

**C series**  
**Robust circular connectors**  
**for machinery**  
**and plant engineering**

Hirschmann

**CA series**  
**The main features**  
**and advantages**

**Multi-pole round-shape connectors for mains and control voltages in mechanical engineering plants, measurement, control and process technology, as well as in electrical medical equipment.**

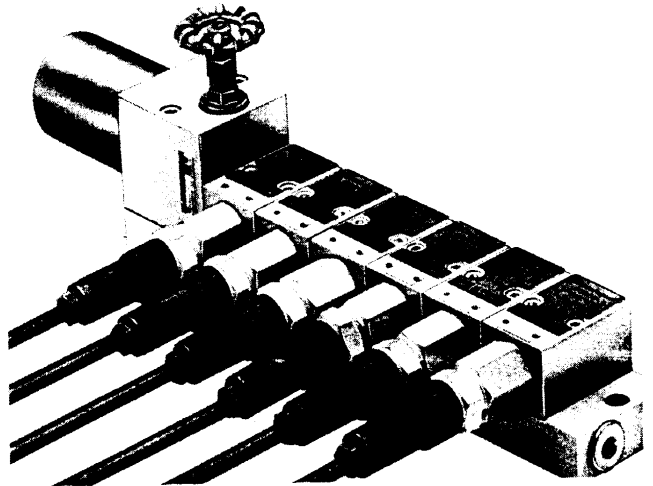
**Easy operation, low space requirement and sturdy design for unfavourable ambient conditions.**

Casing of impact-proof plastic, glass-fibre-reinforced. Vibration-proof connection thanks to simple screw connection by means of the locking ring.

**Protection class IP 65 as per DIN 40 050.** Protected against dust and splash water.

**Strain relief** by means of an internal fixing clamp or cable claw.

These circular connectors are of the same dimensions, design and contact arrangement as many other circular connector series available on the market and can be plugged into these or completely replaced.



*Actuator connection in a metering system*

**VDE expertise**

A VDE expertise with process inspection has been issued for these connectors. The design, terminals and materials comply with the regulations in DIN VDE 0627.

**UL-Recognition**

These plug connectors have been tested and approved by UL.

According to DIN VDE 0627, **plug connectors** are devices which **must not** be plugged or unplugged when used for their intended purpose (when carrying electricity).

The standard VDE regulation pursuant to DIN VDE 0100 T 410 and DIN VDE 0113 T 1 (EN 60 204 T 1) must be complied with during service.

**CM series**  
**The main features**  
**and advantages**

**Screw-in plug connector for all control lead connections in hydraulics, pneumatics and special machinery.**

Possible applications include continuous-action and proportional-action valve.

To replace plug connectors in MIL series C-5015 and VG 95 342, size 14 S-2, 14 S-6 and 20-7. Can also be plugged into existing mating parts in the MIL series.

The new plug connectors in series CM can frequently be used where connectors from series MIL-C-5015 or VG 95 342 size 14 S-2, 14 S-6 or 20-7 have been used to date.

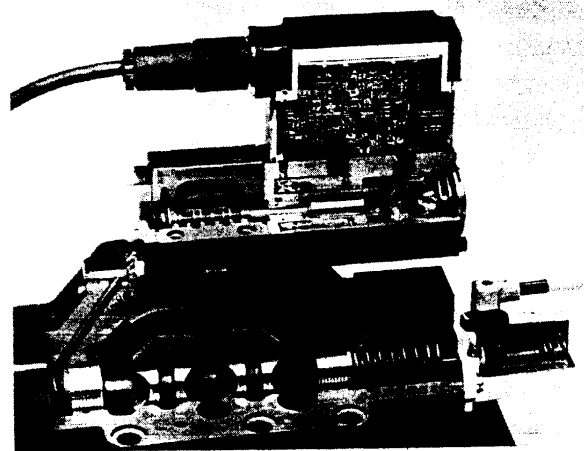
**Sturdy design**

A casing of impact-proof plastic, glass-fibre-reinforced. Also suitable for machinery and appliance engineering.

**Protection class IP 65 as per DIN 40 050**

Protected against dust and splash water.

**Strain relief** by means of an internal fixing clamp or clamping cage.



*Sectional model of a proportional-action hydraulic valve*

**Application examples**

**CA series**

- ☐ Mains and control voltage connections in mechanical engineering.
- ☐ Mains and control voltage connections in measurement, control and process technology.
- ☐ Mains and control voltage connections in electrical medical equipment.
- ☐ Applications for which a VDE-

**CM series**

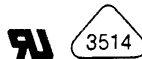
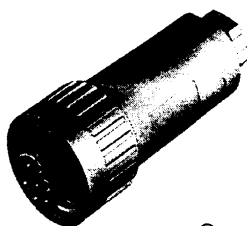
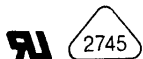
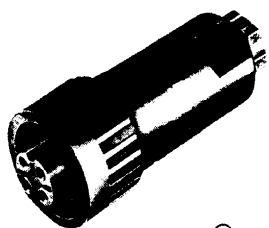
- ☐ Connection of continuous-action and proportional-action valves.
- ☐ Mating dimensions of series MIL-C-5015 size 14 S-2, 14 S-6 and 20-7.
- ☐ Control lead connections for appliances, for machinery and devices subject to unfavourable ambient conditions.

**We will gladly advise** if you have any questions concerning the potential applications, technical data or special designs.

CA series

3-pole + ⊕

6-pole + ⊕



#### Program survey

Cable socket, angled	CA 3 LDW 09 ZK	
Cable socket, straight	CA 3 LD 09 ZS/CA 3 LD 13 ZK	CA 6 LD 09 ZS/CA 6 LD 11 ZS/CA 6 LD 13 ZK
Cable connector, straight	CA 3 LS 09 ZS/CA 3 LS 13 ZK	CA 6 LS 09 ZS/CA 6 LS 11 ZS/CA 6 LS 13 ZK
Surf.-mounted conn. with flange	CA 3 GS	CA 6 GS
Surf.-mounted socket with flange	CA 3 GD	CA 6 GD
Cap	CA 00 SD 3/CA 00 SD 4	CA 00 SD 1/CA 00 SD 2

#### Technical data

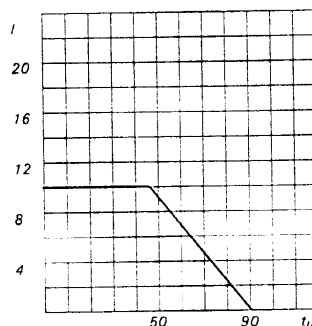
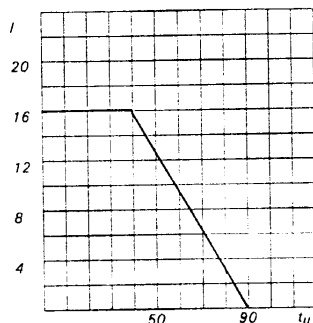
Number of poles	3 + ⊕	6 + ⊕
Operating voltage	250 V UC (≈) 380 V AC (~)	150 V UC (≈) 250 V UC (≈)
Insulation group DIN VDE 0110	C	C B
Continuous load current	16 A AC/10 A DC	10 A
Contact resistance	3 mΩ	5 mΩ
Pin diameter	2 mm	1.5 mm
Contact material/surface	CuZn/silver-plated	CuZn/silver-plated
Type of connection	screw	solder
Cable gland	Pg 9, Pg 13.5	Pg 9, Pg 11, Pg 13.5
Outer lead diameter	6...12 mm <sup>1)</sup>	6...12 mm <sup>1)</sup>
Max. lead cross-section	1.5 mm <sup>2</sup> /AWG 16	0.75 mm <sup>2</sup> /AWG 19
Materials:		
Contact bearer	PA 66-GF 25	PA 66-GF 25
Casing	PA 66-GF 25	PA 66-GF 25
Sealing ring	NBR	NBR
Flammability, UL standard	94 V - 0	94 V - 0
Protection class DIN 40 050	IP 65	IP 65
Ambient temperature range t <sub>u</sub>	-40°C...90°C	-40°C...90°C

#### Derating curve

(Current carrying curve)

I = continuous load current

t<sub>u</sub> = ambient temperature in °C

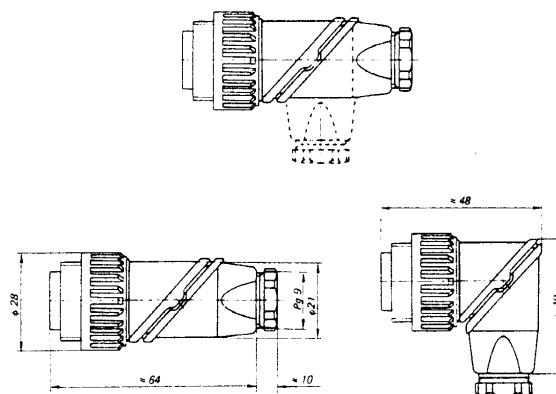
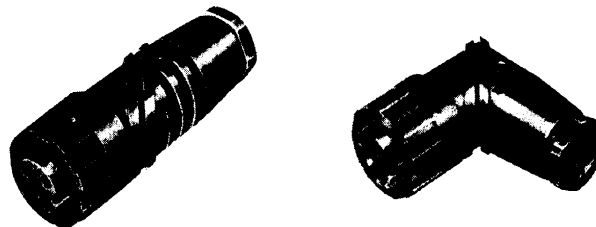


**C series**  
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**Hirschmann**

**CA series**  
**3-pole + Ⓢ**

**CA 3 LDW 09 ZK**



**Technical data**

Design/ Description	Angled cable socket strain relief by means of clamping cage	Angled cable socket strain relief by means of clamping cage	Angled cable socket strain relief by means of clamping cage
Number of poles	3 + Ⓢ	3 + Ⓢ	3 + Ⓢ
Type of connection	Screw	Screw	Screw
Scope of supply	1 cable socket, not assembled, in polyth. bag with assembly instructions, sealing ring for diameter 6 mm	1 cable socket, not assembled, in polyth. bag with assembly instructions, sealing ring for diameter 7.5 mm	1 cable socket, not assembled, in polyth. bag with assembly instructions, sealing ring for diameter 9.6 mm
Colour of casing	black	black	black
Can be plugged into	CA 3 GS, CA 3 LS...	CA 3 GS, CA 3 LS...	CA 3 GS, CA 3 LS...
Cable gland	Pg 9	Pg 9	Pg 9
Outer lead diameter	4 to 6 mm	5 to 7.5 mm	7 to 9.6 mm

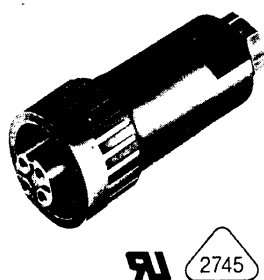
**Order data**

Type	CA 3 LDW 09 ZK	CA 3 LDW 09 ZK	CA 3 LDW 09 ZK
Order no. (with strain relief)	932 431-100	932 431-200	932 431-300
Type			
Order no. (without strain relief)			
Quantity boxed	100 each	100 each	100 each

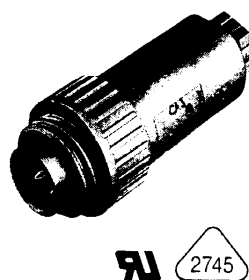
**Accessories — must be ordered separately**

Can

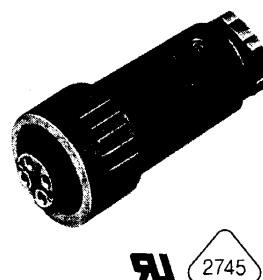
CA 3 LD 09 ZS



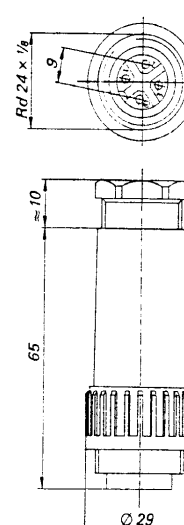
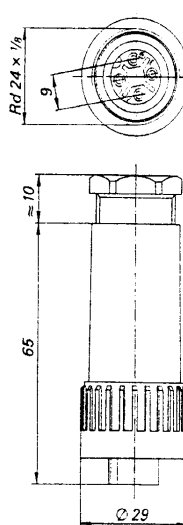
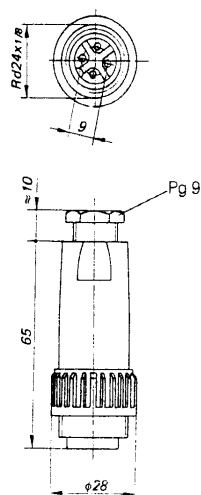
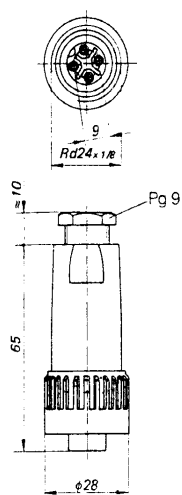
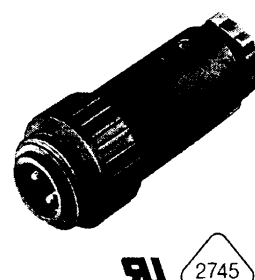
CA 3 LS 09 ZS



CA 3 LD 13 ZK



CA 3 LS 13 ZK



#### Technical data

Straight cable socket strain relief by means of clamp	Straight cable connector strain relief by means of clamp	Straight cable socket strain relief by means of clamping cage	Straight cable connector strain relief by means of clamping cage
3 +	3 +	3 +	3 +
screw	screw	screw	screw
1 cable socket, not assembled, in polythene bag with assembly instructions	1 cable connector, not assembled, in polythene bag with assembly instructions	1 cable socket, not assembled, in polythene bag with assembly instructions	1 cable connector, not assembled, in polythene bag with assembly instructions
black	black	black	black
CA 3 LS	CA 3 LD...	CA 3 LS...	CA 3 LD...
Pg 9	Pg 9	Pg 13.5	Pg 13.5
6 - 9.5 mm	6 - 9.5 mm	10 - 12 mm	10 - 12 mm

#### Order data

CA 3 LD 09 ZS	CA 3 LS 09 ZS	CA 3 LD 13 ZK	CA 3 LS 13 ZK
932 362-100	932 365-100	932 821-100	932 822-100
CA 3 LD 09	CA 3 LS 09		
932 555-100	932 556-100		
100 each	100 each	100 each	100 each

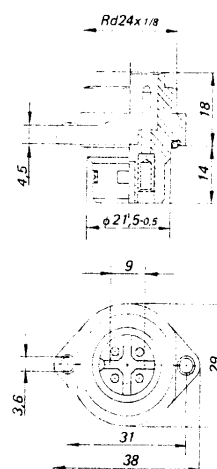
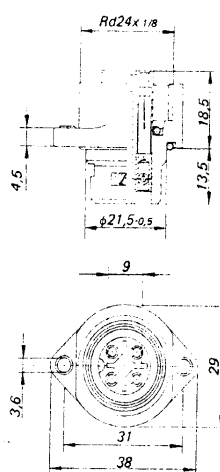
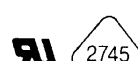
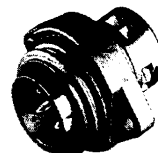
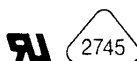
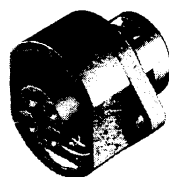
#### Accessories – must be ordered separately

CA 00 SD 3	CA 00 SD 1	CA 00 SD 3	CA 00 SD 1
831 532-100	831 530-100	831 532-300	831 530-300

**CA series**  
**3-pole + ⊕**

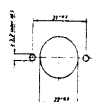
**CA 3 GD**

**CA 3 GS**

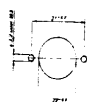


**Technical data**

Design/ Description	Surface-mounted socket with flange	Surface-mounted connector with flange
Number of poles	3 + ⊕	3 + ⊖
Type of connection	screw	screw
Scope of supply	1 surface-mounted socket with round seal, in polythene bag	1 surface-mounted socket with round sealing ring, in polythene bag
Colour of casing	black	black
Can be plugged into	CA 3 LS...	CA 3 LD...
Cable gland		
Outer lead diameter		



Sectional view



Sectional view

**Order data**

Type	CA 3 GD	CA 3 GS
Order no. (with strain relief)	932 321-100	932 322-100
Type		
Order no. (without strain relief)		
Quantity boxed	100 each	100 each

**Accessories – must be ordered separately**

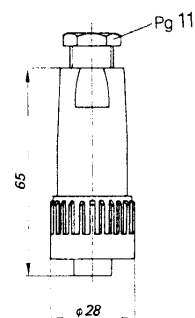
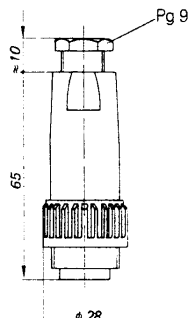
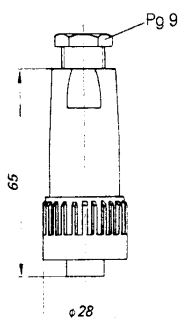
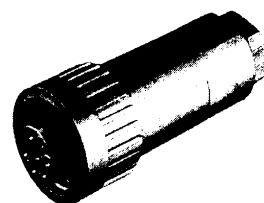
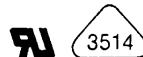
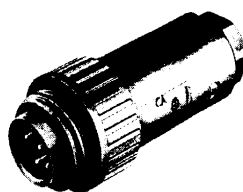
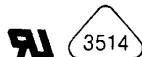
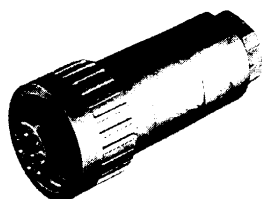
Cap		
Type	CA 00 SD 4	CA 00 SD 2

CA series  
6-pole + ⊕

CA 6 LD 09 ZS

CA 6 LS 09 ZS

CA 6 LD 11 ZS



#### Technical data

Design/ Description	Straight cable socket strain relief by means of clamp	Straight cable connector strain relief by means of clamp	Straight cable socket strain relief by means of clamp
Number of poles	6 + ⊕	6 + ⊕	6 + ⊕
Type of connection	solder	solder	solder
Scope of supply	1 cable socket, not assembled, in polythene bag with assembly instructions	1 cable socket, not assembled, in polythene bag with assembly instructions	1 cable socket, not assembled, in polythene bag with assembly instructions
Colour of casing	black	black	black
Can be plugged into	CA 6 LS...	CA 6 LD...	CA 6 LS...
Cable gland	Pg 9	Pg 9	Pg 11
Outer lead diameter	6 - 9.5 mm	6 - 9.5 mm	8 - 11 mm

#### Order data

Type	CA 6 LD 09 ZS	CA 6 LS 09 ZS	CA 6 LD 11 ZS
Order no. (with strain relief)	932 383-100	932 384-100	932 509-100
Type	CA 6 LD 09	CA 6 LS 09	CA 6 LD 11
Order no. (without strain relief)	932 574-100	932 576-100	932 575-100
Quantity boxed	100 each	100 each	100 each

#### Accessories – must be ordered separately

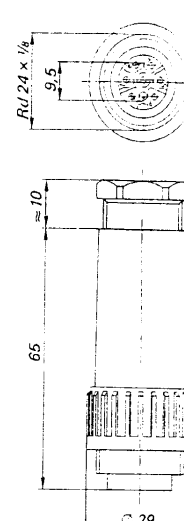
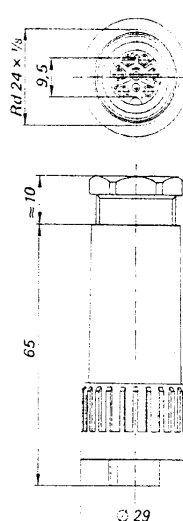
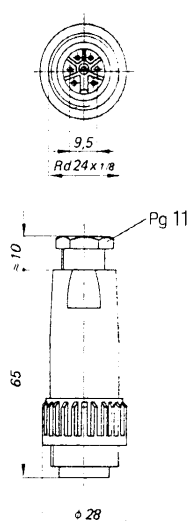
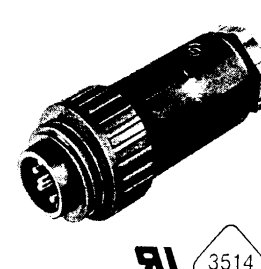
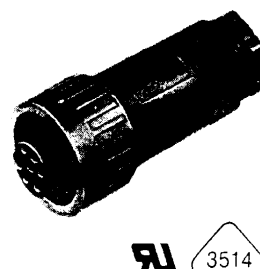
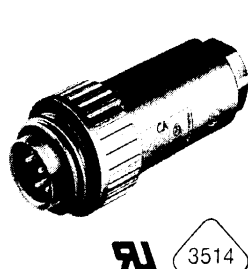
Cap			
Type	CA 00 SD 3	CA 00 SD 1	CA 00 SD 3
Order no.	831 532-100	831 530-100	831 532-200

**CA series**  
**6-pole + ⊕**

**CA 6 LS 11 ZS**

**CA 6 LD 13 ZK**

**CA 6 LS 13 ZK**



**Technical data**

Design/ Description	<b>Straight cable connector</b> strain relief by means of clamp	<b>Straight cable socket</b> strain relief by means of clamping cage	<b>Straight cable connector</b> strain relief by means of clamping cage
Number of poles	6 + ⊕	6 + ⊕	6 + ⊕
Type of connection	solder	solder	solder
Scope of supply	1 cable connector, not assembled, in polythene bag with assembly instructions	1 cable socket, not assembled, in polythene bag with assembly instructions	1 cable connector, not assembled, in polythene bag with assembly instructions
Colour of casing	black	black	black
Can be plugged into	CA 6 LD...	CA 6 LS...	CA 6 LD...
Cable gland	Pg 11	Pg 13.5	Pg 13.5
Outer lead diameter	8 – 11 mm	10 – 12 mm	10 – 12 mm

**Order data**

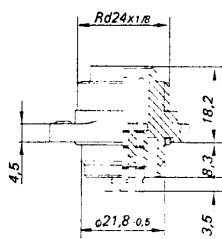
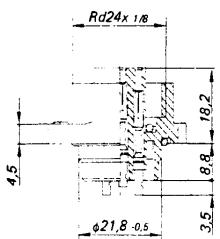
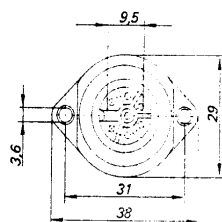
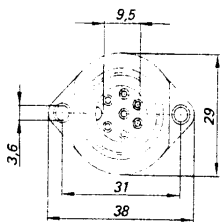
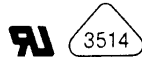
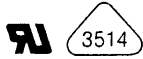
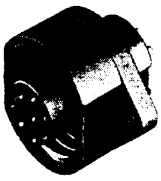
Type	<b>CA 6 LS 11 ZS</b>	<b>CA 6 LD 13 ZK</b>	<b>CA 6 LS 13 ZK</b>
Order no. (with strain relief)	<b>932 510-100</b>	<b>932 604-100</b>	<b>932 606-100</b>
Type	<b>CA 6 LS 11</b>		
Order no. (without strain relief)	<b>932 577-100</b>		
Quantity boxed	100 each	100 each	100 each

**Accessories – must be ordered separately**

Cap			
Type	CA 00 SD 1	CA 00 SD 3	CA 00 SD 1
Order no.	831 530-200	831 532-200	831 530-200

CA 6 GD

CA 6 GS



#### Technical data

**Surface-mounted socket**  
with flange

**Surface-mounted connector**  
with flange

6 + ⊕

6 + ⊕

solder

solder

1 surface-mounted socket  
with round sealing ring,  
in polythene bag

1 surface-mounted connector  
with round sealing ring,  
in polythene bag

black

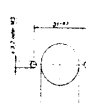
black

CA 6 LS...

CA 6 LD...



Sectional view



Sectional view

#### Order data

CA 6 GD

CA 6 GS

932 325-100

932 326-100

100 each

100 each

**Accessories - must be ordered separately**

CA 00 SD 4

CA 00 SD 2

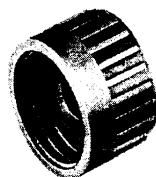
831 531-100

831 529-100

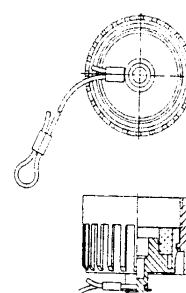
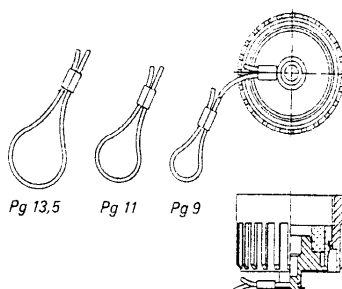


**CA series**  
**Accessories**

**CA 00 SD 1**



**CA 00 SD 2**

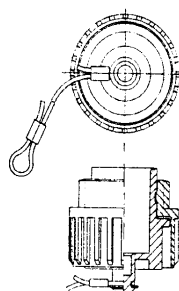
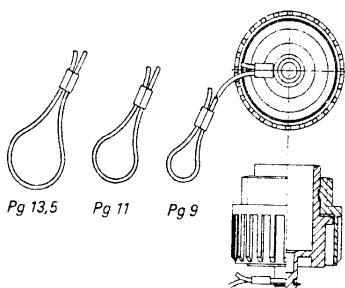
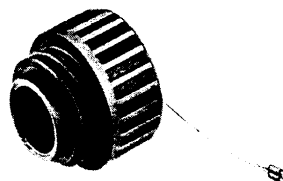
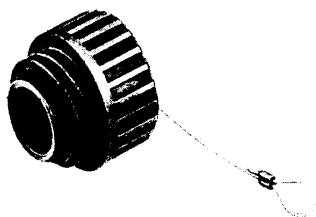


Technical data			
Design/ Description	Cap for cable connector		Cap for surface-mounted connector
Number of poles	For 3 + ⊕ and 6 + ⊕		For 3 + ⊕ and 6 + ⊕
Type of connection			
Scope of supply	1 cap with female thread, nylon loop		1 cap with female thread, nylon loop
Colour of casing	black		black
Can be plugged into	<b>Pg 9</b> CA 3 LS 09, CA 3 LS 09 ZS, CA 6 LS 09, CA 6 LS 09 ZS	<b>Pg 11</b> CA 6 LS 11, CA 6 LS 11 ZS	<b>Pg 13.5</b> CA 3 LS 13 ZK, CA 6 LS 13 ZK
			CA 3 GS, CA 6 GS

<b>Order data</b>		
Type	<b>CA 00 SD 1</b>	<b>CA 00 SD 2</b>
Order no.		<b>831 529-100</b>
Loop for Pg 9	831 530-100	
Loop for Pg 11	831 530-200	
Loop for Pg 13.5	831 530-300	
Quantity boxed	100 each	100 each

CA 00 SD 3

CA 00 SD 4



# Technical Data

## Cap

for cable socket

For 3 + ⊕ and 6 + ⊕

1 cap  
with external thread,  
nylon loop

black

**Pg 9**

CA 3 LD 09,  
CA 3 LD 09 ZS,  
CA 6 LD 09,  
CA 6 LD 09 ZS

**Pg 11**

CA 6 LD 11,  
CA 6 LD 11 ZS

**Pg 13.5**

CA 3 LD 13 ZK,  
CA 6 LD 13 ZK

## Cap

for surface-mounted sockets

For 3 + ⊕ and 6 + ⊕

1 cap  
with external thread,  
nylon loop

black

CA 3 GD, CA 6 GD

# Order Data

CA 00 SD 3

CA 00 SD 4

831 531-100

831 532-100

831 532-200

831 532-300

100 each

100 each