

Special voltages for CD series

If all the contacts are used, CD connector inserts may be used with voltage up to 250V (first column) pollution degree 3 in accordance with standard EN 61984.

If the number of contacts is reduced and the contacts assigned accordingly, these connectors may be used at higher voltages. This is possible because the decrease in the number of contacts

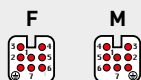
leads to an increase in clearances (insulating distances in air) and creepage distances (insulating distances along the surface).

When the contacts are arranged as shown below, the inserts may be used at rated voltage of 500V (second column) pollution degree 3 in accordance with standard EN 61984.

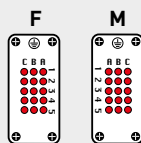
For use up to 250V pollution degree 3

diagrams
contacts side (front view)

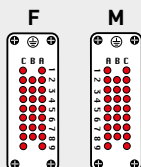
CD 07 - 7 + ⊕



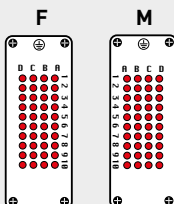
CD 15 - 15 + ⊕



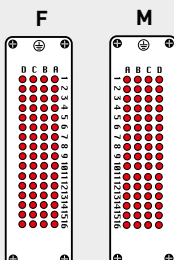
CD 25 - 25 + ⊕



CD 40 - 40 + ⊕



CD 64 - 64 + ⊕



Legend:

- working contact
- without contact
- M = male insert
- F = female insert

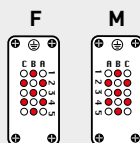
For use up to 500V pollution degree 3

diagrams
contacts side (front view)

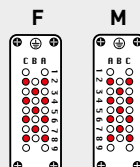
CD 07 - 3 + ⊕



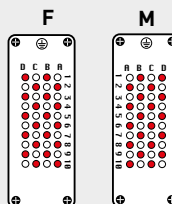
CD 15 - 7 + ⊕



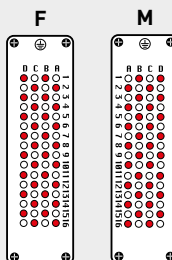
CD 25 - 11 + ⊕



CD 40 - 20 + ⊕



CD 64 - 32 + ⊕



CD 7 poles + ⊕ 10A - 250V

enclosures:
size "21.21"

page:

Insulating type

339 - 348

inserts, crimp connections

10A crimp contacts
silver and gold plated

description

part No.

part No.

part No.

part No.

without contacts (to be ordered separately)
female inserts for female contacts, grey and black ¹⁾
male inserts for male contacts, grey and black

grey
CDF 07
CDM 07

black
CDF 07 N
CDM 07 N

10A female contacts

0,14-0,37 mm ²	AWG 26-22	identification No. 1
0,5 mm ²	AWG 20	identification No. 2
0,75 mm ²	AWG 18	identification No. ②
1 mm ²	AWG 18	identification No. 3
1,5 mm ²	AWG 16	identification No. 4
2,5 mm ²	AWG 14	identification No. 5

CDFA 0.3
CDFA 0.5
CDFA 0.7
CDFA 1.0
CDFA 1.5
CDFA 2.5

silver plated

CDFD 0.3
CDFD 0.5
CDFD 0.7
CDFD 1.0
CDFD 1.5
CDFD 2.5

gold plated+

10A male contacts

0,14-0,37 mm ²	AWG 26-22	identification No. 1
0,5 mm ²	AWG 20	identification No. 2
0,75 mm ²	AWG 18	identification No. ②
1 mm ²	AWG 18	identification No. 3
1,5 mm ²	AWG 16	identification No. 4
2,5 mm ²	AWG 14	identification No. 5

CDMA 0.3
CDMA 0.5
CDMA 0.7
CDMA 1.0
CDMA 1.5
CDMA 2.5

CDMD 0.3
CDMD 0.5
CDMD 0.7
CDMD 1.0
CDMD 1.5
CDMD 2.5

1) the female inserts can be mounted into the straight bulkhead housings CK I from the rear

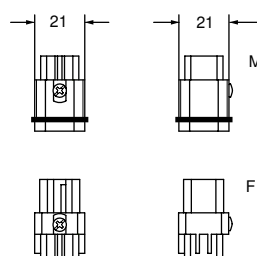
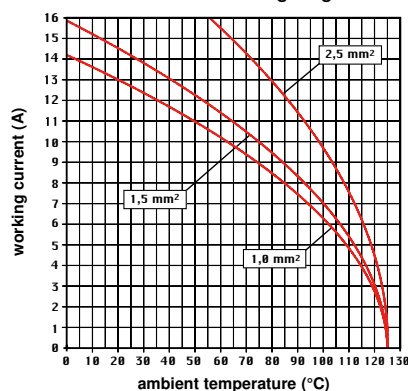
- characteristics according to EN 61984:

10A 250V 4kV 3
10A 230/400V 4kV 2

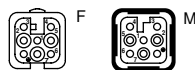
- cULus (UL for USA and Canada),
 certified

- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 3 mΩ
- for applications requiring higher voltages, please see the special voltage application section on page 65
- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 10A contacts, CDF and CDM series on pages 708 - 741)
- for max. current load see the connector inserts derating diagram below; for more information see page 28

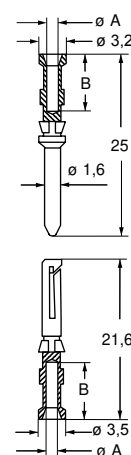
CD 07 poles connector inserts
Maximum current load derating diagram



contacts side (front view)



CR CP coding pin
with loss of one contact
(page 689)



CDF and CDM contacts

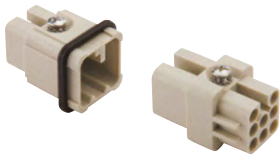
conductor section mm ²	conductor slot ø A (mm)	conductors stripping length B (mm)
0,14-0,37	0,9	8
0,5	1,1	8
0,75	1,3	8
1,0	1,45	8
1,5	1,8	8
2,5	2,2	6

+ for basic or high thickness gold plating, please refer to page 674

CD 8 poles 10A - 50V ac / 120V dc

enclosures: size "21.21"	page:
Insulating type	339 - 348
Metallic type	349 - 363
W-TYPE for aggressive environments	512 - 518
E-Xtreme® corrosion proof	538 - 539
EMC	564 - 572
IP68	628 - 631

inserts, crimp connections

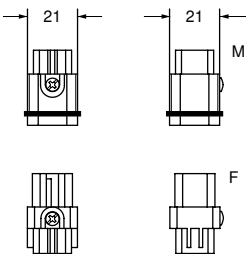


10A crimp contacts
silver and gold plated

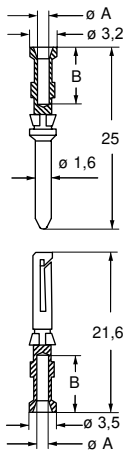


description	part No.	part No.	part No.
without contacts (to be ordered separately)			
female inserts for female contacts ¹⁾	CDF 08		
male inserts for male contacts	CDM 08		
10A female contacts			
0,14-0,37 mm ² AWG 26-22 identification No. 1		C DFA 0.3	C DFD 0.3
0,5 mm ² AWG 20 identification No. 2		C DFA 0.5	C DFD 0.5
0,75 mm ² AWG 18 identification No. ②		C DFA 0.7	C DFD 0.7
1 mm ² AWG 18 identification No. 3		C DFA 1.0	C DFD 1.0
1,5 mm ² AWG 16 identification No. 4		C DFA 1.5	C DFD 1.5
2,5 mm ² AWG 14 identification No. 5		C DFA 2.5	C DFD 2.5
10A male contacts			
0,14-0,37 mm ² AWG 26-22 identification No. 1		C DMA 0.3	C DMD 0.3
0,5 mm ² AWG 20 identification No. 2		C DMA 0.5	C DMD 0.5
0,75 mm ² AWG 18 identification No. ②		C DMA 0.7	C DMD 0.7
1 mm ² AWG 18 identification No. 3		C DMA 1.0	C DMD 1.0
1,5 mm ² AWG 16 identification No. 4		C DMA 1.5	C DMD 1.5
2,5 mm ² AWG 14 identification No. 5		C DMA 2.5	C DMD 2.5

- 1) the female inserts can be mounted into the straight bulkhead housings CK I from the rear
- characteristics according to EN 61984:
10A 50V ac / 120V dc 0,8kV 3
 - (UL for USA and Canada), certified
 - rated voltage according to UL/CSA: 50V ac / 120V dc
 - insulation resistance: $\geq 10\text{ G}\Omega$
 - ambient temperature limit: -40 °C ... +125 °C
 - made of self-extinguishing thermoplastic resin UL 94V-0
 - mechanical life: ≥ 500 cycles
 - contact resistance: $\leq 3\text{ m}\Omega$
 - for applications requiring higher voltages, please see the special voltage application section on page 65
 - **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 10A contacts, CDF and CDM series on pages 708 - 741)
 - for max. current load see the connector inserts derating diagram below; for more information see page 28

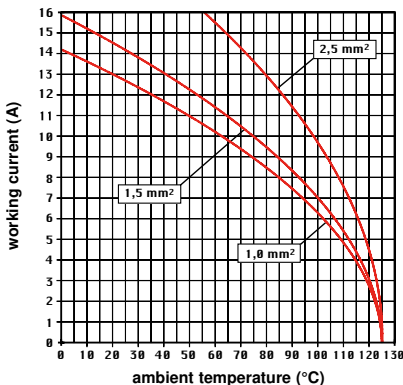


contacts side (front view)



CDF and CDM contacts		
conductor section mm ²	conductor slot Ø A (mm)	conductors stripping length B (mm)
0,14-0,37	0,9	8
0,5	1,1	8
0,75	1,3	8
1,0	1,45	8
1,5	1,8	8
2,5	2,2	6

CD 08 poles connector inserts
Maximum current load derating diagram



CR CP coding pin
with loss of one contact
(page 689)

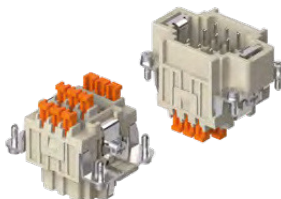


⁺ for basic or high thickness gold plating, please refer to page 674

CDSH-SQUICH® 9 poles + ⊕ 10A - 400Venclosures:
size "44.27"

page:

C-TYPE IP65/IP66	387 - 392
C7 IP67, single lever	436 - 437
V-TYPE IP65/IP66, single lever	444 - 447
BIG hoods	466 - 467
T-TYPE IP65 insulating	480 - 481
T-TYPE / W IP66/IP69 insulating	489
HYGIENIC T-TYPE / H IP66/IP69	501
HYGIENIC T-TYPE / C IP66/IP69, -50 °C	506
W-TYPE for aggressive environments	521
E-Xtreme® corrosion proof	530 - 531, 542, 550 - 551
EMC	578
Central lever	603 - 605
LS-TYPE	618 - 619
IP68	632 - 635

panel supports:
COBpage:
652 - 653inserts,
spring terminal connections without tools

coding pins



description

part No.

part No.

spring terminals with actuator button
female inserts with female contacts
male inserts with male contactsCDSHF 09
CDSHM 09

plastic coding pins

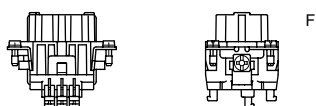
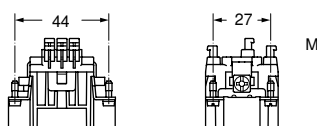
CR CDS

- characteristics according to EN 61984:

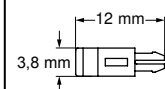
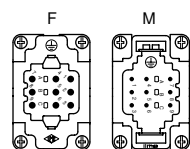
10A 400V 6kV 3
10A 400V/690V 6kV 2

- certified

- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 3 \text{ m}\Omega$
- for max. current load see the connector inserts derating diagram below; for more information see page 28



contacts side (front view)



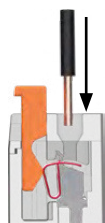
CDSH series - Coding with CR CDS pins

Size of connectors	Slots for coding pins (M) = male insert (F) = female insert	Required coding pins for each coupling	Possible codings
9P + ⊕	3 (M) + 3 (F)	3 2 (M) + 1 (F)	3

- inserts for conductors cross-sectional areas: 0,14 - 2,5 mm² - AWG 26 - 14
- for wires with crimped ferrule, usable section: up to 1,5 mm² (AWG 16)
- conductors stripping length: 9...11 mm

SQUICH®-spring connection technology
WIRING

1



Deeply insert a stripped conductor into a round terminal.

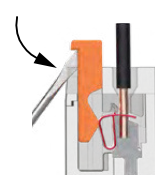
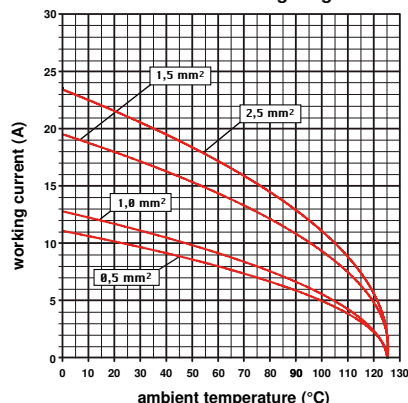
2



Push the actuator button to close the terminal.

RE-OPENING

3

Insert a **0,5 x 3,5 mm** flat blade screwdriver in the actuator button side window and pull it up by levering down.**CDSH 09 poles connector inserts**
Maximum current load derating diagram

CNE CSH-SQUICH® 6 poles + ⊕ 16A - 500V

enclosures:
size "44.27"

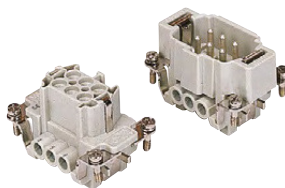
page:

C-TYPE IP65/IP66	387 - 392
C7 IP67, single lever	436 - 437
V-TYPE IP65/IP66, single lever	444 - 447
BIG hoods	466 - 467
T-TYPE IP65 insulating	480 - 481
T-TYPE / W IP66/IP69 insulating	489
HYGIENIC T-TYPE / H IP66/IP69	501
HYGIENIC T-TYPE / C IP66/IP69, -50 °C	506
W-TYPE for aggressive environments	521
E-Xtreme® corrosion proof	530 - 531, 542, 550 - 551
EMC	578
Central lever	603 - 605
LS-TYPE	618 - 619
IP68	632 - 635

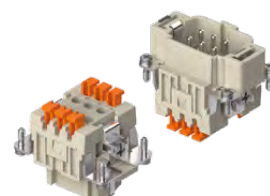
panel supports:
COB

page:
652 - 653

inserts,
screw terminal connections



inserts,
spring terminal connections without tools



description

part No.

part No.

indirect, with plate ¹⁾
female inserts with female contacts
male inserts with male contacts

CNEF 06 T
CNEM 06 T

direct, without plate ²⁾
female inserts with female contacts
male inserts with male contacts

CNEF 06 TX
CNEM 06 TX

spring terminals with actuator button
female inserts with female contacts
male inserts with male contacts

CSHF 06
CSHM 06

- characteristics according to EN 61984:

16A 500V 6kV 3
16A 400/690V 6kV 2

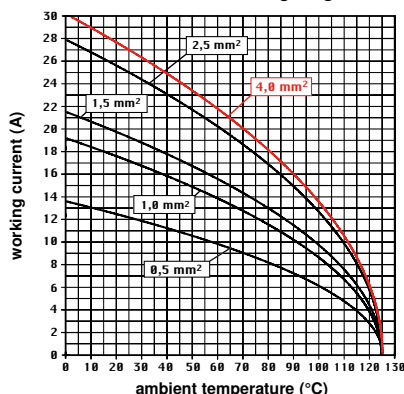
- cULus (UL for USA and Canada), CSA, CEC, DNV-GL

BUREAU VERITAS EAC certified

- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$ (CNE) - $\leq 3 \text{ m}\Omega$ (CSH)
- for max. current load see the connector inserts derating diagrams below; for more information see page 28

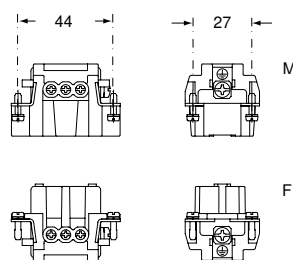
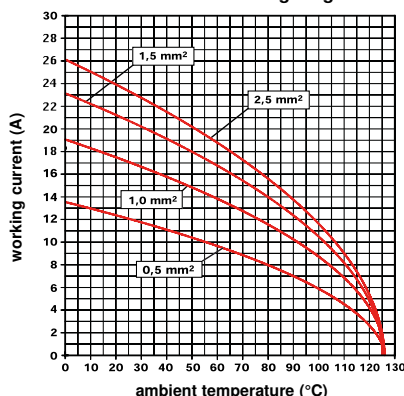
CNE 06 poles connector inserts

Maximum current load derating diagram

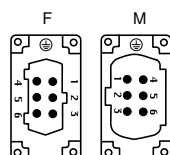


CSH 06 poles connector inserts

Maximum current load derating diagram



contacts side (front view)

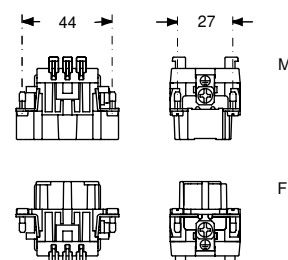


- inserts with plate for section conductors:
0,5 - 4 mm² - AWG 20 - 12
- inserts without plate for section conductors:
0,25 - 2,5 mm² - AWG 24 - 14
- conductors stripping length: 7 mm
- terminal screw torque: 0,5 Nm (4.4 lb.in), for more information see page 20 and 21

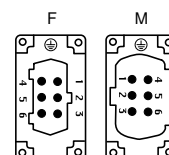
¹⁾ for unprepared conductors



²⁾ for conductors with end sleeve ferrule



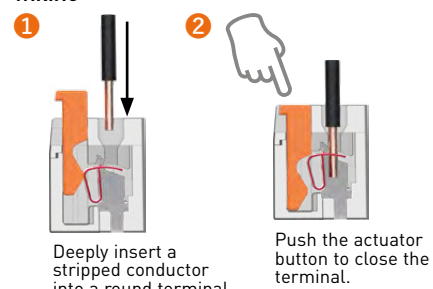
contacts side (front view)



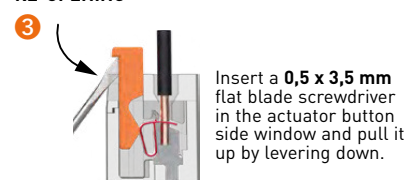
- inserts for connectors with the following sections:
0,14 - 2,5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm

SQUICH®-spring connection technology

WIRING



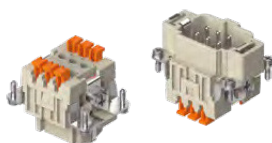
RE-OPENING



CSHF/M 06 S 6 poles + ⊕ 16A - 500V SQUICH®enclosures:
size "44.27"

page:

C-TYPE IP65/IP66	387 - 392
C7 IP67, single lever	436 - 437
V-TYPE IP65/IP66, single lever	444 - 447
BIG hoods	466 - 467
T-TYPE IP65 insulating	480 - 481
T-TYPE / W IP66/IP69 insulating	489
HYGIENIC T-TYPE / H IP66/IP69	501
HYGIENIC T-TYPE / C IP66/IP69, -50 °C	506
W-TYPE for aggressive environments	521
E-Xtreme® corrosion proof	530 - 531, 542, 550 - 551
EMC	578
Central lever	603 - 605
LS-TYPE	618 - 619
IP68	632 - 635

panel supports:
COBpage:
652 - 653inserts,
spring terminal connections**Q STAMPED CONTACTS, SILVER PLATED**

description

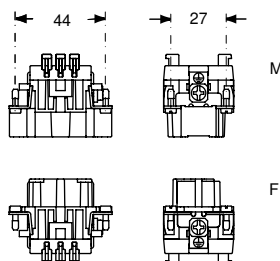
part No.

spring terminals with actuator button
female inserts with female contacts
male inserts with male contacts**CSHF 06 S**
CSHM 06 S

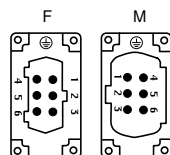
- characteristics according to EN 61984:

16A 500V 6kV 3**16A 400/690V 6kV 2**

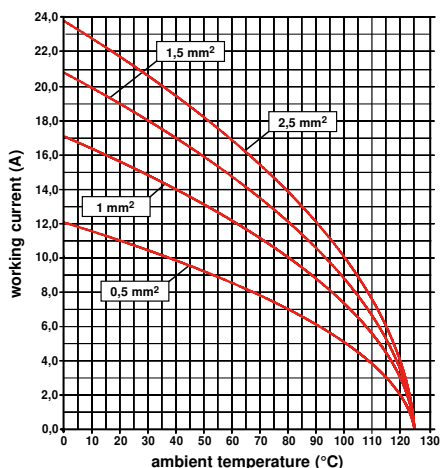
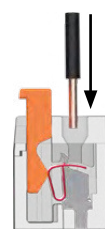
- cULus (UL for USA and Canada) certified
CSA, CQC, DNV-GL, BV, EAC pending
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin
UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 3 \text{ m}\Omega$



contacts side (front view)



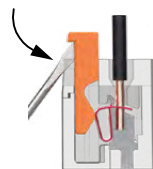
- inserts for connectors with the following conductor cross-sectional areas: 0,14 - 2,5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm

CSH S 06 poles connector inserts
Maximum current load derating diagram**SQUICH®-spring connection technology****WIRING****1**

Deeply insert a stripped conductor into a round terminal.

2

Push the actuator button to close the terminal.

RE-OPENING**3**Insert a **0,5 x 3,5 mm** flat blade screwdriver in the actuator button side window and pull it up by levering down.

CCE 6 poles + $\oplus$ 16A - 500Venclosures:
size "44.27"

page:

C-TYPE IP65/IP66	387 - 392
C7 IP67, single lever	436 - 437
V-TYPE IP65/IP66, single lever	444 - 447
BIG hoods	466 - 467
T-TYPE IP65 insulating	480 - 481
T-TYPE / W IP66/IP69 insulating	489
HYGIENIC T-TYPE / H IP66/IP69	501
HYGIENIC T-TYPE / C IP66/IP69, -50 °C	506
W-TYPE for aggressive environments	521
E-Xtreme® corrosion proof	530 - 531, 542, 550 - 551
EMC	578
Central lever	603 - 605
LS-TYPE	618 - 619
IP68	632 - 635

panel supports:
COBpage:
652 - 653

inserts, crimp connections

16A crimp contacts
standard or for advanced opening
silver and gold plated

STANDARD



ADVANCED OPENING

description

part No.

part No.

without contacts (to be ordered separately)

female inserts for female contacts

CCEF 06

male inserts for male contacts

CCEM 06

16A female contacts

0,14-0,37 mm ²	AWG 26-22	one groove
0,5 mm ²	AWG 20	with no grooves
0,75 mm ²	AWG 18	one groove (back side)
1 mm ²	AWG 18	one groove
1,5 mm ²	AWG 16	two grooves
2,5 mm ²	AWG 14	three grooves
3 mm ²	AWG 12	one wide groove
4 mm ²	AWG 12	with no grooves

16A male contacts

0,14-0,37 mm ²	AWG 26-22	one groove
0,5 mm ²	AWG 20	with no grooves
0,75 mm ²	AWG 18	one groove (back side)
1 mm ²	AWG 18	one groove
1,5 mm ²	AWG 16	two grooves
2,5 mm ²	AWG 14	three grooves
3 mm ²	AWG 12	one wide groove
4 mm ²	AWG 12	with no grooves

16A male crimp contacts for advanced opening

0,5 mm ²	AWG 20	with no grooves
0,75 mm ²	AWG 18	one groove (back side)
1 mm ²	AWG 18	one groove
1,5 mm ²	AWG 16	two grooves
2,5 mm ²	AWG 14	three grooves

CCFA 0.3
CCFA 0.5
CCFA 0.7
CCFA 1.0
CCFA 1.5
CCFA 2.5
CCFA 3.0
CCFA 4.0

silver plated

CCFD 0.3
CCFD 0.5
CCFD 0.7
CCFD 1.0
CCFD 1.5
CCFD 2.5
CCFD 3.0
CCFD 4.0

gold plated+

CCMA 0.3
CCMA 0.5
CCMA 0.7
CCMA 1.0
CCMA 1.5
CCMA 2.5
CCMA 3.0
CCMA 4.0

CCMD 0.3
CCMD 0.5
CCMD 0.7
CCMD 1.0
CCMD 1.5
CCMD 2.5
CCMD 3.0
CCMD 4.0

CC 0.5 AN
CC 0.7 AN
CC 1.0 AN
CC 1.5 AN
CC 2.5 AN

* for basic or high thickness
gold plating, please refer
to page 675

- characteristics according to EN 61984:

16A 500V 6kV 3**16A 400/690V 6kV 2**

- certified

- rated voltage according to UL/CSA: 600V

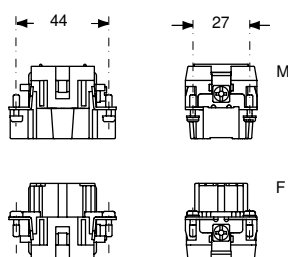
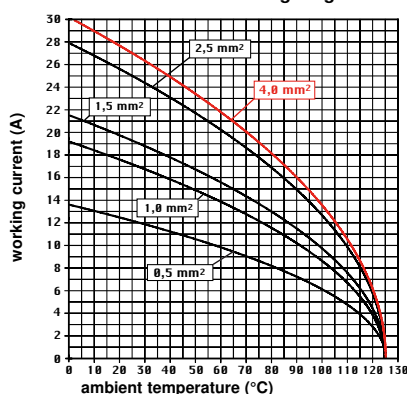
- insulation resistance: ≥ 10 G Ω

- ambient temperature limit: -40 °C ... +125 °C

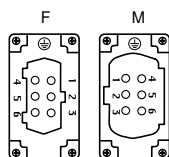
- made of self-extinguishing thermoplastic resin UL 94V-0

- mechanical life: ≥ 500 cycles- contact resistance: ≤ 1 m Ω

- for max. current load see the connector inserts derating diagram below; for more information see page 28

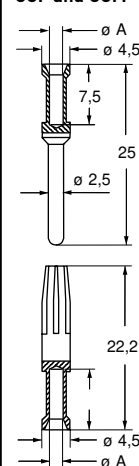
CCE 06 poles connector inserts
Maximum current load derating diagram

contacts side (front view)

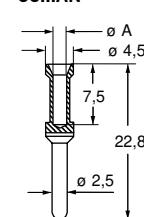


- it is recommended to crimp the contacts with
crimping tools homologated by ILME (please see
the crimping tool section 16A contacts, CCF, CCM
and CC...AN series on pages 708 - 741)

CCF and CCM



CC...AN



CCF, CCM and CC...AN contacts

conductor section mm ²	conductor slot ø A (mm)	conductors stripping length (mm)
0,14-0,37	0,9	7,5
0,5	1,1	7,5
0,75	1,3	7,5
1,0	1,45	7,5
1,5	1,8	7,5
2,5	2,2	7,5
3	2,55	7,5
4	2,85	7,5

CP - CP...RY 6 poles + ⊕ 35A - 400/690V

enclosures:
size "77.27"

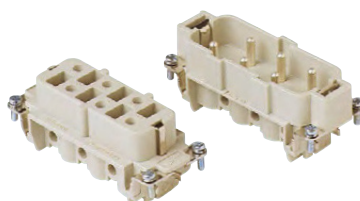
page:

C-TYPE IP65/IP66	402 - 411
C7 IP67, two levers	439 - 440
V-TYPE IP65/IP66, single lever	454 - 458
BIG hoods	470 - 471
T-TYPE IP65 insulating	484 - 485
T-TYPE / W IP66/IP69 insulating	491
HYGIENIC T-TYPE / H IP66/IP69	503
HYGIENIC T-TYPE / C IP66/IP69, -50 °C	508
W-TYPE for aggressive environments	523
E-Xtreme® corrosion proof	534 - 535, 544, 554 - 555
EMC	580
Central lever	609 - 611
LS-TYPE	622 - 623
IP68	640 - 643

panel supports:
COB

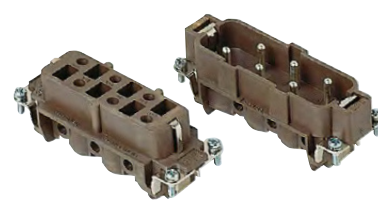
page:
652 - 653

inserts, screw terminal connection



Q SILVER PLATED CONTACTS

inserts, screw terminal connection



Q SILVER PLATED CONTACTS

description

part No.

part No.

indirect, with plate
female inserts with female contacts
male inserts with male contacts

CPF 06
CPM 06

indirect, with plate, use in temperatures up to 180 °C
female inserts with female contacts, brown
male inserts with male contacts, brown

CPF 06 RY
CPM 06 RY

- characteristics according to EN 61984:

35A 400/690V 6kV 3

- certified

- rated voltage according to UL/CSA: 600V

- insulation resistance: $\geq 10 \text{ G}\Omega$

- ambient temperature limit: -40 °C ... +125 °C

(CP RY version up to 180 °C)

- made of self-extinguishing thermoplastic resin UL 94V-0

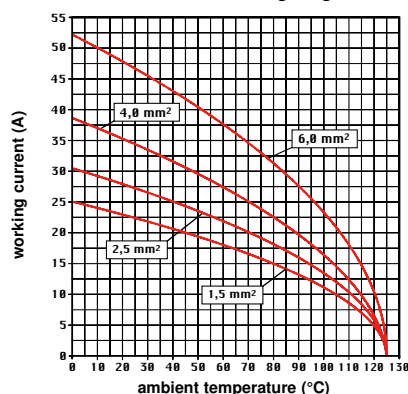
- mechanical life: ≥ 500 cycles

- contact resistance: $\leq 0,5 \text{ m}\Omega$

- for max. current load see the connector inserts derating diagrams below; for more information see page 28

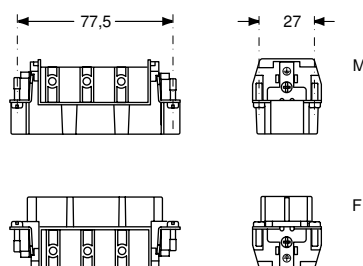
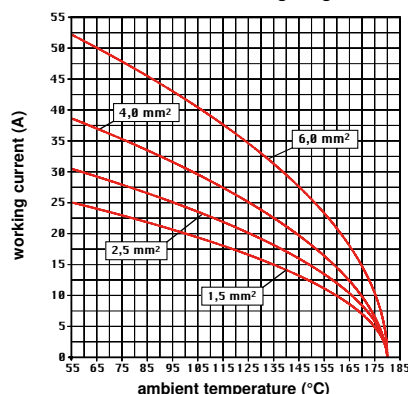
CP 06 poles connector inserts

Maximum current load derating diagram

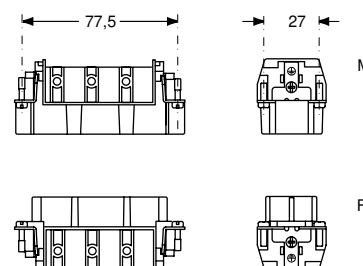
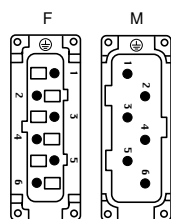


CP...RY 06 poles connector inserts

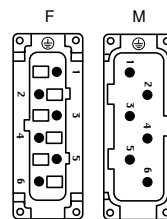
Maximum current load derating diagram



contacts side (front view)



contacts side (front view)



- inserts with plate, for section conductors:
0,75 - 6 mm² - AWG 18 - 10
- conductors stripping length: 10,5 mm
- terminal screw torque: 1,2 Nm (10,7 lb.in),
information see page 20 and 21

- inserts with plate, for section conductors:
0,75 - 6 mm² - AWG 18 - 10
- conductors stripping length: 10,5 mm
- terminal screw torque: 1,2 Nm (10,7 lb.in),
information see page 20 and 21

CQ4 series

TECHNICAL FEATURES

Inserts series		CQ4		
Cat. No.		CQ4F /M 02	CQ4F /M 02 H	CQ4F /M 03
No. of poles		2 + ⊕	2 + ⊕	3 + ⊕
rated current ¹⁾		40 A		
EN 61984 pollution degree 3	rated voltage	400 V	830 V	400 V
	rated impulse voltage	6 kV		
	pollution degree	3		
contact resistance		≤ 0,3 mΩ		
insulation resistance		≥ 10 GΩ		
ambient temperature limit (°C)	min. max.	-40 °C +125 °C		
degree of protection	with enclosures (according to version)	IP44, IP65, IP66, IP67, IP68, IP69		
	without enclosures: - in mated condition	IP20 IP20 (IPXXB)		
	- termination side on male and female inserts	IP20 (IPXXB)		
	- mating side on female inserts	IP20 (IPXXB)		
	- mating side on male inserts	IP20 (IPXXB)		IP1X (IPXXA)
conductor connections		crimp		
conductor cross-sectional area	mm ²	1,5 ... 10		
	AWG	16 ... 8		
stripping length	mm	9 – 9,6 – 15 (according to contact size)		
mechanical endurance (mating cycles)		≥ 500		

¹⁾ See derating diagrams

CQ 7 poles + ⊕ 10A - 400V

enclosures: size "21.21"	page:
Insulating type	339 - 348
Metallic type	349 - 363
W-TYPE for aggressive environments	512 - 518
EMC	564 - 572
IP68	628 - 631
E-Xtreme® corrosion proof	538 - 539

inserts, crimp connections



10A crimp contacts
silver and gold plated



description	part No.	part No
-------------	----------	---------

without contacts (to be ordered separately)
female inserts for female contacts
male inserts for male contacts

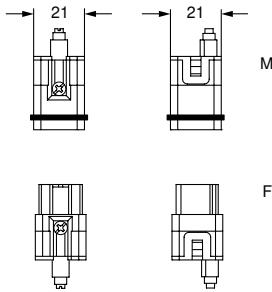
CQF 07
CQM 07

10A female contacts		
0,14-0,37 mm ²	AWG 26-22	identification No. 1
0,5 mm ²	AWG 20	identification No. 2
0,75 mm ²	AWG 18	identification No. ②
1 mm ²	AWG 18	identification No. 3
1,5 mm ²	AWG 16	identification No. 4
2,5 mm ²	AWG 14	identification No. 5

10A male contacts		
0,14-0,37 mm ²	AWG 26-22	identification No. 1
0,5 mm ²	AWG 20	identification No. 2
0,75 mm ²	AWG 18	identification No. ②
1 mm ²	AWG 18	identification No. 3
1,5 mm ²	AWG 16	identification No. 4
2,5 mm ²	AWG 14	identification No. 5

CDFA 0.3	silver plated	CDFD 0.3	gold plated+*
CDFA 0.5		CDFD 0.5	
CDFA 0.7		CDFD 0.7	
CDFA 1.0		CDFD 1.0	
CDFA 1.5		CDFD 1.5	
CDFA 2.5		CDFD 2.5	
CDMA 0.3		CDMD 0.3	
CDMA 0.5		CDMD 0.5	
CDMA 0.7		CDMD 0.7	
CDMA 1.0		CDMD 1.0	
CDMA 1.5		CDMD 1.5	
CDMA 2.5		CDMD 2.5	

- characteristics according to EN 61984:
10A 400V 6kV 3
- (UL for USA and Canada),
- certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 3 mΩ
- inserts already supplied with stainless steel fixing screw with gasket, which ensures IP66/IP67/IP69 degree of protection
- first-make last-break screw-type PE contact
- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 10A contacts, CDF and CDM series on pages 708 - 741)
- for max. current load see the connector inserts derating diagram below; for more information see page 28

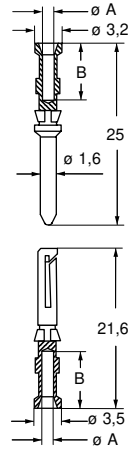


contacts side (front view)



Note:
PE screw connection for unprepared wires only

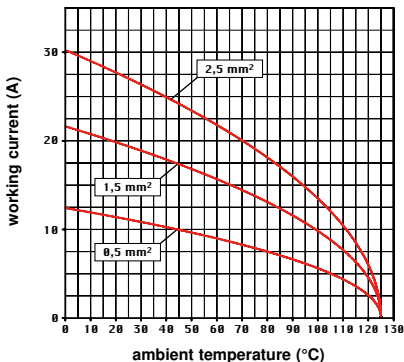
The **CR QF07** and **CR QM07** coding pins (to be ordered separately), allow the user to create 6 different combinations, according to the diagram shown on **page 690**



CDF and CDM contacts		
conductor section mm ²	conductor slot Ø A (mm)	conductors stripping length B (mm)
0,14-0,37	0,9	8
0,5	1,1	8
0,75	1,3	8
1,0	1,45	8
1,5	1,8	8
2,5	2,2	6

+* for basic or high thickness gold plating, please refer to page 674

CQ 07 poles connector inserts
Maximum current load derating diagram

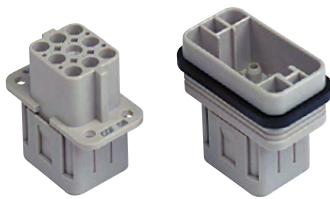


CQ 8 poles + ⊕ 16A - 500Venclosures:
size "32.13"

page:

insulating type
EMC365 - 367
573 - 574- can also be used partially fitted with 4 mm² section contactsISO 23570-3 standard and
DESINA specification
compliant

inserts, crimp connections

16A crimp contacts
standard or for advanced opening
silver and gold plated

STANDARD

ADVANCED OPENING

description

part No.

part No.

without contacts (to be ordered separately)

female inserts for female contacts

male inserts for male contacts

CQ 08
CQM 08

16A female contacts

0,14-0,37 mm ²	AWG 26-22	one groove
0,5 mm ²	AWG 20	with no grooves
0,75 mm ²	AWG 18	one groove (back side)
1 mm ²	AWG 18	one groove
1,5 mm ²	AWG 16	two grooves
2,5 mm ²	AWG 14	three grooves
3 mm ²	AWG 12	one wide groove
4 mm ²	AWG 12	with no grooves

16A male contacts

0,14-0,37 mm ²	AWG 26-22	one groove
0,5 mm ²	AWG 20	with no grooves
0,75 mm ²	AWG 18	one groove (back side)
1 mm ²	AWG 18	one groove
1,5 mm ²	AWG 16	two grooves
2,5 mm ²	AWG 14	three grooves
3 mm ²	AWG 12	one wide groove
4 mm ²	AWG 12	with no grooves

16A male crimp contacts for advanced opening

0,5 mm ²	AWG 20	with no grooves
0,75 mm ²	AWG 18	one groove (back side)
1 mm ²	AWG 18	one groove
1,5 mm ²	AWG 16	two grooves
2,5 mm ²	AWG 14	three grooves

CCFA 0.3
CCFA 0.5
CCFA 0.7
CCFA 1.0
CCFA 1.5
CCFA 2.5
CCFA 3.0
CCFA 4.0

silver plated

CCFD 0.3
CCFD 0.5
CCFD 0.7
CCFD 1.0
CCFD 1.5
CCFD 2.5
CCFD 3.0
CCFD 4.0
gold plated⁺
CCMA 0.3
CCMA 0.5
CCMA 0.7
CCMA 1.0
CCMA 1.5
CCMA 2.5
CCMA 3.0
CCMA 4.0
CCMD 0.3
CCMD 0.5
CCMD 0.7
CCMD 1.0
CCMD 1.5
CCMD 2.5
CCMD 3.0
CCMD 4.0
CC 0.5 AN
CC 0.7 AN
CC 1.0 AN
CC 1.5 AN
CC 2.5 AN
* for basic or high thickness
gold plating, please refer
to page 675

- characteristics according to EN 61984:

16A 500V 6kV 3
16A 400/690V 8kV 2- **UL** (UL for USA and Canada), **CE**, **CCC**, **DNV-GL**- **BUREAU VERITAS** ENEC certified

- rated voltage according to UL/CSA: 600V

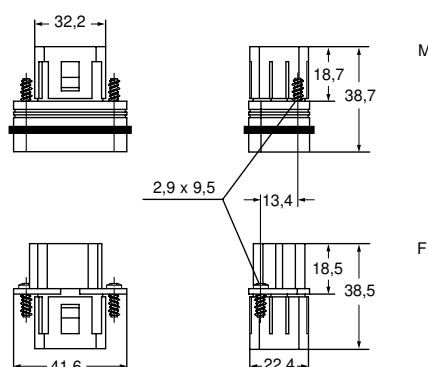
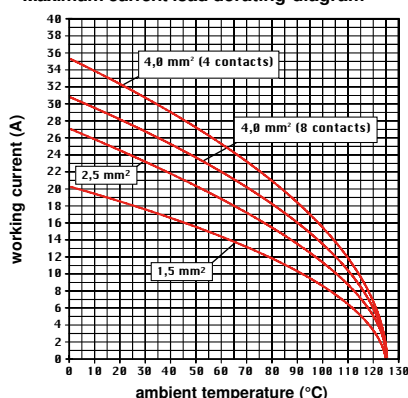
- insulation resistance: ≥ 10 G Ω

- ambient temperature limit: -40 °C ... +125 °C

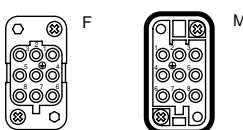
- made of self-extinguishing thermoplastic resin UL 94V-0

- mechanical life: ≥ 500 cycles- contact resistance: ≤ 3 m Ω

- for max. current load see the connector inserts derating diagram below; for more information see page 28

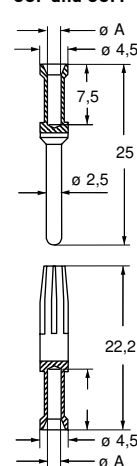
CQ 08 poles connector inserts
Maximum current load derating diagram

contacts side (front view)

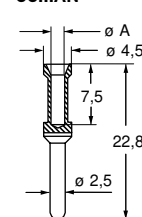


- each insert supplied with 2 fixing screws, self-tapping, zinc plated steel Ø2,9x9,5 mm, Ph1
- it is recommended to crimp the contacts with crimping tools homologated by ILME (please see the crimping tool section 16A contacts, CCF, CCM and CC...AN series on pages 708 - 741)

CCF and CCM



CC...AN

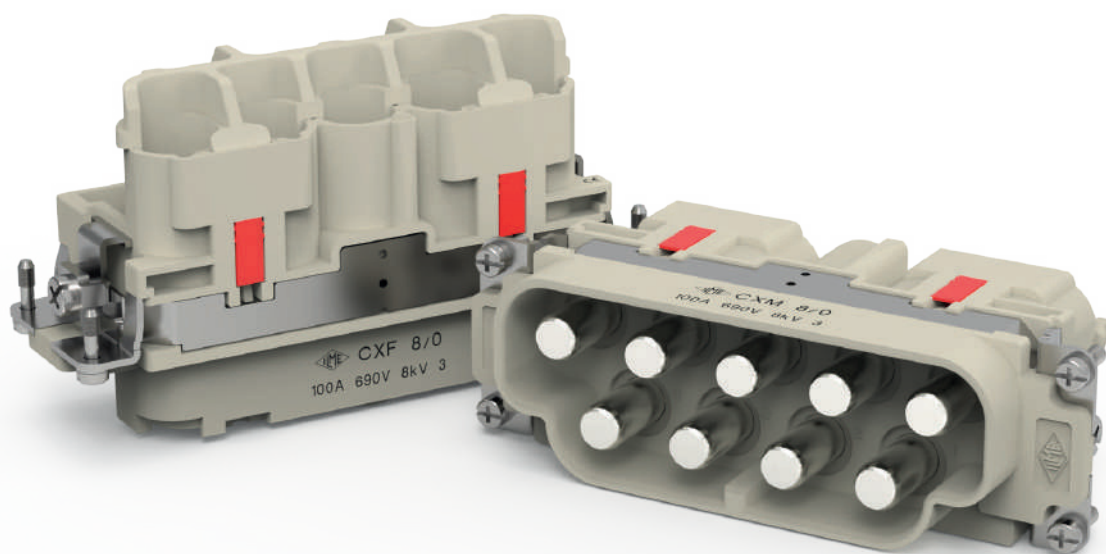


CCF, CCM and CC...AN contacts

conductor section mm ²	conductor slot Ø A (mm)	conductors stripping length (mm)
0,14-0,37	0,9	7,5
0,5	1,1	7,5
0,75	1,3	7,5
1,0	1,45	7,5
1,5	1,8	7,5
2,5	2,2	7,5
3	2,55	7,5
4	2,85	7,5

CX SERIES - POWER CRIMP CONNECTOR

CXF /M 8/0



For use with up to 8 (+ 1 for $\oplus$)
removable crimp contacts series CG,
with working current up to 100 A
8 poles + $\oplus$: 100 A 690 V 8 kV 3



Find more
information on
our products at
www.ilme.com

TECHNICAL FEATURES

CXF /M 8/0

For use with up to 8 (+ 1 for ⊕) removable crimp contacts series **CG** (9 contacts required to fill the connector), **for use with working current up to 100 A** (derating diagrams under construction). Series **CG** contacts are available in four sizes (10, 16, 25, 35) covering the corresponding stranded conductor cross-sectional area (mm²) (class 5 per IEC 60228) and corresponding AWG.

No auxiliary (signal) contact (in the same size, CX 6/6 has seats for 6 + ⊕ 100 A power contacts series CG and for 6 16 A auxiliary contacts series CC).

Crimp connection technology, providing benefits over the competing axial screw technology:

- higher resistance to mechanical stresses such as vibration, shock and strain on wire strands, e.g. creep due to thermal cycling;
- gas tightness providing outstanding corrosion resistance;
- faster connection time and more consistent results (independence from operator-applied tightening torque);
- higher connector efficiency (lower voltage drop).

Upon insert fitted with crimped connections, the contact holder is firmly locked in place by **four provided locking keys**, red coloured (**proprietary ILME design**), ensuring quick fitting and removal of crimped connections. Removal by simple flat blade screwdriver (e.g. 0,5 x 3 mm, 0,6 x 4 mm or 0,8 x 4 mm).

Inserts made by UL 94V-0 glass reinforced polycarbonate, EN 45545-2:2015 compliant.

Crimping of **CG** series contacts to be carried out with the **hand-operated hydraulic pliers CPPZ C** to be fitted with the suitable locator **CGPZ LOC**. Suitable crimping dies **CGD..C** available on request (see CN.19 p. 720).

PE power crimp contact to be fitted in the centre of the insert of the same size of the (up to) 8 line power contacts; thanks to its deeper seat on the female insert it is a FMLB contact (*first-make, last-break*) and is made equipotential, by internal metal spring elements, to the integral outer PE busbar welded to the two lateral PE mounting plates, to bond to earth the enclosure (bonding to PE required for metal enclosures). Additional PE screw terminal with pressure plate for conductors up to 4 mm² / 12 AWG on PE plate closer to pole #1.

Interchangeable and intermateable with competitor products (available only with axial screw contacts and limited to 25 mm² / 4 AWG).

Power connector suitable for energizing e.g. two 3-phase + N AC motors.

Maximum overall diameter of wires: 11,5 mm (same as for the 6+PE power contacts of CXF/M 6/6 combined connector inserts).

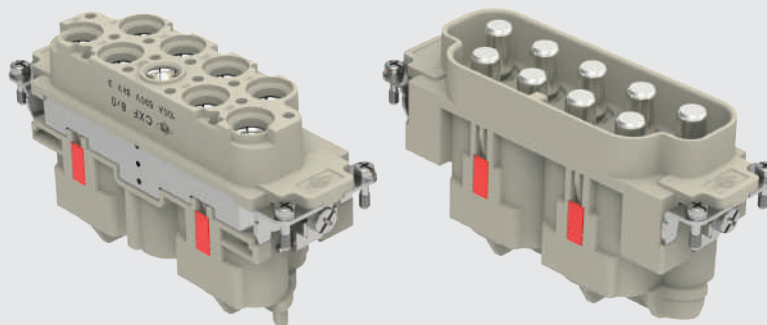
cURus, CSA, CQC, DNV-GL, BV, EAC pending.

RoHS: compliant without exemptions.

NOTE - The turned crimp contacts series **CG** are **RoHS** compliant with exemption **6(c)**.

the four provided locking keys, red coloured (proprietary ILME design) firmly lock in place the contact holder

crimp contacts CG series are separately available



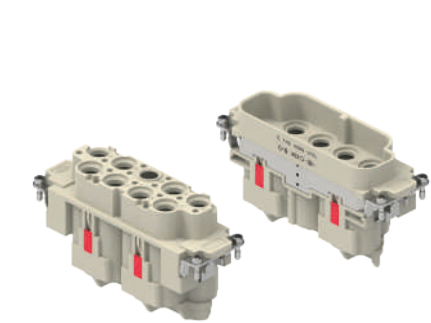
CXF /M 8/0 8 poles (100 A - 690 V) + ⊕

enclosures: size "104.27"	page:
C-TYPE IP65 or IP66/IP69	412 - 423
C7 IP67, two levers	441 - 442
V-TYPE IP65 or IP66/IP69, single lever	459 - 463
BIG hoods	472 - 473
T-TYPE IP65 insulating	486 - 487
T-TYPE / W IP66/IP69 insulating	492
HYGIENIC T-TYPE / H IP66/IP69	504
HYGIENIC T-TYPE / C IP66/IP69, -50 °C	509
W-TYPE for aggressive environments	524
E-Xtreme® corrosion proof	536 - 537, 545, 556 - 557
EMC	581
Central lever	612 - 614
LS-TYPE	624 - 625
IP68	644 - 647
panel supports: COB	652 - 653

enclosures:
bulkhead mounting housings, high construction housings
or high construction hoods

refer to CN.19 pages

inserts, crimp connections



FROM SEPTEMBER 2021

100 A crimp contacts
silver plated



description	part No.	part No.
-------------	----------	----------

without contacts (to be ordered separately)
female inserts for female contacts
male inserts for male contacts

CXF 8/0
CXM 8/0

100A female crimp contacts
8 - 10 mm² AWG 8 - 7
16 mm² AWG 6 - 5
25 mm² AWG 4 - 3
35 mm² AWG 2

100A male crimp contacts
8 - 10 mm² AWG 8 - 7
16 mm² AWG 6 - 5
25 mm² AWG 4 - 3
35 mm² AWG 2

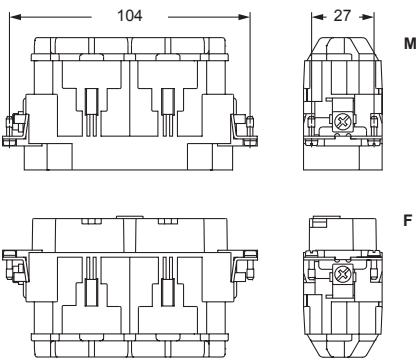
CGFA 10
CGFA 16
CGFA 25
CGFA 35

CGMA 10
CGMA 16
CGMA 25
CGMA 35

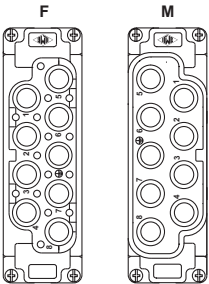
silver plated

- characteristics according to EN/IEC 61984 ratings:
100 A 690 V 8 kV 3
- cURus, CSA, CQC, DNV-GL, BV, EAC pending
- rated voltage according to UL/CSA: 600 V
- insulation resistance: ≥ 10 GΩ
- Lower and Upper Limiting Temperatures (LLT ... ULT):
-40 °C ... +125 °C
- made by UL 94V-0 glass reinforced polycarbonate,
EN 45545-2:2015 compliant
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 0,3 mΩ
- it is recommended to crimp the contacts with
crimping tools homologated by ILME (please see the
crimping tool section 100 A contacts CGF, CGM series,
on pages 708 - 741 of CN.19 catalogue).
- for max. current load see the connector inserts derating
diagrams under construction.

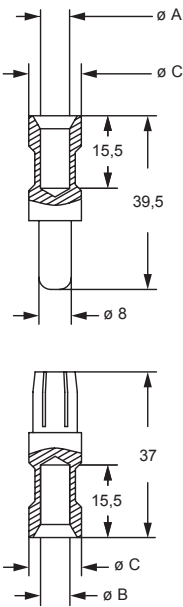
CXF 8/0, CXM 8/0



contacts side (front view)



CGF and CGM



CGF and CGM contacts				
conductor section (mm²)	conductor slot Ø A (mm)	Ø B (mm)	Ø C (mm)	conductor stripping length (mm)
8-10	4,3	4,3	13	15
16	5,5	5,5	13	15
25	7,0	7,0	13	15
35	7,9	8,2	12,5	15

enclosures:
size "21.21"

page:

Insulating type	339 - 348
Metallic type	349 - 363
W-TYPE for aggressive environments	512 - 518
EMC	564 - 572
IP68	628 - 631
E-Xtreme® corrosion proof	538 - 539

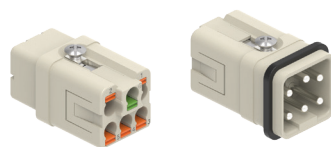
page:

COB 03/3 BC 134

refer to CN.19 pages

refer to News 2020 pages

inserts,
AXYR® terminal connections



Q SIZE "21.21"

FROM NOVEMBER 2022

description

part No.

spring/AXYR® push-in connection
female inserts with female contacts
male inserts with male contacts

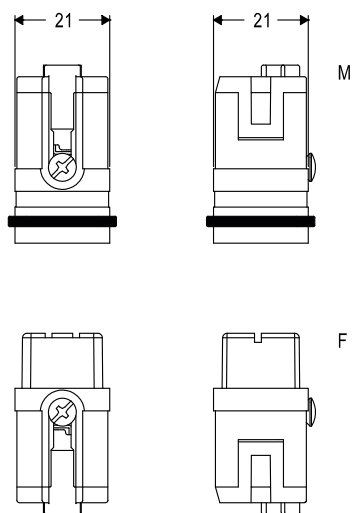
CQYF 05
CQYM 05

- characteristics according to EN 61984:
16 A 230/400 V 4 kV 3

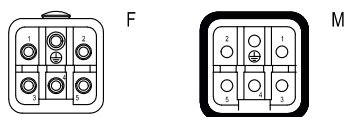
- cURus (ECBT2/8 and PVVA2/8) pending
- CQC, EAC, DNV-GL, BV pending

- rated voltage according to UL/CSA: 600 V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40 \text{ }^{\circ}\text{C} \dots +125 \text{ }^{\circ}\text{C}$
- made by UL 94V-0 glass reinforced polycarbonate, EN 45545-2:2015 compliant
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 3 \text{ m}\Omega$

- for max. current load see the connector inserts derating diagram under construction; for more information see page 28 of CN.19 catalogue



contacts side (front view)



- inserts for conductors with the following cross-sectional areas, either ferruled or unferruled:
0,25 mm² - 2,5 mm² (AWG 24-14)

- conductors stripping length: 9...11 mm

CQYF /M 08E 8 poles + ⊕ 16 A - 500 V

enclosures:
size "32.13"

page:

metallic

38

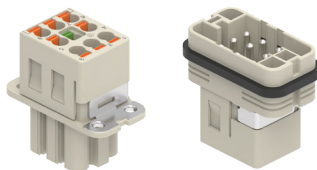
insulating type
EMC (insulating)

365 - 367
573 - 574

ISO 23570-3
standard and DESINA,
specification compliant



inserts,
AXYR® terminal connections



Q SILVER PLATED CONTACTS
FROM NOVEMBER 2022

refer to CN.19 pages

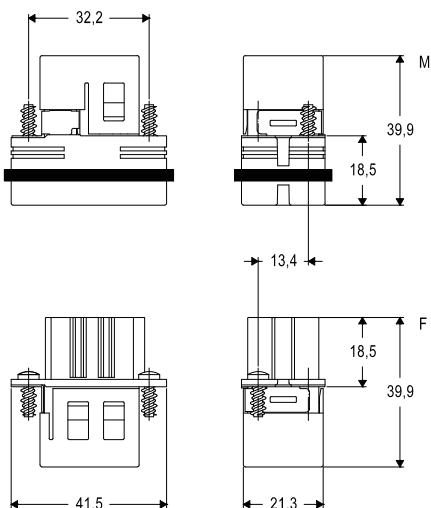
description

part No.

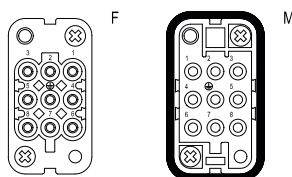
spring/AXYR® push-in connection
female insert with female contacts
male insert with male contacts

CQYF 08E
CQYM 08E

- characteristics according to EN 61984:
16 A 500 V 6 kV 3
16 A 400/690 V 8 kV 2
- cURus (ECBT2/8 and PVVA2/8) pending
- CQC, EAC, DNV-GL, BV pending
- rated voltage according to UL/CSA: 600 V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- made by UL 94V-0 glass reinforced polycarbonate, EN 45545-2:2015 compliant
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 3 \text{ m}\Omega$
- coded for use with "32.13" metallic enclosures (and insulating enclosures)
- for max. current load see the connector inserts derating diagram under construction; for more information see page 28 of CN.19 catalogue



contacts side (front view)



- inserts for conductors with the following sections
either ferruled or unferruled:
0,25 mm² - 2,5 mm² (AWG 24-14)
- conductors stripping length: 9...11 mm

**Q Please refer to page 34 for the
CQ 08 NEW METAL CONCEPT solution**

coding pin

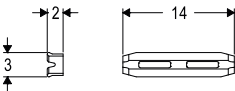


description		part No.
-------------	--	----------

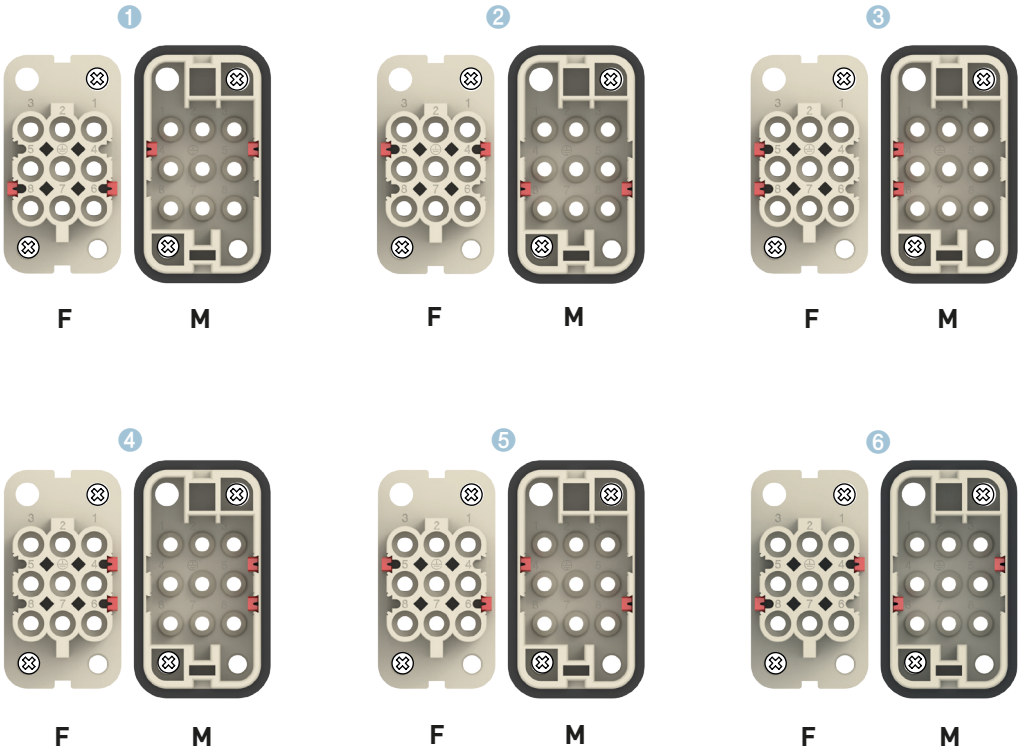
plastic coding pin

CR Q08E

- It is possible to achieve up to **6 different codings** thanks to the use of the optional CR Q08E coding pin: 4 coding pins are required for each connector coupling.
- It is necessary to install two coding pins on each connector part.



CR Q08E CODING OPTIONS



CQYF /M 08E 8 poles + ⊕ 16 A - 500 V

enclosures:
size "32.13"

page:

metallic

38

insulating type
EMC (insulating)

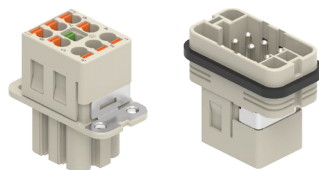
365 - 367
573 - 574

ISO 23570-3
standard and DESINA®
specification compliant



refer to CN.19 pages

inserts,
AXYR® terminal connections



Q SILVER PLATED CONTACTS
FROM NOVEMBER 2022

description

part No.

spring/AXYR® push-in connection
female inserts with female contacts
male inserts with male contacts

CQYF 08E
CQYM 08E

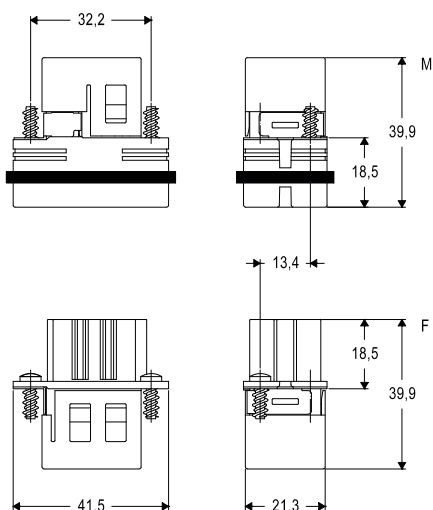
- characteristics according to EN 61984:

16 A 500 V 6 kV 3
16 A 400/690 V 8 kV 2

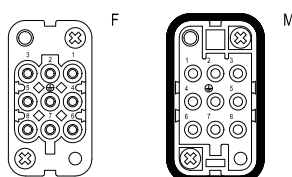
- cURus (ECBT2/8 and PVVA2/8) pending
- CQC, EAC, DNV-GL, BV pending

- rated voltage according to UL/CSA: 600 V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- made by UL 94V-0 glass reinforced polycarbonate,
EN 45545-2:2015 compliant
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 3 \text{ m}\Omega$
- each insert supplied with 2 fixing screws,
self-tapping, zinc plated steel $\varnothing 2,9 \times 9,5 \text{ mm}$, Ph1

- for max. current load see the connector inserts
derating diagram under construction; for more
information see page 28 of CN.19 catalogue



contacts side (front view)



- inserts for conductors with the following sections
either ferruled or unferruled:
0,25 mm² - 2,5 mm² (AWG 24-14)

- conductors stripping length: 9...11 mm

Coding pin
CR Q08E
(refer to page 39)



enclosures:
size "32.13"

page:

metallic

38

insulating type
EMC (insulating)

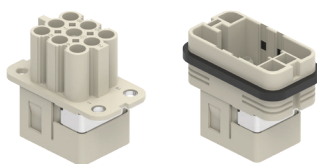
365 - 367
573 - 574

ISO 23570-3
standard and DESINA®
specification compliant



refer to CN.19 pages

inserts,
crimp connections



FROM MAY 2022

16 A crimp contacts
standard or for advanced opening
silver and gold plated



STANDARD

ADVANCED
OPENING

description

part No.

without contacts (to be ordered separately)
female insert for female contacts
male insert for male contacts

CQF 08E
CQM 08E

16 A female contacts

0,14-0,37 mm ²	AWG 26-22	one groove
0,5 mm ²	AWG 20	with no grooves
0,75 mm ²	AWG 18	one groove (back side)
1 mm ²	AWG 18	one groove
1,5 mm ²	AWG 16	two grooves
2,5 mm ²	AWG 14	three grooves
3 mm ²	AWG 12	one wide groove
4 mm ²	AWG 12	with no grooves

16 A male contacts

0,14-0,37 mm ²	AWG 26-22	one groove
0,5 mm ²	AWG 20	with no grooves
0,75 mm ²	AWG 18	one groove (back side)
1 mm ²	AWG 18	one groove
1,5 mm ²	AWG 16	two grooves
2,5 mm ²	AWG 14	three grooves
3 mm ²	AWG 12	one wide groove
4 mm ²	AWG 12	with no grooves

16 A male crimp contacts for advanced opening

0,5 mm ²	AWG 20	with no grooves
0,75 mm ²	AWG 18	one groove (back side)
1 mm ²	AWG 18	one groove
1,5 mm ²	AWG 16	two grooves
2,5 mm ²	AWG 14	three grooves

CCFA 0.3
CCFA 0.5
CCFA 0.7
CCFA 1.0
CCFA 1.5
CCFA 2.5
CCFA 3.0
CCFA 4.0

silver plated

CCFD 0.3
CCFD 0.5
CCFD 0.7
CCFD 1.0
CCFD 1.5
CCFD 2.5
CCFD 3.0
CCFD 4.0

gold plated*

CCMA 0.3
CCMA 0.5
CCMA 0.7
CCMA 1.0
CCMA 1.5
CCMA 2.5
CCMA 3.0
CCMA 4.0

CCMD 0.3
CCMD 0.5
CCMD 0.7
CCMD 1.0
CCMD 1.5
CCMD 2.5
CCMD 3.0
CCMD 4.0

CC 0.5 AN
CC 0.7 AN
CC 1.0 AN
CC 1.5 AN
CC 2.5 AN

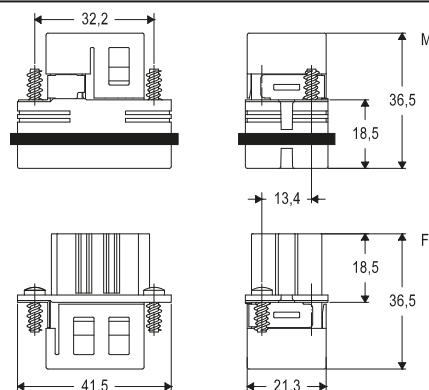
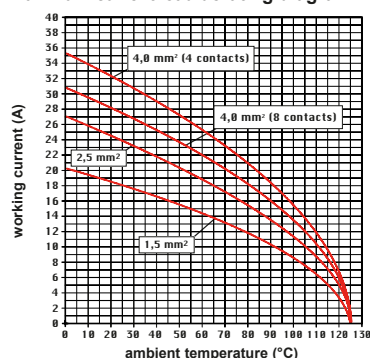
* for basic or high thickness
gold plating, please refer to
CN.19 at page 675

- characteristics according to EN 61984:

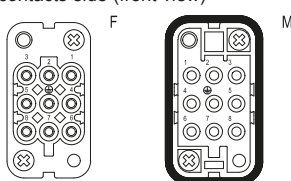
16 A 500 V 6 kV 3
16 A 400/690 V 8 kV 2

- cURus (ECBT2/8 and PVVA2/8) pending
- CQC, EAC, DNV-GL, BV pending
- rated voltage according to UL/CSA: 600 V
- insulation resistance: ≥ 10 G Ω
- ambient temperature limit: -40 °C ... +125 °C
- made by UL 94V-0 glass reinforced polycarbonate, EN 45545-2:2015 compliant
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 1 m Ω
- each insert supplied with 2 fixing screws, self-tapping, zinc plated steel $\varnothing 2,9 \times 9,5$ mm, Ph1
- it is recommended to crimp the contacts with crimping tools homologated by ILME (please refer to the crimping tool section 16 A contacts, CCF, CCM and CC...AN series on CN.19, pp 708-741)
- for max. current load see the connector inserts derating diagram below; for more information see page 28 of CN.19 catalogue

CQ 08E poles connector inserts
Maximum current load derating diagram



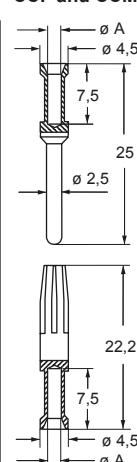
contacts side (front view)



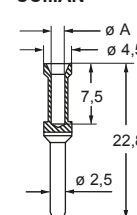
Coding pin
CR Q08E
(refer to page 39)



CCF and CCM



CC...AN

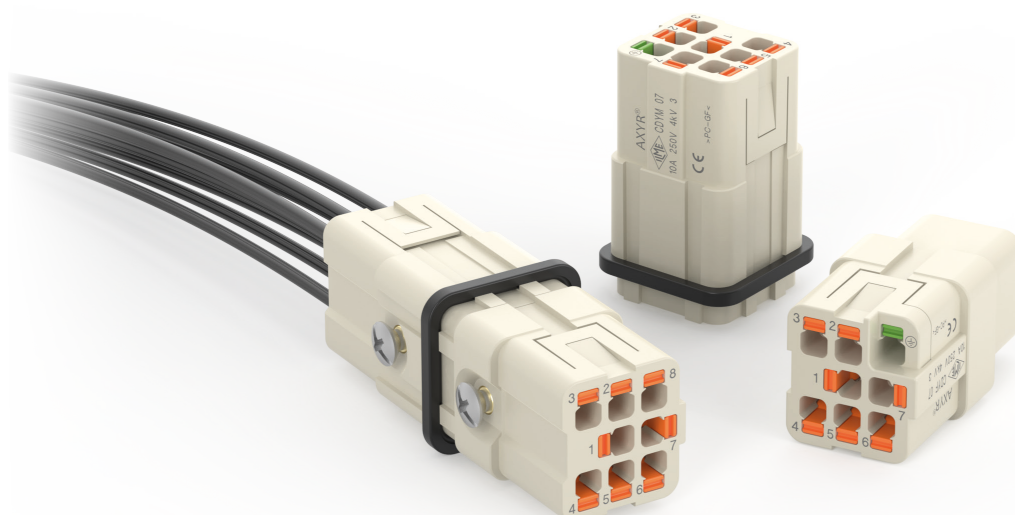


CCF, CCM and CC...AN contacts

conductor section mm ²	conductor slot $\varnothing A$ (mm)	conductors stripping length (mm)
0,14-0,37	0,9	7,5
0,5	1,1	7,5
0,75	1,3	7,5
1,0	1,45	7,5
1,5	1,8	7,5
2,5	2,2	7,5
3	2,55	7,5
4	2,85	7,5

AXYR® CDYF /M 07 and CDYF /M 08

**New 10 A inserts
with AXYR® connection technology**



CDY 07

7 P + $\oplus$: 10 A 250 V 4 kV 3 (230/400 V 4 kV 2)

CDY 08

8 P: 10 A 50 V_{AC} / 120 V_{DC} 0,8 kV 3



Find out more
www.ilme.com

TECHNICAL FEATURES

The **AXYR® technology** is now being implemented in an even more compact version for the 10 A, size “21.21”, connector inserts equivalent to the CDF /M 07 and CDF /M 08 ones of the popular crimp series **CD**. By offering a considerably compact spring push-in termination, which is able – where the contact pitch allows – to equal the density reached by the crimp connection technology with the great advantage of **not requiring any specialized tool**, these new **AXYR®** variants provide a tool-less option in the popular “21.21” square format when more than the 5 contacts of CQ 05 and CQY 05 are required, where the investment in the crimping technology is not justified.

These new models, series **CDY**, respectively:

Q CDYF /M 07 (7 P + ⊕): 10 A 250 V 4 kV 3 (230/400 V 4 kV 2)

Q CDYF /M 08 (8 P): 10 A 50 V_{AC} / 120 V_{DC} 0,8 kV 3

for the covered range of wiring provide *interchangeability*, i.e., the highest level of *compatibility*, implying *intermountability* and *intermateability*, with the corresponding crimp versions, respectively CDF /M 07 and CDF /M 08.

The new inserts equipped with **AXYR®** spring push-in technology — whose actuator button is required only for the release of the connection or for opening the terminal when using stranded unprepared wires, or solid or ferruled wires with cross-sectional area < 0,75 mm² / 18 AWG) — offer a wide size range:

Q 0,14 mm² to 1,5 mm² (AWG 26-16) for ferruled (prepared) flexible copper wires;

Q 0,14 mm² to 2,5 mm² (AWG 24-14) for unferruled (unprepared) solid or flexible copper wires.

When using solid copper wire or ferruled stranded copper wire with cross-sectional area (CSA) 0,75 mm² / 18 AWG or higher, it is possible to terminate the wire by simple push-in action of the stripped or ferruled wire.

In all other instances (stranded wire or solid or ferruled wire with CSA < 0,75 mm² / 18 AWG) in order to displace the spring and open the terminal, it is necessary to push down the actuator button by using a flat-blade screwdriver 0,5 × 3 mm max.

Q The 8-pole **CDYF /M 08 AXYR®** models, like the affine CDF /M 08 crimp ones, being destined to applications in ELV (extra-low voltage, voltage band I) up to and including 50 V_{AC} / 120 V_{DC}, not requiring a PE (protective earth) contact, are duly **keyed in order to fit both insulating and metallic enclosures size “21.21”**.

Q The 7-pole + ⊕ **CDYF /M 07 AXYR®** models, like the affine CDF /M 07 crimp ones, deemed for uses up to 250 V_{AC/DC} (voltage band II) and having the **AXYR®** PE contact as a pass-through one, not providing PE bonding contact to the surrounding enclosure, are **keyed in order to fit only insulating enclosures size “21.21”**.

Q The mating faces of these 8 P and 7 P + ⊕ **AXYR®** connector inserts are also differently polarized in order to avoid cross-mating of different polarities, while the cross-mating between of variants **AXYR®** and crimp with the same polarity is allowed.

Q Conductors stripping length: 9..11 mm.

Q Silver plated contacts, stainless steel spring and tin plated brass stamped cage terminals.

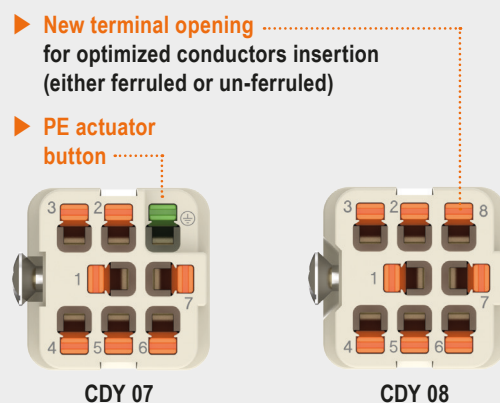
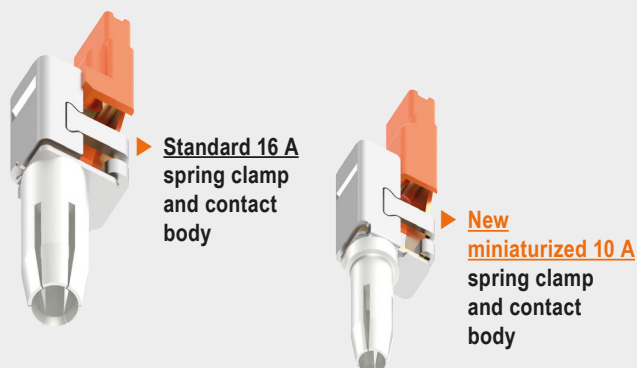
Q CKR 65 special screw + sealing gasket replacement for getting IP66/IP67/IP69 degree of protection (standard screw provides degree of protection only when using insulating enclosures).

NOTE – Additional colour coding with dark grey RAL 7002, like formerly in use for CDF /M 07 is no longer applied. CDY 07 and CDY 08 can be easily distinguished by the presence on the CDY 07 inserts of a **green-coloured PE actuator button**, while all buttons of the CDY 08 are **orange-coloured**.

Q Max diameter of wire sheathing or ferrule funnel: ø 3,8 mm (unprepared wire size 2,5 mm² / AWG 14 or ferruled wire size 1,5 mm² / AWG 16)

✓ CERTIFICATIONS

- cURus, CQC, DNV, BV, EAC (only for CDY 07) pending.
- **CE** and **UKA** markings (only for CDY 07).
- **RoHS**: compliant with exemption 6(c).



CDY 7 poles + ⊕ 10 A – 250 V

enclosures:
size "21.21"

page:

Insulating type

339 - 348

page:

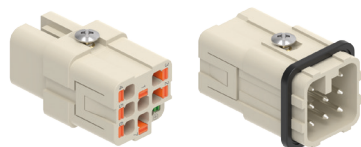
HYGIENIC CKH-MKH
COB 03/3 BC

108 - 114
134

refer to CN.19 pages

refer to News 2020 pages

AXYR® inserts
push-in spring clamp with actuator button



Q SIZE "21.21"

FROM NOVEMBER 2023

description

part No.

spring/AXYR® push-in connection
female insert with female contacts
male insert with male contacts

[CDYF 07](#)
[CDYM 07](#)

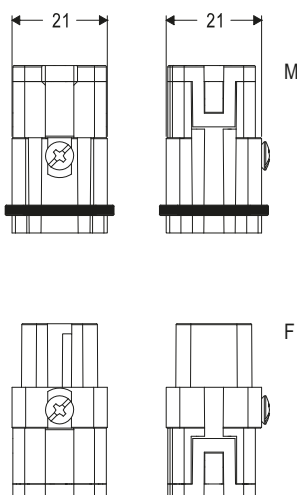
- characteristics according to EN 61984:

10 A 250 V 4 kV 3
10 A 230/400 V 4 kV 2

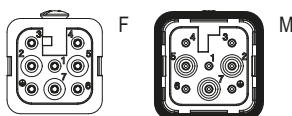
- cURus (ECBT2/8 and PVVA2/8) pending
- CQC, DNV, BV, EAC pending

- rated voltage according to UL/CSA: 600 V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40 \text{ }^{\circ}\text{C} \dots +125 \text{ }^{\circ}\text{C}$
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 3 \text{ m}\Omega$
- max diameter of wire sheathing or ferrule funnel: $\varnothing 3,8 \text{ mm}$ (unprepared wire size $2,5 \text{ mm}^2$ / AWG 14 or ferruled wire size $1,5 \text{ mm}^2$ / AWG 16)

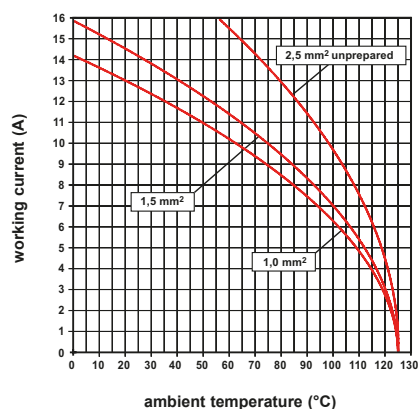
- for max. current load see the connector inserts derating diagram below; for more information see page 28 of CN.19 catalogue.



contacts side (front view)



CDY 07 poles connector inserts Maximum current load derating diagram



inserts for conductors with the following cross-sectional areas:

- unprepared conductor
 $0,14 \text{ mm}^2 - 2,5 \text{ mm}^2$ (AWG 26-14)
- prepared conductor with crimped end-sleeve
 $0,14 \text{ mm}^2 - 1,5 \text{ mm}^2$ (AWG 26-16)
- conductors stripping length: 9..11 mm

CDY 8 poles 10 A – 50 V_{AC} / 120 V_{DC}

enclosures:
size "21.21"

page:

Insulating type	339 - 348
Metallic type	349 - 363
W-TYPE for aggressive environments	512 - 518
EMC	564 - 572
IP68	628 - 631
E-Xtreme® corrosion proof	538 - 539

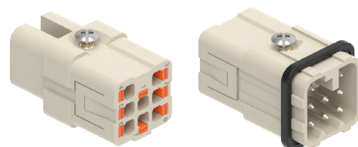
page:

HYGIENIC CKH-MKH	108 - 114
COB 03/3 BC	134

refer to CN.19 pages

refer to News 2020 pages

AXYR® inserts
push-in spring clamp with actuator button



Q SIZE "21.21"

FROM NOVEMBER 2023

description

part No.

spring/AXYR® push-in connection
female insert with female contacts
male insert with male contacts

[CDYF 08](#)
[CDYM 08](#)

- characteristics according to EN 61984:

10 A 50 V_{AC} / 120 V_{DC} 0,8 kV 3

- cURus (ECBT2/8 and PVVA2/8) pending
- CQC, DNV, BV pending

- rated voltage according to UL/CSA: 50 V_{AC} / 120 V_{DC}

- insulation resistance: $\geq 10 \text{ G}\Omega$

- ambient temperature limit: -40 °C ... +125 °C

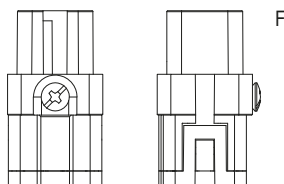
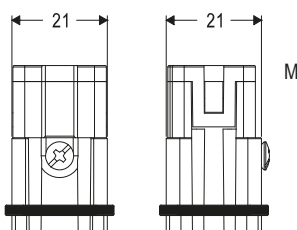
- made of self-extinguishing thermoplastic resin UL 94V-0

- mechanical life: ≥ 500 cycles

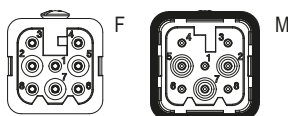
- contact resistance: $\leq 3 \text{ m}\Omega$

- max diameter of wire sheathing or ferrule funnel:
 $\varnothing 3,8 \text{ mm}$ (unprepared wire size $2,5 \text{ mm}^2$ / AWG 14
or ferruled wire size $1,5 \text{ mm}^2$ / AWG 16)

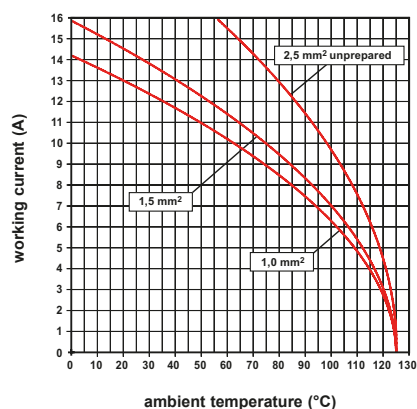
- for max. current load see the connector inserts
derating diagram below; for more information
see page 28 of CN.19 catalogue.



contacts side (front view)



CDY 08 poles connector inserts Maximum current load derating diagram



inserts for conductors with the following cross-sectional areas:

- unprepared conductor
 $0,14 \text{ mm}^2 - 2,5 \text{ mm}^2$ (AWG 26-14)
- prepared conductor with crimped end-sleeve
 $0,14 \text{ mm}^2 - 1,5 \text{ mm}^2$ (AWG 26-16)
- conductors stripping length: 9..11 mm