

# Innovative and universal

Connectors for power connection, control signals and consumer electronics

be used in extreme applications that have dirty, humid and vibration-prone environments. With these connectors terminations are realized quickly and easily in the field. In addition they fulfil the requirements for the mechanical engineering, measuring and control technologies with international certification. These connectors are widely used in industry, plant manufacturing, mechanical engineering, building automation as well as in medical technologies and communication systems.





**##Media** connectors for secure connection of communication and consumer systems.

Compact dimensions, high density I/O and latching/locking characteristics make these products universally useable.



Conforming to international standards
HiMedia connectors are used all over the
world in hifi systems, measuring technology, entertainment electronics and loudspeaker systems, industrial automation,
intrusion and fire alarm systems and in
TV and multimedia presentation equipment.



### FULL-SPECTRUM SOLUTIONS FROM THE SPECIALIST

Seeking dialogue, among ourselves and with users. Developing innovative ideas together. Making use of synergies. Establishing productive links. And this via state-of-the-art communication technologies to transmit voice, data and visual information. From modern antenna systems in automobiles, satellite reception and transmission systems to enterprise-wide network solutions. The Hirschmann Group, a subsidiary of

Rheinmetall Elektronik AG, employs some 2,700 people around the world who are all committed to achieving this vision.

# AUTOMATION AND NETWORK SOLUTIONS DIVISION

With its connectors, fieldbus and fiber optic systems, Hirschmann offers automation solutions in bus, sensor and actuator technologies. A broad range of

connectors for laboratory applications, machine and plant construction as well as building technology are incorporated into the program as well. Industry-specific solutions for company-wide data networks from the workgroup to the backbone, from industrial to office networking, from LAN to WAN complete our range. In all commonly used standards - with a focus on ETHERNET, Fast ETHERNET and Gigabit ETHERNET.



### **Table of contents**



### **Connectors for mains connection**

	CA-series														6	, -	- 9
<del>!!</del>	CR-series													1	0 -	_	11
	ST-series													1	2 -	_	19
	G-series													2	0 -		27
	N-series													2	8 -	_	32



## **Connectors for control signals**

NR-series	34 – 4	43
CM-series	44 – 4	49
R-series	50 – !	53
ME-series	54 – !	59
SP-series		
Contacts, crimping systems, accessories	66 – 7	70



### **Connectors for consumer electronics**

	MAS/MAK 72	- 91
	MIS/MIK 92	- 95
0	TOS/TOK	96









### **CA-series**



#### **Product description**

Robust, universal circular connector for machinery engineering in general, control engineering, electrical medical equipment as well as for the chemical industry.

- International approvals for worldwide use: VDE, UR, SEV, CSA
- Housings made of impact-resistant plastic with screw locking system for troublefree, permanent connections
- Easy handling for a quick assembly with integrated strain relief
- Useful in industry due to protection against dust and water

#### Basic data

Operating voltage: 250 V AC / DC,

(400 V AC 3-pole)

Operating current: 10 A AC / DC (at 20° C), 16 A AC 3-pole (at 20° C)

Protection class: IP 67
Pollution severity class: 3
Strain relief by means of cable:

6 mm-12 mm

Contact surface: Cu Zn

of poles  3 + PE Cable connector Type of connection: screw Conductor cross-section: max. 1.5 mm² Operating voltage: 250 V DC / 400 V AC Operating current: 10 A DC / 16 A AC  3 + PE Cable socket Type of connection: screw Conductor cross-section: max. 1.5 mm² Operating voltage: 250 V DC / 400 V AC Operating voltage: 250 V DC / 400 V AC Operating voltage: 250 V DC / 400 V AC Operating current: 10 A DC / 16 A AC  3 + PE Cable connector Type of connection: screw Conductor cross-section: max. 1.5 mm² Operating voltage: 250 V DC / 400 V AC Operating voltage: 250 V DC / 400 V AC Operating voltage: 250 V DC / 400 V AC Operating voltage: 250 V DC / 400 V AC Operating voltage: 250 V DC / 400 V AC Operating current: 10 A DC / 16 A AC  3 + PE Cable socket Type of connection: screw Conductor cross-section: max. 1.5 mm² Operating current: 10 A DC / 16 A AC  3 + PE Cable socket Type of connection: screw Conductor cross-section: max. 1.5 mm² Operating current: 10 A DC / 16 A AC	Туре		Number	Description	Order no.
Type of connection: screw Conductor cross-section: max. 1.5 mm² Operating voltage: 250 V DC / 400 V AC Operating current: 10 A DC / 16 A AC  3 + PE Cable socket Type of connection: screw Conductor cross-section: max. 1.5 mm² Operating voltage: 250 V DC / 400 V AC Operating voltage: 250 V DC / 400 V AC Operating current: 10 A DC / 16 A AC  3 + PE Cable connector Type of connection: screw Conductor cross-section: max. 1.5 mm² Operating voltage: 250 V DC / 400 V AC Operating voltage: 250 V DC / 400 V AC Operating voltage: 250 V DC / 400 V AC Operating voltage: 250 V DC / 400 V AC Operating voltage: 250 V DC / 400 V AC Operating voltage: 250 V DC / 400 V AC Operating current: 10 A DC / 16 A AC  3 + PE Cable socket Type of connection: screw  934 129-100 Type of connection: screw	Type			Description	order no.
Type of connection: screw Conductor cross-section: max. 1.5 mm² Operating voltage: 250 V DC / 400 V AC Operating current: 10 A DC / 16 A AC  3 + PE Cable connection: screw Conductor cross-section: max. 1.5 mm² Operating voltage: 250 V DC / 400 V AC Operating voltage: 250 V DC / 400 V AC Operating current: 10 A DC / 16 A AC  3 + PE Cable socket Type of connection: screw  934 129-100 Type of connection: screw	CA 3 LS	₩ 27	3 + PE	Type of connection: screw  Conductor cross-section: max. 1.5 mm <sup>2</sup> Operating voltage: 250 V DC / 400 V AC	934 124-100
Type of connection: screw  Conductor cross-section: max. 1.5 mm² Operating voltage: 250 V DC / 400 V AC Operating current: 10 A DC / 16 A AC  3 + PE Cable socket Type of connection: screw  934 129-100	CA 3 LD	Sinden ©	3 + PE	Type of connection: screw  Conductor cross-section: max. 1.5 mm <sup>2</sup> Operating voltage: 250 V DC / 400 V AC	934 125-100
3 + PE Cable socket Type of connection: screw	CA 3 W LS	Cot. 34	3 + PE	Type of connection: screw  Conductor cross-section: max. 1.5 mm <sup>2</sup> Operating voltage: 250 V DC / 400 V AC	934 128-100
Operating voltage: 250 V DC / 400 V AC Operating current: 10 A DC / 16 A AC	CA 3 WID		3 + PE	Type of connection: screw  Conductor cross-section: max. 1.5 mm <sup>2</sup> Operating voltage: 250 V DC / 400 V AC	934 129-100











Туре		Number of poles	Description	Order no.
CA 6 LS	SW 27	6 + PE	Cable connector Type of connection: solder Conductor cross-section: max. 0.75 mm² Operating voltage: 250 V AC/DC Operating current: 10 A AC/DC	934 126-100
CA 6 LD	g g g g g g g g g g g g g g g g g g g	6 + PE	Cable socket Type of connection: solder Conductor cross-section: max. 0.75 mm² Operating voltage: 250 V AC/DC Operating current: 10 A AC/DC	934 127-100
CA 6 W LS	Ob. 54	6 + PE	Cable connector  Type of connection: solder  Conductor cross-section: max. 0.75 mm²  Operating voltage: 250 V AC/DC  Operating current: 10 A AC/DC	934 130-100
CA 6 W LD	co. 54	6 + PE	Cable socket  Type of connection: solder  Conductor cross-section: max. 0.75 mm²  Operating voltage: 250 V AC/DC  Operating current: 10 A AC/DC	934 131-100
CA 3 GS	83 24 x <sup>1</sup> 9 2 2 3 3 3 3 3 8	3 + PE	Panel-mounted connector Type of connection: screw Conductor cross-section: max. 1.5 mm² Operating voltage: 250 V DC / 400 V AC Operating current: 10 A DC / 16 A AC	932 322-100







# **CA-series**



Туре		Number of poles	Description	Order no.
CA 3 GD	Std 24 x 1/0 Std 24 x 1/0 St	3 + PE	Panel-mounted socket  Type of connection: screw  Conductor cross-section: max. 1.5 mm²  Operating voltage: 250 V DC / 400 V AC  Operating current: 10 A DC / 16 A AC	932 321-100
CA 6 GS	Rd 24 x 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 + PE	Panel-mounted connector  Type of connection: solder  Conductor cross-section: max. 0.75 mm²  Operating voltage: 250 V AC/DC  Operating current: 10 A AC/DC	932 326-100
CA 6 GD	80 24 x <sup>1</sup> / <sub>0</sub>	6 + PE	Panel-mounted socket  Type of connection: solder  Conductor cross-section: max. 0.75 mm²  Operating voltage: 250 V AC/DC  Operating current: 10 A AC/DC	932 325-100
CA 00 SD 1		-	Protection cap for all cable connectors with variable thread	831 530-400
CA 00 SD 3		-	Protection cap for all cable sockets with variable thread	831 532-400





# Hi Power (

# **CA-series**

Туре	Number of poles	Description	Order no.
CA 00 SD 2	_	Protection cap for all panel-mounted connectors, with tight thread	831 529-100
CA 00 SD 4	-	Protection cap for all panel-mounted sockets, with tight thread	831 531-100

### **Notes**







### **CR-series**



#### **Product description**

Robust, universal circular connector for machinery engineering in general, control engineering, electrical medical equipment and the use in sun blinds, roller shutters, awnings.

- International approvals for worldwide use: VDE, UR
- Easy handling for a quick assembly, contact-making with insulation

piercing connectors, eliminating the need for wire stripping, integrated strain relief

- Casing of impact-proof plastic with bajonet locking for troublefree permanent connections (enclosed with connector)
- Useful in industry and applieable outdoors due to protection against dust and water

#### Basic data

Operating voltage: 250 AC / DC Operating current: 8 A Number of poles: 3 + PE Protection class: IP 65

Temperature range: -40°C ... + 90°C Strain relief by means of a cable:

6,8mm - 8,8mm Cable cross-section:

0.5 mm<sup>2</sup> ... 0.75 mm<sup>2</sup>, strand

Туре		Number of poles	Description	Order no.
CR M 3A	SS EI	3 + PE	Cable connector  Type of connection: quickfit  Bayonet locking	933 759-100
CR F 3A		3 + PE	Cable socket  Type of connection: quickfit	933 760-100
CR M 3M	223	3 + PE	Moulded-on cable connector, cable HO5 RR F4G075, 1m Bayonet locking	933 761-001
		3 + PE	Moulded-on cable socket, cable HO5 RR F4G075, 1m	933 762-001
CR M 3F	- 1 %			





# **CR-series**





Туре	Number of poles	Description	Order no.
CR Panel-mounted connector	3 + PE	Panel-mounted connector with flange Type of connection: quickfit Bayonet locking via cable socket	In preparation
CR Panel-mounted socket	3 + PE	Panel-mounted socket with flange Type of connection: quickfit	In preparation
CR Surface-mounted connector	3 + PE	Surface-mounted connector Type of connection: quickfit Bayonet locking via cable socket	In preparation
CR Surface- mounted socket	3 + PE	Surface-mounted socket  Type of connection: quickfit	In preparation







### **ST-series**



#### **Product description**

Compact connectors for mains and control lead connections.

- Robust design, by a safety bracket, vibration-proof plug connection, can be assembled as required and moulded-on versions 2-, 3-, 4-, 5pole + PE
- Panel-mounted as well as surfacemounted versions of connector and socket
- Protection against dust and splashes
- International approvals for worldwide use: VDE, SEV, NEMKO, SEMKO, UL
- · Colour of product: grey

#### Basic data

Operating voltage: 250 V AC / DC,

(400 V AC 3-pole)

Operating current: 10 A AC / DC

(16 A AC 3-pole)
Protection class: IP 54
Pollution severity class: 3

Lead cross-section: 6mm - 12mm Contact surface: Sn/5-pole Ag Type of connection: screw / crimp Connection cross-section: max 1.5mm²

Туре		Number of poles	Description	Order no.
STAS 2	STAS 2	2 + PE	Cable connector without strain relief Operating current: 16 A AC / 10 A DC Product without approvals	930 620-106
STAS 20	55.5 STAS 20	2 + PE	Cable connector with strain relief Operating current: 16 A AC / 10 A DC Product without approvals	931 265-106
STAS 200	55.55 STAS 200	2 + PE	Cable connector with strain relief and coding fin Operating current: 16 A AC / 10 A DC	932 038-106
STAS 3 N	1.4 max. 56.5 = 9	3 + PE	Cable connector with strain relief Operating current: 16 A AC / 10 A DC	932 143-100 black 932 143-106 grey











Туре		Number of poles	Description	Order no.
STAS 5	5 SATS  Was 2,17.2	5 + PE	Cable connector with strain relief, not assembled with additional contacts Operating current: 6 A AC / 10 A DC	931 692-106
STAS 2 K 075 SI	153.5 THE SECOND TO SECOND	2 + PE	Moulded-on cable connector, harmonized lead (DIN VDE 0282), safety bracket Cable length on request Operating current: 10 A AC / DC Product without approvals	972 246
STAS 3 K 075 SI	56.5	3 + PE	Moulded-on cable connector with harmonized lead (DIN VDE 0282) and safety bracket Cable length on request Operating current: 10 A AC / DC	931 300
STAS 4 K 075 SI	56.5	4 + PE	Moulded-on cable connector with harmonized lead (DIN VDE 0282) and safety bracket Cable length on request Operating current: 10 A AC / DC	932 578
STAK 2	STAK 2	2 + PE	Cable socket without strain relief Operating current: 16 A AC / 10 A DC Product without approvals	930 621-106









Туре		Number of poles	Description	Order no.
STAK 20	11 STAK 20	2 + PE	Cable socket with strain relief Operating current: 16 A AC / 10 A DC Product without approvals	931 264-106
STAK 200	11 STAK 200 10 STA	2 + PE	Cable socket with strain relief and coding slot Operating current: 16 A AC / 10 A DC	932 037-106
STAK 3 N	1.4 max. 56.5 = 0	3 + PE	Cable socket with strain relief Operating current: 16 A AC / 10 A DC	932 140-100 black 932 140-106 grey
STAKWI 3	max. 53,5	3 + PE	Cable socket, angled design  Operating current: 16 A AC / 10 A DC	932 413-106
STAK 4	71 = 9 max. 56	4 + PE	Cable socket with strain relief Operating current: 10 A AC / DC	932 533-106







Туре		Number of poles	Description	Order no.
STAK 5	SYAK 5 (Inchann)  1.4 (Inchann)  Max. 56.5 (Inchann)			931 691-106
STAK 3 K 075	17 2005	3 + PE	Moulded-on cable connector with harmonized lead (DIN VDE 0282)  Cable length on request  Operating current: 10 A AC / DC	932 187
STASEI 2	3.2	2 + PE	Panel-mounted connector, added gasket Operating current: 16 A AC / 10 A DC Product without approvals	930 622-106
STASEI 200	3.72 3.73 3.74 3.75 3.75 3.75 3.75	2 + PE	Panel-mounted connector with coding fin, added gasket Operating current: 16 A AC / 10 A DC	932 048-106
STASEI 3 N	28,6 max. 23,7 E	3 + PE	Panel-mounted connector, added gasket Operating current: 16 A AC / 10 A DC	932 145-106









Туре		Number of poles	Description	Order no.
STASEI 5	28,6 max. 23,7 6,1 1. xem 3,2	5 + PE	Panel-mounted connector, not assemled with added contacts, added gasket Operating current: 6 A AC / 10 A DC	931 697-106
STAKEI 2	37 57 87 87 87 87 87 87 87 87 87 87 87 87 87	2 + PE	Panel-mounted socket, added gasket Operating current: 16 A AC / 10 A DC Product without approvals	930 647-106
STAKEI 200	3.7 27 8 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4	2 + PE	Panel-mounted socket with coding slot, added gasket Operating current: 16 A AC / 10 A DC	932 047-106
STAKEI 3 N	28,6 max. 23,7 SE EE XEE XEE XEE XEE XEE XEE XEE XEE X	3 + PE	Panel-mounted socket, added gasket Operating current: 16 A AC / 10 A DC	932 142-106
STAKEI 5	28,6 max. 23,7 6,2 1,3,2	5 + PE	Panel-mounted socket, not assembled with added contacts, added gasket Operating current: 6 A AC / 10 A DC	931 694-106







Туре		Number of poles	Description	Order no.
STASAP 2 B	36,5 27 19,5 19,5 36,5 27 19,5 36,5 27 19,5 36,5 36,5 36,5 36,5 36,5 36,5 36,5 36	2 + PE	Surface-mounted connector with cast baseplate, additional sealing for IP 54 necessary Operating current: 16 A AC / 10 A DC Product without approvals	930 822-106
STASAP 200	36.5 27 19.5 000 dvSvIs	2 + PE	Surface-mounted connector with cast baseplate and coding fin, additional sealing for IP 54 necessary Operating current: 16 A AC / 10 A DC	932 046-106
STASAP 3 N	3 + PE Surface-mounted connector Operating current: 16 A AC / 1		Surface-mounted connector  Operating current: 16 A AC / 10 A DC	932 514-106
STASAP 5	27.5	5 + PE	Surface-mounted connector, not assembled with added contacts Operating current: 6 A AC / 10 A DC	932 512-106
STAKAP 2	36.5 27 19.5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 + PE	Surface-mounted socket with cast baseplate, additional sealing for IP 54 necessary Operating current: 16 A AC / 10 A DC Product without approvals	930 329-106









Туре		Number of poles	Description	Order no.
STAKAP 200	36,5 27 19,5 00 dv/W1s	2 + PE	Surface-mounted socket with cast baseplate and coding slot, additional sealing for IP 54 necessary Operating current: 16 A AC / 10 A DC	932 045-106
STAKAP 3 N	27.5	3 + PE	Surface-mounted socket Operating current: 16 A AC / 10 A DC	932 513-106
STAKAP 5	27.5 27.5 27.5 27.5 20.5	5 + PE	Surface-mounted socket, not assembled with added contacts Operating current: 6 A AC / 10 A DC	932 511-106
STASI 2	4,2 22 4	-	Safety brackets for 2 + PE - versions	732 044-000
STASI 3	4.5	-	Safety bracket for 3 + PE and 5 + PE - versions	732 045-001



# Notes











### **G-series**



#### **Product description**

- Compact and robust series of angled connectors protected against dust and water jets (IEC 60529-IP 65) with VDE expertise
- Cable sockets, can be assembled as required and with injection-moulded leads in different lengths
- Surface-mounted connectors with solder- and crimp contacts, also suitable for mounting to light bar-

riers by ultrasonic welding

#### **Product characteristics**

- · Big variety of versions
  - · Two different series (G/GO) coded to prevent confusion
- Number of poles 2-7, with/without PE
- Operating voltage up to 250 V AC / DC
- Exceptionally small dimensions, therefore particularly suitable for electrical connections in hydraulic and pneumatic control systems even in very confined spaces
- For actuators, sensors, signalling systems, miniature drives, electromedical equipment, suitable for use under extreme conditions, heavy machine construction

Туре		Number of poles	Description	Colour	Order no.
G 2 KW 1 F		2	Cable socket with moulded-on lead Cable length: 1,5 m Operating voltage: 50 V AC / DC	black	931 494-603
G 4 W 1 F	16 16 16 16 16 16 16 16 16 16 16 16 16 1	4	Cable socket with PG 7 cable gland, with solder contacts Operating voltage: 50 V AC / DC	black grey	932 157-100 932 157-106
G 4 A 1 M	16	4	Suface-mounted connectors for printed circuit boards, with solder contacts Operating voltage: 50 V AC / DC	grey	931 807-106
G 4 A 1 M MT	16 25.1	4	Press-fit surface-mounted connector, with solder contacts Operating voltage: 50 V AC / DC	black	932 823-100





# **G-series**





Туре		Number of poles	Description	Colour	Order no.
G 4 A 5 M	23 16 19	4	Surface-mounted connector with flange, with solder contacts Operating voltage: 50 V AC / DC	black grey	932 092-100 932 092-106
G 4 E 1 M		4	Panel-mounted connector for crimp contacts Operating voltage: 50 V AC / DC	black grey	731 802-500 731 802-506
G 4 KW 1 F		4	Cable socket with moulded-on lead Cable length: 2 m Operating voltage: 50 V AC / DC	grey	931 805-602
G 20 W 3 F		2 + PE	Cable socket with PG 7 cable gland, with solder contacts Operating voltage: 250 V AC / DC	black grey	932 185-100 932 185-106
G 20 KW 3 F		2 + PE	Cable socket with moulded-on lead Cable length: 2 m Operating voltage: 250 V AC / DC	grey	932 041-601







### **G-series**



Туре		Number of poles	Description	Colour	Order no.
G 20 KW 3 F		2 + PE	Cable socket with moulded-on lead Cable length: 3 m Operating voltage: 250 V AC / DC	grey	932 041-002
G 20 KW 3 M	21	2 + PE	Cable connector with moulded-on lead Cable length: 1,5 m Operating voltage: 250 V AC / DC	grey	931 793-001
G 30 W 3 F	16 16 16 16 16 16 16 16 16 16 16 16 16 1	3 + PE	Cable socket with PG 7 cable gland, with solder contacts Operating voltage: 250 V AC / DC	black grey	932 186-100 932 186-106
G 30 A 3 M	108 4.1.19 2.2.119 2.2.119	3 + PE	Surface-mounted connector for printed circuit boards, with solder contacts Operating voltage: 250 V AC / DC	grey	931 700-106
G 30 A 5 M	10.8	3 + PE	Surface-mounted connector with flange, with solder contacts Operating voltage: 250 V AC / DC	black	932 840-100





# **G-series**





Туре		Number of poles	Description	Colour	Order no.
G 30 E 3 M	23 	3 + PE	Panel-mounted connector for crimp contacts Operating voltage: 250 V AC / DC	grey	731 996-506
G 30 E 3 F	29 23: a1 20: 25: 25: 25: 25: 25: 25: 25: 25: 25: 25	3 + PE	Panel-mounted socket with flange, with solder contacts Operating voltage: 250 V AC / DC	grey	931 782-106
G 30 KW 3 F		3 + PE	Cable socket with moulded-on lead Cable length: 2 m Operating voltage: 250 V AC / DC	grey	931 608-003
G 30 KW 3 M		3 + PE	Cable connector with moulded-on lead Cable length: 2 m Operating voltage: 250 V AC / DC	grey	931 783-001
	2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	Flat gasket NBR, 2 mm thick		732 135-002
G 30 E - 1					







### **G-series**



Туре		Number of poles	Description	Colour	Order no.
G 30 E - 2	19 16,1 3,5	_	Flat gasket NBR, 0,8 mm thick		733 415-002
GO 6 WF		6	Cable socket with PG 7 cable gland, with solder contacts Operating voltage: 50 V AC / DC	black	932 447-100
GO 6 UM	M 3	6	Surface-mounted connector for printed circuit boards, with solder contacts Operating voltage: 50 V AC / DC	black	932 350-100
GO 6 FAV M	M 3 3 2 5 8 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6	Surface-mounted connector with flange, with solder contacts Operating voltage: 50 V AC / DC	black	932 669-100
GO 070 WF	55.9 × 10	7	Cable socket with PG 11 cable gland, with solder contacts Operating voltage: 50 V AC / DC	black	932 483-100





## **G-series**





Туре		Number of poles	Description	Colour	Order no.
GO 070 UM	24 12.2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7	Surface-mounted connector for printed circuit boards, with solder contacts Operating voltage: 50 V AC / DC	black	932 466-100
GO 070 FA M	N S O O O O O O O O O O O O O O O O O O	7	Surface-mounted connector with flange, with solder contacts Operating voltage: 50 V AC / DC	black	932 470-100
GO 51 WF		5 + PE	Cable socket with PG 7 cable gland, with solder contacts Operating voltage: 250 V AC / DC	black	932 351-200
GO 51 UM	16.5 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	5 + PE	Surface-mounted connector for printed circuit boards, with solder contacts Operating voltage: 250 V AC / DC	black	932 352-100
GO 51 FAV M	935	5 + PE	Surface-mounted connector with flange, with solder contacts Operating voltage: 250 V AC / DC	black	932 919-100







### **G-series**



Туре		Number of poles	Description	Colour	Order no.
GO 610 WF	55,9	6 + PE	Cable socket with PG 11 cable gland, with solder contacts Operating voltage: 250 V AC / DC	black	932 484-100
GO 610 UM	70 00 00 00 00 00 00 00 00 00 00 00 00 0	6 + PE	Surface-mounted connector with solder contacts Operating voltage: 250 V AC / DC	black	932 464-100
GO 610 FA M	24 22 22 23 24 25 25 25 25 25 25 25 25 25 25	6 + PE	Surface-mounted connector with flange, with solder contacts Operating voltage: 250 V AC / DC	black	932 478-100
GO 60 WF		6	Cable socket with PG 7 cable gland, with solder contacts Operating voltage: 250 V AC / DC	black	932 448-100
GO 60 UM	16.5 35.35 2.0 2.0 2.0 2.0 4.5 4.5 4.55	6	Surface-mounted connector for printed circuit boards, with solder contacts Operating voltage: 250 V AC / DC	black	932 344-100





# **G-series**





Туре		Number of poles	Description	Colour	Order no.
GO 60 FAV M	18.5 (3.7) (	6	Surface-mounted connector with flange, with solder contacts Operating voltage: 250 V AC / DC	black	932 918-100
GO 700 WF	55,9 15,7 16,7 18,7 18,7 18,7 18,7 18,7 18,7 18,7 18	7	Cable socket with PG 11 cable gland, with solder contacts Operating voltage: 250 V AC / DC	black	932 485-100
GO 700 UM	24-01 24	7	Surface-mounted connector with solder contacts Operating voltage: 250 V AC / DC	black	932 465-100
GO 700 FA M	24 122 122 123 123 123 123 123 123 124 125 125 125 125 125 125 125 125 125 125	7	Surface-mounted connector with flange, with solder contacts Operating voltage: 250 V AC / DC	black	932 477-100







### **N-series**



#### **Product description**

Robust connectors 6-, 10-, and 16pole, narrow plastic housing, angled, for industrial application.

- Housing made of glass-fibre-reinforced, impact-resistant and unbreakable plastic
- Suitable for the use in machinery engineering in general, control engineering and in the chemical industry
- Protection against dust and splashes
- Safety bracket for vibration-proof plug connection, the connection is broken by unlocking
- Coding: Comprising 4 pins and 4 sockets per plug connection, offset at 120° each
- VDE-expertise with process inspection

#### Basic data

Operating voltage: 400 V AC / 250 V DC Operating current: 10 A AC/DC

Protection class: IP 54

Outer cable diameter: 10mm - 13mm

Type of connection: screw Colour of product: grey

Туре		Number of poles	Description	Order no.
NS 6	8 63,5 72,5	6 + PE	Cable connector  Cable gland must be ordered separately  Operating current: 10A/250 V DC,  10A/400 V AC	932 293-106
NS 10	8	10 + PE	Cable connector  Cable gland must be ordered separately  Operating current: 10A/250 V DC,  10A/400 V AC	932 294-106
NS 16	6	16 + PE	Cable connector  Cable gland must be ordered separately  Operating current: 10A/250 V DC,  10A/400 V AC	932 295-106
NK 6	8	6 + PE	Cable socket  Cable gland must be ordered separately  Operating current: 10A/250 V DC,  10A/400 V AC	932 290-106







# **N-series**

Туре		Number of poles	Description	Order no.
NK 10	2	10 + PE	Cable socket  Cable gland must be ordered separately  Operating current: 10A/250 V DC,  10A/400 V AC	932 291-106
NK 16	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	16 + PE	Cable socket  Cable gland must be ordered separately  Operating current: 10A/250 V DC,  10A/400 V AC	932 292-106
NSE 6	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	6 + PE	Panel-mounted connector Operating current: 10A/250 V DC, 10A/400 V AC	932 299-106
NSE 10	8d 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 + PE	Panel-mounted connector  Operating current: 10A/250 V DC,  10A/400 V AC	932 300-106
NSE 16	104.5 104.5 20 113.5 96.5	16 + PE	Panel-mounted connector Operating current: 10A/250 V DC, 10A/400 V AC	932 301-106







## **N-series**



Туре		Number of poles	Description	Order no.
NKE 6	71 17 18 19 19 19 19 19 19 19 19 19 19	6 + PE	Panel-mounted socket Operating current: 10A/250 V DC, 10A/400 V AC	932 296-106
NKE 10	84 1.3 2.3 3.3 7.6	10 + PE	Panel-mounted socket Operating current: 10A/250 V DC, 10A/400 V AC	932 297-106
NKE 16	104,5 10	16 + PE	Panel-mounted socket  Operating current: 10A/250 V DC,  10A/400 V AC	932 298-106
NVZ 6 B		-	Cable gland Gland Pg 13,5 with strain relief bracket for cable diameter 10 - 13 mm	831 491-001
NVZ 10 B		-	Cable gland Gland Pg 16 with strain relief bracket for cable diameter 10,5 - 15 mm	831 492-001







# **N-series**

Туре		Number of poles	Description	Order no.
NVZ 16 B		-	Cable gland Gland Pg 21 with strain relief bracket for cable diameter 14 - 18,5 mm	831 493-001
NSI 6-1	56	-	Accessories Safety bracket steel, galvanized	731 307-000
	63	_	Accessories Safety bracket steel, galvanized	731 051-000
NSI 10-1 NSI 16-1	71 52	_	Accessories Safety bracket steel, galvanized	731 343-000
O B		-	Accessories  Coding consisting of 4 coding pins and 4 coding sockets	930 626-000
NC 10				





# Notes











### **NR-series**



#### **Product description**

Multi-pole shielded circular connectors. Design according to DIN 43651, all-metal construction, used for control and measurement systems.

 Connection of shielded cables with PG-cable gland, efficient shielding ensures transmission free of electromagnetic and parasitic interference form the PG-cable gland to the machine

- For situations susceptible to interference and safety-related applications
- Suitable for use under extreme mechanical stress

#### Basic data

Number of poles: 6 + PE, 11 + PE Operating voltage: 25 V AC; 50 V DC Operating current:

10 A (6-pole), 5 A (11-pole)

Contact material/surface: CuZn silver-plated Protection class: IP 65 Type of connection: crimp / solder Connection cross-section: max. 1,5 mm² (6-pole), 0,5 mm² (11-pole) Ambient temperature: -25 ... +90°C

Contacts are to be ordered separately, see chapter: Contacts, crimping

systems, accessories

Туре		Number	Description	Suitable for	Order no.
		of poles			
N6R EFS	Pg 13.5  M26 x 1.5  Ø 28	6 + PE	Cable socket, straight Type of connection: crimp Contacts: RBC 162	N6R BM FA S (EMV-PG- cable gland is to be ordered separately!)	933 711-001
N6R BM FAS	0 19.4 0 19.4 0 19.4 0 19.4 0 19.4	6 + PE	Surface-mounted connector with flange Type of connection: solder	N6R EF S	933 710-001
N11R EFS	Pg 13.5  M26 x 1.5  Ø 28	11 + PE	Cable socket, straight Type of connection: crimp Contacts: RBC 162/1	N11R BM FAS (EMV-PG- cable gland is to be ordered separately!)	933 700-001
N11R BM FAS	0 19,4 9 19,4 M26 x 1.5	11 + PE	Surface-mounted connector with flange Type of connection: solder	N11R EF S	933 699-001











Туре		Number of poles	Description	Suitable for	Order no.
N6R-40	294 34 38	-	Conductive flat gasket	N6R BM FAS, N11R BM FAS	734 633-001
N6R-41	32 5.5 8 8 8 8	-	EMV-PG-cable gland for lead diameter 6 - 12 mm	N6R EF S N11R EF S	734 605-001
N6R-42	30 SW 24 SW 24 SW 24	-	EMV-PG-cable gland for lead diameter 12 - 15 mm	N6R EF S, N11R EF S	734 606-001
SHK 4	φ 25 <b>•</b>	-	Protective cover for surface-mounted connector	N6R BM FAS, N11R BM FAS	734 582-001







### **NR-series**



#### **Product description**

Multi-pole circular connectors according to DIN 43651.

- · Robust design
- Casing out of impact-proof, unbreakable plastic, glass-fibre reinforced
- Splash-proof, protection class IP 65 (DIN 40050)
- Vibration-proof connection due to central screw or screw bushing
- Strain relief due to claw cage in the

PG-cable gland

• Colour of product: grey

Basic data

Number of poles: 6 + PE, 11 + PE Operating voltage: 250 V AC / DC (6-pole) 60 V AC / DC (11-pole)

Operating current: 10 A (6-pole), 5 A (11-pole)

Contact material/surface:

CuZn silver-plated

Protection class: IP 65
Type of connection:
crimp / screw / solder

Connection cross-section: max. 1,5 mm² (6-pole), 0,5 mm² (11-pole) Outer cable diameter: 7-9 mm (6-pole), 8-10 mm (11-pole) Ambient temperature: -30 ... +90°C

Contacts are to be ordered separately, see chapter: Contacts, crimping

systems, accessories

Туре		Number of poles	Description	Suitable for	Order no.
N6R FF	11 max 40 max. 15.2 max.	6 + PE	Cable socket, angled Type of connection: crimp Contacts: RBC 162	N6R AM, N6R AM, N6R BM, N6R DM	931 435-106
N6R FF R	11 max. 40 max. 16.2 max.	6 + PE	Cable socket, angled with knurled screw Type of connection: crimp Contacts: RBC 162	N6R AM, N6R AM, N6R BM, N6R DM	931 553-106
N6R FF S11	11 max 49 15	6 + PE	Cable socket, angled, transparent cap, for installation of the LED insert Type of connection: screw <sup>2</sup>	N6R AM, N6R AM, N6R BM, N6R DM	932 194-112

<sup>1)</sup> In accordance with the repl. docs. issued by the German PTT, No. 64.5060.678.00



<sup>2) (</sup>Socket clamp connection); LED insert type N6R 3 LED 24 or N6R 3 LED 24DB - order separately









Туре		Number of poles	Description	Suitable for	Order no.
N6R 3 LED 24	gelb  rot  grün	-	LED insert with 3 LEDs (green, red, yellow), Operating voltage DC 24 V Type of connection: plug in	N6R FF S 11	831 411-001
N6R 3 LED 24 DB	gelb	-	LED insert with 3 LEDs (green, yellow, red), Operating voltage DC 24 V Type of connection: plug in	N6R FF S 11	831 618-001
N6R FM R	11 max 40 max 57 2 max 15.2 ma	6 + PE	Cable connector, angled with knurled screw, Type of connection: crimp Contacts: RSC 162	N6R AF, N6R AF 5, N6R BF	931 727-106
N6R EF	SW 19 P9 11 W 19 M26x1.5	6 + PE	Cable socket, straight Type of connection: crimp Contacts: RBC 162	N6R AM, N6R AM, N6R BM, N6R DM	931 720-001
N6R EM	SW 19 79 17 19 17 19 17 19 17 19 19 19 19 19 19 19 19 19 19 19 19 19 1	6 + PE	Cable connector, straight Type of connection: crimp Contacts: RSC 162	N6R AF, N6R AF 5, N6R BFE	931 776-001







#### **NR-series**



Туре		Number of poles	Description	Suitable for	Order no.
N6R AM	\$29.5_0.2 \$29.5_0.2 \$29.3.5 \$3.5 \$3.5 \$4.9.6.2 \$4.	6 + PE	Panel-mounted connector with metal screw-in casing, PG 13,5 Type of connection: crimp Contacts: RSC 162	N6R FF, N6R FFR, N6R EF	931 434-001
N6R AM 2	\$29,5_0,4 26 Pg 13,5 SW 27 27 28 29,8_0,2 48 19,8_0,2 48 19,8_0,2 48 19,8_0,2 10,0	6 + PE	Panel-mounted connector with contact bearer in the casing (monoblock design), PG 13,5 Type of connection: crimp Contacts: RSC 162	N6R FF, N6R FFR, N6R EF	931 592-001
N6R AM 3	\$29.5_0.4 \$24.0 \$Pg 11 \$SW 27 \$27 \$27 \$27 \$38_0.2 \$4.0 \$4.0 \$4.0 \$5.0 \$6	6 + PE	Panel-mounted connector with contact bearer in the casing (monoblock design), PG 11 Type of connection: crimp Contacts: RSC 162	N6R FF, N6R FFR, N6R EF N6R EF	931 592-002
N6R AM 4	29.5-0.4 28 Pg 16 SW 27 19.8-0.2 M26×1.5	6 + PE	Panel-mounted connector with contact bearer in the casing (monoblock design), PG 16 Type of connection: crimp Contacts: RSC 162	N6R FF, N6R FFR, N6R EF	931 592-003
N6R AM 5	929,5-0,2 Pg 13,5 SW 27 SW 27 90,98-0,2 M26x1,5	6 + PE	Panel-mounted connector with metal screw-in insert in the casing (metal segment), PG 13,5  Type of connection: crimp  Contacts: RSC 162	N6R FF, N6R FFR, N6R EF	931 773-001











Туре		Number of poles	Description	Suitable for	Order no.
N6R AM 2 D	\$29.5-0.4 26 \$7913.5 \$7.02-0.2	6 + PE	Panel-mounted connector with contact bearer in the casing (monoblock design), PG 13,5 pins hermetically mounted to prevent ingress of liquids Type of connection: solder	N6R FF, N6R FFR, N6R EF	932 207-206
N6R BME	629.5 MEGA 1.3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 + PE	Panel-mounted connector with flange Type of connection: crimp Contacts: RSC 162	N6R FF, N6R FFR, N6R EF	931 731-106
N6R BM FA	0 19.4 0 19.4 0 19.4 0 19.4	6 + PE	Surface-mounted connector with flange Type of connection: crimp Contacts: RSC 162	N6R FF, N6R FFR, N6R EF, N6R FF S 11	932 437-206
N6R AF	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	6 + PE	Panel-mounted socket with metal screw-in casing, PG 13,5 Type of connection: crimp Contacts: RBC 162	N6R FMR, N6R EM, N6R DM	931 855-001
N6R AF 5	\$\frac{\phi 29,5 - 0.2}{Pg 13.5}\$\$\$SW 27\$\$\$\frac{\phi 27}{27 \text{6Z}}\$\$\$8W 27\$\$\$\frac{\phi 77.8 \ \phi 2}{80}\$	6 + PE	Panel-mounted socket with metal screw-in insert in the ca- sing (metal segment), PG 13,5 Type of connection: crimp Contacts: RBC 162	N6R FMR, N6R EM, N6R DM	932 164-001







#### **NR-series**



Туре		Number of poles	Description	Suitable for	Order no.
N6R BFE	\$23.5 M26x 1.5 \$34.9 = 2 45:0.15	6 + PE	Panel-mounted socket with flange Type of connection: crimp Contacts: RBC 162	N6R FMR, N6R EM, N6R DM	931 730-106
N6R DM	SW 19 - Pg 11 - Pg 11 - SV 19 - SV 19	6 + PE	Coupling connector for cable socket N6R EF Type of connection: crimp Contacts: RSC 162	N6R EF	932 273-106
N11R FF	11 max. 40 max. 15,2 max.	11 + PE	Cable socket, angled Type of connection: crimp Contacts: RBC 162/1	N11R AM, N11R AM 5, N11R BM FA	932 632-106
N11R FM	11 max. 40 max. 15.2 max.	11 + PE	Cable connector, angled Type of connection: crimp Contacts: RSC 162/1	N11R AF, N11R AF 5	932 633-106
N11R DM	92 11 15 15 15 15 15 15 15 15 15 15 15 15	11 + PE	Coupling connector for cable socket N11R EF Type of connection: crimp Contacts: RSC 162/1	N11R EF	932 629-106





### **NR-series**





Туре		Number of poles	Description	Suitable for	Order no.
N11R BM FA	3.4 J 19.4 S 19.	11 + PE	Surface-mounted connector with flange Type of connection: crimp Contacts: RSC 162/1	N11R FF, N11R EF	932 628-206
N11R EF	SW 19 Pg 11  M26x15  0 28	11 + PE	Cable socket, straight Type of connection: crimp Contacts: RBC 162/1	N11R AM, N11R AM 5, N11R BM FA, N11R DM	932 630-106
N11R EM	SW 19 Pg 11  M26x1.5.  M26x1.5.  M28x 19  M26x1.5.  M28x 19  M28x	11 + PE	Cable connector, straight Type of connection: crimp Contacts: RSC 162/1	N11R AF, N11R AF 5	932 631-106
N11R AM	©29,5-0.2 XX XX YX	11 + PE	Panel-mounted connector with metal screw-in casing, PG 13,5 Type of connection: crimp Contacts: RSC 162/1	N11R FF, N11R EF	932 626-106
N11R AM 5	029,5-02 Pg 13,5 90 19,8-03 M26x1,5 SW 22	11 + PE	Panel-mounted connector with metal screw-in insert in the ca- sing (metal segment), PG 13,5 Type of connection: crimp Contacts: RSC 162/1	N11R FF, N11R EF	932 627-106







#### **NR-series**



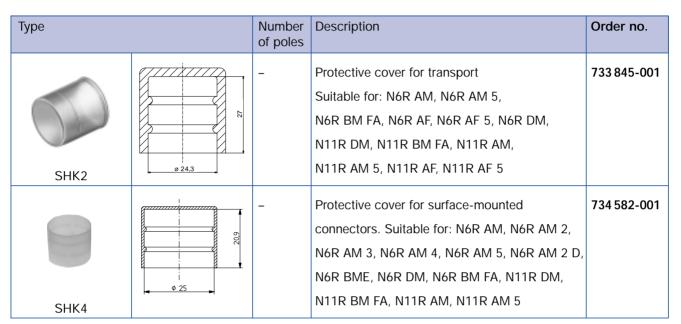
Туре		Number of poles	Description	Suitable for	Order no.
N11R AF	©29,5-0,2 Pg 13.5 SW 27 \$\int_{27.47}^{\infty} \int_{28.4}^{\infty} \	11 + PE	Panel-mounted socket with metal screw-in casing, PG 13,5 Type of connection: crimp Contacts: RBC 162/1	N11R FM, N11R EM	932 624-106
N11R AF 5	©29,5-0.2 Pg 13,5 SW 27	11 + PE	Panel-mounted socket with metal screw-in insert in the casing (metal segment), PG 13,5  Type of connection: crimp  Contacts: RBC 162/1	N11R FM, N11R EM	932 625-106
NC 6		-	Coding, complete	All connectors N6R	831 002-011
N6R-13		-	Central screw with knurled head	Cable connectors and sockets N6R	731 735-001
SHK1	Ø 27,3	-	Protective cover for transport	N6R AM 2, N6R AM 3, N6R AM 4, N6R AM 2 D	733 849-011







#### **NR-series**



Contacts and accessories can be found in chapter: Contacts, crimping systems, accessories

#### **Notes**







#### **CM-series**



#### **Product description**

Robust, universal circular connector for control lead connections in hydraulic- and pneumatic systems and in special machinery engineering.

- Compatible with connectors according to MIL-C 5015 resp. VG 95 342
- Housing made of impact-resistant plastic, glass-fibre-reinforced, with screw locking systems for troublefree, permanent connections
- Easy handling for a quick assembly with integrated strain relief

#### Basic data

Operating voltage: 50 V AC / DC Operating current: max. 16 A Protection class: IP 67 Pollution severity class: 3

Outer cable diameter: 8mm - 14mm

Contact surface: Cu Zn/Ag Type of connection: solder

Туре		Number of poles	Description	Order no.
CM 06 EA 14S-7 S	90 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3	Cable socket, straight design, strain relief by means of a clamp Operating current: 10 A	933 049-100
CM 06 EA 14S-2 S	78 no. x 28.6 % 17.78-20 UNEF-2B	4	Cable socket, straight design, strain relief by means of a clamp Operating current: 10 A	932 457-100
CM 06 EA 14S-5 S	78 max. 25. T/8-20 UNEF-2B	5	Cable socket, straight design, strain relief by means of a clamp Operating current: 10 A	932 841-100
CM 06 EA 14S-6 S	78 max. 25 JNFF-2B	6	Cable socket, straight design, strain relief by means of a clamp Operating current: 10 A	932 458-100









Туре		Number of poles	Description	Order no.
CM 06 EA 14S-61 S	0 28.6 °C 28.6 °C 7/8-20 UNEF-2B	6 + PE	Cable socket, straight design, strain relief by means of a clamp Operating voltage: 10 A	932 460-100
CM 06 EA 20-15 S	20 - 25 u	7	Cable socket, straight design, strain relief by means of a clamping cage Operating current: 16 A	933 052-100
CM 06 EA 20-7 S	2 P P P P P P P P P P P P P P P P P P P	8	Cable socket, straight design, strain relief by means of a clamping cage Operating current: 10 A	932 842-100
CM 06 EA 20-27 S	F2. 5. 5. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	14	Cable socket, straight design, strain relief by means of a clamping cage Operating current: 5 A	933 067-100
CM 06 EA 20-29 S		17	Cable socket, straight design, strain relief by means of a clamping cage Operating current: 4 A	933 068-100









Туре		Number of poles	Description	Order no.
CM 02 E 14S-7 P	78.70 LINET 7A.	3	Surface-mounted connector with flange, contacts with solder bucket Operating current: 10 A	933 047-100
CM 02 E 14S-2 P	778-20 LIMIT - 2A	4	Surface-mounted connector with flange, contacts with solder bucket Operating current: 10 A	932 449-100
CM 02 E 14S-5 P	3.4 · 62 · 63 · 63 · 63 · 63 · 63 · 63 · 63	5	Surface-mounted connector with flange, contacts with solder bucket Operating current: 10 A	932 843-100
CM 02 E 14S-6 P	7/9/20 UNET -2A	6	Surface-mounted connector with flange, contacts with solder bucket Operating current: 10 A	932 451-100
CM 02 E 14S-61 P	78.50 UNET -20	6 + PE	Surface-mounted connector with flange, contacts with solder bucket  Operating current: 16 A	932 455-100









Туре		Number of poles	Description	Order no.
CM 02 L 14S-61 P F	70. 20 UNET 2A.	6 + PE	Surface-mounted connector with flange, tipped with filters 6x1 nF Operating current: 2 A	932 988-100
CM 02 E 20-15 P	13-16 UNEF 2A 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	7	Surface-mounted connector with flange, contacts with solder bucket Operating current: 16 A	933 050-100
CM 02 E 20-7 P	TO B DEF JA	8	Surface-mounted connector with flange, contacts with solder bucket  Operating current: 10 A	932 845-100
CM 02 E 20-27 P	15-16 LPGF-2A- 9-17-5	14	Surface-mounted connector with flange, contacts with solder bucket Operating current: 5 A	933 062-100
CM 02 E 20-29 P	131-16 LMF 7A  151-16	17	Surface-mounted connector with flange, contacts with solder bucket Operating current: 4 A	933 063-100









Туре		Number of poles	Description	Order no.
CM 02 SD 14S		-	Protection cap for surface-mounted connectors 3 – 6-pole	831 620-100
CM 02 SD 20		-	Protection cap for surface-mounted connectors 7 – 17-pole	831 766-100
CM 06 SD 14S		-	Protection cap  for cable sockets 3 – 6-pole	831 621-100
CM 06 SD 20		-	Protection cap  for cable sockets 7 – 17-pole	831 767-100
	23 30	-	Flat gasket NBR	733 321-002
CM 02 D 14S	- SU			





## **CM-series**





Туре		Number of poles	Description	Order no.
	294 3.4 3.6 3.6 3.6	_	Flat gasket NBR	733 818-002
CM 02 D 20	<del>                                     </del>			
	0 27,3	-	Protective cover for surface-mounted connectors	733 849-001
SHK 1	Ø 24,1			

### **Notes**







#### **R-series**



#### **Product description**

15- and 29-pole connector with additional earth contact. Equipped with either flat or fork-type contacts.

- Manifold application in telecommunications, measurement and control systems as well as in medical technology, test bays and in consumer electronics
- Vibration-proof connection by automatic interlock of contact bearers
- Coding by variation of position and colour of coding pins
- Suitable for integration into surfacemounted and panel-mounted trunking systems
- VDE-expertise with process inspection

#### Basic data

Operating voltage: max. 250 V AC / DC
Operating current: 5 A AC / DC
Protection class: IP 42

Type of connection: solder / crimp Outer cable diameter: 5mm - 12mm

Contact material: Cu Zn Contact surface: Gal Ni3 SN 5 / solder Gal Ni2 SN 4 / crimp Colour of product: black

Туре		Number of poles	Description	Order no.
RW 15	553 52	15 + PE	Angled socket/respconnector with protective cover, strain relief and lock, can be equipped with flat and fork-type contacts as desired  Type of connection: solder / crimp	973 654-100
RSW 15	S	15 + PE	Angled connector with protective cover, strain relief and lock, set comprises: protective cover, contact bearer, contacts, dust cap  Type of connection: solder	973 680-001 black 973 680-002 pearl white
RSWC 15	S	15 + PE	Angled connector with protective cover, strain relief and lock, set comprises: protective cover, contact bearer, contacts, dust cap  Type of connection: crimp	973 682-001
RW 29	72.3 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	29 + PE	Angled socket/respconnector with protective cover, strain relief and lock, can be equipped with flat and fork-type contacts as desired  Type of connection: solder / crimp	973 763-100





### **R-series**





Туре		Number of poles	Description	Order no.
RSWC 29	723 (18 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	29 + PE	Angled connector with protective cover, strain relief and lock, set comprises: protective cover, contact bearer, contacts, dust cap  Type of connection: crimp	973 768-001
RD 512	20	15	Dust cap for lead diameter 5-12 mm, required for IP 42	973 666-100
RD 716	24	29	Dust cap for lead diameter 7-16 mm, required for IP 42	973 765-100
RE 15	2.5 2.5 4.61 2.5 4.61 4.61 5.0 4.61 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	15 + PE	Panel-mounted socket/respconnector with two-hole flange, can be equipped with flat and fork-type contacts as desired Type of connection: solder / crimp	973 653-100
RBE 15	2.5 	15 + PE	Panel-mounted socket with two-hole flange, set with fork-type contacts  Type of connection: solder	973 681-001







#### **R-series**



Туре		Number of poles	Description	Order no.
RE 29	55.5 55.5 55.5 55.5 50.0	29 + PE	Panel-mounted socket/respconnector with two-hole flange, can be equipped with flat and fork-type contacts as desired Type of connection: solder / crimp	973 764-100
RAUP 15		15 + PE	15-pole insert for panel-mounted sockets according to DIN 49 073 (58x33 mm, 58x40 mm) with AR 20, suitable for surface mounting Type of connection: solder / crimp	973 852-135 pearl white
AR 20		-	Frame for surface mounting	<b>933 650-001</b> white
RC 600	3 1	_	Coding	973 667-100 black 973 667-101 red



# Notes











#### **ME-series**



#### **Product description**

Angled connector with small dimensions and a large number of contacts. 6- pole to 24-pole.

- For connections in telecommunications, emergency call systems, paging and intercom equipment
- Connections in control and measurement systems, house installations and laboratory equipment

#### Basic data

Operating voltage: 60V AC / 75V DC Operating current: 10 A AC / DC 3mm contacts

4 A AC / DC 2mm contacts 1 A AC / DC GSK types Outer lead diameter: 9,5mm - 14mm

Protection class: IP 30
Type of connection: solder

Socket clamp for GSK types

Туре		Number of poles	Description	Order no.
MES 60 BZ	35 35 36 38 88 93 93 94 94 95 96 96 97 97 97 97 97 97 97 97 97 97	6	Cable connector with strain relief Contacts: 2x3 mm, 4x2 mm Colour: contact bearer black Casing black, grey, white RAL 1014	973 016-100 black 973 016-114 grey 973 016-135 white
MES 100	51 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10	Cable connector with strain relief Contacts: 2x3 mm, 8x2 mm Colour: contact bearer black Casing black, white	973 017-100 black 973 017-190 white
MES 120	45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12	Cable connector with strain relief Contacts: 12x2 mm Colour: contact bearer grey RAL 7032 Casing white RAL 1013	973 089-135
MES 160	57.5 (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	16	Cable connector with strain relief Contacts: 2x3 mm, 14x2 mm Colour: contact bearer black Casing black or white RAL 1013	973 018-100 black 973 018-190 white









Туре		Number of poles	Description	Order no.
MES 240	69.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	24	Cable connector with strain relief Contacts: 4x3 mm, 20x2 mm Colour: contact bearer black Casing black or white RAL 1013	973 019-100 black 973 019-190 white
MEK 60 BZ	35	6	Cable socket with strain relief Contacts: 2x3 mm, 4x2 mm Colour: black	973 025-100
MEK 100	51 (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	10	Cable socket with strain relief Contacts: 2x3 mm, 8x2 mm Colour: black	973 033-100
MEK 160		16	Cable socket with strain relief Contacts: 2x3 mm, 14x2 mm Colour: black	973 014-100
MESEI 60	A Land State of the state of th	6	Panel-mounted connector for injection moulding Contacts: 2x3 mm, 4x2 mm Colour: black	973 020-100









Туре		Number of poles	Description	Order no.
MESEI 60 F	47 47 40 40 40 40 40 40 40 40 40 40	6	Panel-mounted connector with flange Contacts: 2x3 mm, 4x2 mm Colour: black	973 021-100
MESEI 100	39.5	10	Panel-mounted connector with 4-hole flange Contacts: 2x3 mm, 8x2 mm Colour: black	973 006-100
MESEI 160	44 34 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	16	Panel-mounted connector with 4-hole flange Contacts: 2x3 mm, 8x2 mm Colour: black	973 023-100
MEB 60 HS		6	Panel-mounted socket with flange Contacts: 2x3 mm, 4x2 mm Colour: black	973 087-100
MEB 100 S	57 43 3 3 3 3 3 3 3 3 3 3 3 3 3	10	Panel-mounted socket with 2-hole flange Contacts: 2x3 mm, 8x2 mm Colour: black	973 088-100









Туре		Number of poles	Description	Order no.
MEB 100 A	29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5	10	Panel-mounted socket with 4-hole flange Contacts: 2x3 mm, 8x2 mm Colour: black	973 002-100
MEB 160		16	Panel-mounted socket with 4-hole flange Contacts: 2x3 mm, 14x2 mm Colour: black	973 009-100
MEB 240	150 140 100 100 100 100 100 100 10	24	Panel-mounted socket with 4-hole flange Contacts: 4x3 mm, 20x2 mm Colour: black	973 013-100
MED 60	592	6	Surface-mounted socket round Contacts: 2x3 mm, 4x2 mm	973 012-100 black 973 012-114 grey
MED 160	00000 0000 00000 00000 00000 00000 00000	16	Surface-mounted socket Contacts: 2x3 mm, 14x2 mm Colour: black	973 004-100









Туре		Number of poles	Description	Order no.
MED 600 GSK		6	Surface-mounted socket square Contacts: 2x3 mm, 4x2 mm Colour: grey	973 346-114
MEDU 600	037 059 040 040 040 040 040 040 040 040 040 04	6	Screw-in wall outlets for panel-mounted sockets Contacts: 2x3 mm, 4x2 mm Colour: white RAL 1013	973 077-135
MEDU 600 GSK	087 0367 38 max.	6	Screw-in wall outlets for panel-mounted sockets and claw-fastening of insert A (58 x 33) or B (58 x 40) DIN 49 073 Contacts: 2x3 mm, 4x2 mm	973 347-135 white RAL 1013
MEDU 1000	2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10	Screw-in wall outlets for panel-mounted sockets Contacts: 2x3 mm, 8x2 mm Colour: white RAL 1013	973 078-135
MEDU 1200 GSK	Cold I	12	Screw-in wall outlets for panel-mounted sockets and claw-fastening of insert A (58 x 33) or B (58 x 40) DIN 49 073 Contacts: 12x2 mm	<b>973 349-135</b> white RAL 1013





#### **ME-series**





Туре		Number of poles	Description	Order no.
MEDU 1600	582	16	Screw-in wall outlets for panel-mounted sockets Contacts: 2x3 mm, 14x2 mm Colour: white RAL 1013	973 079-135
MEDU 2400	0000 0000 0000 0000 0000 0000	24	Screw-in wall outlets for panel-mounted sockets Contacts: 4x3 mm, 20x2 mm Colour: white RAL 1013	973 080-135
AR 20		-	Frame for surface-mounting	933 650-001

#### **Notes**







#### **SP-series**



#### **Product description**

Subminiature connectors with 2mm contact spacing, 2-5-pole.

- For use in security systems, intrusion alarm systems, model-making and as versatile circuit board connector
- Moulded cable connectors and cable sockets in different lenghts and colours
- Straight and angled outgoing lead; suitable for round and ribbon cables or individual twisted leads
- Reliable connections and high quality:
- locking lug prevents unintentional release

#### Basic data

Operating voltage: 30V AC / 36V DC

Operating current: 1,5 A
Pollution severity class: 2
Contacts: pin and spring fork

Pin diameter: 1mm Type of connection: solder Lead cross section: 0,14mm<sup>2</sup> Ambient temperature: -30 ... 90°C

Туре		Number of poles	Description	Order no.
SP SG 22 FA	000	2	Cable connector integrally extruded ribbon cable Cable length: 300 mm	932 797-100
SP SG 33 FA	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	3	Cable connector integrally extruded ribbon cable Cable length: 300 mm	932 798-100
SP SG 44 FF	1 = schwarz	4	Cable connector integrally extruded ribbon cable Cable length: 300 mm	932 662-100
SP SG 44 FH	20 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4	Cable connector integrally extruded ribbon cable, silver-grey Cable length: 300 mm	932 879-100







Hi Power

#### **SP-series**

Туре		Number of poles	Description	Order no.
SP SG 55 RA	2 gradycent/vert 2 gradycent/vert 2 gradycent/vert 2 gradycent/vert 3 gradycent/vert 4 event/winthibabric 5 gradycytyro	5	Cable connector integrally extruded round cable Cable length: 500 mm	932 244-200
SP SW 44 EA	100 miles	4	Angled cable connector with integrally extruded individual leads Cable length: 700 mm	931 738-300
SP SW 53 EA	1 - violette-violet Violet 2 - rotredfouge 4 - rotredfouge 4 - rotredfouge 1 - schwarzblack/noir	5	Angled cable connector with three integrally extruded individual leads Cable length: 170 mm	931 736-100
SP SW 55 EA	1 - Interopered 1 - Interopered 2 - January   4.6   4.6   4.5   4.	5	Angled cable connector with integrally extruded individual leads Cable length: 287 mm	931 362-100
SP SW 55 RA	1 - gradyprodycur 2 - gradyprodycur 3 - gradyprodycur 5 - gradyprodycur 5 - gradyprodycur 5 - gradyprodycur 11,5	5	Angled cable connector integrally extruded round cable Cable length: 300 mm	932 246-100







## **SP-series**



Туре		Number of poles	Description	Order no.
SP BG 22 FA	22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2	Cable socket integrally extruded ribbon cable Cable length: 300 mm	932 864-100
SP BG 33 FA	R	3	Cable socket integrally extruded ribbon cable Cable length: 300 mm	932 865-100
SP BG 44 FG	10.1 10.1	4	Cable socket integrally extruded ribbon cable, silver-grey Cable length: 1500 mm	932 803-100
SP BG 44 FG	10.1 10.1	4	Cable socket integrally extruded ribbon cable, silver-grey Cable length: 5000 mm	932 803-300
SP BG 44 FG	10.1 10.1	4	Cable socket integrally extruded ribbon cable, silver-grey Cable length: 10000 mm	932 803-800







Hi Power

#### **SP-series**

Туре		Number of poles	Description	Order no.
SP S 4	80 30.7	4	Pin strip withstanding extreme mechanical stress thanks to locking hoocks, Soldering time: max. 3s Soldering tip temperature: max. 350 C	932 237-100
SP S 5	8.9	5	Pin strip withstanding extreme mechanical stress thanks to locking hoocks, Soldering time: max. 3s Soldering tip temperature: max. 350 C	932 238-100
SP B 3	7 88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3	Socket strip solder tabs, seating support prevents angled displacement	932 800-100
SP B 4	2.5 7 5.5 7 5.5 7 5.5 7 7 5.5 7 7 7 7 7 7	4	Socket strip solder tabs, seating support prevents angled displacement	932 239-100
SP B 5	2.5	5	Socket strip solder tabs, seating support prevents angled displacement	932 240-100







## **SP-series**



Туре		Number of poles	Description	Order no.
	11.6 11.6	4	Protection cap for all 4-pole pin strips	733 532-100
SP SG 44 FB-4	4.2			
	14.2	4	Universal cover for 4- and 5-pole pin and socket strips	732 984-300
SP H 45	6.3			

#### **Notes**



# Notes











Contacts		Description	Quantity boxed-pieces	Order no.
RBC 162/1	2 22	Rolled engaging crimp contact (socket), ø 1.6 mm, BO crimp CuZn/silver-plated Range of cross-section: 0,14-0,5 mm² Contacts for NR-series	100 pieces	733 383-021
RBCB 162/1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Rolled engaging crimp contact (socket), Ø 1,6 mm, BO crimp CuZn/silver-plated Range of cross-section: 0,14-0,5 mm <sup>2</sup> Contacts for NR-series	200 pieces coiled 2000 pieces coiled	733 385-002 733 385-001
RSC 162/1		Rolled engaging crimp contact (pin contact), Ø 1,6 mm, BO crimp CuZn/silver-plated Range of cross-section: 0,14-0,5 mm² Contacts for NR-series	100 pieces	733 384-021
RSCB 162/1		Rolled engaging crimp contact (pin contact), ø 1,6 mm, BO crimp CuZn/silver-plated Range of cross-section: 0,14-0,5 mm² Contacts for NR-series	200 pieces coiled 2000 pieces coiled	733 386-002 733 386-001
RBC 162	2 232	Rolled engaging crimp contact (socket), ø 1,6 mm, BO crimp CuZn/silver-plated Range of cross-section: 0,5 -1,5 mm² Contacts for NR-series	10 pieces 100 pieces	731 724-211 731 724-221



Contacts		Description	Quantity boxed-pieces	Order no.
RBCB 162	2 03.20	Rolled engaging crimp contact (socket), ø 1,6 mm, BO crimp CuZn/silver-plated Range of cross-section: 0,5 -1,5 mm <sup>2</sup> Contacts for NR-series	200 pieces coiled 2000 pieces coiled	731 726-202 731 726-201
RSC 162		Rolled engaging crimp contact (pin contact), ø 1,6 mm, BO crimp CuZn/silver-plated Range of cross-section: 0,5 -1,5 mm² Contacts for NR-series	10 pieces 100 pieces	731 725-011 731 725-021
RSCB 162		Rolled engaging crimp contact (pin contact), Ø 1,6 mm, BO crimp CuZn/silver-plated Range of cross-section: 0,5 -1,5 mm² Contacts for NR-series	200 pieces coiled 2000 pieces coiled	731 727-002 731 727-001
RGL 060	233	Engaging solder contact, fork-type contact CuZn/silver-plated, CuZn/tin-plated Range of cross-section: up to 0,5 mm² Contacts for R-series	100 pieces silver-plated 100 pieces tin-plated	973 874-021 973 665-021
RML 060	923 923 922 922 922	Engaging solder contact, flat contact CuZn/silver-plated, CuZn/tin-plated Range of cross-section: bis 0,5 mm² Contacts for R-series	100 pieces 100 pieces tin-plated	973 872-021 silver-plated 973 664-021





Contacts		Description	Quantity boxed-pieces	Order no.
RMC 060	15 SZ 21	Engaging solder contact, flat contact BO crimp CuZn/tin-plated Range of cross-section: up to 0,5 mm² Contacts for R-series	100 pieces	973 735-021
RMCB 060	5522	Engaging solder contact, flat contact BO crimp CuZn Range of cross-section: up to 0,5 mm <sup>2</sup> Contacts for R-series	8000 pieces coiled 8000 pieces coiled 15000 pieces coiled	973 870-001 silver-plated 973 737-001 tin-plated 973 737-002 tin-plated
RSL 060	9 E	Protective contact for fork-type contact RGL 060, leading 2 mm in assembled condition, CuZn/tin-plated Range of cross-section: up to 0.5 mm² Contacts for R-series	10 pieces	973 663-011
RGCB 060	10 S S 2 1	Engaging crimp contact, fork-type contact, BO crimp CuZn/silver-plated Range of cross-section: up to 0,5 mm² Contacts for R-series	8000 pieces coiled	973 871-001
RMC 280		Engaging crimp contact, flat contact, BO crimp CuZn/tin-plated Range of cross-section: 0,5-1 mm² Contacts for G-series	100 pieces	731 991-021



Crimping tools		Description	Order no.
XZC 0700	861	Manual crimping tool for B and O crimp with 3 profiles. Stroke length 5.5 mm. Weight approx. 270 g Profile 1: 0,14-0,5 mm² (BO); Profile 2: 0,5-1,5 mm² (B) Profile 3: 0,5 -1,5 mm² (BO)	932 507-001
XZC 0720		Manual crimp feeder with XZC 0700 but with mount for coil. The tool is fitted with a detent, ensuring that it cannot be opened until the crimp connection has been completed  Profile 1: 0,14-0,5 mm²; Profile 2: 0,5-1,5 mm²	932 558-001

Ejector tools		Description	Order no.
NIMA OZO	0.05	Ejector tool for flat and fork-type contacts R-series	973 669-001
XWA 060	= 0.5 = 0.5	Ejector tool for crimping contacts ø 1.6 mm ST-series (5-pole), NR-series	931 812-001





# Notes





## Connectors for consumer electronics





#### **Connectors for consumer electronics**



#### MAS/MAK-series



#### **Product description**

Shielded miniature multipole connectors, 3- pole to 8-pole.

- Numerous different versions ensure a variety of uses in audio- and video equipment, measurement and control instruments, on projectors and in the computer technology
- Safe connection of connector, couplings, panel-mounted sockets and panel-mounted connectors with screw locking system
- All cable connectors feature clamping tabs to relieve the strain
- UM types as standard, but industry package, quantity boxed: 1000 units

#### Basic data

Operating voltage: 34 V AC / DC Operating current: 4 A Flashover voltage: 1 kV Insulation resistance:  $10^{11}\,\Omega$  Type of connection: solder Plug illustrations: EN 60130-9

Туре		Number of poles	Description	Colour	Order no.
MAS 30 MAS 30 UM	9 13.2	3	Connector with insulated handle, solder connection	grey UM black UM grey	930 014-517 931 002-100 931 002-117
MAS 40 MAS 40 UM	7 - 7 - 0 13.2	4	Connector with insulated handle, solder connection	grey UM grey	930 015-517 931 018-117
MAS 50 MAS 50 UM	9 1 1 2 2 0 13.2	5	Connector with insulated handle, solder connection	grey UM black UM grey	930 016-517 931 034-100 931 034-117
MAS 50 S MAS 50 S UM	8 8 9 10 13.2	5	Connector with insulated handle, solder connection	black grey UM black UM grey	930 131-500 930 131-517 931 036-100 931 036-117











Туре		Number of poles	Description	Colour	Order no.
MAS 50 W	9 LE 0 13.2	5	Connector with insulated handle, solder connection	grey	930 805-517
MAS 60 MAS 60 UM	- 7	6	Connector with insulated handle, solder connection	black grey UM black UM grey	930 017-500 930 017-517 931 044-100 931 044-117
MAS 70 S MAS 70 S UM	7 7 7 7 7	7 3 3 7 4 1 1	Connector with insulated handle, solder connection	black grey UM black UM grey	930 356-500 930 356-517 931 050-100 931 050-117
MAS 80 S MAS 80 S UM	9 1 7 7 7 8 8 8 8 13.2	8	Connector with insulated handle, solder connection	black grey UM black UM grey	930 298-500 930 298-517 931 183-100 931 183-117
MAS 80 SN MAS 80 SN UM	9 1 1 2 1 3	8	Connector with insulated handle, solder connection	black grey black UM grey UM	931 518-500 931 518-517 931 521-100 931 521-117









Туре		Number of poles	Description	Colour	Order no.
MAWI 30 B MAWI 30 B UM	1.5 31 = 52.5 Fur Kabel 0 6.5	3	Angled connector with insulated handle, solder connection	grey UM black UM grey	931 597-517 931 621-100 931 621-117
MAWI 40 B	1,5 2,1 31 -52,5 Fur Kabel 0 6,5	4 4 2 1	Angled connector with insulated handle, solder connection	grey	931 567-517
MAWI 50 B	1,5 31 = 52.5 For Kabel 0 6,5	5	Angled connector with insulated handle, solder connection	grey	931 569-517
MAWI 50 SB MAWI 50 SB UM	1.5 2.5 31 -52.5 Fur Kabel 6.5	5	Angled connector with insulated handle, solder connection	grey UM black UM grey	931 571-517 931 572-100 931 572-117
MAWI 60 B MAWI 60 B UM	1.5 31 = 52.5 Für Kabol 6.5	6	Angled connector with insulated handle, solder connection	grey UM black UM grey	931 573-517 931 574-100 931 574-117









Туре		Number of poles	Description	Colour	Order no.
MAWI 70 SB	1.5 2.5 31 - 52.5 Fur Kabel 6.5 6.5	7	Angled connector with insulated handle, solder connection	grey	931 575-517
MAWI 80 SB MAWI 80 SB UM	1.5 31 = 52.5 Für Kabel 6.5 0 13.2	8 5 3 8 1 7	Angled connector with insulated handle, solder connection	grey UM black UM black	931 740-517 931 741-100 931 741-117
MAWI 80 SN B MAWI 80 SN B UM	1.5 V L 0 31 = 52.5 Fur Kabel 0 6.5 0 13.2	8	Angled connector with insulated handle, solder connection	grey UM black UM grey	931 577-517 931 578-100 931 578-117
MASEI 3	28.5 22.2 22.2 27 27 27 27 27 27 27 27 27 27 27 27 27	3	Panel-mounted connector with flange, solder connection, die-cast casing and and flange,nickel-plated		930 063-500
MASEI 5 S	28.5 22.2 015.2 915.2 913.6	5	Panel-mounted connector with flange, solder connection, die-cast casing and and flange,nickel-plated		930 934-500









Туре		Number of poles	Description	Colour	Order no.
MAK 30 S MAK 30 S UM	92.5	3 1 (2)3	Coupling with insulated handle, solder connection	grey UM grey	930 149-517 931 080-117
MAK 40 MAK 40 UM	97.5	2 3 1 1 1 4	Coupling with insulated handle, solder connection	grey UM black UM grey	930 150-517 931 086-100 931 086-117
MAK 50	97.5 9 9 9 9 9 9	5	Coupling with insulated handle, solder connection	grey	930 151-517
MAK 50 S MAK 50 S UM	27.5	5	Coupling with insulated handle, solder connection	grey UM black UM grey	930 172-517 931 092-100 931 092-100
MAK 60 MAK 60 UM	97.5	6 3 4 1 5 5	Coupling with insulated handle, solder connection	grey UM black	930 152-517 931 100-100









Туре		Number of poles	Description	Colour	Order no.
MAK 70 S	937.5	7 1 1 6 7	Coupling with insulated handle, solder connection	grey	930 388-517
MAK 80 S	97.5 90 171 171 171 171 171 171 171 17	8	Coupling with insulated handle, solder connection	grey	930 348-517
MAK 80 SN	93.75	8	Coupling with insulated handle, solder connection	grey	931 519-517
MAB 3 S	28.5 22.2 7 8 1 1,21 1,21 9,61	3 1 2 3	Panel-mounted socket with flange	black	930 018-200
MAB 4	28.5 22.2 7 0 14.9 0 12.0 0 12.0	2 3 1 1 4	Panel-mounted socket with flange	black	930 009-200









Туре		Number of poles	Description	Colour	Order no.
MAB 5	28.5 22.2 22.2 3 14.9 9 17.2	5 2 1 1 1 5	Panel-mounted socket with flange	black	930 010-200
MAB 5 S	28.5 22.2 22.2 7 8.0 14.9 9.8 1.7 2.1	5 1 2 5 3	Panel-mounted socket with flange	black	930 071-200
MAB 6	28.5 22.2 22.2 7 6.0 1.7 9.0 1.7 9.0 1.7	6	Panel-mounted socket with flange	black	930 011-200
MAB 7 S	28.5 22.2 22.2 2 E E T 1 9 E E E E E E E E E E E E E E E E E E	7 4 2 5 1 6 7	Panel-mounted socket with flange	black	930 343-200
MAB 8 S	28.5 22.2 7 7 8 67 7 7	8 4 1 7 7 8	Panel-mounted socket with flange	black	930 345-200









Туре		Number of poles	Description	Colour	Order no.
MAB 8 SN	28.5 22.2 22.2 22.2 25.6 20.14.9 26.1	8 <sup>8</sup> <sup>2</sup> <sup>5</sup> <sup>1</sup> <sup>6</sup> <sup>7</sup> <sup>7</sup>	Panel-mounted socket with flange	black	931 613-200
MAB 5 SV	7 7 9 12	5	Panel-mounted socket for printed circuits, Plug-in direction perpendicular to the circuit board	black	930 777-200
MAB 6 V	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6	Panel-mounted socket for printed circuits, Plug-in direction perpendicular to the circuit board	black	930 812-200
MAB 7 SV	9 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12	7 1 1 6 1 7	Panel-mounted socket for printed circuits, Plug-in direction perpendicular to the circuit board	black	931 657-200
MAB 8 SN V	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8 4 1 1 7 1 8	Panel-mounted socket for printed circuits, Plug-in direction perpendicular to the circuit board	black	932 664-200









Туре		Number of poles	Description	Colour	Order no.
MAB 8 SV	9 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12	8 <sup>8</sup> <sup>2</sup> <sup>5</sup> <sup>3</sup> <sup>7</sup>	Panel-mounted socket for printed circuits, Plug-in direction perpendicular to the circuit board	black	931 735-200
MAB 3 SH	3.5 10 2.2 2.1 Expenses 0.5 mm tiefer	3 1 2 3	Panel-mounted socket for printed circuits, Plug-in direction parallel to the circuit board, Board thickness 1,5 mm	black	930 360-200
MAB 5 SH	3.5. 10. 4.2 Ensatz O.5 mm lider	5	Panel-mounted socket for printed circuits, Plug-in direction parallel to the circuit board, Board thickness 1,5 mm	black	931 744-200
MAB 5 WH		5	Panel-mounted socket for printed circuits, Plug-in direction parallel to the circuit board, Board thickness 1,5 mm	black	930 236-200
MAB 6 H	35 10 42 35	6 3 2 4 1 5 5	Panel-mounted socket for printed circuits, Plug-in direction parallel to the circuit board, Board thickness 1,5 mm	black	930 778-200









Туре		Number of poles	Description	Colour	Order no.
MAB 7 SH-L	3.5 10 4.2	7 1 1 6 1 1 7	Panel-mounted socket for printed circuits, Plug-in direction parallel to the circuit board, Board thickness 1,5 mm	black	930 518-200
MAB 8 SH	3.5 10 42 21 22 21 25 21	8 6 2 5 1 5 3 7	Panel-mounted socket for printed circuits, Plug-in direction parallel to the circuit board, Board thickness 1,5 mm	black	931 399-200
MABU LD-V	52 min.	-	Connecting socket for 58 mm panel-mounted sockets, can be equiped with flanged panel-mounted sockets, e.g. MAB 5S	ivory	930 698-108
AR 20		-	Surface-mounted frame for MABU LD-V	ivory	933 650-001
MAS 3100 MAS 3100 UM	9 9 9 M16 x 0.75	3 ( • • • )1	Connector with locking screw, solder connection	grey UM grey	930 304-517 931 068-117









Туре		Number of poles	Description	Colour	Order no.
MAS 4100 MAS 4100 UM	27 M16 x 0.75	4	Connector with locking screw, solder connection	grey UM black UM grey	930 963-517 931 173-100 931 173-117
MAS 5100 MAS 5100 UM	27 M16 x 0.75	5	Connector with locking screw, solder connection	grey UM black UM grey	930 964-517 931 189-100 931 189-117
MAS 5100 S MAS 5100 S UM	27 M16 x 0.75	5	Connector with locking screw, solder connection	grey UM grey	930 965-517 931 174-117
MAS 6100 MAS 6100 UM	97 M16 x 0.75	6 3 2 5 1	Connector with locking screw, solder connection	grey UM grey	930 966-517 931 151-117
MAS 7100 S MAS 7100 S UM	27 M16 x 0.75	7 3 3 1 1	Connector with locking screw, solder connection	grey UM grey	930 688-517 930 689-117











Туре		Number of poles	Description	Colour	Order no.
MAS 8100 S	97 M16 x 0.76	8 3 4 3 4 7	Connector with locking screw, solder connection	grey UM black UM grey	930 539-517 931 240-100 931 240-117
MAS 8100 SN UM	27 - 41 - M16 x 0.75	8	Connector with locking screw, solder connection	UM black UM grey	931 750-100 931 750-117
MAWI 3100	90 P P P P P P P P P P P P P P P P P P P	3	Angled connector with locking screw, solder connection	grey	932 906-117
MAWI 4100	-52.5 -31 -31 -31 -31 -31 -31 -31 -31 -31 -31	4	Angled connector with locking screw, solder connection	grey	932 907-117
MAWI 5100	#52.5 O O O O O O O O O O O O O O O O O O O	5 4 ••• 2 5	Angled connector with locking screw, solder connection	grey	932 908-117









Туре		Number of poles	Description	Colour	Order no.
MAWI 5100 S	-52.5 -0.0 e -31 -0.0	5	Angled connector with locking screw, solder connection	grey	932 909-117
MAWI 6100	20 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	6 3 2 5 1	Angled connector with locking screw, solder connection	grey	932 910-117
MAWI 8100 S	20 span	8	Angled connector with locking screw, solder connection	grey	932 912-117
MASEI 3100	7 7 0 0 13.2 M16 x 0.75	3	Panel-mounted connector with locking screw, solder connection	grey	930 296-517
MASEI 4100	7 00 01 01 01 01 01 01 01 01 01 01 01 01	4 4 4 1	Panel-mounted connector with locking screw, solder connection	grey	930 955-517









Туре		Number of poles	Description	Colour	Order no.
MASEI 5100	7 7 M18x0.75 0 3.2 M16 x 0.75	5	Panel-mounted connector with locking screw, solder connection	grey	930 956-517
MASEI 5100 S	7 7 M18x0,75 Q Q Q Q M16x0,75	5 3 4 1	Panel-mounted connector with locking screw, solder connection	grey	930 957-517
MASEI 6100	7 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 3 4 2 5 1	Panel-mounted connector with locking screw, solder connection	grey	930 958-517
MAK 3100 S MAK 3100 S UM	37 MI 600/75	3 1 2 3	Coupling with locking screw, solder connection	grey UM grey	930 764-517 931 110-117
MAK 4100 MAK 4100 UM	37 MIBAO775 - 19 19 19 19 19 19 19 19 19 19 19 19 19	2 3 1 1 1 4	Coupling with locking screw, solder connection	grey UM black UM grey	930 959-517 931 175-100 931 175-117









Туре		Number of poles	Description	Colour	Order no.
MAK 5100 MAK 5100 UM	37. MH6x0.75	5 2 1 1 5	Coupling with locking screw, solder connection	grey UM black UM grey	930 960-517 931 176-100 931 176-117
MAK 5100 S MAK 5100 S UM	37 M1650/75	5	Coupling with locking screw, solder connection	grey UM black UM grey	930 961-517 931 177-100 931 177-117
MAK 6100 MAK 6100 UM	37 MIGNO 75 19 19 19 19 19 19 19 19 19 19 19 19 19	6 3 4 1 5	Coupling with locking screw, solder connection	grey UM grey	930 962-517 931 178-117
MAK 7100 S MAK 7100 S UM	37 MH66075	7 4 2 5 1 6 7	Coupling with locking screw, solder connection	grey UM grey	930 682-517 930 690-117
MAK 8100 S MAK 8100 S UM	37 MH6A078	8 4 1 7 1 7 1 8	Coupling with locking screw, solder connection	grey UM black UM grey	930 538-517 931 127-100 931 127-117









Туре		Number of poles	Description	Colour	Order no.
MAK 8100 SN UM	37. MH6x0.75	8 2 5 1 5 3 6 7	Coupling with locking screw, solder connection	UM black UM grey	931 765-100 931 765-117
MAB 3100 S	139 M18×0752 205 135 135 135 135 135 135 135 135 135 13	3	Panel-mounted socket with locking screw, solder connection, not shielded	black grey	930 303-500 930 303-517
MAB 4100	15 M18x 07.2 2005 2005	4 2 1 1 1 1	Panel-mounted socket with locking screw, solder connection, not shielded	grey	930 951-517
MAB 5100	77 739 739 739 739 739 739 739 739 739 7	5 2 1 1 1 5	Panel-mounted socket with locking screw, solder connection, not shielded	grey	930 952-517
MAB 5100 S	15.00 MIES 0.02 2.00 MIES 0.00	5 1 1 1 3	Panel-mounted socket with locking screw, solder connection, not shielded	black grey	930 953-500 930 953-517









Туре		Number of poles	Description	Colour	Order no.
MAB 6100	139 15 15 135 135 135 135 135 139	6 2 1 1 5	Panel-mounted socket with locking screw, solder connection, not shielded	black grey	930 954-500 930 954-517
MAB 7100 S	139 National	7 1 1 6 1 1 3	Panel-mounted socket with locking screw, solder connection, not shielded	grey	931 351-517
MAB 8100 S	15 15 139 135 135 135 139	8	Panel-mounted socket with locking screw, solder connection, not shielded	grey	930 537-517
MAB 8100 SN	139 M18x0222 200 200 200 200 200 200 200	8	Panel-mounted socket with locking screw, solder connection, not shielded	black grey	931 749-500 931 749-517
MAB 4100 V	2.6 ST	2 3	Panel-mounted socket with locking screw, for print assembly, solder connection, not shielded	grey	932 254-517









Туре		Number of poles	Description	Colour	Order no.
MAB 5100 SV	2.6 © 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5	Panel-mounted socket with locking screw, for print assembly, solder connection, not shielded	grey	932 201-517
MAB 6100 V	2.0 Sin	6 3 4 1 5	Panel-mounted socket with locking screw, for print assembly, solder connection, not shielded	grey	932 202-517
MAB 7100 SV	2.6 Sign (1)	7 1 2 1 6 7	Panel-mounted socket with locking screw, for print assembly, solder connection, not shielded	grey	932 423-517
MAB 8100 SV	\$1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 4 1 7 7 1 8	Panel-mounted socket with locking screw, for print assembly, solder connection, not shielded	grey	932 203-517
MAB 4500 V	M18 x 0.75  2 d  1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 3	Panel-mounted socket with locking screw, for installation in rear panels; max. 4 mm, solder connection, not shielded	grey	933 053-517









Туре		Number of poles	Description	Colour	Order no.
MAB 5500 SV	M8 x 0.75  2 6  1 12  4 20  4	5 2 1 1 1 5	Panel-mounted socket with locking screw, for installation in rear panels; max. 4 mm, solder connection, not shielded	black grey	932 885-500 932 885-517
MAB 8500 SV	M18 x 0.75  2.6  2.7  2.7  2.7  2.7  2.7  2.7  2.7	8	Panel-mounted socket with locking screw, for installation in rear panels; max. 4 mm, solder connection, not shielded	grey	933 141-517
MAB 8500 SN V	M8 x 0.75  2.6  2.6  2.7  2.7  2.7  2.7  2.7  2.7	8 1 1 1 1 1 1 1 1 1 1 1 1 1	Panel-mounted socket with locking screw, for installation in rear panels; max. 4 mm, solder connection, not shielded	grey	933 058-517



# Notes











#### MIS/MIK-series



#### **Product description**

- Small, compact size, large number of poles
- Shielded miniature multiple connectors, 10- and 14-pole according to DIN EN 60 130-9
- For the use in electrical and electronic control of slide and film projectors, picture, film and television cameras as well as in measurement
- and control systems and in medical technology
- Easy and quick assembly, contact plate of the 14-pole connector is made up of 3 solder levels. All cable connectors include clamping lugs to relieve the strain on the connected cable
- Are of the same size as the connectors in the MAS/MAK-series

#### Basic data

Operating voltage: 34 V AC / DC Operating current: max. 3 A AC / DC

Protection class: IP 30

Contact surface: tin-plated brass

Туре		Number	Description	Order no.
		of poles		
	21.75 4 8 9 9 9 9 9 9 9 9 9 9 9 9 9	10	Connector with solder connection	<b>931 867-517</b> grey
MIS 100	<u> ∞ 13,2</u>			
	9	10	Connector with solder connection, not assembled	931 826-100 black 931 826-117 grey
MIS 100 UM	ø 13,2			
	97.5 100 Kabel 6 5.5 17.	14	Connector with solder connection	932 222-500 black 932 222-517 grey
MIS 140	<u>  0 13,2</u>			
	31 -52.5 -50.5 -50.5 -50.5	14	Angled connector with solder connection	932 943-100 black 932 943-117 grey
MIWI 140	ø 13,2			





#### MIS/MIK-series





Туре		Number of poles	Description	Order no.
MIB 100 V	13.6	14	Panel-mounted socket with solder tabs, direction of insertion perpendicular to the circuit board, solder connection	<b>932 255-500</b> black
MIB 140	28 22.2 22.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2	14	Panel-mounted socket with solder lugs, flange fixture, solder connection	<b>931 842-500</b> black
MIB 100 VA		10	Panel-mounted socket with solder tabs, direction of insertion perpendicular to the circuit board, solder connection, with switch, (closing contact) without shielding	<b>932 315-500</b> black
MIB 140 VA	2 17 17 17 17 17 17	14	Panel-mounted socket with solder tabs, direction of insertion perpendicular to the circuit board, solder connection, with switch, (closing contact) without shielding	<b>932 428-500</b> black
MIS 1400 AU	8.4 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	14	Connector with solder connection	<b>932 219-517</b> grey







#### MIS/MIK-series



Туре		Number of poles	Description	Order no.
MIS 1400 AU UM	8.4 4 4 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14	Connector with solder connection, not assembled	<b>932 173-117</b> grey
MIK 1400 AU	For Kabel 9 5.5	14	Coupling with solder connection	<b>932 220-517</b> grey
MIK 1400 AU UM	Fir Xabel e 5.5	14	Coupling with solder connection, not assembled	932 174-100 black 932 174-117 grey
MIB 1400	2,6 80 0 M18x0,75	14	Panel-mounted socket with solder lugs, solder connection, without shielding!	<b>932 221-500</b> black













#### TOS/TOK-series



#### **Product description**

Coaxial connector (cinch).

- Coaxial pin assignment, reliable connection
- Connectors and couplings are made up of only two parts
- Solder connection up to 1 mm² and shielding

#### Applications:

- Connections in audio and video equipment and computers
- Connections of shielded cables in measurement, test and control instrumentation

Туре		Number of poles	Description	Order no.
TOST 10	33.8 8.8 11.2 8.2 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3	2	Connector with solder connection, screwed-on insulating sleeve	931 903-100 black 931 903-101 red
TOK 10	8.8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2	Coupling with solder connection, screwed-on insulating sleeve	931 904-100 black 931 904-101 red
TOBU 2	08.33 08.33 08.32	2	Socket with solder connection	930 043-000
TOBU 3	0 8,33 03.2 7 1 4 8 8	2	Socket for soldering into printed circuit boards	930 092-000























#### Germany

Richard Hirschmann GmbH & Co. Automation and Network Solutions Stuttgarter Straße 45–51 D-72654 Neckartenzlingen Postfach 1649 D-72606 Nürtingen Tel +49-7127-14-1479/-1480

Fax +49-7127-14-11495/-1496/-1502 E-mail: ans-hi-line@nt.hirschmann.de http://www.hirschmann.com

#### Austria

Hirschmann Austria GmbH Oberer Paspelsweg 6-8 A-6830 Rankweil-Brederis Tel +43-55 22 307-0 Fax +43-55 22 307-555

E-mail: info@rw.hirschmann.at

#### Switzerland

Richard Hirschmann GmbH & Co. Niederlassung Schweiz Seestraße 16 CH-8610 Uster Tel +41-1-905 82 82 Fax +41-1-905 82 89

E-mail: ans\_ch@hirschmann.ch

#### France

Richard Hirschmann Electronique S.A. 24, rue du Fer à Cheval-Z.I. F-95200 Sarcelles Tel +33-1-39 33 02 80

Fax +33-1-39 90 59 68 E-mail: ans@hirschmann.fr

#### **Great Britain**

Richard Hirschmann Electronics UK Ltd. St. Martins Way St. Martins Business Centre GB-Bedford MK42 OLF Tel +44-1234-345999 Fax +44-1234-352222

E-mail: enquiry@hirschmann.co.uk

#### **Netherlands**

Richard Hirschmann
Electronica Nederland B.V.
Postbus 92
NL-1380 AB Weesp
Tel +31-2944-62555
Fax +31-2944-80639
E-mail: ans@hirschmann.nl

Hirschmann España S.A.

#### Spain

c/Trespaderne, 29
Edifico Barajas 1-2ª Plta.
E-28042 Madrid
Tel +34-91-7461730
Fax +34-91-7461735
E-mail:
hirschmann.fuente@mad.servicom.es

#### Hungary

Hirschmann-Hungária Kft. Rokolya u. 1–13 H-1131 Budapest Tel +36-1-149 4199 Fax +36-1-129 84 53

E-mail: hirh.vez@nap-szam.hu

#### USA

Richard Hirschmann of America Inc. 30 Hook Mountain Road – Unit 201 Pine Brook, New Jersey 07058, USA Tel +1-973-830 2000 Fax +1-973-830 1470 E-mail: ans@hirschmann-usa.com

#### **Singapore**

Hirschmann Electronics
(Asia Pacific) Pte. Ltd.
3 Toh Tuck Link
#04-01 German Districentre
Singapore 596228
Tel +65-4 63 58 55
Fax +65-4 63 57 55
E-mail: hirschmann.ap@pacific.net.sg

DS 280 420-610 · Edition 1
Printed in Germany · 36/36/K/1199
Ust-IdNr.: 145355915

Printing errors and mistakes excluded.

Subjects to alterations.