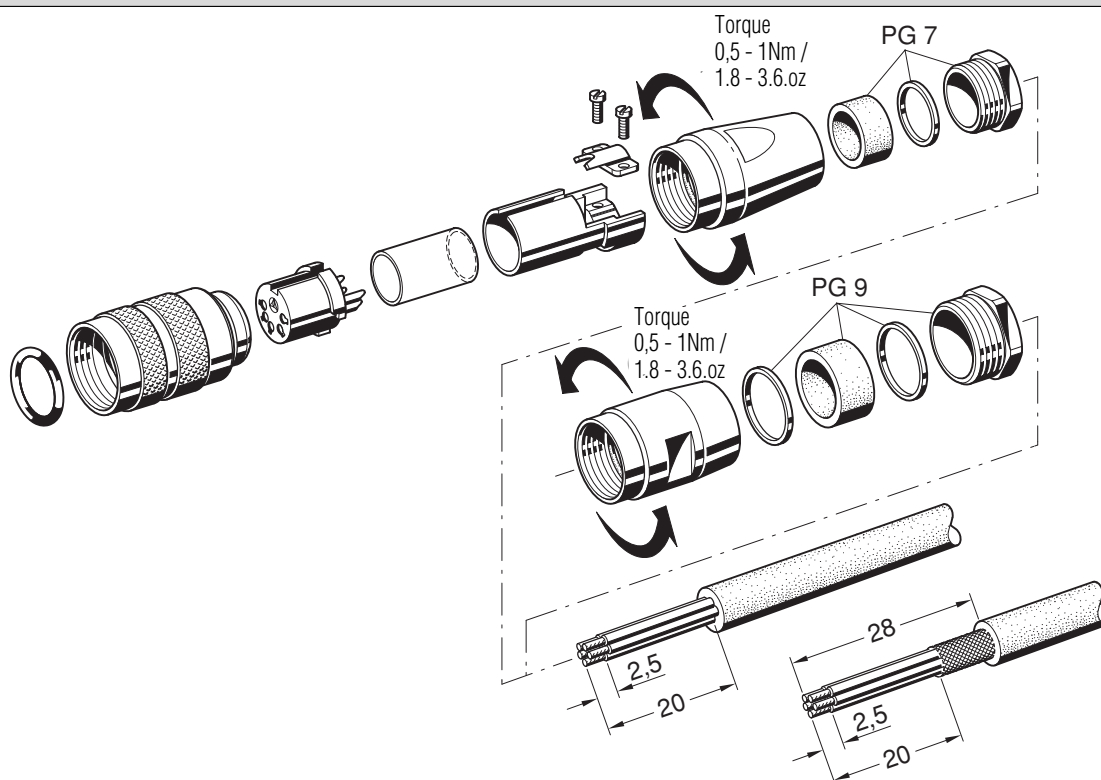
Female cable connector



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	—

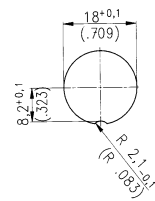
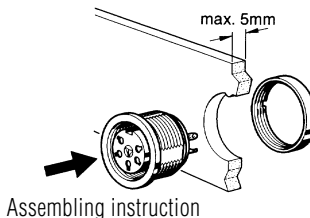
¹⁾ Please order crimp contacts separately, see page 46 ²⁾ see remark page 39

Assembling instruction



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Female receptacle for front mounting



Assembling instruction

Panel Cutout

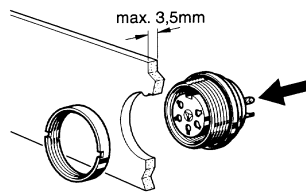
Description	Drawing	No. of cont.	Part Number solder termination		Part Number Crimp termination ¹⁾
			Contact plating silver	Contact plating gold ²⁾	
Female receptacle, termination: solder or crimp, contact plating: silver or gold, panel mounting with ring nut, sealing with O-Ring, solder area: tin plated.		3 DIN	C091 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

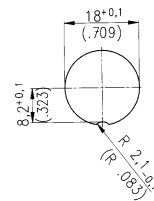
⁴⁾ Available upon request. Min. order qty.100 pcs/type.

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Female receptacle for rear mounting



Assembling instruction



Panel Cutout

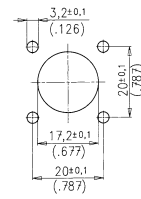
Description	Drawing	No. of cont.	Part Number solder termination		Part Number Crimp termination ¹⁾
			Contact plating silver	Contact plating gold ²⁾	
Female receptacle, termination: solder or crimp, contact plating: silver or gold, panel mounting with ring nut, sealing with O-Ring, solder area: tin plated.		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

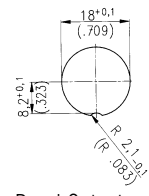
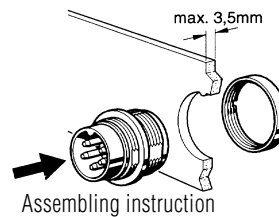


Panel Cutout

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

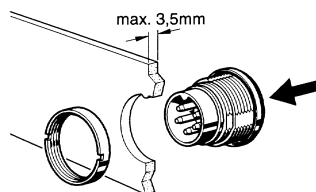
Description	Drawing	No. of cont.	Part Number solder termination		Part Number Crimp termination ¹⁾
			Contact plating silver	Contact plating gold ²⁾	
Male receptacle, termination: solder or crimp, contact plating: silver or gold, panel mounting with ring nut, sealing with O-Ring.		3 DIN	C091 31W003 100 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

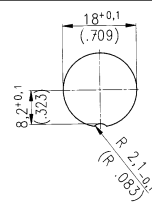
⁴⁾ Available upon request. Min. order qty.100 pcs/type.

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Male receptacle for rear mounting



Assembling instruction

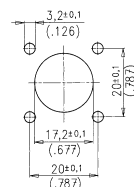


Panel Cutout

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.