C 091 B

Main Features

- Plastic locking ring; bayonet locking
- 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 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
  - Solder connection: 3 – 8, 12 and 14 contacts
  - Crimp connection: 3 – 8 contacts
- Coloured back shells optional
- UL registered under file number E 63 093 UL

[1)]

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 View on termination side of contact insert		3 	4 	5 	5 Stereo 	6 	7 	7 	8 	12 	14 
Contact arrangement acc. to DIN Contact arrangement acc. to IEC		41 524 60130-9	– 60130-9	– –	41 524 60130-9	45 322 60130-9	– –	45 329 60130-9	45 326 60130-9	– –	– –
Electrical Characteristics											
Rated voltage	IEC 60664-1	300 V ≃			100 V ≃	300 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 ≤ 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 40									
Insertion and withdrawal forces	IEC 60512-13-2 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 60512-9-1 Test 9 a	Silver ≥ 500 mating cycles Gold ≥ 1000 mating cycles									
Materials											
Housing material		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 (20-26 AWG), crimp 0,14 – 0,75 mm² (26-18 AWG)								≤ 0,25 mm²/24 AWG	
Flammability		UL 94 V0									
Locking system		bayonet									
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 ≙ DIN VDE 0110 ; IEC 60 512-x ≙ DIN EN 60 512-x

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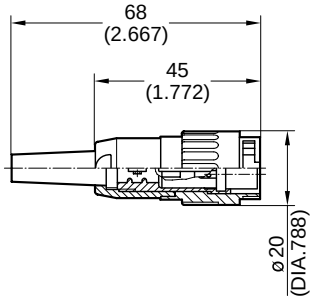
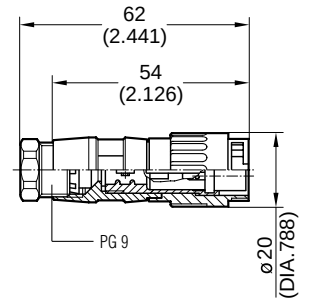
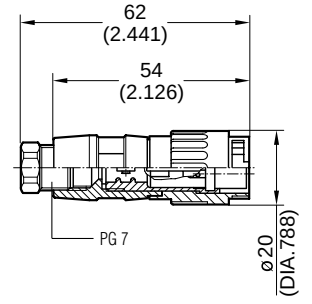
Female cable connector, bayonet locking outside

Cable diameter 3-6 mm

Cable diameter 6-8 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]	
Female cable connector, for cable diameter 3-6 mm, termination: solder or crimp, contact plating: silver or gold, cable sleeve: black.		3 [3]	T 3278 501	T 3278 518	T 3278 551
		4 [3]	T 3328 501	T 3328 518	T 3328 551
		5	T 3378 501	T 3378 518	T 3378 551
		5 S [3]	T 3398 501	T 3398 518	T 3398 551 [4]
		6 [3]	T 3428 501	T 3428 518	T 3428 551
		7	T 3438 501	T 3438 518 [4]	T 3438 551
		7 [3]	T 3448 501 [4]	T 3448 518 [4]	T 3448 551 [4]
		8 [3]	T 3528 501	T 3528 518 [4]	T 3528 551
		12	T 3628 501 [4]	T 3628 518 [4]	–
		14	T 3648 501 [4]	T 3648 518 [4]	–
Female cable connector, for cable diameter 6-8 mm, termination: solder or crimp with clamping ring, contact plating: silver or gold.		3 [3]	T 3278 502	T 3278 528 [4]	T 3278 552
		4 [3]	T 3328 502	T 3328 528 [4]	T 3328 552
		5	T 3378 502	T 3378 528 [4]	T 3378 552
		5 S [3]	T 3398 502 [4]	T 3398 528 [4]	T 3398 552 [4]
		6 [3]	T 3428 502	T 3428 528 [4]	T 3428 552
		7	T 3438 502	T 3438 528 [4]	T 3438 552
		7 [3]	T 3448 502 [4]	T 3448 528 [4]	T 3448 552 [4]
		8 [3]	T 3528 502	T 3528 528 [4]	T 3528 552 [4]
		12	T 3628 502 [4]	T 3628 528 [4]	–
		14	T 3648 502 [4]	T 3648 528 [4]	–
Female cable connector, for cable diameter 4-6 mm, termination: solder or crimp, contact plating: silver or gold.		3 [3]	T 3278 504 [4]	T 3278 548 [4]	T 3278 554 [4]
		4 [3]	T 3328 504 [4]	T 3328 548 [4]	T 3328 554 [4]
		5	T 3378 504 [4]	T 3378 548 [4]	T 3378 554 [4]
		5 S [3]	T 3398 504 [4]	T 3398 548 [4]	T 3398 554 [4]
		6 [3]	T 3428 504 [4]	T 3428 548 [4]	T 3428 554 [4]
		7	T 3438 504 [4]	T 3438 548 [4]	T 3438 554 [4]
		7 [3]	T 3448 504 [4]	T 3448 548 [4]	T 3448 554 [4]
		8 [3]	T 3528 504 [4]	T 3528 548 [4]	T 3528 554 [4]
		12	T 3628 504 [4]	T 3628 548 [4]	–
		14	T 3648 504 [4]	T 3648 548 [4]	–

[1] Please order crimp contacts separately, see page 43 [2] see remark page 20 [3] Contact order for DIN EN 60 130-9 [4] Available upon request.