

enclosures:
size "21.21"

page:

insulating type 201 - 202
metallic type 203 - 205
aggressive environments 325
EMC 343
IP68 372 - 373

- can be mated with CKS inserts

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

inserts, 3 poles + ⊕
screw terminal connections



silver
plated
contacts

inserts, 4 poles + ⊕
screw terminal connections



silver
plated
contacts

description

part No.

part No.

part No.

part No.

distinctive colour
female inserts with female contacts ¹⁾
male inserts with male contacts

white
CKF 03
CKM 03

black
CKF 03 N
CKM 03 N

distinctive colour
female inserts with female contacts ¹⁾
male inserts with male contacts

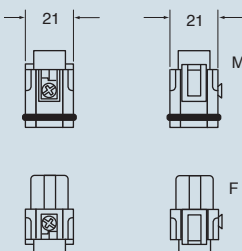
white
CKF 04
CKM 04

black
CKF 04 N
CKM 04 N

- characteristics according to EN 61984:

- 10A 250V 4kV 3**
- 10A 230/400V 4kV 2**
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +100^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V1
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 492

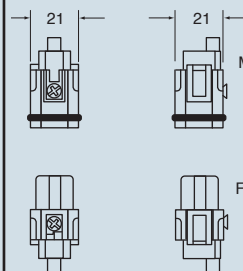
dimensions in mm



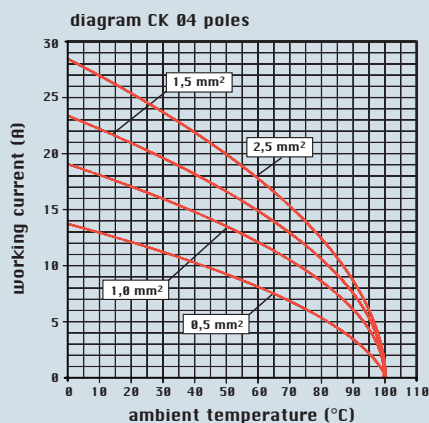
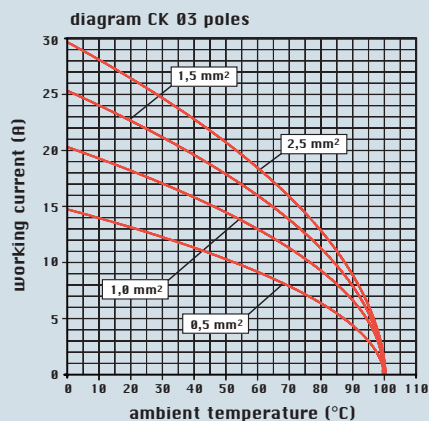
contacts side (front view)



dimensions in mm



contacts side (front view)



dimensions shown are not binding
and may be changed without notice

- inserts for connectors with the following sections:
0.75 - 2.5 mm² - AWG 18 - 14
- conductors stripping length: 6 mm
- terminal screw torque: 0.5 Nm (4.4 lb.in), for more information see page 21 and 22

- inserts for connectors with the following sections:
0.75 - 2.5 mm² - AWG 18 - 14
- conductors stripping length: 6 mm
- terminal screw torque: 0.5 Nm (4.4 lb.in), for more information see page 21 and 22

enclosures:
size "21.21"

page:

insulating type	201 - 202
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aggressive environments	325
EMC	343
IP68	372 - 373

- can be mated with CK inserts

inserts, 3 poles + ⊕
connection with spring terminal



silver
plated
contacts

inserts, 4 poles + ⊕
connection with spring terminal



silver
plated
contacts

description

part No.

part No.

female inserts with female contacts
male inserts with male contacts

CKSF 03
CKSM 03

female inserts with female contacts
male inserts with male contacts

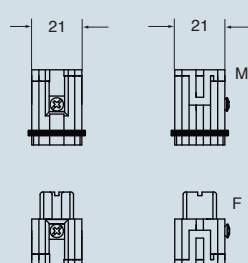
CKSF 04
CKSM 04

- characteristics according to EN 61984:

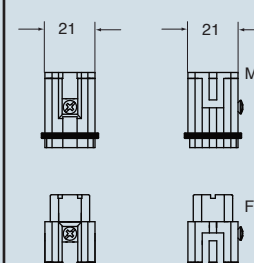
10A 400V 4kV 3

- certifications: cUL (UL for USA and Canada), CSA, CCC, GOST
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 492

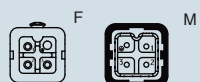
dimensions in mm



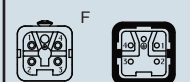
dimensions in mm



contacts side (front view)

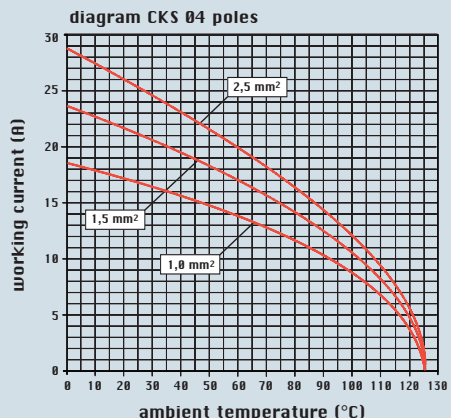
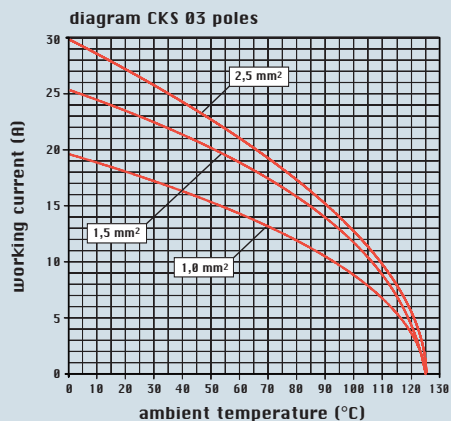


contacts side (front view)



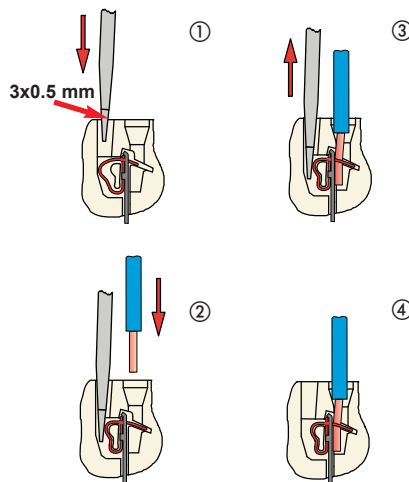
- inserts for wires with the following sections:
0.14 - 2.5mm² - AWG 26 - 14
for prepared wires
usable section: up to 1.5 mm² (AWG 16)
- conductors stripping length: 9...11 mm

- inserts for wires with the following sections:
0.14 - 2.5mm² - AWG 26 - 14
for prepared wires
usable section: up to 1.5 mm² (AWG 16)
- conductors stripping length: 9...11 mm

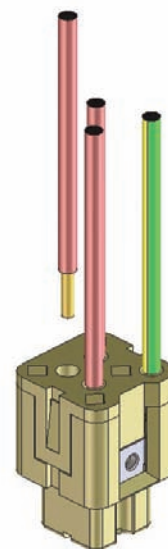


dimensions shown are not binding
and may be changed without notice

Connection with spring terminal



Rear top entry of wires for a more easier wiring



enclosures:
size "21.21"

page:

insulating type	201 - 202
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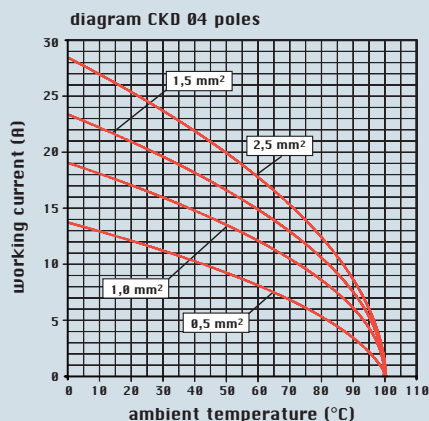
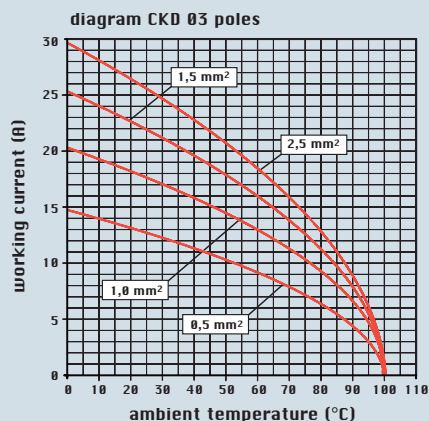
¹⁾ the female inserts can be mounted into the straight bulkhead housings CK I from the rear

description

female inserts with female contacts ¹⁾
male inserts with male contacts

female inserts with female contacts ¹⁾
male inserts with male contacts

- characteristics according to EN 61984:
10A 250V 4kV 3
10A 230/400V 4kV 2
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +100^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V1
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 492



dimensions shown are not binding
and may be changed without notice

inserts, 3 poles + ⊕
screw terminal connections



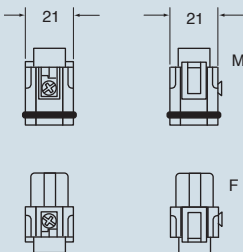
gold
plated
contacts

NEW

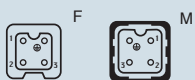
part No.

CKFD 03
CKMD 03

dimensions in mm



contacts side (front view)



- inserts for connectors with the following sections:
0.75 - 2.5 mm² - AWG 18 - 14
- conductors stripping length: 6 mm
- terminal screw torque: 0.5 Nm (4.4 lb.in), for more information see page 21 and 22

inserts, 4 poles + ⊕
screw terminal connections



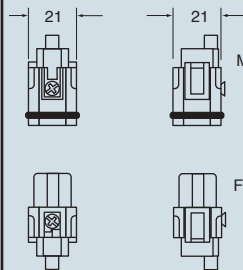
gold
plated
contacts

NEW

part No.

CKFD 04
CKMD 04

dimensions in mm



contacts side (front view)



- inserts for connectors with the following sections:
0.75 - 2.5 mm² - AWG 18 - 14
- conductors stripping length: 6 mm
- terminal screw torque: 0.5 Nm (4.4 lb.in), for more information see page 21 and 22

CK...RY 3 and 4 poles + ⊕ 10A - 250V



enclosures:
size "21.21"

page:

for 180 °C 353

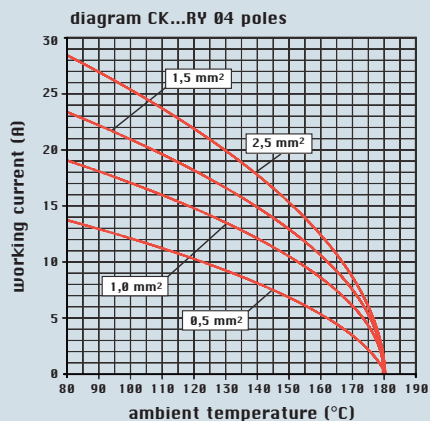
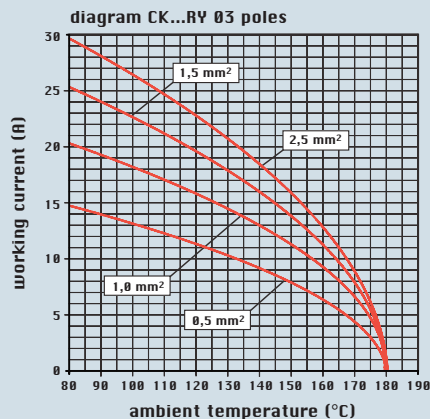
¹⁾ the female inserts can be mounted into the straight bulkhead housings CK I from the rear

description

use in temperatures up to 180 °C
female inserts with female contacts ¹⁾, brown
male inserts with male contacts, brown

use in temperatures up to 180 °C
female inserts with female contacts ¹⁾, brown
male inserts with male contacts, brown

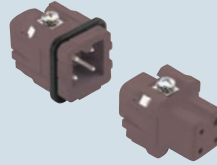
- characteristics according to EN 61984:
10A 250V 4kV 3
10A 230/400V 4kV 2
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: -40 °C ... +180 °C
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 493



dimensions shown are not binding
and may be changed without notice

inserts, 3 poles + ⊕
screw terminal connections

NEW



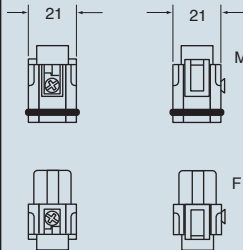
silver
plated
contacts

180 °C

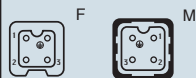
part No.

CKF 03 RY
CKM 03 RY

dimensions in mm



contacts side (front view)



- inserts for connectors with the following sections:
0.75 - 2.5 mm² - AWG 18 - 14
- conductors stripping length: 6 mm
- terminal screw torque: 0.5 Nm (4.4 lb.in), for more information see page 21 and 22

inserts, 4 poles + ⊕
screw terminal connections

NEW



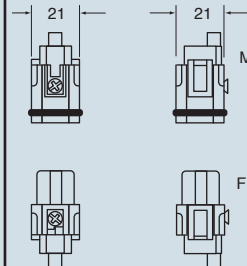
silver
plated
contacts

180 °C

part No.

CKF 04 RY
CKM 04 RY

dimensions in mm



contacts side (front view)



- inserts for connectors with the following sections:
0.75 - 2.5 mm² - AWG 18 - 14
- conductors stripping length: 6 mm
- terminal screw torque: 0.5 Nm (4.4 lb.in), for more information see page 21 and 22

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

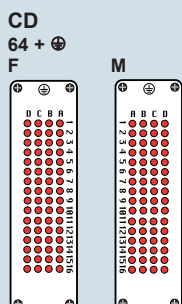
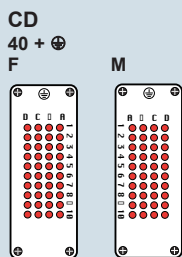
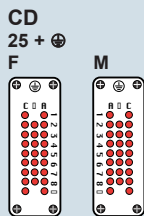
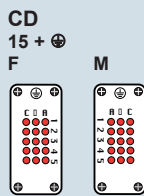
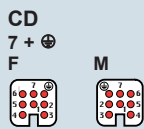
If the number of contacts is reduced and the contacts accordingly assigned, these connectors may be used with higher voltages. This is possible because the decrease in the number of contacts leads to an increase in the surface distance in the air. When the contacts are arranged as shown below, the inserts may be used for voltages of 500V (second column) pollution degree 3 in accordance with the standard EN 61984.

Legend:

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

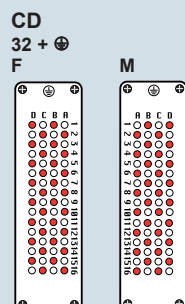
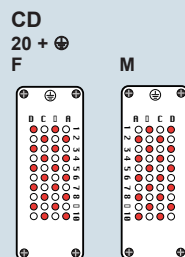
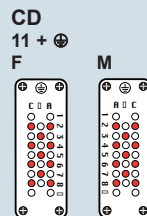
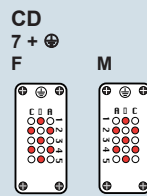
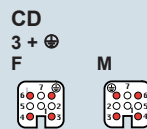
for use up to 250V
pollution degree 3

diagrams
contacts side (front view)



for use up to 500V
pollution degree 3

diagrams
contacts side (front view)



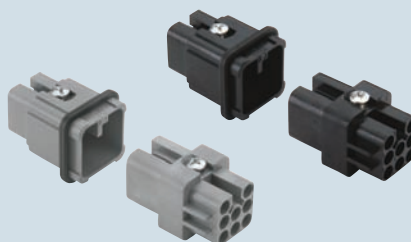
enclosures:
size "21.21"

page:

insulating type page: 201 - 202

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

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

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

silver plated
CDFA 0.3
CDFA 0.5
CDFA 0.7
CDFA 1.0
CDFA 1.5
CDFA 2.5

gold plated
CDFD 0.3
CDFD 0.5
CDFD 0.7
CDFD 1.0
CDFD 1.5
CDFD 2.5

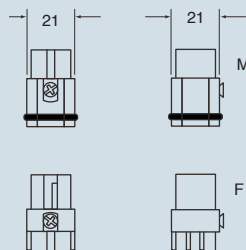
- characteristics according to EN 61984:

10A 250V 4kV 3

10A 230/400V 4kV 2

- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 G Ω
- ambient temperature limit: -40 °C ... +125 °C
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 3 m Ω
- for applications requiring higher voltages, please see the special voltage application section on page 44
- for contact crimping instructions, please see the crimping tool section (10A contacts, CDF and CDM series) on pages 466, 470, 480, 482, 484, 486
- for maximum current load, see the following load curves inserts, for more information see page 493

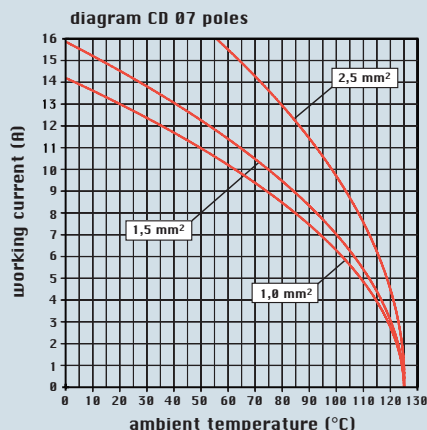
dimensions in mm



contacts side (front view)

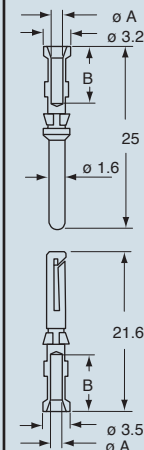


coding pin with loss of a contact CR CP, page 431



dimensions shown are not binding
and may be changed without notice

dimensions in mm



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

enclosures:

size "21.21"

page:

insulating type 201 - 202

metallic type 203 - 205

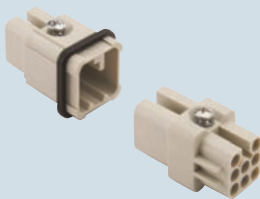
aggressive environments 325

EMC 343

IP68 372 - 373

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

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⁾
male inserts for male contacts

CDF 08
CDM 08

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
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

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

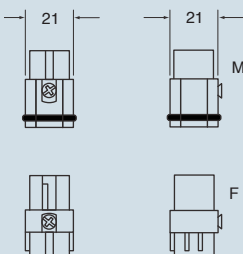
CDMD 0.3
CDMD 0.5
CDMD 0.7
CDMD 1.0
CDMD 1.5
CDMD 2.5

- characteristics according to EN 61984:

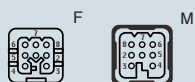
10A 50V 0.8kV 3

- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 50V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: -40 °C ... +125 °C
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 3 \text{ m}\Omega$
- for contact crimping instructions, please see the crimping tool section (10A contacts, CDF and CDM series) on pages 466, 470, 480, 482, 484, 486
- for maximum current load, see the following load curves inserts, for more information see page 493

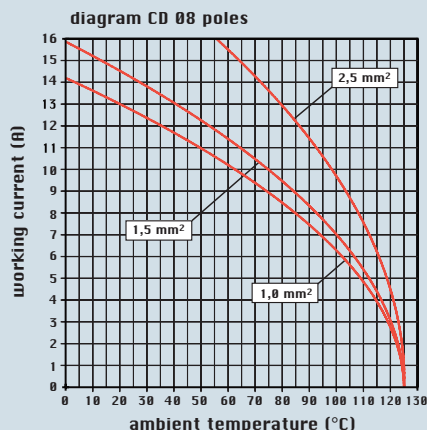
dimensions in mm



contacts side (front view)

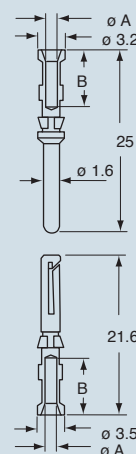


coding pin with loss of a contact CR CP, page 431



dimensions shown are not binding
and may be changed without notice

dimensions in mm



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

enclosures:

size "49.16"

page:

C-TYPE IP65/IP66 208 - 210

aggressive environments 326

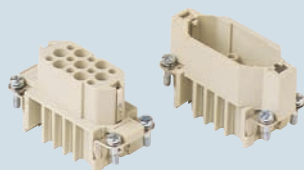
EMC 346

panel supports:

page:

COB + adaptor 410 - 412

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

male inserts for male contacts

CDF 15
CDM 15

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

silver plated

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

gold plated

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

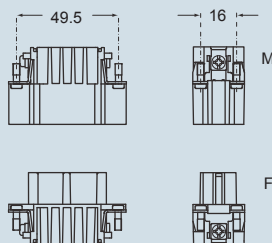
- characteristics according to EN 61984:

10A 250V 4kV 3

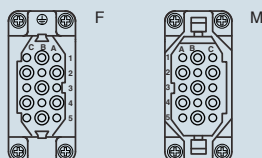
10A 230/400V 4kV 2

- compliant with DIN EC 175-301-801 standard
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: -40 °C ... +125 °C
- are made of self-extinguishing thermoplastic resin UL 94 V0
- 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 44
- for contact crimping instructions, please see the crimping tool section (10A contacts, CDF and CDM series) on pages 466, 470, 480, 482, 484, 486
- for maximum current load, see the following load curves inserts, for more information see page 493

dimensions in mm



contacts side (front view)



dimensions in mm

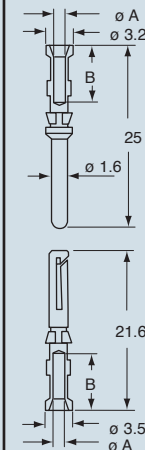
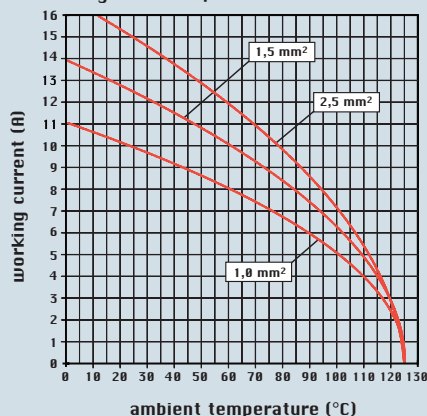


diagram CD 15 poles



dimensions shown are not binding
and may be changed without notice

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

enclosures:

size "66.16"

page:

C-TYPE IP65/IP66 211 - 212

aggressive environments 327

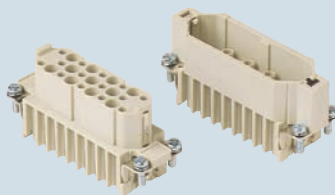
EMC 347

panel supports:

page:

COB + adaptor 410 - 412

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

male inserts for male contacts

CDF 25
CDM 25

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

- characteristics according to EN 61984:

10A 250V 4kV 3

10A 230/400V 4kV 2

- compliant with DIN EC 175-301-801 standard

- UL, CSA, CCC, GL, GOST certified

- rated voltage according to UL/CSA: 600V

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

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

- are made of self-extinguishing thermoplastic resin UL 94 V0

- mechanical life: ≥ 500 cycles

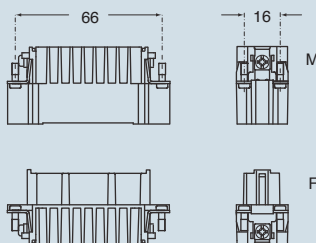
- contact resistance: $\leq 3 \text{ m}\Omega$

- for applications requiring higher voltages, please see the special voltage application section on page 44

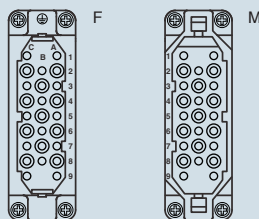
- for contact crimping instructions, please see the crimping tool section (10A contacts, CDF and CDM series) on pages 466, 470, 480, 482, 484, 486

- for maximum current load, see the following load curves inserts, for more information see page 493

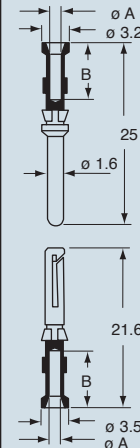
dimensions in mm



contacts side (front view)

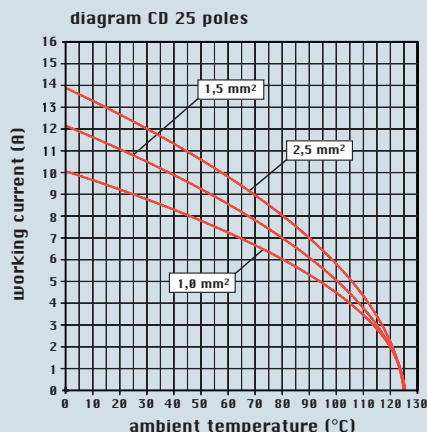


dimensions in mm



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



dimensions shown are not binding
and may be changed without notice

enclosures:

size "77.27"

page:

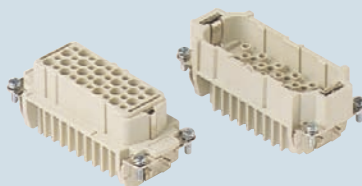
C-TYPE IP65/IP66	228 - 234
C7 IP67 stainless steel lever	256
V-TYPE IP65/IP66 stainless steel lever	268 - 271
T-TYPE IP65 insulating	284
JEI zinc-plated steel lever	292 - 293
BIG hoods	312 - 315
aggressive environments	331
EMC	350
central lever	364 - 365
IP68	382 - 385

panel supports:

page:

COB	410 - 411
------------	-----------

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
male inserts for male contacts

CDF 40
CDM 40

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
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

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

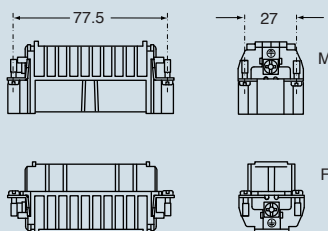
- characteristics according to EN 61984:

10A 250V 4kV 3

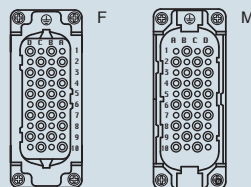
10A 230/400V 4kV 2

- compliant with DIN EC 175-301-801 standard
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- 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 44
- for contact crimping instructions, please see the crimping tool section (10A contacts, CDF and CDM series) on pages 466, 470, 480, 482, 484, 486
- for maximum current load, see the following load curves inserts, for more information see page 493

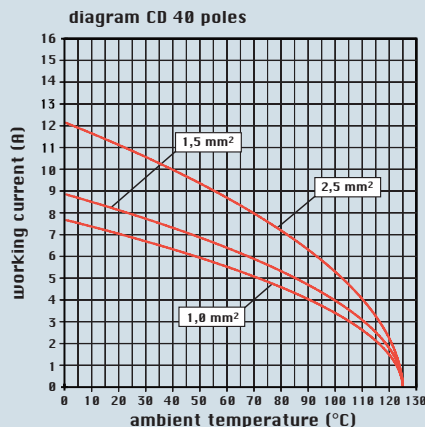
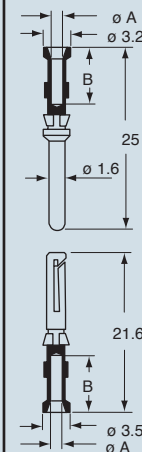
dimensions in mm



contacts side (front view)



dimensions in mm



dimensions shown are not binding
and may be changed without notice

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

enclosures:

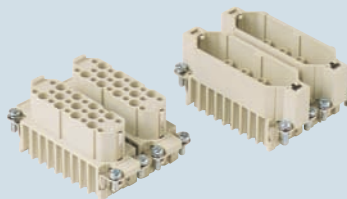
size "66.40"

page:

C-TYPE IP65/IP66 215 - 217

aggressive environments 328

inserts, crimp connections



10A crimp contacts silver and gold plated



* coding compliant with EUROMAP recommendations

description

part No.

part No.

part No.

part No.

without contacts (to be ordered separately)
female inserts, No. (A1÷C9) and (ZA1÷ZC9) *
male inserts, No. (A1÷C9) and (ZA1÷ZC9) *

CDF 25
CDM 25

CDF 25 Z *
CDM 25 Z *

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

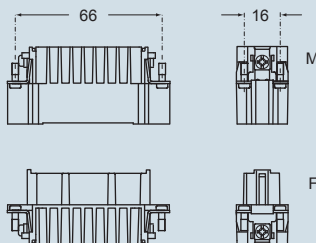
- characteristics according to EN 61984:

10A 250V 4kV 3

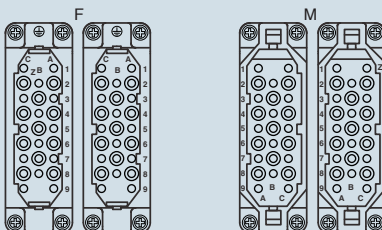
10A 230/400V 4kV 2

- compliant with DIN EC 175-301-801 standard
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: -40 °C ... +125 °C
- are made of self-extinguishing thermoplastic resin UL 94 V0
- 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 44
- for contact crimping instructions, please see the crimping tool section (10A contacts, CDF and CDM series) on pages 466, 470, 480, 482, 484, 486
- for maximum current load, see the following load curves inserts, for more information see page 493

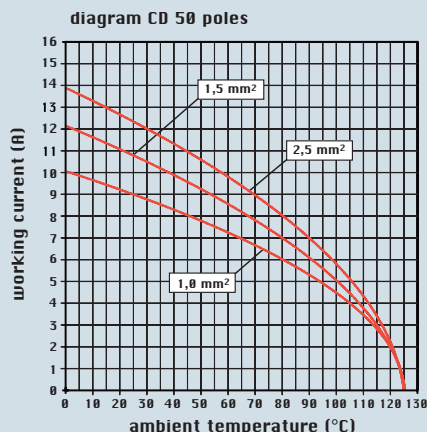
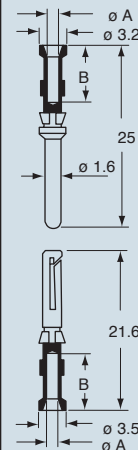
dimensions in mm



contacts side (front view)



dimensions in mm



dimensions shown are not binding
and may be changed without notice

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

enclosures:

size "104.27"

page:

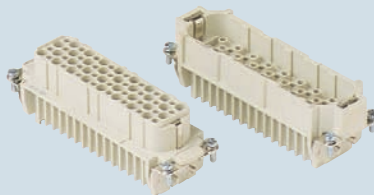
C-TYPE IP65/IP66	236 - 243
C7 IP67 stainless steel lever	257
V-TYPE IP65/IP66 stainless steel lever	272 - 275
T-TYPE IP65 insulating	285
JEI zinc-plated steel lever	294 - 295
BIG hoods	316 - 319
aggressive environments	332
EMC	351
central lever	366 - 368
IP68	386 - 389

panel supports:

page:

COB	410 - 411
-----------	-----------

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
male inserts for male contacts

CDF 64
CDM 64

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

silver plated

gold plated

gold plated

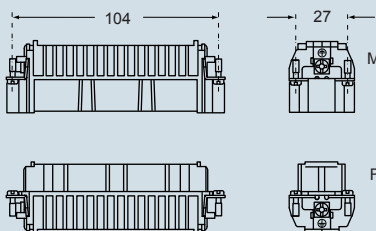
- characteristics according to EN 61984:

10A 250V 4kV 3

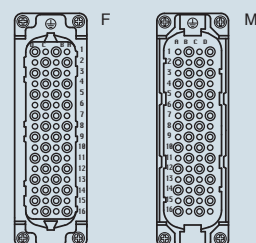
10A 230/400V 4kV 2

- compliant with DIN EC 175-301-801 standard
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- 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 44
- for contact crimping instructions, please see the crimping tool section (10A contacts, CDF and CDM series) on pages 466, 470, 480, 482, 484, 486
- for maximum current load, see the following load curves inserts, for more information see page 493

dimensions in mm



contacts side (front view)



dimensions in mm

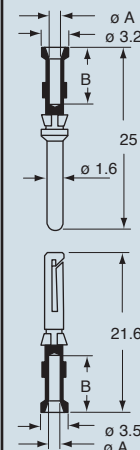
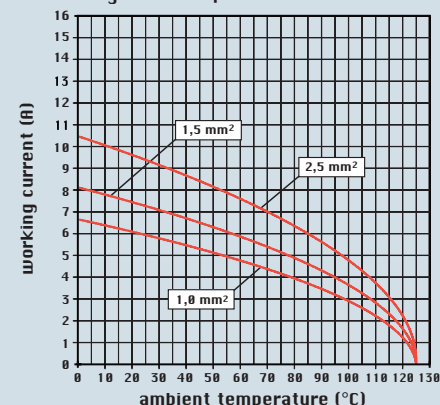


diagram CD 64 poles



dimensions shown are not binding
and may be changed without notice

CDF and CDM contacts

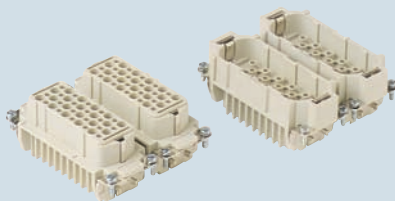
conductor section mm ²	conductor slot ø A (mm)	conductors stripping length B (mm)
0.14-0.37	0.9	8
0.5	1.1	8
0.75	1.3	8
1.0	1.45	8
1.5	1.8	8
2.5	2.2	6

enclosures:
size "77.62"

page:

C-TYPE IP65/IP66 244 - 247
aggressive environments 333

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
male inserts

CDF 40
CDM 40

CDF 40
CDM 40

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

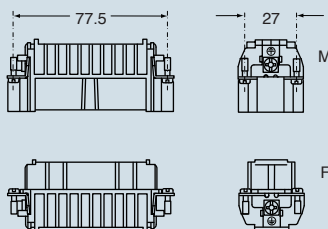
- characteristics according to EN 61984:

10A 250V 4kV 3

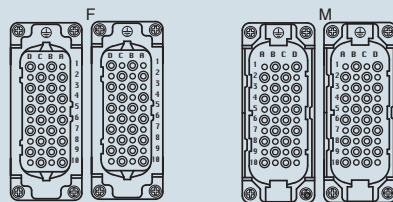
10A 230/400V 4kV 2

- compliant with DIN EC 175-301-801 standard
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- 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 44
- for contact crimping instructions, please see the crimping tool section (10A contacts, CDF and CDM series) on pages 466, 470, 480, 482, 484, 486
- for maximum current load, see the following load curves inserts, for more information see page 493

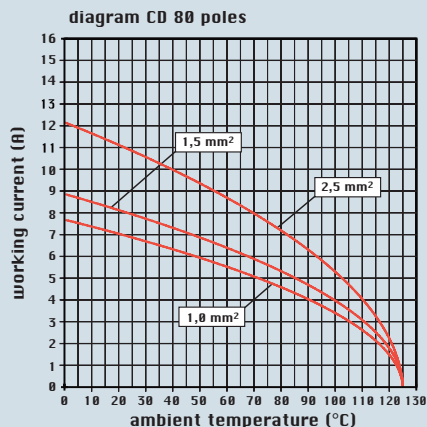
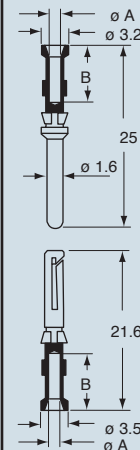
dimensions in mm



contacts side (front view)



dimensions in mm



dimensions shown are not binding
and may be changed without notice

CDF and CDM contacts

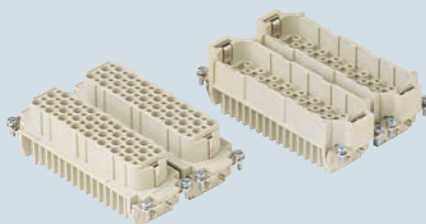
conductor section mm ²	conductor slot ø A (mm)	conductors stripping length B (mm)
0.14-0.37	0.9	8
0.5	1.1	8
0.75	1.3	8
1.0	1.45	8
1.5	1.8	8
2.5	2.2	6

enclosures:
size "104.62"

page:

C-TYPE IP65/IP66..... 248
aggressive environments 334

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
male inserts

CDF 64
CDM 64

CDF 64
CDM 64

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
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

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

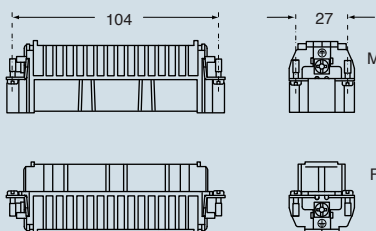
- characteristics according to EN 61984:

10A 250V 4kV 3

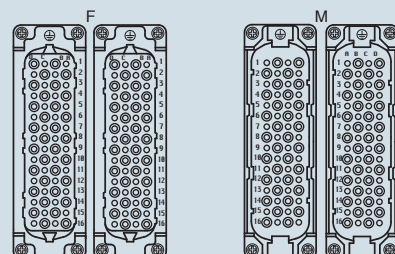
10A 230/400V 4kV 2

- compliant with DIN EC 175-301-801 standard
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- 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 44
- for contact crimping instructions, please see the crimping tool section (10A contacts, CDF and CDM series) on pages 466, 470, 480, 482, 484, 486
- for maximum current load, see the following load curves inserts, for more information see page 493

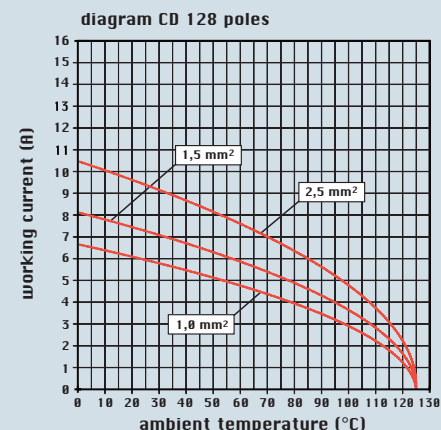
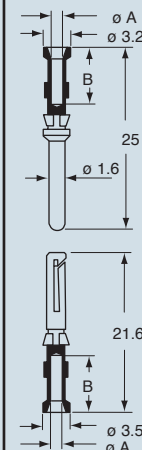
dimensions in mm



contacts side (front view)



dimensions in mm



dimensions shown are not binding
and may be changed without notice

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

Use

The CT-series multipole connectors (with incorporated terminal block) are recommended for greater cost-saving and safety for use on machines and command and control panels.

For control panel mounting, bulkhead housings must be used.

The CT series inserts (10A max versions) are supplied in the plug or socket versions and must be mounted with insertion from the rear of the enclosure (Figures 1 and 2). The space occupied by the terminal block does not allow for the passage of the insert and insertion from the front of the enclosure.

As an alternative to the traditional terminal blocks, the inserts can be mounted inside the control panels on DIN EN rails (Figure 5) using suitable accessories providing the added advantage of easy sectioning.

The special structure of the CT inserts has all the conductor connections on the same side providing for easier wiring and a complete view of the work area.

The terminal block also has slots for housing the identification wire markers of each contact. Wire markers of different manufacturers may be used such as: Cabur, Grafoplast, Modernotecnica, Phoenix, Siemens, Wago, Weidmüller.

The CT series is available in the versions "left" and "right" for mounting on the left (Figure 3) or on the right (Figure 4) of the control panel walls.

This characteristic is determined by the position of contact "1" and the ground terminal in the upper part of the insert terminal block for both left and right mounting.

The installation of inserts on DIN rails (Figure 5) inside the control panels is usually made to facilitate the wiring in sectionable parts.

In this case the degree of protection for coupled connectors is IP20 (in accordance with EN 60529).

This type of mounting requires supports (CT APE) to be provided to the inserts suitable for mounting on DIN EN 60715 rail.

In addition, CRBF (female) and CRBM (male) coupling screws instead of normal screws are recommended for fixing the inserts to the enclosures (Figure 5) in order to guarantee a stable and safe coupling between the CT and CTS inserts installed on the DIN rails and corresponding CD inserts.

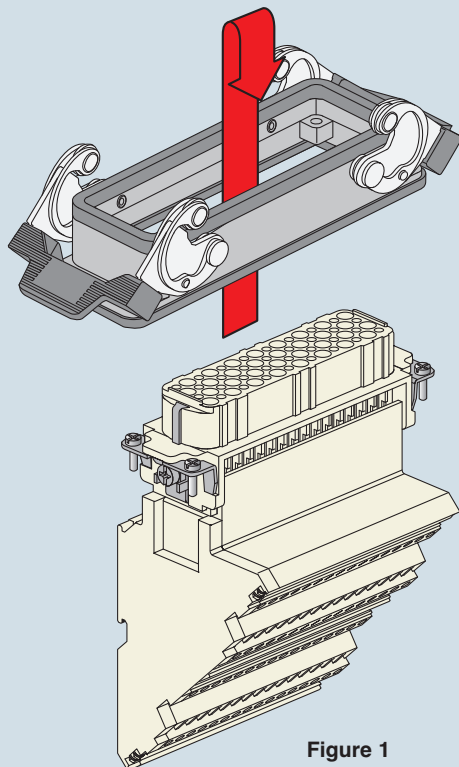


Figure 1

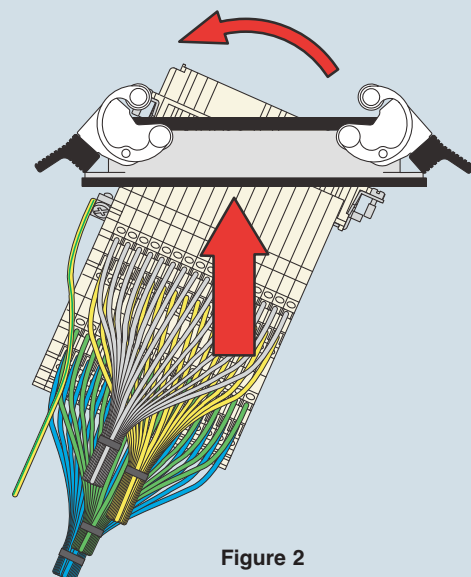


Figure 2

Figures 1 and 2 (rear mounting)

The insert is inserted into the bulkhead housing with pre-wired conductors connected at the opposite end.

Figure 3 (left mounting)

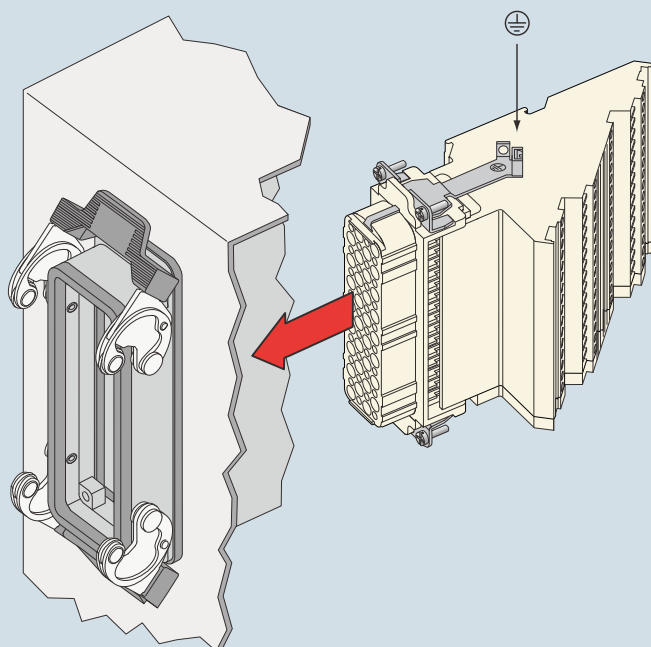


Figure 4 (right mounting)

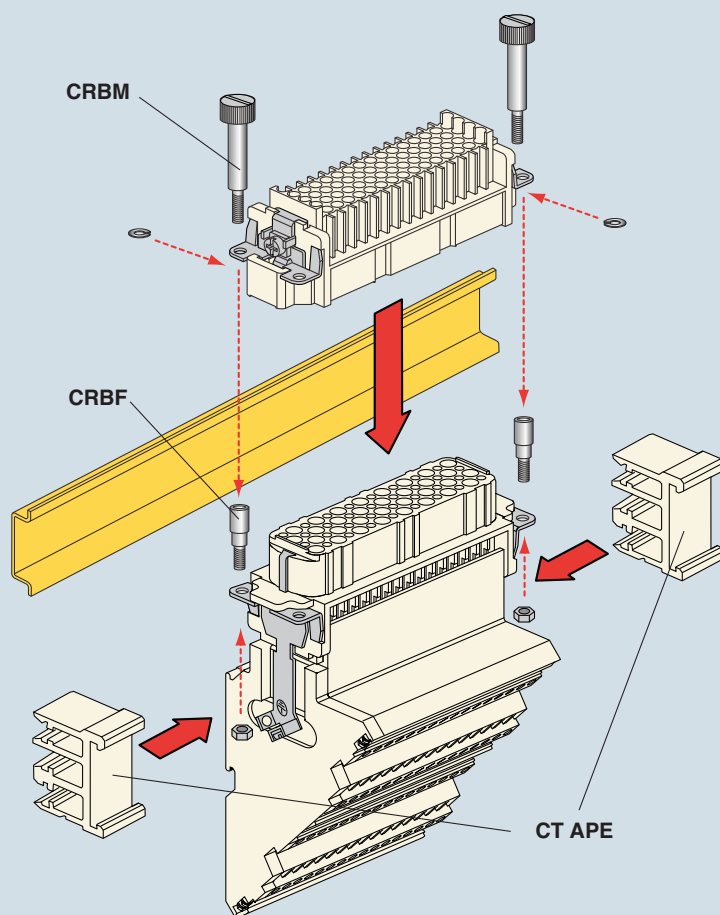
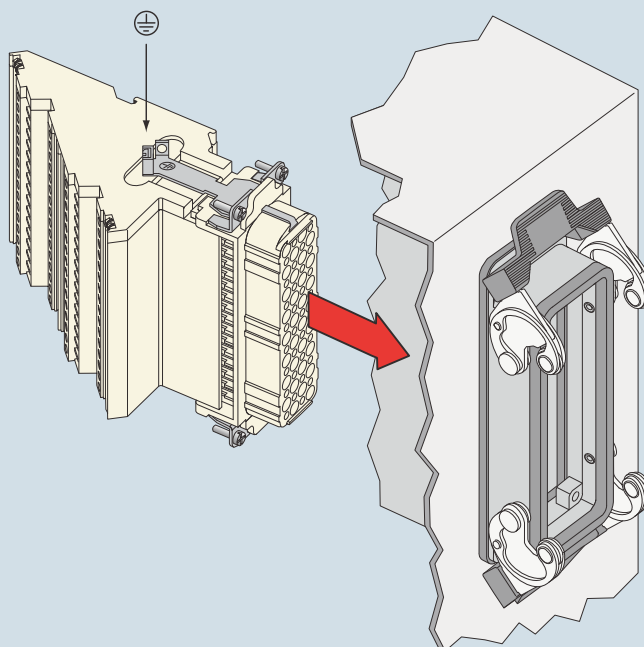
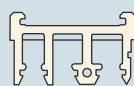


Figure 5 (mounting on DIN rail)

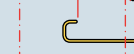


CT APE

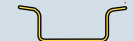
possibility of coupling to DIN EN 60715 rail (for a greater stability of the CT inserts of 40 and 64 poles we recommend using the two CT APE supports)



**EN 60715
C 30**



**EN 60715
G 32**



**EN 60715
TH 35-7.5 and TH 35-15**

accessories for CT inserts

- support for mounting on DIN rail (**CT APE** page 422)
- inserts coupling screws (**CRBM** and **CRBF** page 422)
- cable-clamping plates (**CRAD** and **CRAS** page 422)

enclosures ¹⁾:
size "77.27"

page:

C-TYPE IP65/IP66	228
C7 IP67 stainless steel lever	256
V-TYPE IP65/IP66 stainless steel lever	268
JEI zinc-plated steel lever	292
aggressive environments	331
EMC	350

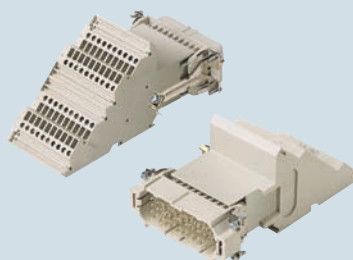
¹⁾ only bulkhead mounted housings

- can be mated with CD inserts
- rear-mounted inserts

1) for non-prepared conductors

description

terminal block inserts
screw terminal connection



part No.

part No.

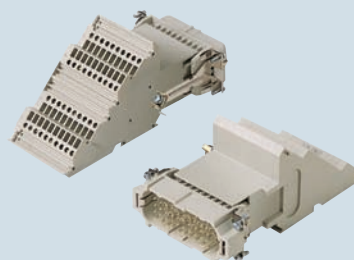
left

CTF 40 L
CTM 40 L

right

CTF 40 R
CTM 40 R

terminal block inserts
spring terminal connection



part No.

part No.

left

CTSF 40 L
CTSM 40 L

right

CTSF 40 R
CTSM 40 R

side-mounting (see page 55)

female inserts with female contacts 1)

male inserts with male contacts 1)

side-mounting (see page 55)

female inserts with female contacts

male inserts with male contacts

- characteristics according to EN 61984:

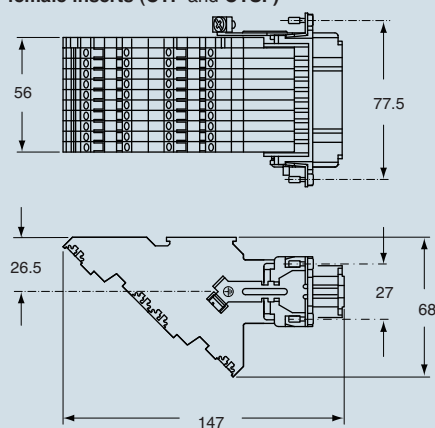
10A 250V 4kV 3

10A 230/400V 4kV 2

- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 4 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 493

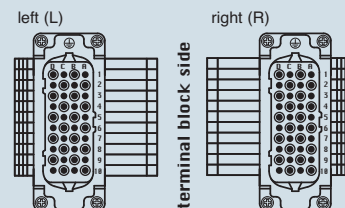
dimensions in mm

female inserts (CTF and CTSF)

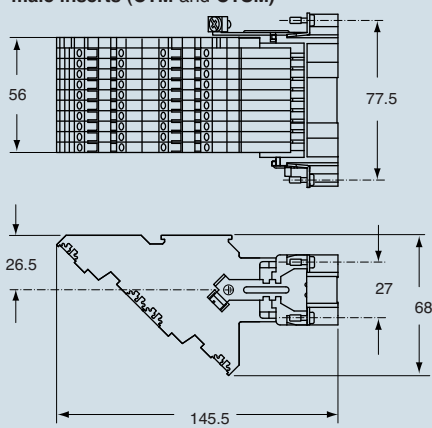


contacts side (front view)

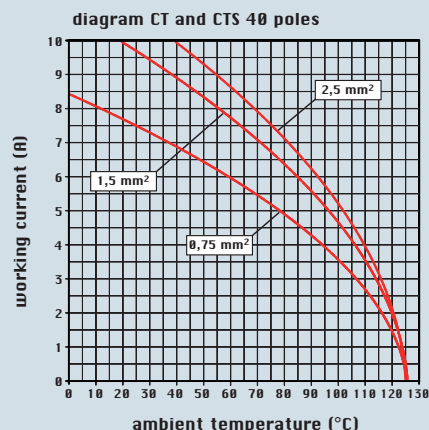
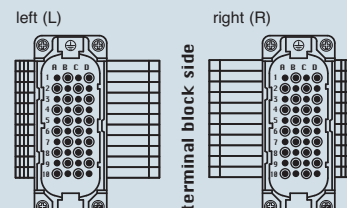
female inserts (CTF and CTSF)



male inserts (CTM and CTSM)



male inserts (CTM and CTSM)

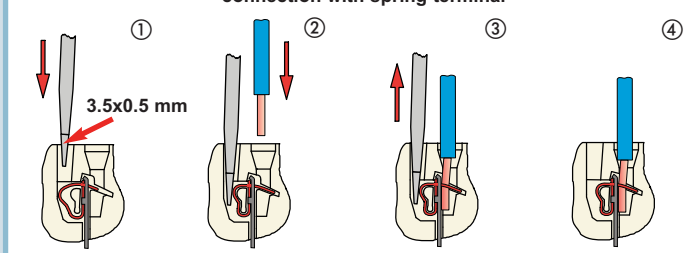


- CT inserts with plate, for section conductors: 0.75 - 2.5 mm² - AWG 18 - 14
- conductors stripping length: 12 mm
- terminal screw torque: 0.4 Nm (3.54 lb.in), for more information see page 21 and 22

- CTS spring inserts for section conductors: effective sections for non-prepared conductors 0.14 - 2.5 mm² - AWG 26 - 14
- effective sections for prepared conductors 0.14 - 1 mm² - AWG 26 - 18
- conductors stripping length: 9...11 mm

dimensions shown are not binding
and may be changed without notice

connection with spring terminal



enclosures ¹⁾:
size "104.27"

page:

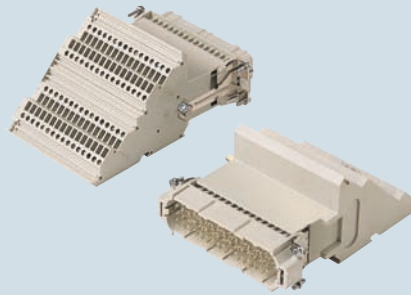
C-TYPE IP65/IP66	236
C7 IP67 stainless steel lever	257
V-TYPE IP65/IP66 stainless steel lever	272
JEI zinc-plated steel lever	294
aggressive environments	332
EMC	351

¹⁾ only bulkhead mounted housings

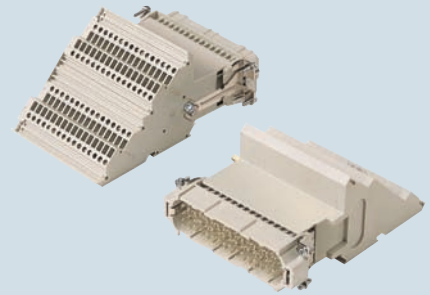
- can be mated with CD inserts
- rear-mounted inserts

1) for non-prepared conductors

terminal block inserts screw terminal connection



terminal block inserts spring terminal connection



description

part No.

part No.

part No.

part No.

side-mounting (see page 55)
female inserts with female contacts 1)
male inserts with male contacts 1)

left
CTF 64 L
CTM 64 L

right
CTF 64 R
CTM 64 R

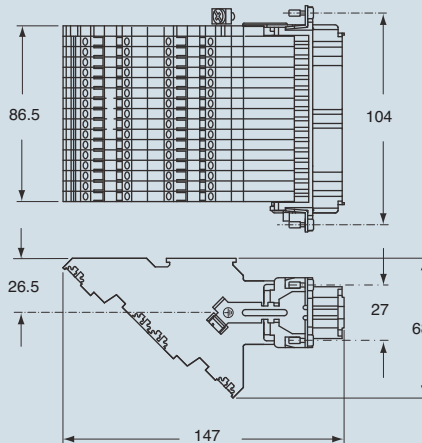
side-mounting (see page 55)
female inserts with female contacts
male inserts with male contacts

left
CTSF 64 L
CTSM 64 L

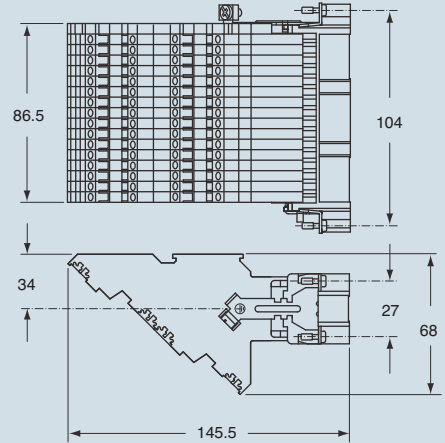
right
CTSF 64 R
CTSM 64 R

- characteristics according to EN 61984:
10A 250V 4kV 3
10A 230/400V 4kV 2
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 4 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 493

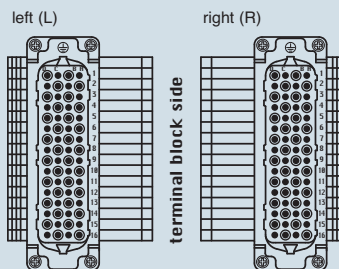
dimensions in mm female inserts (CTF and CTSF)



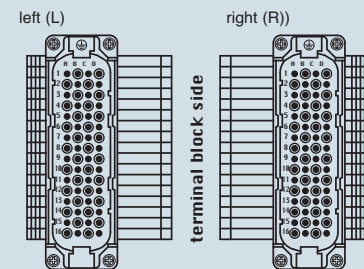
male inserts (CTM and CTSM)



contacts side (front view) female inserts (CTF and CTSF)



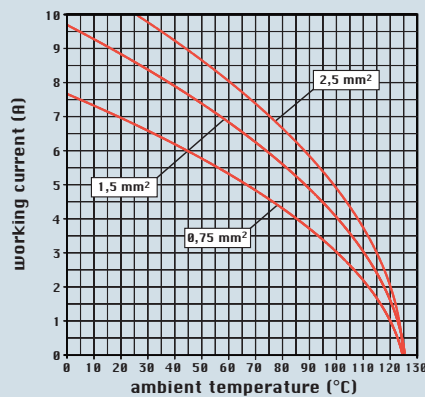
contacts side (front view) male inserts (CTM and CTSM)



- CT inserts with plate, for section conductors:
0.75 - 2.5 mm² - AWG 18 - 14
- conductors stripping length: 9...11 mm
- terminal screw torque: 0.4 Nm (3.54 lb.in), for more information see page 21 and 22

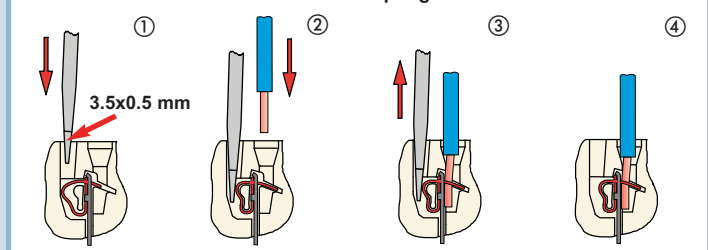
- CTS spring inserts for section conductors:
effective sections for non-prepared conductors
0.14 - 2.5 mm² - AWG 26 - 14
effective sections for prepared conductors
0.14 - 1 mm² - AWG 26 - 18
- conductors stripping length: 9...11 mm

diagram CT and CTS 64 poles



dimensions shown are not binding
and may be changed without notice

connection with spring terminal



When all the contacts are used, the CDD inserts series connectors may be used with voltages of up to 250V (first column); pollution rate 2, in accordance with the standard EN 61984.

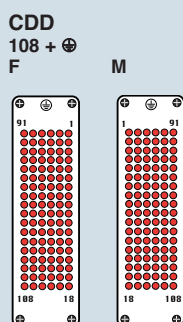
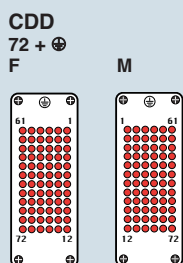
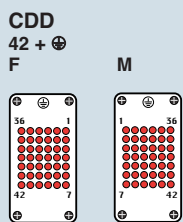
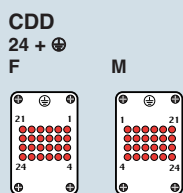
If the number of contacts is reduced and the contacts accordingly assigned, these connectors may be used with higher voltages. This is possible because the decrease in the number of contacts leads to an increase in the surface insulation distance in the air. When the contacts are arranged as shown below, the inserts may be used for voltages of 400V (second column) and 500V (third column); pollution rate 2, in accordance with the standard EN 61984.

Legend:

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

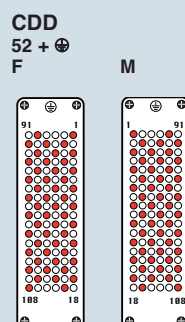
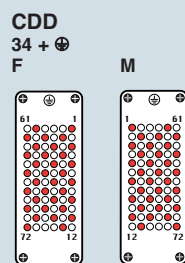
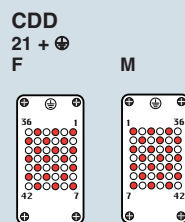
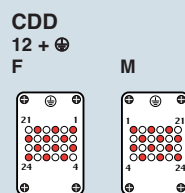
for use up to 250V
pollution rate 2

diagrams
contacts side (front view)



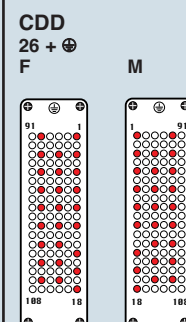
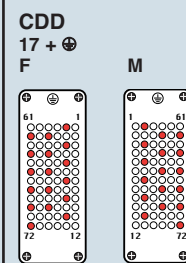
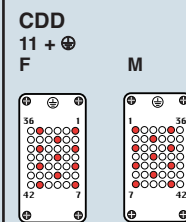
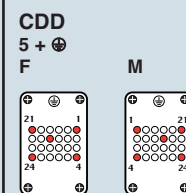
for use up to 400V
pollution rate 2

diagrams
contacts side (front view)



for use up to 500V
pollution rate 2

diagrams
contacts side (front view)

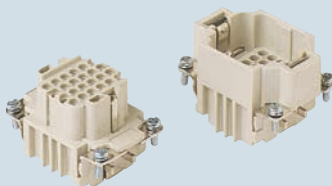


enclosures:
size "44.27" page:

C-TYPE IP65/IP66	218 - 221
C7 IP67 stainless steel lever	254
V-TYPE IP65/IP66 stainless steel lever	260 - 262
T-TYPE IP65 insulating	282
JEI zinc-plated steel lever	288 - 289
BIG hoods	304 - 306
aggressive environments	329
EMC	348
central lever	360 - 361
IP68	374 - 377

panel supports: page:
COB..... 410 - 411

inserts, crimp connections

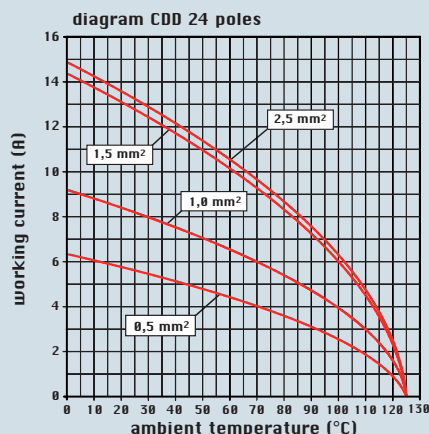


10A crimp contacts silver and gold plated



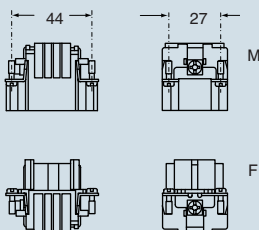
description	part No.	part No.	part No.
without contacts (to be ordered separately)			
female inserts for female contacts	CDDF 24		
male inserts for male contacts	CDDM 24		
10A female contacts			
0.14-0.37 mm ² AWG 26-22 identification No. 1		CDFA 0.3	CDFD 0.3
0.5 mm ² AWG 20 identification No. 2		CDFA 0.5	CDFD 0.5
0.75 mm ² AWG 18 identification No. ②		CDFA 0.7	CDFD 0.7
1 mm ² AWG 18 identification No. 3		CDFA 1.0	CDFD 1.0
1.5 mm ² AWG 16 identification No. 4		CDFA 1.5	CDFD 1.5
2.5 mm ² AWG 14 identification No. 5		CDFA 2.5	CDFD 2.5
10A male contacts			
0.14-0.37 mm ² AWG 26-22 identification No. 1		CDMA 0.3	CDMD 0.3
0.5 mm ² AWG 20 identification No. 2		CDMA 0.5	CDMD 0.5
0.75 mm ² AWG 18 identification No. ②		CDMA 0.7	CDMD 0.7
1 mm ² AWG 18 identification No. 3		CDMA 1.0	CDMD 1.0
1.5 mm ² AWG 16 identification No. 4		CDMA 1.5	CDMD 1.5
2.5 mm ² AWG 14 identification No. 5		CDMA 2.5	CDMD 2.5

- characteristics according to EN 61984:
- 10A 250V 4kV 2**
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: -40 °C ... +125 °C
- are made of self-extinguishing thermoplastic resin UL 94 V0
- 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 58
- for contact crimping instructions, please see the crimping tool section (10A contacts, CDF and CDM series) on pages 466, 470, 480, 482, 484, 486
- for maximum current load, see the following load curves inserts, for more information see page 494

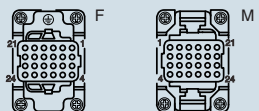


dimensions shown are not binding
and may be changed without notice

dimensions in mm

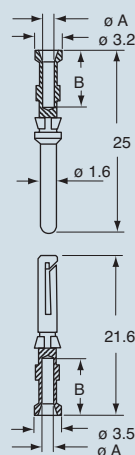


contacts side (front view)



- PCBs interface, see article CIF 2.4

dimensions in mm



CDF and CDM contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	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

enclosures:

size "66.16"

page:

C-TYPE IP65/IP66 211 - 213

aggressive environments 327

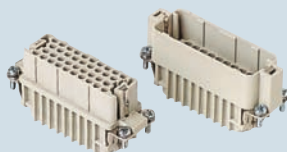
EMC 347

panel supports:

page:

COB + adaptor 410 - 412

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

male inserts for male contacts

CDDF 38
CDDM 38

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
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

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

- characteristics according to EN 61984:

10A 250V 4kV 2

- UL, CSA, CCC, GL, GOST certified

- rated voltage according to UL/CSA: 600V

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

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

- are made of self-extinguishing thermoplastic resin
UL 94 V0

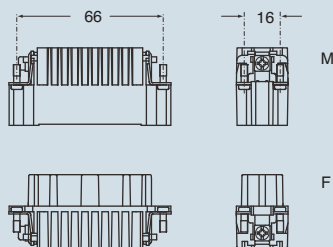
- mechanical life: ≥ 500 cycles

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

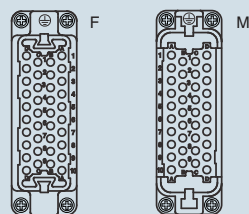
- for contact crimping instructions, please see the
crimping tool section (10A contacts, CDF and CDM
series) on pages 466, 470, 480, 482, 484, 486

- for maximum current load, see the following load
curves inserts, for more information see page 494

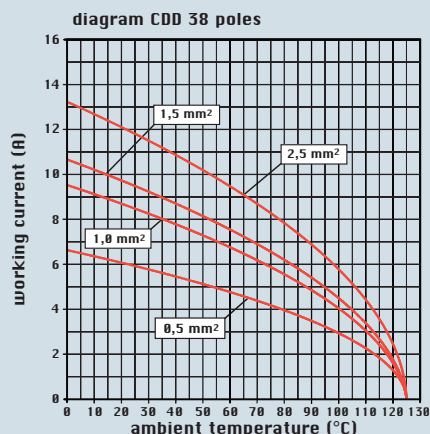
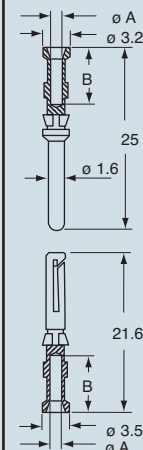
dimensions in mm



contacts side (front view)



dimensions in mm



dimensions shown are not binding
and may be changed without notice

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

enclosures:

size "57.27"

page:

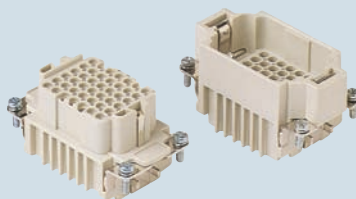
C-TYPE IP65/IP66	222 - 227
C7 IP67 stainless steel lever	255
V-TYPE IP65/IP66 stainless steel lever	264 - 267
T-TYPE IP65 insulating	283
JEI zinc-plated steel lever	290 - 291
BIG hoods	308 - 311
aggressive environments	330
EMC	349
central lever	362 - 363
IP68	378 - 381

panel supports:

page:

COB	410 - 411
-----------	-----------

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

male inserts for male contacts

CDDF 42
CDDM 42

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
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

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

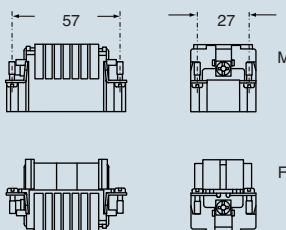
CDMD 0.3
CDMD 0.5
CDMD 0.7
CDMD 1.0
CDMD 1.5
CDMD 2.5

- characteristics according to EN 61984:

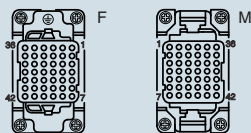
10A 250V 4kV 2

- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- 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 58
- for contact crimping instructions, please see the crimping tool section (10A contacts, CDF and CDM series) on pages 466, 470, 480, 482, 484, 486
- for maximum current load, see the following load curves inserts, for more information see page 494

dimensions in mm

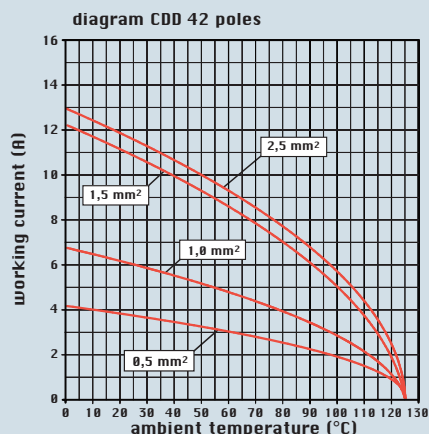
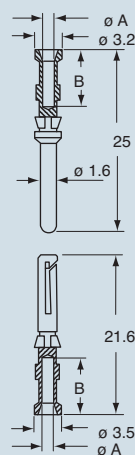


contacts side (front view)



- PCBs interface, see article CIF 2.4

dimensions in mm



dimensions shown are not binding
and may be changed without notice

CDF and CDM contacts

conductor section mm ²	conductor slot ϕA (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

enclosures:

size "77.27"

page:

C-TYPE IP65/IP66 228 - 234

C7 IP67 stainless steel lever 256

V-TYPE IP65/IP66
stainless steel lever 268 - 271

T-TYPE IP65 insulating 284

JEI zinc-plated steel lever 292 - 293

BIG hoods 312 - 315

aggressive environments 331

EMC 350

central lever 364 - 365

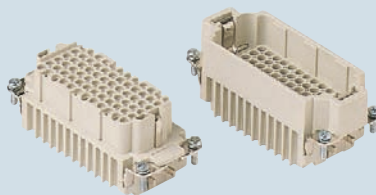
IP68 382 - 385

panel supports:

page:

COB 410 - 411

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

male inserts for male contacts

CDDF 72
CDDM 72

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
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

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

- characteristics according to EN 61984:

10A 250V 4kV 2

- UL, CSA, CCC, GL, GOST certified

- rated voltage according to UL/CSA: 600V

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

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

- are made of self-extinguishing thermoplastic resin
UL 94 V0

- mechanical life: ≥ 500 cycles

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

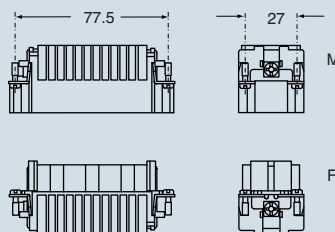
- for applications requiring higher voltages, please see

the special voltage application section on page 58

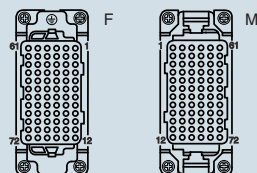
- for contact crimping instructions, please see the
crimping tool section (10A contacts, CDF and CDM
series) on pages 466, 470, 480, 482, 484, 486

- for maximum current load, see the following load
curves inserts, for more information see page 494

dimensions in mm

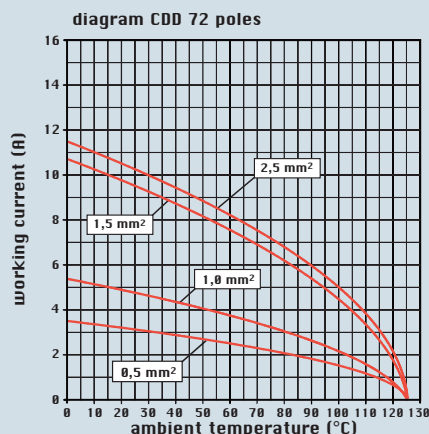
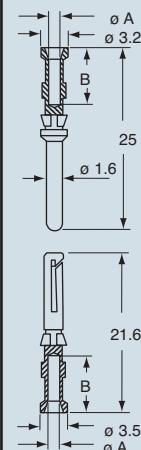


contacts side (front view)



- PCBs interface, see article CIF 2.4

dimensions in mm



dimensions shown are not binding
and may be changed without notice

CDF and CDM contacts

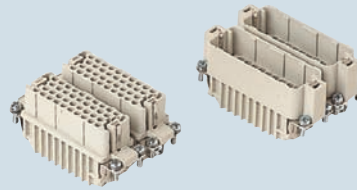
conductor section mm ²	conductor slot ø A (mm)	conductors stripping length B (mm)
0.14-0.37	0.9	8
0.5	1.1	8
0.75	1.3	8
1.0	1.45	8
1.5	1.8	8
2.5	2.2	6

enclosures:
size "66.40"

page:

C-TYPE IP65/IP66 215 - 217
aggressive environments 328

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
male inserts

CDDF 38
CDDM 38

CDDF 38
CDDM 38

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
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

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

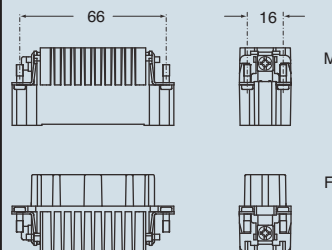
CDMD 0.3
CDMD 0.5
CDMD 0.7
CDMD 1.0
CDMD 1.5
CDMD 2.5

- characteristics according to EN 61984:

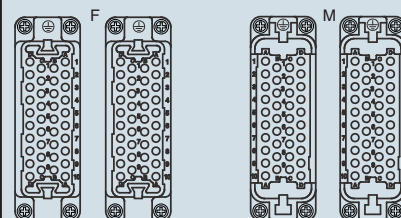
10A 250V 4kV 2

- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: -40 °C ... +125 °C
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 3 \text{ m}\Omega$
- for contact crimping instructions, please see the crimping tool section (10A contacts, CDF and CDM series) on pages 466, 470, 480, 482, 484, 486
- for maximum current load, see the following load curves inserts, for more information see page 494

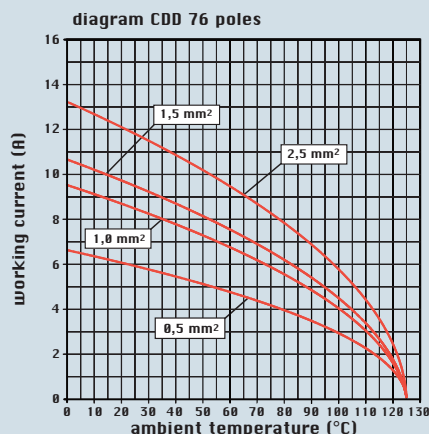
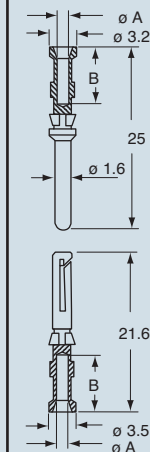
dimensions in mm



contacts side (front view)



dimensions in mm



dimensions shown are not binding
and may be changed without notice

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

enclosures:

size "104.27"

page:

C-TYPE IP65/IP66 236 - 243

C7 IP67 stainless steel lever 257

V-TYPE IP65/IP66

stainless steel lever 272 - 275

T-TYPE IP65 insulating 285

JEI zinc-plated steel lever 294 - 295

BIG hoods 316 - 319

aggressive environments 332

EMC 351

central lever 366 - 368

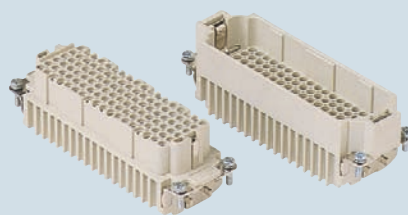
IP68 386 - 389

panel supports:

page:

COB 410 - 411

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

male inserts for male contacts

CDDF 108
CDDM 108

10A female contacts

0.14-0.37 mm² AWG 26-22 identification No. 1

0.5 mm² AWG 20 identification No. 2

0.75 mm² AWG 18 identification No. ②

1 mm² AWG 18 identification No. 3

1.5 mm² AWG 16 identification No. 4

2.5 mm² AWG 14 identification No. 5

10A male contacts

0.14-0.37 mm² AWG 26-22 identification No. 1

0.5 mm² AWG 20 identification No. 2

0.75 mm² AWG 18 identification No. ②

1 mm² AWG 18 identification No. 3

1.5 mm² AWG 16 identification No. 4

2.5 mm² 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

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

- characteristics according to EN 61984:

10A 250V 4kV 2

- UL, CSA, CCC, GL, GOST certified

- rated voltage according to UL/CSA: 600V

- insulation resistance: ≥ 10 G Ω

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

- are made of self-extinguishing thermoplastic resin UL 94 V0

- mechanical life: ≥ 500 cycles

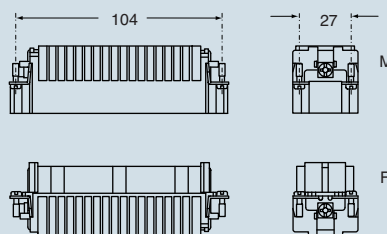
- contact resistance: ≤ 3 m Ω

- for applications requiring higher voltages, please see the special voltage application section on page 58

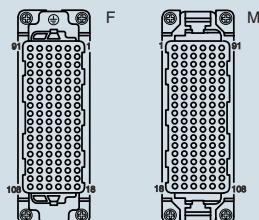
- for contact crimping instructions, please see the crimping tool section (10A contacts, CDF and CDM series) on pages 466, 470, 480, 482, 484, 486

- for maximum current load, see the following load curves inserts, for more information see page 494

dimensions in mm

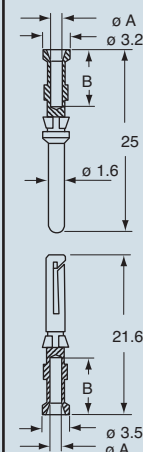


contacts side (front view)



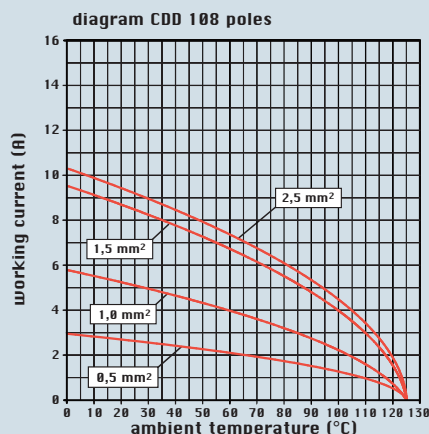
- PCBs interface, see article CIF 2.4

dimensions in mm



CDF and CDM contacts

conductor section	conductor slot	conductors stripping length
mm ²	ϕ A (mm)	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



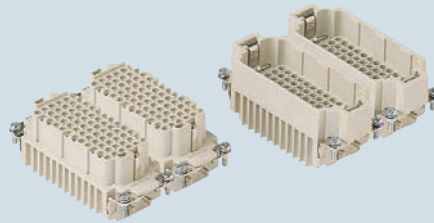
dimensions shown are not binding
and may be changed without notice

enclosures:
size "77.62"

page:

C-TYPE IP65/IP66 244 - 247
aggressive environments 333

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, No. (1-72) and (73-144)
male inserts, No. (1-72) and (73-144)

CDDF 72
CDDM 72

CDDF 72 N
CDDM 72 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

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
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

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

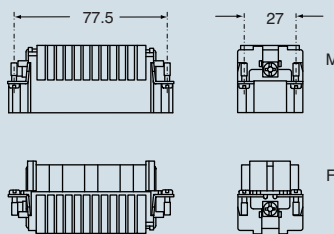
CDMD 0.3
CDMD 0.5
CDMD 0.7
CDMD 1.0
CDMD 1.5
CDMD 2.5

- characteristics according to EN 61984:

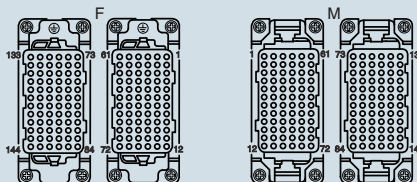
10A 250V 4kV 2

- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- 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 58
- for contact crimping instructions, please see the crimping tool section (10A contacts, CDF and CDM series) on pages 466, 470, 480, 482, 484, 486
- for maximum current load, see the following load curves inserts, for more information see page 494

dimensions in mm

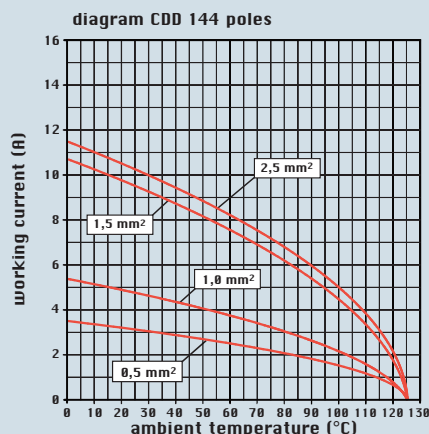
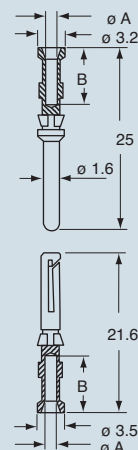


contacts side (front view)



- PCBs interface, see article CIF 2.4

dimensions in mm



dimensions shown are not binding
and may be changed without notice

CDF and CDM contacts

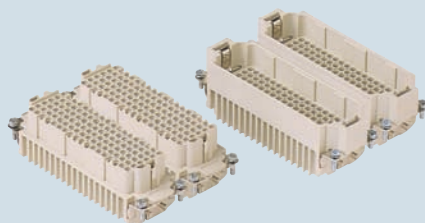
conductor section mm ²	conductor slot ϕA (mm)	conductors stripping length B (mm)
0.14-0.37	0.9	8
0.5	1.1	8
0.75	1.3	8
1.0	1.45	8
1.5	1.8	8
2.5	2.2	6

enclosures:
size "104.62"

page:

C-TYPE IP65/IP66..... 248
aggressive environments..... 334

inserts, crimp connections



10A crimp contacts silver and gold plated



description

without contacts (to be ordered separately)
female inserts, No. (1-108) and (109-216)
male inserts, No. (1-108) and (109-216)

part No

part No..

part No.

part No.

CDDF 108
CDDM 108

CDDF 108 N
CDDM 108 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

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
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

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

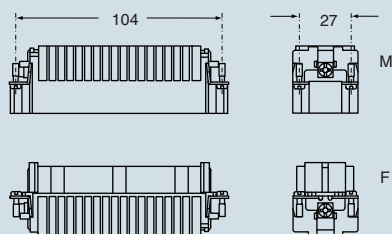
CDMD 0.3
CDMD 0.5
CDMD 0.7
CDMD 1.0
CDMD 1.5
CDMD 2.5

- characteristics according to EN 61984:

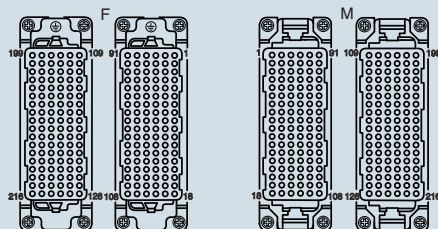
10A 250V 4kV 2

- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 G Ω
- ambient temperature limit: -40 °C ... +125 °C
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 3 m Ω
- for applications requiring higher voltages, please see the special voltage application section on page 58
- for contact crimping instructions, please see the crimping tool section (10A contacts, CDF and CDM series) on pages 466, 470, 480, 482, 484, 486
- for maximum current load, see the following load curves inserts, for more information see page 494

dimensions in mm

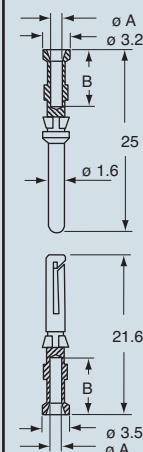


contacts side (front view)



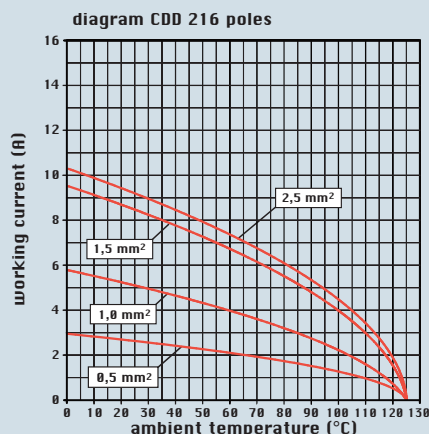
- PCBs interface, see article CIF 2.4

dimensions in mm

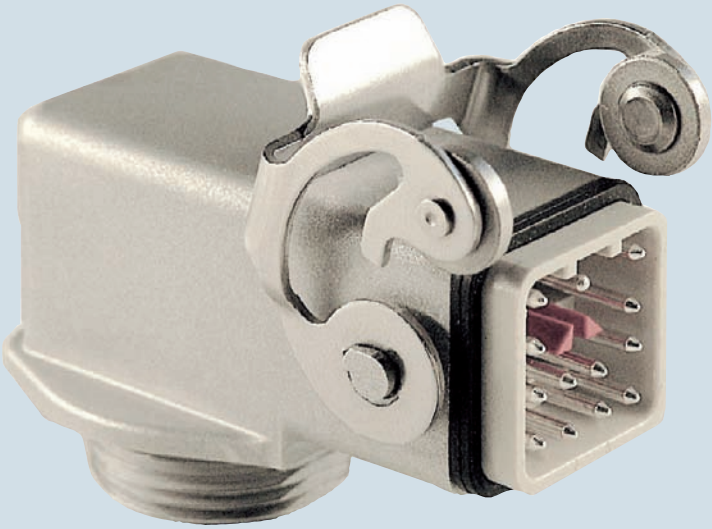


CDF and CDM contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	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



dimensions shown are not binding
and may be changed without notice



coding positions for CQ 12 connector

Key position (M insert side)	Key position (F insert side)	View (M insert side)	View (M insert side)	View (F insert side)	View (F insert side)
A	B	A	B	B	A
1	1	▼	▼	▲	▲
1	2	▼	▲	▼	▲
1	3	▼	▲	▲	▲
1	4	▼	▲	▲	▲
2	1	▲	▼	▲	▼
2	2	▲	▲	▼	▼
2	3	▲	▲	▲	▼
2	4	▲	▲	▲	▼
3	1	▲	▼	▲	▲
3	2	▲	▲	▼	▲
3	3	▲	▲	▲	▲
3	4	▲	▲	▲	▲
4	1	▲	▼	▲	▲
4	2	▲	▲	▼	▲
4	3	▲	▲	▲	▲
4	4	▲	▲	▲	▲

enclosures:
size "21.21"

page:

insulating type	201 - 202
metallic type	203 - 205
aggressive environments	325
EMC	343
IP68	372 - 373

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
male inserts for male contacts

CQF 12
CQM 12

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
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

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

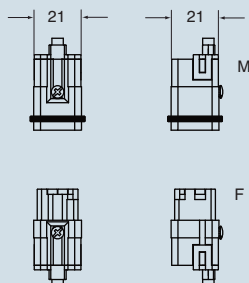
CDMD 0.3
CDMD 0.5
CDMD 0.7
CDMD 1.0
CDMD 1.5
CDMD 2.5

- characteristics according to EN 61984:

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

- cUL (UL for USA and Canada), CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 3 \text{ m}\Omega$
- the CQ 12 inserts are already supplied with a seal and a screw, which ensure IP66/IP67 protection rating
- for contact crimping instructions, please see the crimping tool section (10A contacts, CDF and CDM series) on pages 466, 470, 480, 482, 484, 486
- for maximum current load, see the following load curves inserts, for more information see page 494

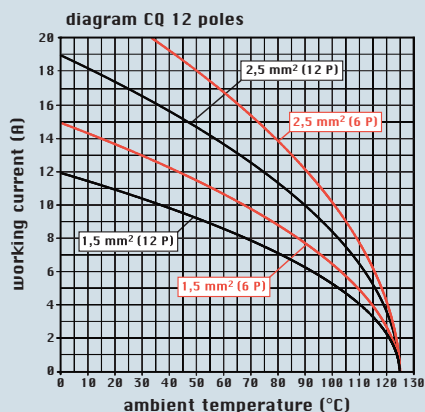
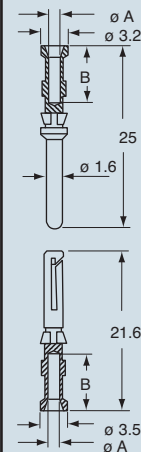
dimensions in mm



contacts side (front view)



dimensions in mm



- the CR Q12 coding pins (to be ordered separately), allow the user to create 16 different combinations, according to the diagram shown on page 431



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

dimensions shown are not binding
and may be changed without notice

enclosures:

size "21.21"

page:

insulating type 201 - 202

metallic type 203 - 205

aggressive environments 325

EMC 343

IP68 372 - 373

- inserts and enclosures for applications with temperatures up to 180 °C, available on request
- can also be used partially fitted with 4 mm² section contacts
- for contact crimping instructions, please see the crimping tool section (16A contacts, CCF, CCM and CC...AN series) on pages 466, 470, 480, 482, 484, 486

inserts, crimp connections



16A crimp contacts normal and for advanced opening silver and gold plated



description

part No.

part No.

part No.

without contacts (to be ordered separately)

female inserts for female contacts

male inserts for male contacts

CQF 05
CQM 05

16A female contacts

0.14-0.37 mm ²	AWG 26-22	three grooves
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	three grooves
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

silver plated

gold plated

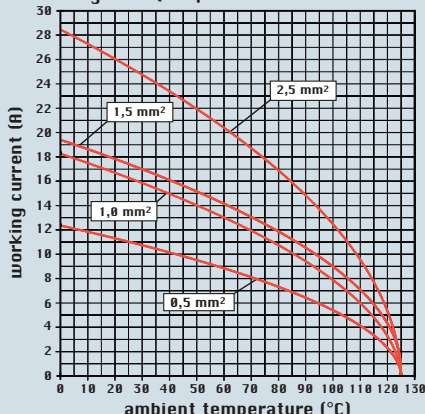
CC 0.5 AN
CC 0.7 AN
CC 1.0 AN
CC 1.5 AN
CC 2.5 AN

- characteristics according to EN 61984:

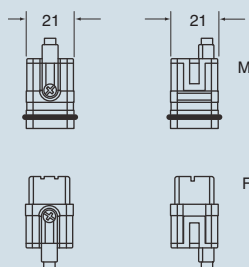
16A 230/400V 4kV 3
16A 320/500V 4kV 2

- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 1 mΩ
- for maximum current load, see the following load curves inserts, for more information see page 494

diagram CQ 05 poles



dimensions in mm



contacts side (front view)

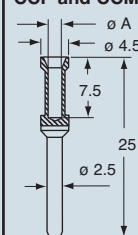


coding pins CR CPQ, see page 431

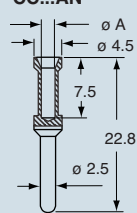


dimensions in mm

CCF and CCM



CC...AN



CCF, CCM and CC...AN contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(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

enclosures:

size "32.13"

page:

insulating type 206 - 207

EMC 344 - 345

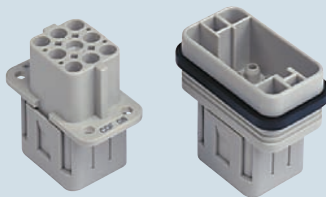
- can also be used partially fitted with 4 mm² section contacts

- for contact crimping instructions, please see the crimping tool section (16A contacts, CCF, CCM and CC...AN series) on pages 466, 470, 480, 482, 484, 486



compliant with ISO 23570-3 standard and with DESINA® specification

inserts, crimp connections



16A crimp contacts normal and for advanced opening silver and gold plated



description

part No.

part No.

part No.

without contacts (to be ordered separately)

female inserts for female contacts

male inserts for male contacts

CQF 08
CQM 08

16A female contacts

0.14-0.37 mm ²	AWG 26-22	three grooves
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	three grooves
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

silver plated

gold plated

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

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

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

- characteristics according to EN 61984:

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

- cUL (UL for USA and Canada), CSA, GOST certified

- rated voltage according to UL/CSA: 600V

- insulation resistance: ≥ 10 G Ω

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

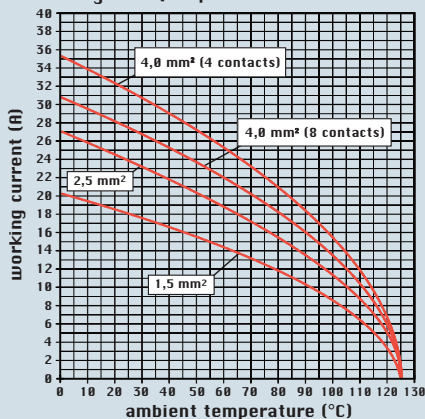
- are made of self-extinguishing thermoplastic resin UL 94 V0

- mechanical life: ≥ 500 cycles

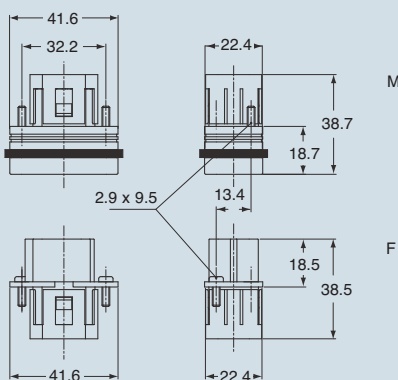
- contact resistance: ≤ 3 m Ω

- for maximum current load, see the following load curves inserts, for more information see page 494

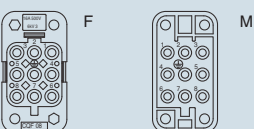
diagram CQ 08 poles



dimensions in mm

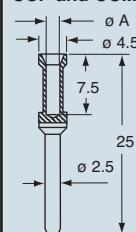


contacts side (front view)

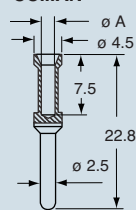


dimensions in mm

CCF and CCM



CC...AN



CCF, CCM and CC...AN contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(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

dimensions shown are not binding and may be changed without notice

CQ 4 poles (40A - 400/690V) + 2 poles (10A - 250V) + ⊕



enclosures:

size "32.13"

page:

insulating type 206 - 207

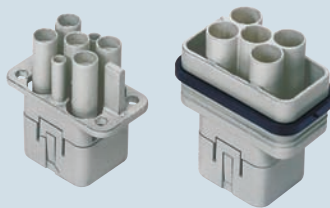
EMC 344 - 345

- for contact crimping instructions, please see the crimping tool section (40A contacts, CXF, CXM series and 10A contacts CDF, CDM series) on pages 466, 468, 470, 480, 482, 484, 486



compliant with ISO 23570-3 standard and with DESINA® specification

inserts, crimp connections



10A and 40A crimp contacts silver and gold plated

40A

10A



description

part No.

part No.

part No.

without contacts (to be ordered separately)

female inserts for female contacts

male inserts for male contacts

CQF 04/2
CQM 04/2

40A female contacts

1.5 mm ²	AWG 16
2.5 mm ²	AWG 14
4 mm ²	AWG 12
6 mm ²	AWG 10

40A male contacts

1.5 mm ²	AWG 16
2.5 mm ²	AWG 14
4 mm ²	AWG 12
6 mm ²	AWG 10

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

CXFA 1.5
CXFA 2.5
CXFA 4.0
CXFA 6.0

silver plated

CXMA 1.5
CXMA 2.5
CXMA 4.0
CXMA 6.0

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

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

- characteristics according to EN 61984:

4 poles 40A 400/690V 6kV 3
2 poles 10A 250V 4kV 3

- cUL (UL for USA and Canada), CSA, GOST certified

- rated voltage according to UL/CSA: 600V

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

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

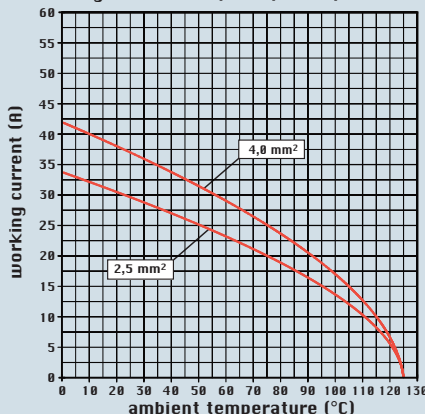
- are made of self-extinguishing thermoplastic resin UL 94 V0

- mechanical life: ≥ 500 cycles

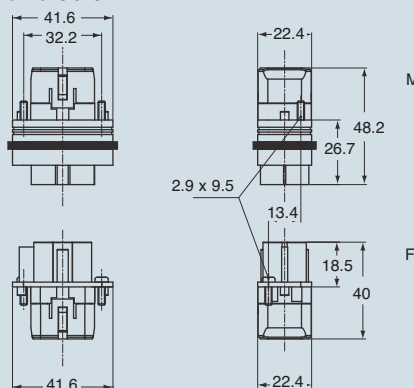
- contact resistance: $\leq 0.3 \text{ m}\Omega$ (4 poles)
 $\leq 3 \text{ m}\Omega$ (2 poles)

- for maximum current load, see the following load curves inserts, for more information see page 494

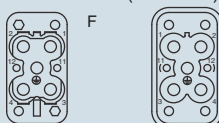
diagram CQ 04/2 poles power poles



dimensions in mm



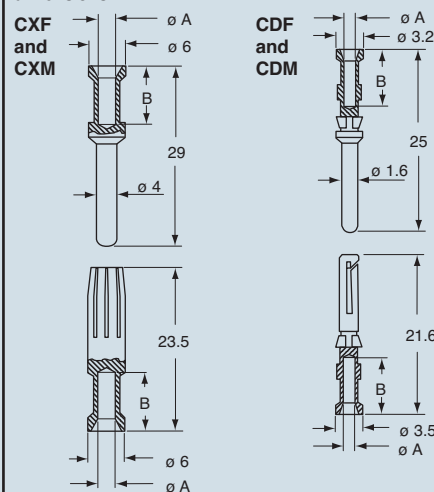
contacts side (front view)



CXF and CXM contacts

conductor section mm ²	conductor slot $\varnothing A$ (mm)	conductors stripping length B (mm)
1.5	1.75	9
2.5	2.25	9
4	2.85	9.6
6	3.5	9.6

dimensions in mm



CDF and CDM contacts

conductor section mm ²	conductor slot $\varnothing A$ (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

dimensions shown are not binding and may be changed without notice

enclosures:
size "49.16"

page:

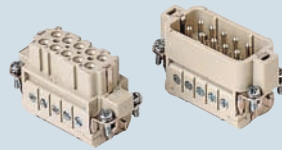
C-TYPE IP65/IP66 208 - 210
aggressive environments 326
EMC 346

panel supports:

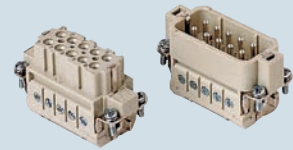
page:

COB + adaptor 410 - 412

inserts,
screw terminal connection



inserts,
screw terminal connection



description

part No.

part No.

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

CDAF 10
CDAM 10

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

CDAF 10 X
CDAM 10 X

¹⁾ for non-prepared conductors



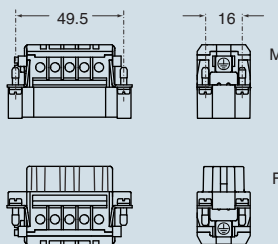
²⁾ for conductors with bush terminal



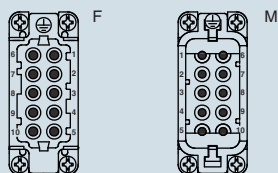
- characteristics according to EN 61984:

- 16A 250V 4kV 3**
- 16A 230/400V 4kV 2**
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 494

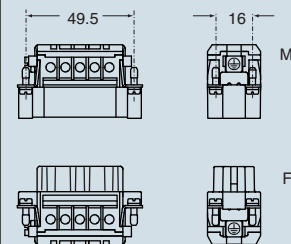
dimensions in mm



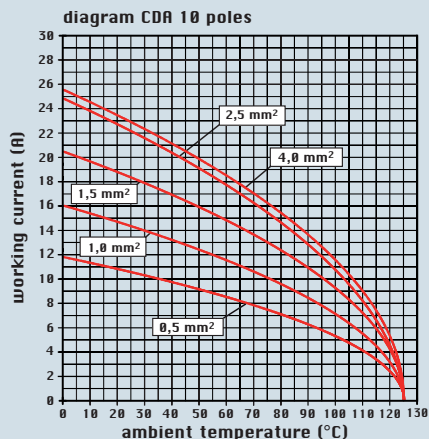
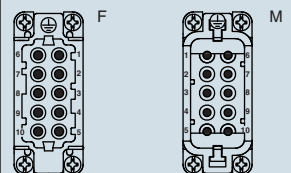
contacts side (front view)



dimensions in mm



contacts side (front view)



dimensions shown are not binding
and may be changed without notice

- inserts with plate for section conductors: 0.75 - 4 mm² - AWG 18 - 12
- conductors stripping length: 7 mm
- terminal screw torque: 0.5 Nm (4.4 lb.in), for more information see page 21 and 22

- inserts without plate for section prepared 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 21 and 22

enclosures:

size "49.16"

page:

C-TYPE IP65/IP66 208 - 210

aggressive environments 326

EMC 346

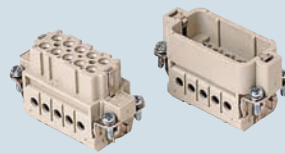
panel supports:

page:

COB + adaptor 410 - 412

- for contact crimping instructions, please see the crimping tool section (16A contacts, CCF, CCM and CC...AN series) on pages 466, 470, 480, 482, 484, 486

inserts, crimp connections



16A crimp contacts normal and for advanced opening silver and gold plated



description

part No.

part No.

part No.

without contacts (to be ordered separately)

female inserts for female contacts

male inserts for male contacts

CDCF 10
CDCM 10

16A female contacts

0.14-0.37 mm ²	AWG 26-22	three grooves
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	three grooves
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

silver plated

gold plated

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

- characteristics according to EN 61984:

16A 250V 4kV 3

16A 230/400V 4kV 2

- UL, CSA, CCC, GL, GOST certified

- rated voltage according to UL/CSA: 600V

- insulation resistance: ≥ 10 GΩ

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

- are made of self-extinguishing thermoplastic resin

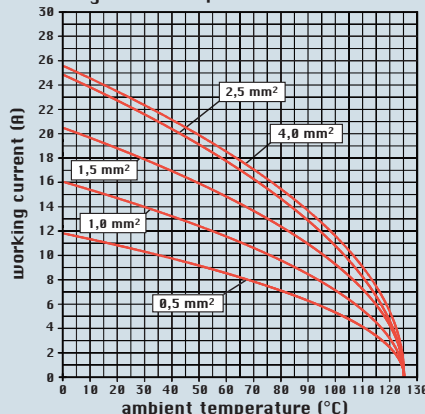
UL 94 V0

- mechanical life: ≥ 500 cycles

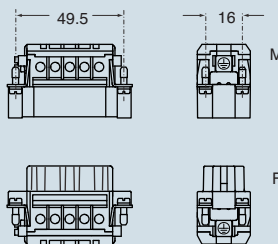
- contact resistance: ≤ 1 mΩ

- for maximum current load, see the following load curves inserts, for more information see page 494

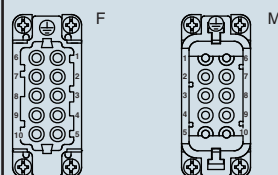
diagram CDC 10 poles



dimensions in mm



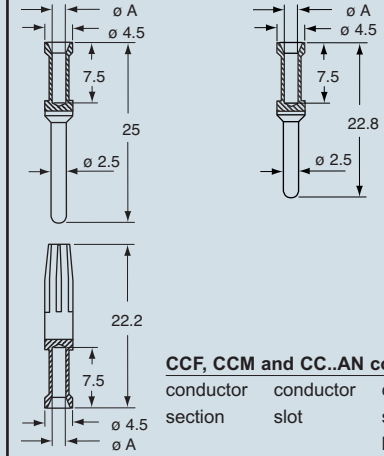
contacts side (front view)



dimensions in mm

CCF and CCM

CC...AN



CCF, CCM and CC...AN contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(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

enclosures:
size "66.16"

page:

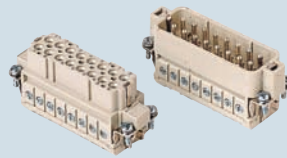
C-TYPE IP65/IP66 211 - 213
aggressive environments 327
EMC 347

panel supports:

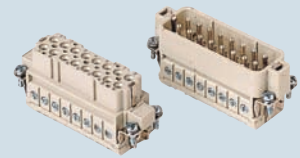
page:

COB + adaptor 410 - 412

**inserts,
screw terminal connection**



**inserts,
screw terminal connection**



description

part No.

part No.

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

CDAF 16
CDAM 16

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

CDAF 16 X
CDAM 16 X

¹⁾ for non-prepared conductors



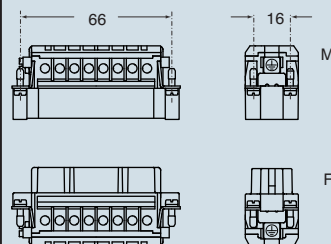
²⁾ for conductors with bush terminal



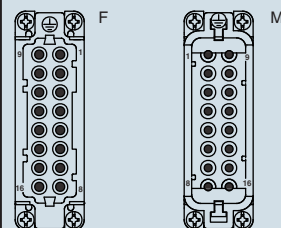
- characteristics according to EN 61984:

- 16A 250V 4kV 3**
- 16A 230/400V 4kV 2**
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 494

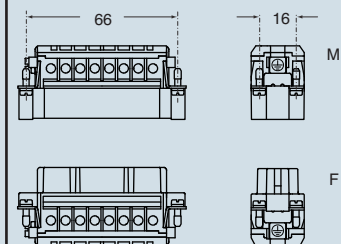
dimensions in mm



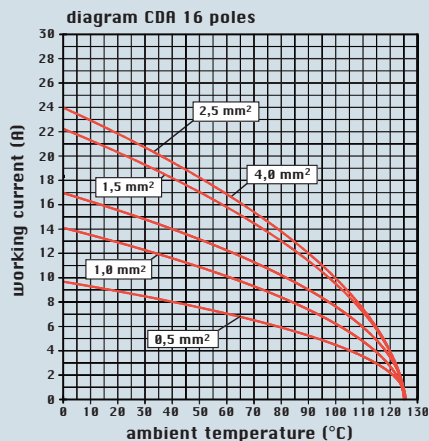
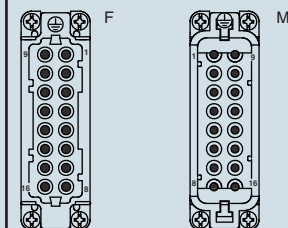
contacts side (front view)



dimensions in mm



contacts side (front view)



dimensions shown are not binding
and may be changed without notice

- inserts with plate for section conductors:
0.75 - 4 mm² - AWG 18 - 12
- conductors stripping length: 7 mm
- terminal screw torque: 0.5 Nm (4.4 lb.in), for more information see page 21 and 22

- inserts without plate for section prepared 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 21 and 22

enclosures:

size "66.16"

page:

C-TYPE IP65/IP66 211 - 213

aggressive environments 327

EMC 347

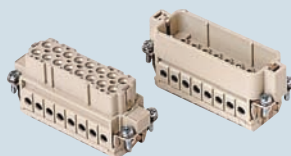
panel supports:

page:

COB + adaptor 410 - 412

- for contact crimping instructions, please see the crimping tool section (16A contacts, CCF, CCM and CC...AN series) on pages 466, 470, 480, 482, 484, 486

inserts, crimp connections



16A crimp contacts normal and for advanced opening silver and gold plated



description

part No.

part No.

part No.

without contacts (to be ordered separately)

female inserts for female contacts

male inserts for male contacts

CDCF 16
CDCM 16

16A female contacts

0.14-0.37 mm ²	AWG 26-22	three grooves
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	three grooves
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

silver plated

gold plated

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

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

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

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

- characteristics according to EN 61984:

16A 250V 4kV 3

16A 230/400V 4kV 2

- UL, CSA, CCC, GL, GOST certified

- rated voltage according to UL/CSA: 600V

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

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

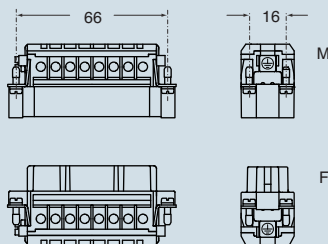
- are made of self-extinguishing thermoplastic resin UL 94 V0

- mechanical life: ≥ 500 cycles

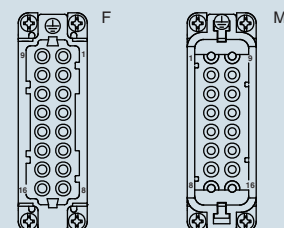
- contact resistance: $\leq 1 \text{ m}\Omega$

- for maximum current load, see the following load curves inserts, for more information see page 494

dimensions in mm



contacts side (front view)



dimensions in mm

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF and CCM

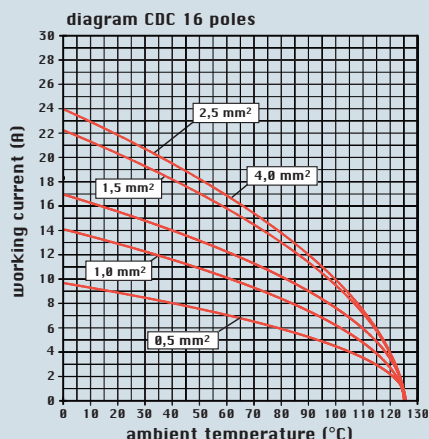
CC...AN

CCF and CCM

CC...AN

CCF, CCM and CC...AN contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(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



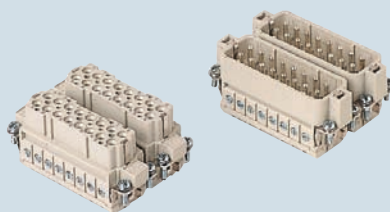
dimensions shown are not binding and may be changed without notice

enclosures:
size "66.40"

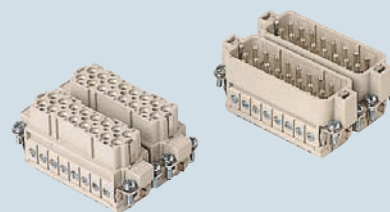
page:

C-TYPE IP65/IP66 215 - 217
aggressive environments 328

inserts,
screw terminal connection



inserts,
screw terminal connection



description

part No.

part No.

part No.

part No.

indirect, with plate ¹⁾
female inserts, No. (1-16) and (17-32)
male inserts, No. (1-16) and (17-32)

CDAF 16
CDAM 16

CDAF 16 N
CDAM 16 N

direct, without plate ²⁾
female inserts, No. (1-16) and (17-32)
male inserts, No. (1-16) and (17-32)

CDAF 16 X
CDAM 16 X

CDAF 16 XN
CDAM 16 XN

¹⁾ for non-prepared conductors



²⁾ for conductors with bush terminal



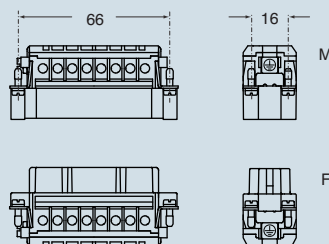
- characteristics according to EN 61984:

16A 250V 4kV 3

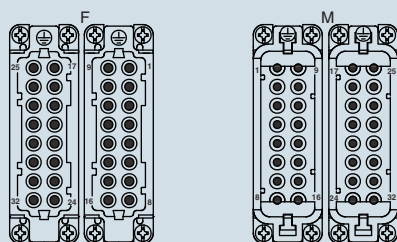
16A 230/400V 4kV 2

- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 494

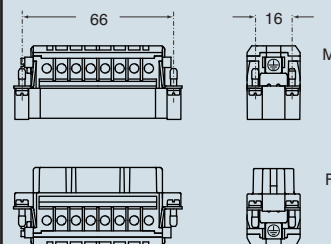
dimensions in mm



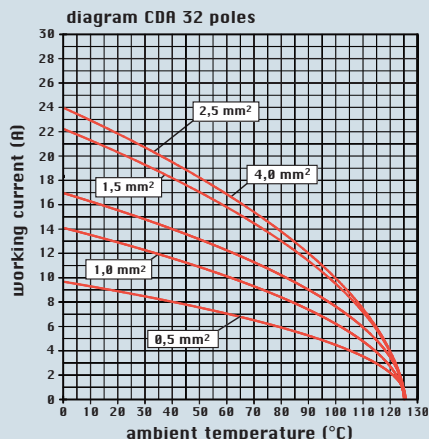
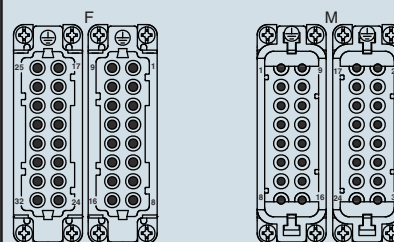
contacts side (front view)



dimensions in mm



contacts side (front view)



dimensions shown are not binding
and may be changed without notice

- inserts with plate for section conductors: 0.75 - 4 mm² - AWG 18 - 12
- conductors stripping length: 7 mm
- terminal screw torque: 0.5 Nm (4.4 lb.in), for more information see page 21 and 22

- inserts without plate for section prepared 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 21 and 22

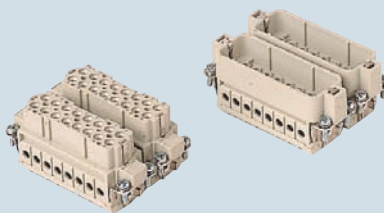
enclosures:
size "66.40"

page:

C-TYPE IP65/IP66 215 - 217
aggressive environments 328

- for contact crimping instructions, please see the crimping tool section (16A contacts, CCF, CCM and CC...AN series) on pages 466, 470, 480, 482, 484, 486

inserts, crimp connections



16A crimp contacts normal and for advanced opening silver and gold plated



description

part No.

part No.

part No.

part No.

without contacts (to be ordered separately)
female inserts, No. (1-16) and (17-32)
male inserts, No. (1-16) and (17-32)

CDCF 16
CDCM 16

CDCF 16 N
CDCM 16 N

16A female contacts

0.14-0.37 mm ²	AWG 26-22	three grooves
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	three grooves
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

silver plated

gold plated

gold plated

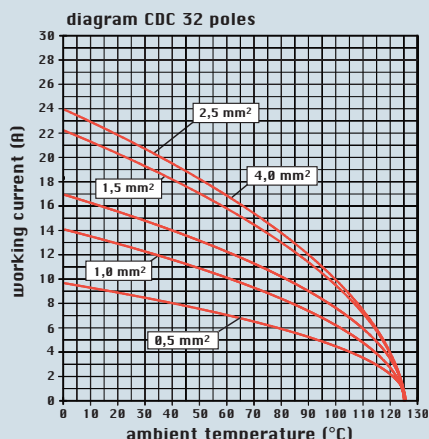
gold plated

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

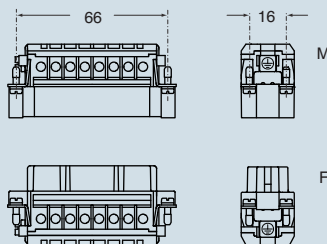
- characteristics according to EN 61984:

16A 250V 4kV 3
16A 230/400V 4kV 2

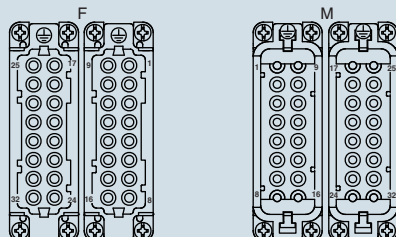
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 494



dimensions in mm

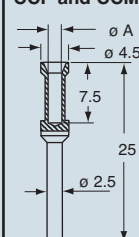


contacts side (front view)

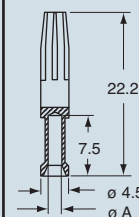
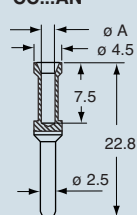


dimensions in mm

CCF and CCM



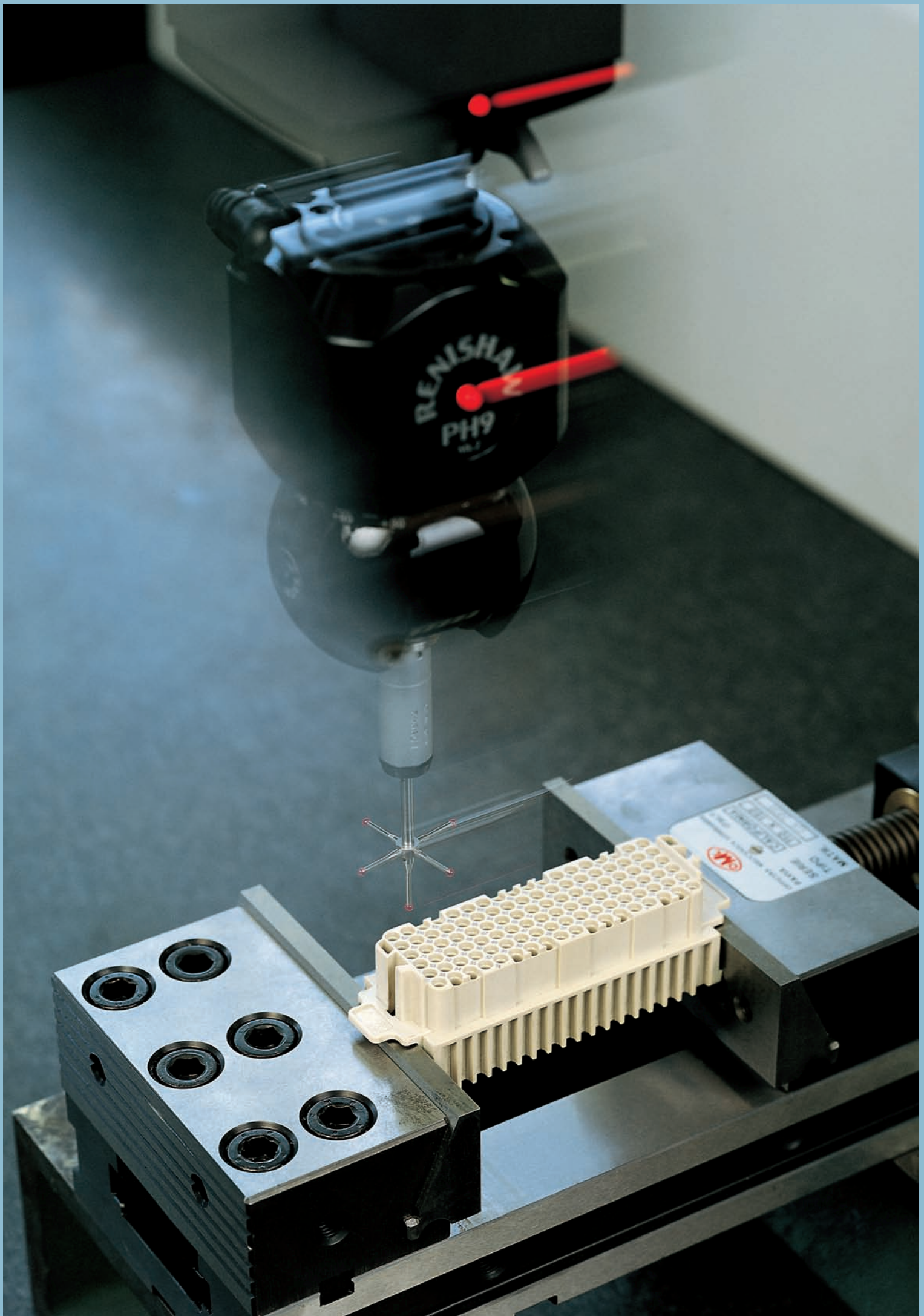
CC...AN



CCF, CCM and CC...AN contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(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

dimensions shown are not binding and may be changed without notice



When all the contacts are used, the CQE inserts series connectors may be used with voltages of up to 500V (first column) pollution degree 3, in accordance with the standard EN 61984.

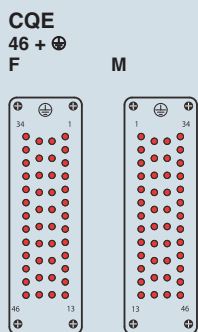
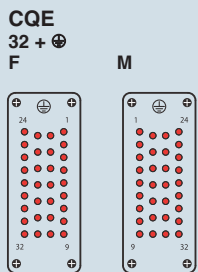
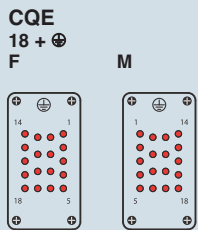
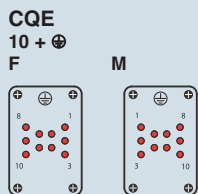
If the number of contacts is reduced and the contacts accordingly assigned, these connectors may be used with higher voltages. This is possible because the decrease in the number of contacts leads to an increase in the surface insulation distance in the air. When the contacts are arranged as shown below, the inserts may be used for voltages of 690V (second column) and 1000V (third column) pollution degree 3, in accordance with the standard EN 61984.

Legend:

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

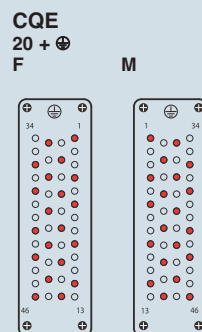
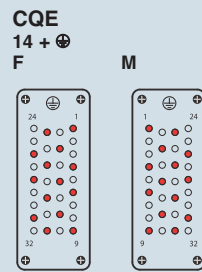
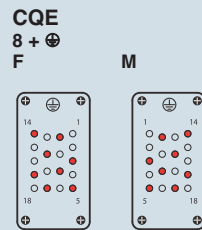
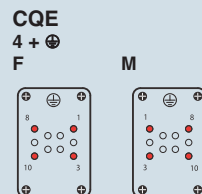
for use up to 500V
pollution degree 3

diagrams
contacts side (front view)



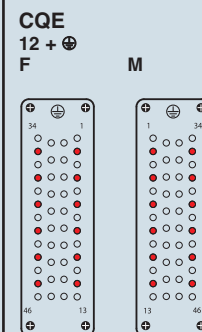
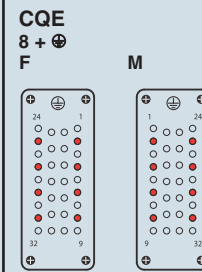
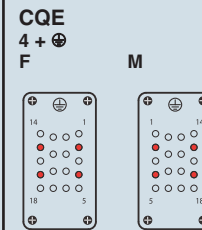
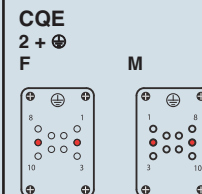
for use up to 690V
pollution degree 3

diagrams
contacts side (front view)



for use up to 1000V
pollution degree 3

diagrams
contacts side (front view)



enclosures:

size "44.27"

page:

C-TYPE IP65/IP66 218 - 221

C7 IP67 stainless steel lever 254

V-TYPE IP65/IP66 stainless steel lever 260 - 262

T-TYPE IP65 insulating 282

JEI zinc-plated steel lever 288 - 289

BIG hoods 304 - 306

aggressive environments 329

EMC 348

central lever 360 - 361

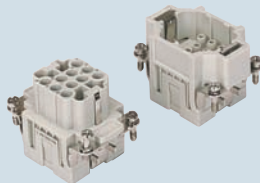
IP68 374 - 377

panel supports:

page:

COB 410 - 411

inserts, crimp connections



16A crimp contacts
normal and for advanced opening
silver and gold plated



description

part No.

part No.

part No.

without contacts (to be ordered separately)

female inserts for female contacts

male inserts for male contacts

CQEF 10
CQEM 10

16A female contacts

0.14-0.37 mm ²	AWG 26-22	three grooves
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	three grooves
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

silver plated

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

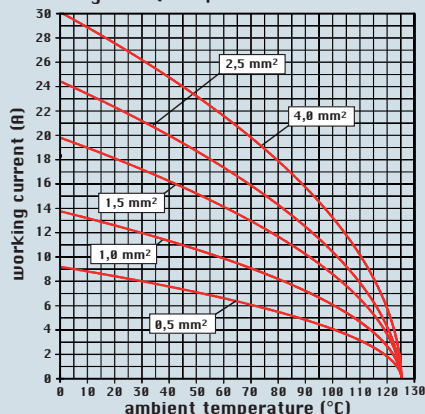
CC 0.5 AN
CC 0.7 AN
CC 1.0 AN
CC 1.5 AN
CC 2.5 AN

- characteristics according to EN 61984:

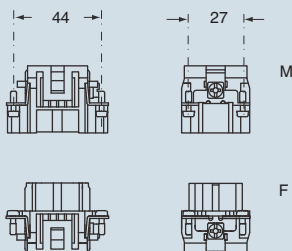
16A 500V 6kV 3
16A 830V 8kV 2

- UL, CSA, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 495

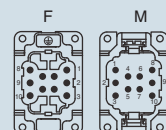
diagram CQE 10 poles



dimensions in mm

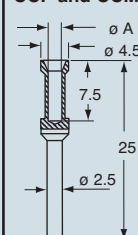


contacts side (front view)

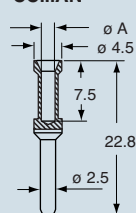


dimensions in mm

CCF and CCM



CC...AN



CCF, CCM and CC...AN contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(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

- for contact crimping instructions, please see the crimping tool section (16A contacts, CCF, CCM and CC...AN series) on pages 466, 470, 480, 482, 484, 486

dimensions shown are not binding and may be changed without notice

enclosures:

size "57.27"

page:

C-TYPE IP65/IP66 222 - 227

C7 IP67 stainless steel lever 255

V-TYPE IP65/IP66 stainless steel lever 264 - 267

T-TYPE IP65 insulating 283

JEI zinc-plated steel lever 290 - 291

BIG hoods 308 - 311

aggressive environments 330

EMC 349

central lever 362 - 363

IP68 378 - 381

panel supports:

page:

COB 410 - 411

inserts, crimp connections



16A crimp contacts normal and for advanced opening silver and gold plated



description

part No.

part No.

part No.

without contacts (to be ordered separately)

female inserts for female contacts

male inserts for male contacts

CQEF 18
CQEM 18

16A female contacts

0.14-0.37 mm ²	AWG 26-22	three grooves
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	three grooves
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

silver plated

gold plated

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

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

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

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

- characteristics according to EN 61984:

16A 500V 6kV 3
16A 830V 8kV 2

- UL, CSA, GL, GOST certified

- rated voltage according to UL/CSA: 600V

- insulation resistance: ≥ 10 GΩ

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

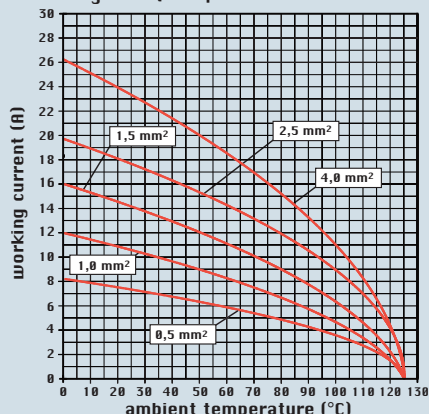
- are made of self-extinguishing thermoplastic resin UL 94 V0

- mechanical life: ≥ 500 cycles

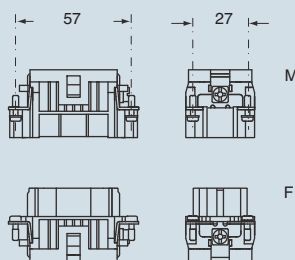
- contact resistance: ≤ 1 mΩ

- for maximum current load, see the following load curves inserts, for more information see page 495

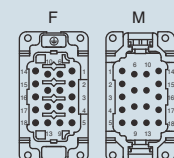
diagram CQE 18 poles



dimensions in mm

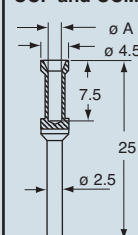


contacts side (front view)

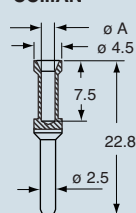


dimensions in mm

CCF and CCM



CC...AN



CCF, CCM and CC...AN contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(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

- for contact crimping instructions, please see the crimping tool section (16A contacts, CCF, CCM and CC...AN series) on pages 466, 470, 480, 482, 484, 486

enclosures:

size "77.27"

page:

C-TYPE IP65/IP66 228 - 234

C7 IP67 stainless steel lever 256

V-TYPE IP65/IP66 stainless steel lever 268 - 271

T-TYPE IP65 insulating 284

JEI zinc-plated steel lever 292 - 293

BIG hoods 312 - 315

aggressive environments 331

EMC 350

central lever 364 - 365

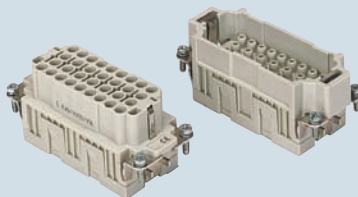
IP68 382 - 385

panel supports:

page:

COB 410 - 411

inserts, crimp connections



16A crimp contacts normal and for advanced opening silver and gold plated



description

part No.

part No.

part No.

without contacts (to be ordered separately)

female inserts for female contacts

male inserts for male contacts

CQEF 32
CQEM 32

16A female contacts

0.14-0.37 mm ²	AWG 26-22	three grooves
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	three grooves
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

silver plated

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

gold 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

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

- characteristics according to EN 61984:

16A 500V 6kV 3
16A 830V 8kV 2

- UL, CSA, GL, GOST certified

- rated voltage according to UL/CSA: 600V

- insulation resistance: ≥ 10 G Ω

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

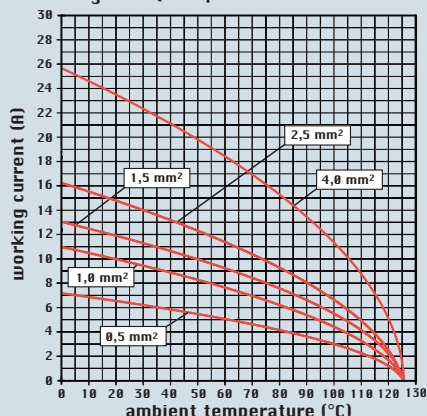
- are made of self-extinguishing thermoplastic resin UL 94 V0

- mechanical life: ≥ 500 cycles

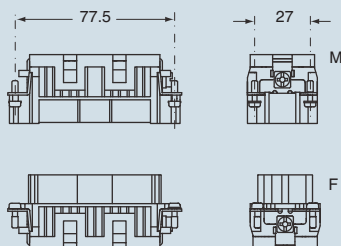
- contact resistance: ≤ 1 m Ω

- for maximum current load, see the following load curves inserts, for more information see page 495

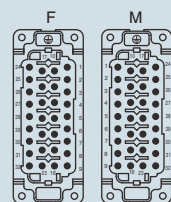
diagram CQE 32 poles



dimensions in mm

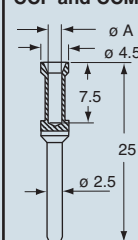


contacts side (front view)

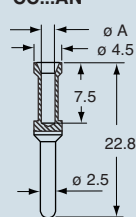


dimensions in mm

CCF and CCM



CC...AN



CCF, CCM and CC...AN contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(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

- for contact crimping instructions, please see the crimping tool section (16A contacts, CCF, CCM and CC...AN series) on pages 466, 470, 480, 482, 484, 486

dimensions shown are not binding and may be changed without notice

enclosures:

size "104.27"

page:

C-TYPE IP65/IP66 236 - 243

C7 IP67 stainless steel lever 257

V-TYPE IP65/IP66 stainless steel lever 272 - 275

T-TYPE IP65 insulating 285

JEI zinc-plated steel lever 294 - 295

BIG hoods 316 - 319

aggressive environments 332

EMC 351

central lever 366 - 368

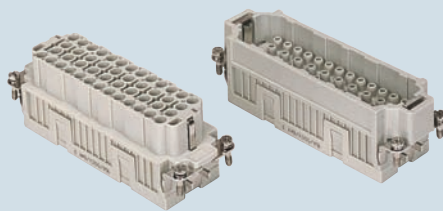
IP68 386 - 389

panel supports:

page:

COB 410 - 411

inserts, crimp connections



16A crimp contacts
normal and for advanced opening
silver and gold plated



description

part No.

part No.

part No.

without contacts (to be ordered separately)

female inserts for female contacts

male inserts for male contacts

CQEF 46
CQEM 46

16A female contacts

0.14-0.37 mm ²	AWG 26-22	three grooves
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	three grooves
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

silver plated

gold plated

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

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

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

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

- characteristics according to EN 61984:

16A 500V 6kV 3
16A 830V 8kV 2

- UL, CSA, GL, GOST certified

- rated voltage according to UL/CSA: 600V

- insulation resistance: ≥ 10 GΩ

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

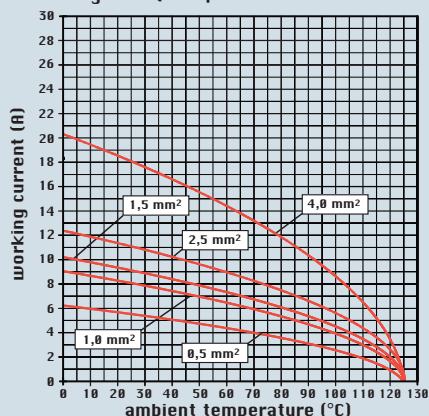
- are made of self-extinguishing thermoplastic resin UL 94 V0

- mechanical life: ≥ 500 cycles

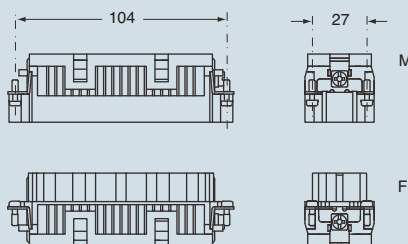
- contact resistance: ≤ 1 mΩ

- for maximum current load, see the following load curves inserts, for more information see page 495

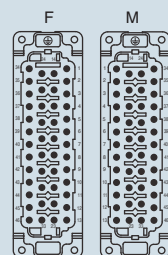
diagram CQE 46 poles



dimensions in mm

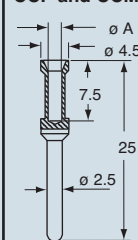


contacts side (front view)

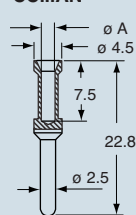


dimensions in mm

CCF and CCM



CC...AN



CCF, CCM and CC...AN contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(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

- for contact crimping instructions, please see the crimping tool section (16A contacts, CCF, CCM and CC...AN series) on pages 466, 470, 480, 482, 484, 486

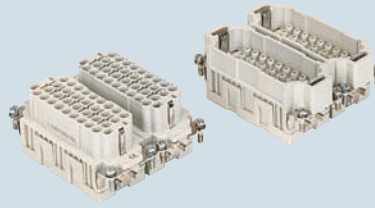
enclosures:
size "77.62"

page:

C-TYPE IP65/IP66 244 - 247
aggressive environments 333

- for contact crimping instructions, please see the crimping tool section (16A contacts, CCF, CCM and CC...AN series) on pages 466, 470, 480, 482, 484, 486

inserts, crimp connections



16A crimp contacts normal and for advanced opening silver and gold plated



description

part No.

part No.

part No.

part No.

without contacts (to be ordered separately)
female inserts, No. (1-32) and (33-64)
male inserts, No. (1-32) and (33-64)

CQEF 32
CQEM 32

CQEF 32 N
CQEM 32 N

16A female contacts

0.14-0.37 mm ²	AWG 26-22	three grooves
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	three grooves
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

silver plated

gold plated

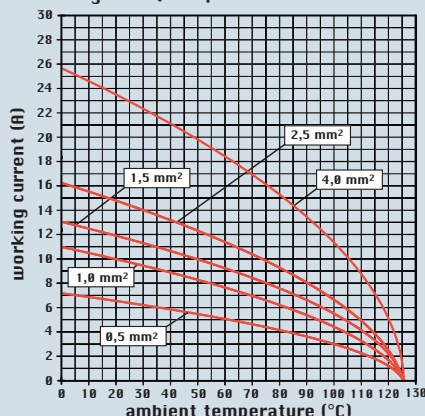
CC 0.5 AN
CC 0.7 AN
CC 1.0 AN
CC 1.5 AN
CC 2.5 AN

- characteristics according to EN 61984:

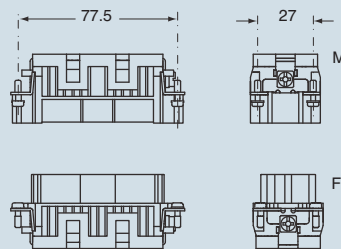
16A 500V 6kV 3
16A 830V 8kV 2

- UL, CSA, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: -40 °C ... +125 °C
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 495

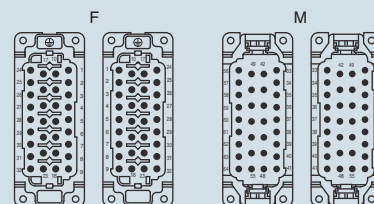
diagram CQE 64 poles



dimensions in mm

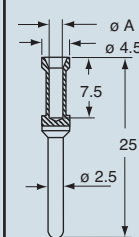


contacts side (front view)

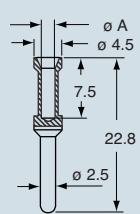


dimensions in mm

CCF and CCM



CC...AN



CCF, CCM and CC...AN contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(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

dimensions shown are not binding and may be changed without notice

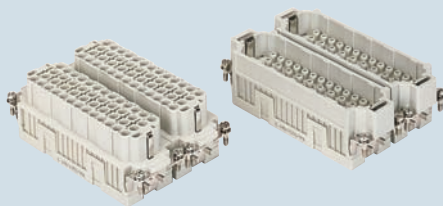
enclosures:
size "104.62"

page:

C-TYPE IP65/IP66 248
aggressive environments 334

- for contact crimping instructions, please see the crimping tool section (16A contacts, CCF, CCM and CC...AN series) on pages 466, 470, 480, 482, 484, 486

inserts, crimp connections



16A crimp contacts normal and for advanced opening silver and gold plated



description

part No.

part No.

part No.

part No.

without contacts (to be ordered separately)
female inserts, No. (1-46) and (47-92)
male inserts, No. (1-46) and (47-92)

CQEF 46
CQEM 46

CQEF 46 N
CQEM 46 N

16A female contacts

0.14-0.37 mm ²	AWG 26-22	three grooves
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	three grooves
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

silver plated

gold plated

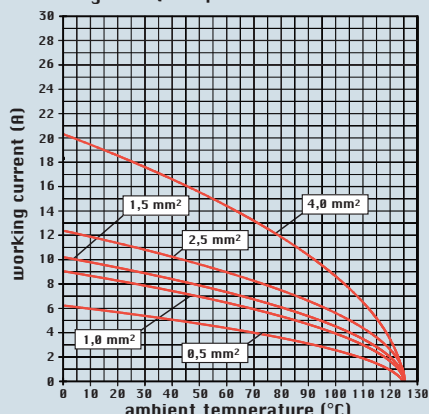
CC 0.5 AN
CC 0.7 AN
CC 1.0 AN
CC 1.5 AN
CC 2.5 AN

- characteristics according to EN 61984:

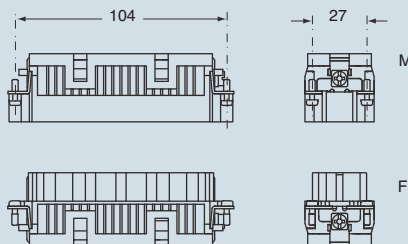
16A 500V 6kV 3
16A 830V 8kV 2

- UL, CSA, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: -40 °C ... +125 °C
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 495

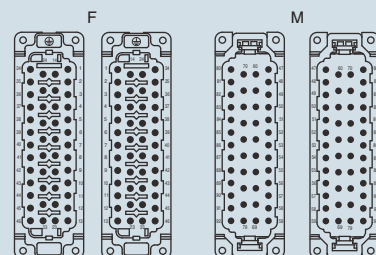
diagram CQE 92 poles



dimensions in mm

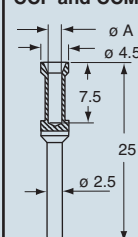


contacts side (front view)

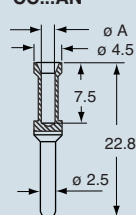


dimensions in mm

CCF and CCM



CC...AN



CCF, CCM and CC...AN contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(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

dimensions shown are not binding and may be changed without notice

As an improvement of high-performance industrial connections, ILME developed a new evolution of its own spring-clamp connectors, to meet the market needs and make the installation simpler.

The new **CSH series "SQUICH" (with spring and actuator button)**, the logical evolution of the CSE series, is characterized by the following advantages: reduced cabling time, no need for tools, quick identification of cabled and non cabled terminals, terminals already opened for conductor clamping, possibility to use wires with or without ferrule of up to 2.5 mm², thanks to the **"SQUICH"** connection.

Each of the spring terminals has an actuator button (pin), suitably shaped and incorporated in the cavity. When this button is pressed with a finger, it triggers the closure of the spring device of the corresponding terminal, safely and reliably connecting the conductor to its respective electric contact in the connector.

The actuator buttons are supplied lifted, in the "open terminal" position, and are easily distinguishable by the **orange colour which makes them stand out from the insulating body of the connector**.

The actuator buttons are arranged in their own cavities **aside the openings for the insertion of conductors in the terminals**, for easy access to the terminals themselves in case of re-opening.

The advantage of such an **exclusive solution** is that the **actuators disappear completely within the body of the connector**, making it easy to identify terminals not yet closed and eliminating possible obstacles to the movement of the conductors during installation and maintenance.

In this manner during the cabling phase the **need for a tool to activate the terminal is completely eliminated**, and a **simple operation is all you need to make the connection**.

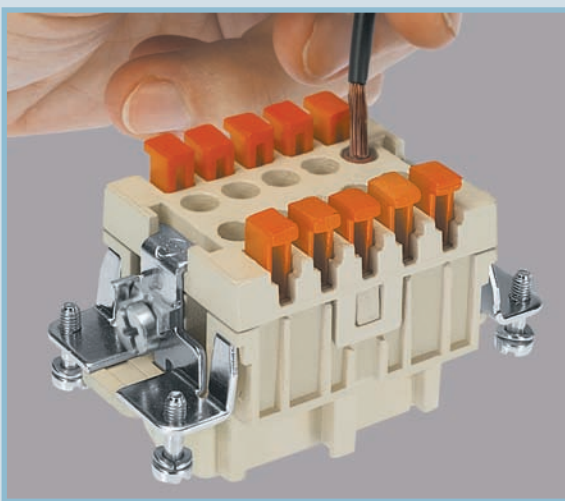
To reopen the terminals, simply introduce the tip of a common 0.5 x 3.5 mm flat blade screwdriver in the shaped pocket on the head of the actuator, and slightly rotate the screwdriver downwards: this will lift up the actuator in its "open terminal" position.

The new connector inserts are available in the **standard versions**, with operating range from -40° C to +125° C, in these sizes:

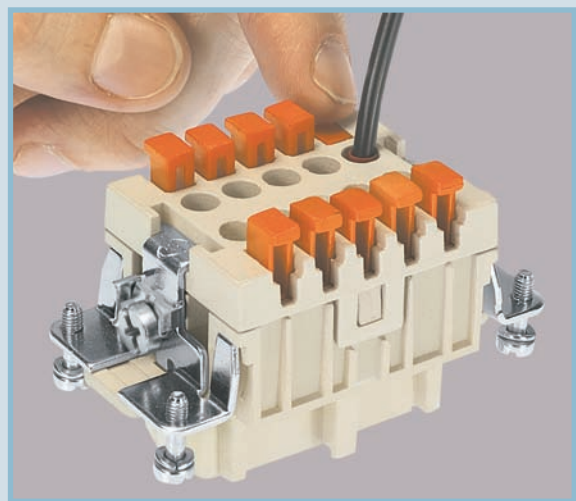
- "44.27" : **CSHM / F 06**
- "57.27" : **CSHM / F 10**
- "77.27" : **CSHM / F 16** and **CSHM/ F 16 N** (special numbering 17-32)
- "104.27": **CSHM / F 24** and **CSHM/ F 24 N** (special numbering 25-48)

CSH connector inserts can be mated with the corresponding inserts of series CNE, CSE, CCE, CTE, CTSE, CT and CSS.

CSH series Connections without tools SQUICH



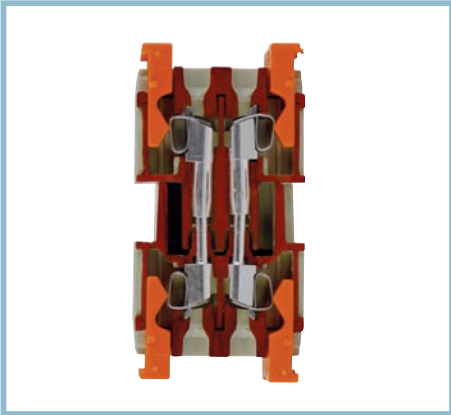
1) insert the wire



2) press

**Cabling time: 50% quicker than the screw-type connection and
20% quicker than the conventional spring-type connection**

Spring connection contacts
with actuator button



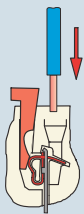
description

inserts series: CSH

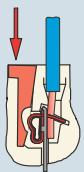
in this layout the wires are connected to the socket and plug insert contacts by means of a spring terminal with actuator button.

This type of connection offers the following advantages:

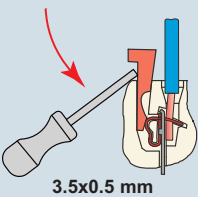
- no special wire preparation (**other than stripping**)
- no cabling tool is necessary
- it offers an excellent fastening solution and a great resistance to strong vibrations
- allows rigid and flexible wires with cross-sections between 0,14 and 2,5 mm² to be used (26 - 14 AWG)
- greatly reduces insert preparation and cabling times
- a screwdriver with a 0.5 x 3.5 mm blade is the only tool required to remove the wire from the contact.



Step 1
deep insertion of the conductor (with its insulation removed) in its own round seat



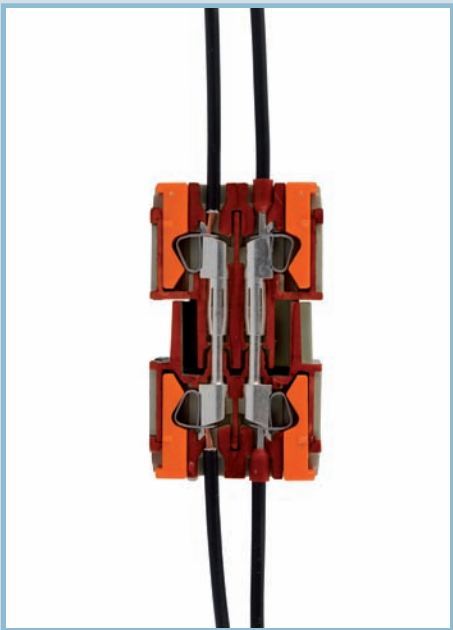
Step 2
press the actuator button to close the terminal



Reopening

inserts series		CSH
No. of poles ¹⁾	main contact + ⊕	6, 10, 16, 24, (32), (48)
	auxiliary contacts	--
rated current ²⁾		16A
EN 61984 pollution degree 3	rated voltage	500V
	rated holding impulse withstand voltage	6kV
	pollution degree	3
EN 61984 pollution degree 2	rated voltage	400/690V
	rated holding impulse withstand voltage	6kV
	pollution degree	2
UL/CSA certification	rated voltage (a.c./d.c.)	600V
certifications		UL, CSA, CCC, GOST
contact resistance		≤ 3 mΩ
insulation resistance		≥ 10 GΩ
ambient temperature limit (°C)	min	-40
	max	+125
degree of protection	with enclosures	IP65, IP66, IP67, IP68, IP69K (according to type)
	without enclosures	IP20
conductor connections		spring and clamp with actuator button
conductor cross-section	mm ²	0.14 ÷ 2.5
	AWG	26 ÷ 14
mechanical endurance (mating cycles)		≥500

1) Polarities shown in brackets may be achieved by using two inserts in their own double housings.
2) Please check the insert load curves to establish the actual maximum operating current according to the ambient temperature.



enclosures:

size "44.27"

page:

C-TYPE IP65/IP66 218 - 221

C7 IP67 stainless steel lever 254

V-TYPE IP65/IP66

stainless steel lever 260 - 262

T-TYPE IP65 insulating 282

JEI zinc-plated steel lever 288 - 289

BIG hoods 304 - 306

aggressive environments 329

EMC 348

central lever 360 - 361

IP68 374 - 377

panel supports:

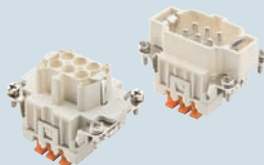
page:

COB 410 - 411

description

inserts,

spring terminal connections



NEW

part No.

spring terminals with actuator button

female inserts with female contacts

male inserts with male contacts

CSHF 06

CSHM 06

- characteristics according to EN 61984:

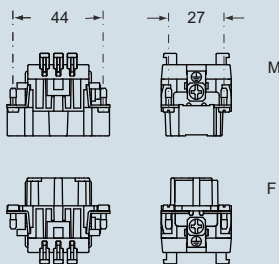
16A 500V 6kV 3**16A 400/690V 6kV 2**

- UL, CSA, CCC, GOST certified

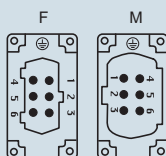
- rated voltage according to UL/CSA: 600V

- insulation resistance: $\geq 10 \text{ G}\Omega$ - ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$ - are made of self-extinguishing thermoplastic resin
UL 94 V0- mechanical life: ≥ 500 cycles- contact resistance: $\leq 3 \text{ m}\Omega$ - for maximum current load, see the following load
curves inserts, for more information see page 496

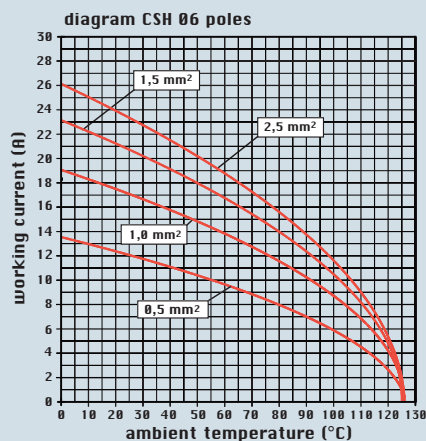
dimensions in mm



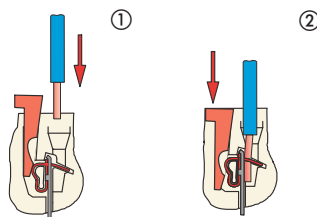
contacts side (front view)

- inserts for connectors with the following sections:
0.14 - 2.5 mm² - AWG 26 - 14

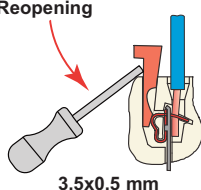
- conductors stripping length: 9...11 mm

dimensions shown are not binding
and may be changed without notice

SQUICH connections



Reopening



3.5x0.5 mm

enclosures:

size "57.27"

page:

C-TYPE IP65/IP66 222 - 227

C7 IP67 stainless steel lever 255

V-TYPE IP65/IP66

stainless steel lever 264 - 267

T-TYPE IP65 insulating 283

JEI zinc-plated steel lever 290 - 291

BIG hoods 308 - 311

aggressive environments 330

EMC 349

central lever 362 - 363

IP68 378 - 381

panel supports:

page:

COB 410 - 411

description

part No.

spring terminals with actuator button

female inserts with female contacts

male inserts with male contacts

CSHF 10

CSHM 10

- characteristics according to EN 61984:

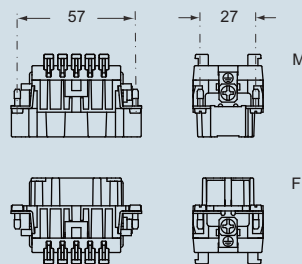
16A 500V 6kV 3**16A 400/690V 6kV 2**

- UL, CSA, CCC, GOST certified

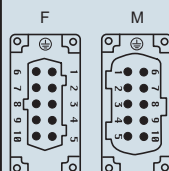
- rated voltage according to UL/CSA: 600V

- insulation resistance: $\geq 10 \text{ G}\Omega$ - ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$ - are made of self-extinguishing thermoplastic resin
UL 94 V0- mechanical life: ≥ 500 cycles- contact resistance: $\leq 3 \text{ m}\Omega$ - for maximum current load, see the following load
curves inserts, for more information see page 496

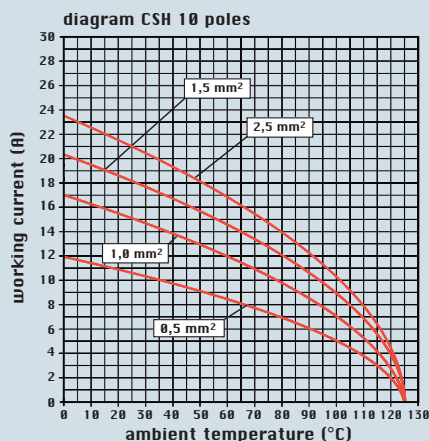
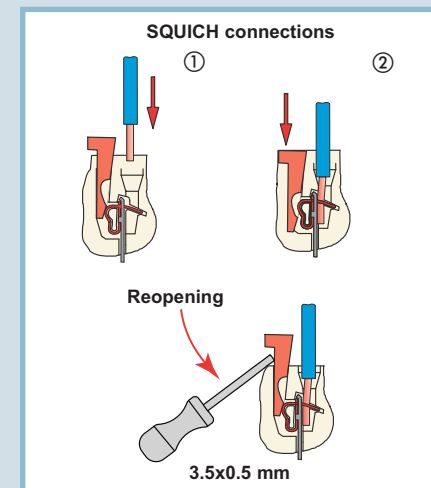
dimensions in mm



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

dimensions shown are not binding
and may be changed without notice

NEW

CSH

enclosures:

size "77.27"

page:

C-TYPE IP65/IP66 228 - 234

C7 IP67 stainless steel lever 256

V-TYPE IP65/IP66

stainless steel lever 268 - 271

T-TYPE IP65 insulating 284

JEI zinc-plated steel lever 292 - 293

BIG hoods 312 - 315

aggressive environments 331

EMC 350

central lever 364 - 365

IP68 382 - 385

panel supports:

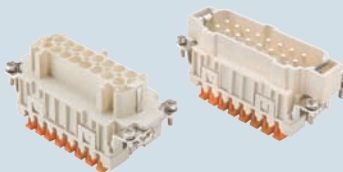
page:

COB 410 - 411

description

inserts,

spring terminal connections



NEW

part No.

spring terminals with actuator button

female inserts with female contacts

male inserts with male contacts

CSHF 16

CSHM 16

- characteristics according to EN 61984:

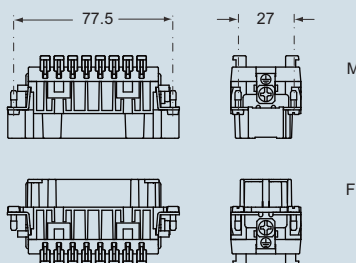
16A 500V 6kV 3**16A 400/690V 6kV 2**

- UL, CSA, CCC, GOST certified

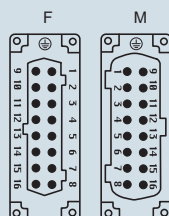
- rated voltage according to UL/CSA: 600V

- insulation resistance: $\geq 10 \text{ G}\Omega$ - ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$ - are made of self-extinguishing thermoplastic resin
UL 94 V0- mechanical life: ≥ 500 cycles- contact resistance: $\leq 3 \text{ m}\Omega$ - for maximum current load, see the following load
curves inserts, for more information see page 496

dimensions in mm



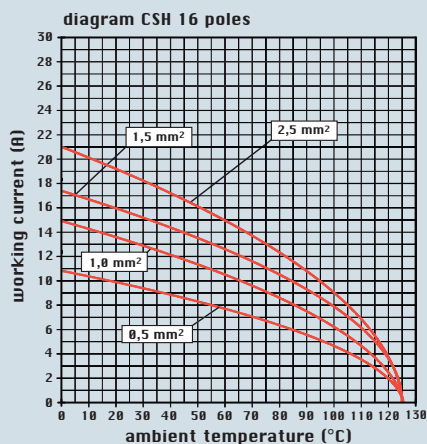
contacts side (front view)



- inserts for connectors with the following sections:

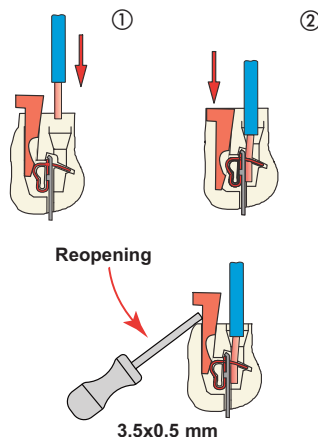
0.14 - 2.5 mm² - AWG 26 - 14

- conductors stripping length: 9...11 mm



dimensions shown are not binding
and may be changed without notice

SQUICH connections



enclosures:

size "104.27"

page:

C-TYPE IP65/IP66 236 - 243

C7 IP67 stainless steel lever 257

V-TYPE IP65/IP66

stainless steel lever 272 - 275

T-TYPE IP65 insulating 285

JEI zinc-plated steel lever 294 - 295

BIG hoods 316 - 319

aggressive environments 332

EMC 351

central lever 366 - 368

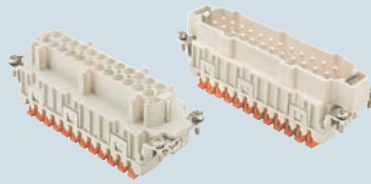
IP68 386 - 389

panel supports:

page:

COB 410 - 411

description

inserts,
spring terminal connections

NEW

part No.

CSHF 24
CSHM 24spring terminals with actuator button
female inserts with female contacts
male inserts with male contacts

- characteristics according to EN 61984:

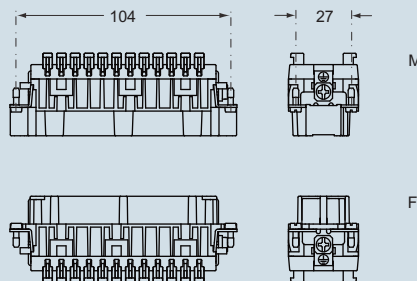
16A 500V 6kV 3**16A 400/690V 6kV 2**

- UL, CSA, CCC, GOST certified

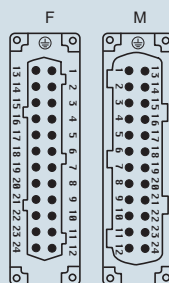
- rated voltage according to UL/CSA: 600V

- insulation resistance: $\geq 10 \text{ G}\Omega$ - ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$ - are made of self-extinguishing thermoplastic resin
UL 94 V0- mechanical life: ≥ 500 cycles- contact resistance: $\leq 3 \text{ m}\Omega$ - for maximum current load, see the following load
curves inserts, for more information see page 496

dimensions in mm



contacts side (front view)

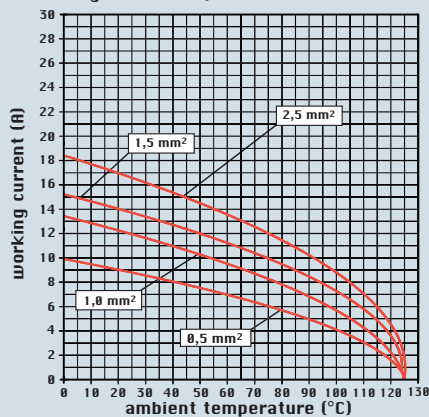


- inserts for connectors with the following sections:

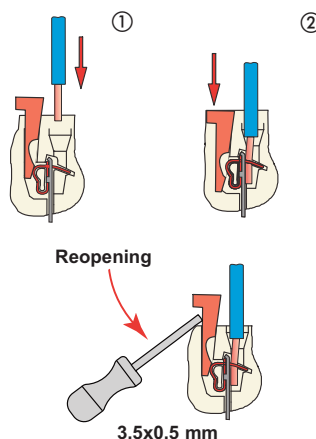
0.14 - 2.5 mm² - AWG 26 - 14

- conductors stripping length: 9...11 mm

diagram CSH 24 poles

dimensions shown are not binding
and may be changed without notice

SQUICH connections

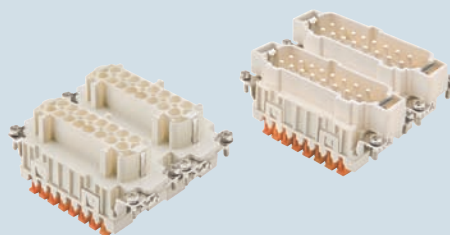


enclosures:
size "77.62"

page:

C-TYPE IP65/IP66 244 - 247
aggressive environments 333

inserts,
spring terminal connections



NEW

description

part No.

part No.

spring terminals with actuator button
female inserts with female contacts, No. (1-16) and (17-32)
male inserts with male contacts, No. (1-16) and (17-32)

CSHF 16
CSHM 16

CSHF 16 N
CSHM 16 N

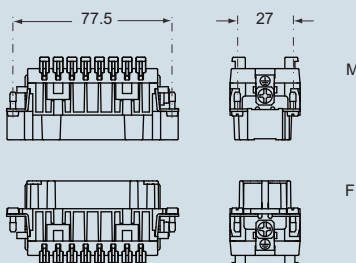
- characteristics according to EN 61984:

16A 500V 6kV 3

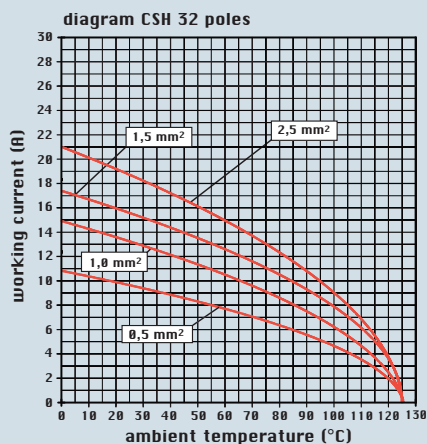
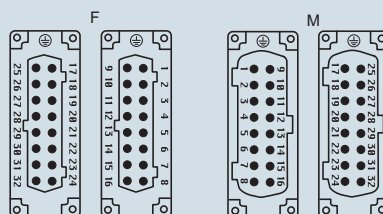
16A 400/690V 6kV 2

- UL, CSA, CCC, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 3 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 496

dimensions in mm

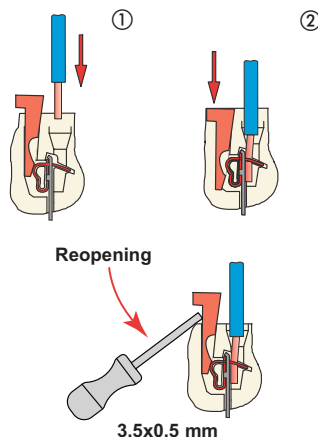


contacts side (front view)



- inserts for connectors with the following sections:
0.14 - 2.5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm

SQUICH connections



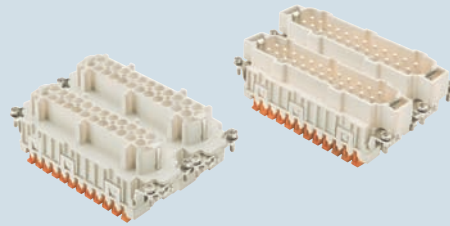
dimensions shown are not binding
and may be changed without notice

enclosures:
size "104.62"

page:

C-TYPE IP65/IP66 248
aggressive environments 334

inserts,
spring terminal connections



NEW

description

part No.

part No.

spring terminals with actuator button
female inserts with female contacts, No. (1-24) and (25-48)
male inserts with male contacts, No. (1-24) and (25-48)

CSHF 24
CSHM 24

CSHF 24 N
CSHM 24 N

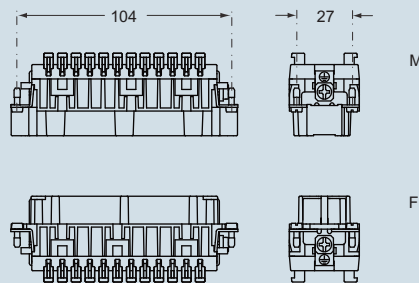
- characteristics according to EN 61984:

16A 500V 6kV 3

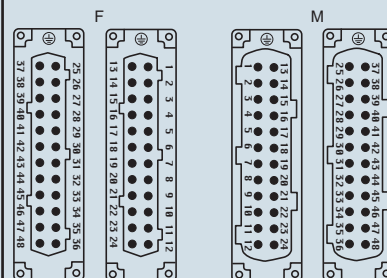
16A 400/690V 6kV 2

- UL, CSA, CCC, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 3 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 496

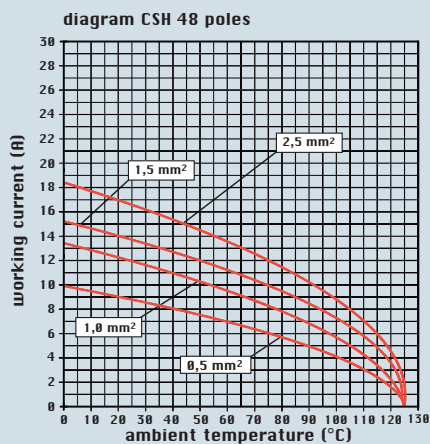
dimensions in mm



contacts side (front view)

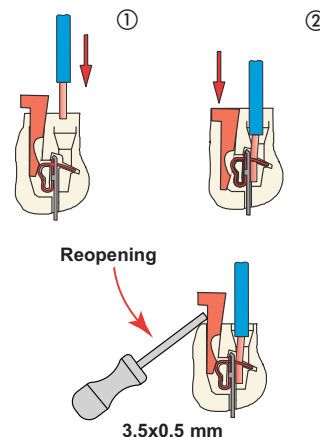


- inserts for connectors with the following sections:
0.14 - 2.5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm



dimensions shown are not binding
and may be changed without notice

SQUICH connections



enclosures:

size "44.27"

page:

C-TYPE IP65/IP66 218 - 221

C7 IP67 stainless steel lever 254

V-TYPE IP65/IP66 stainless steel lever 260 - 262

T-TYPE IP65 insulating 282

JEI zinc-plated steel lever 288 - 289

BIG hoods 304 - 306

aggressive environments 329

EMC 348

central lever 360 - 361

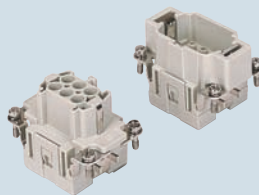
IP68 374 - 377

panel supports:

page:

COB 410 - 411

inserts, crimp connections



16A crimp contacts
normal and for advanced opening
silver and gold plated



description

part No.

part No.

part No.

without contacts (to be ordered separately)

female inserts for female contacts

male inserts for male contacts

CCEF 06
CCEM 06

16A female contacts

0.14-0.37 mm ²	AWG 26-22	three grooves
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	three grooves
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

- characteristics according to EN 61984:

16A 500V 6kV 3

16A 400/690V 6kV 2

- UL, CSA, GL, GOST certified

- rated voltage according to UL/CSA: 600V

- insulation resistance: ≥ 10 GΩ

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

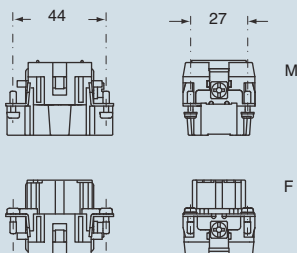
- are made of self-extinguishing thermoplastic resin UL 94 V0

- mechanical life: ≥ 500 cycles

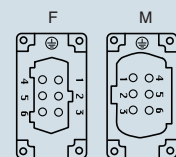
- contact resistance: ≤ 1 mΩ

- for maximum current load, see the following load curves inserts, for more information see page 495

dimensions in mm

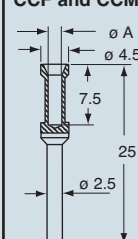


contacts side (front view)

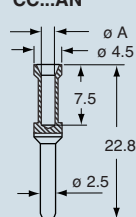


dimensions in mm

CCF and CCM



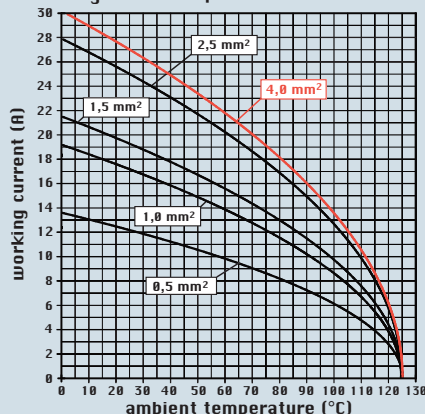
CC...AN



CCF, CCM and CC...AN contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(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

diagram CCE 06 poles



dimensions shown are not binding and may be changed without notice

- for contact crimping instructions, please see the crimping tool section (16A contacts, CCF, CCM and CC...AN series) on pages 466, 470, 480, 482, 484, 486

enclosures:

size "44.27"

page:

C-TYPE IP65/IP66 218 - 221

C7 IP67 stainless steel lever 254

V-TYPE IP65/IP66

stainless steel lever 260 - 262

T-TYPE IP65 insulating 282

JEI zinc-plated steel lever 288 - 289

BIG hoods 304 - 306

aggressive environments 329

EMC 348

central lever 360 - 361

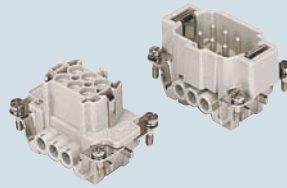
IP68 374 - 377

panel supports:

page:

COB 410 - 411

inserts,
screw terminal connections



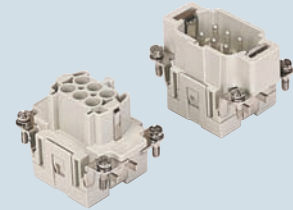
silver
plated
contacts

part No.

CNEF 06 T
CNEM 06 T

CNEF 06 TX
CNEM 06 TX

inserts,
spring terminal connections



silver
plated
contacts

part No.

CSEF 06
CSEM 06

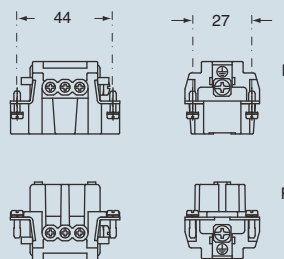
indirect, with plate 1)
female inserts with female contacts
male inserts with male contacts

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

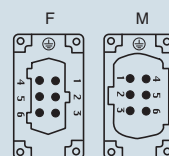
spring terminal
female inserts with female contacts
male inserts with male contacts

- characteristics according to EN 61984:
16A 500V 6kV 3
16A 400/690V 6kV 2
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$ (CNE) - $\leq 3 \text{ m}\Omega$ (CSE)
- for maximum current load, see the following load curves inserts, for more information see page 495 and 496

dimensions in mm



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 21 and 22

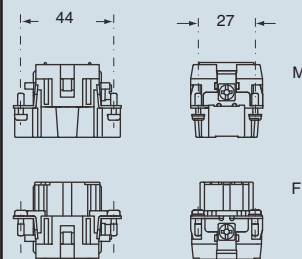
1) for non-prepared conductors



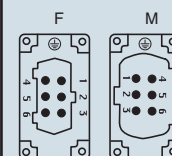
2) for bush terminal conductors



dimensions in mm

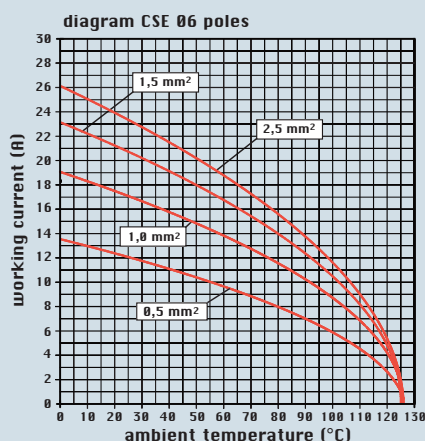
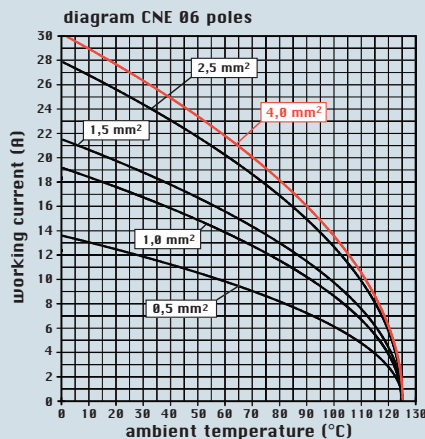
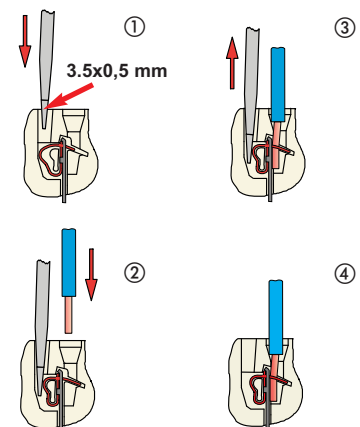


contacts side (front view)



- inserts for section conductors:
0.14 - 2.5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm

connection with spring terminal



dimensions shown are not binding and may be changed without notice

enclosures:

size "57.27"

page:

C-TYPE IP65/IP66 222 - 227

C7 IP67 stainless steel lever 255

V-TYPE IP65/IP66
stainless steel lever 264 - 267

T-TYPE IP65 insulating 283

JEI zinc-plated steel lever 290 - 291

BIG hoods 308 - 311

aggressive environments 330

EMC 349

central lever 362 - 363

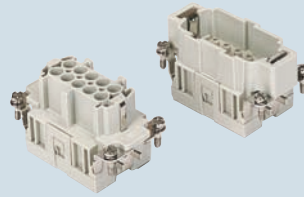
IP68 378 - 381

panel supports:

page:

COB 410 - 411

inserts, crimp connections



16A crimp contacts
normal and for advanced opening
silver and gold plated



description

part No.

part No.

part No.

without contacts (to be ordered separately)

female inserts for female contacts

male inserts for male contacts

CCEF 10
CCEM 10

16A female contacts

0.14-0.37 mm ²	AWG 26-22	three grooves
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	three grooves
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

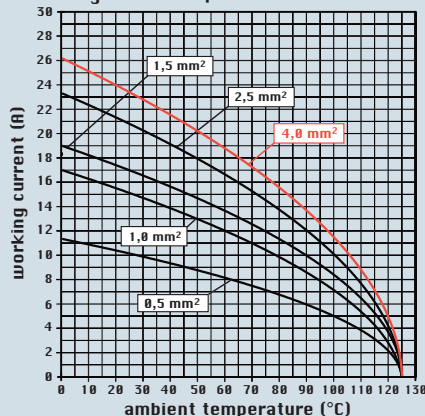
CC 0.5 AN
CC 0.7 AN
CC 1.0 AN
CC 1.5 AN
CC 2.5 AN

- characteristics according to EN 61984:

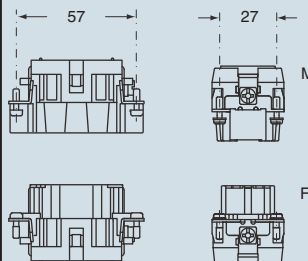
16A 500V 6kV 3
16A 400/690V 6kV 2

- UL, CSA, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 G Ω
- ambient temperature limit: -40 °C ... +125 °C
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 1 m Ω
- for maximum current load, see the following load curves inserts, for more information see page 495

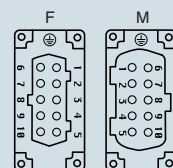
diagram CCE 10 poles



dimensions in mm

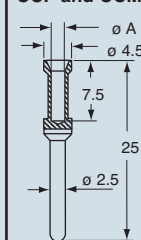


contacts side (front view)

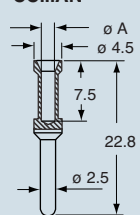


dimensions in mm

CCF and CCM



CC...AN



CCF, CCM and CC...AN contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(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

- for contact crimping instructions, please see the crimping tool section (16A contacts, CCF, CCM and CC...AN series) on pages 466, 470, 480, 482, 484, 486

dimensions shown are not binding and may be changed without notice

enclosures:

size "57.27"

page:

C-TYPE IP65/IP66 222 - 227

C7 IP67 stainless steel lever 255

V-TYPE IP65/IP66
stainless steel lever 264 - 267

T-TYPE IP65 insulating 283

JEI zinc-plated steel lever 290 - 291

BIG hoods 308 - 311

aggressive environments 330

EMC 349

central lever 362 - 363

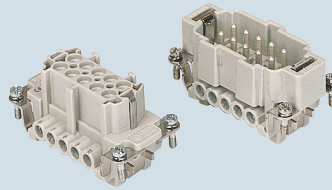
IP68 378 - 381

panel supports:

page:

COB 410 - 411

inserts,
screw terminal connections



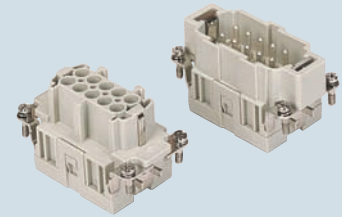
silver
plated
contacts

part No.

CNEF 10 T
CNEM 10 T

CNEF 10 TX
CNEM 10 TX

inserts,
spring terminal connections



silver
plated
contacts

part No.

CSEF 10
CSEM 10

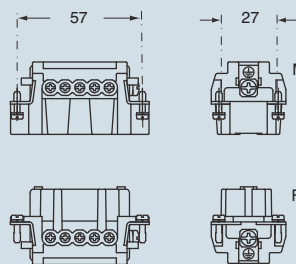
indirect, with plate 1)
female inserts with female contacts
male inserts with male contacts

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

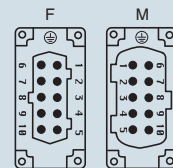
spring terminal
female inserts with female contacts
male inserts with male contacts

- characteristics according to EN 61984:
16A 500V 6kV 3
16A 400/690V 6kV 2
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$ (CNE) - $\leq 3 \text{ m}\Omega$ (CSE)
- for maximum current load, see the following load curves inserts, for more information see page 495 and 496

dimensions in mm

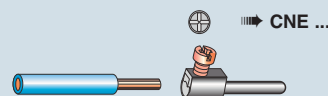


contacts side (front view)



- 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 21 and 22

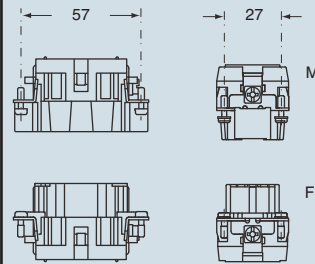
1) for non-prepared conductors



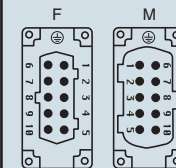
2) for bush terminal conductors



dimensions in mm

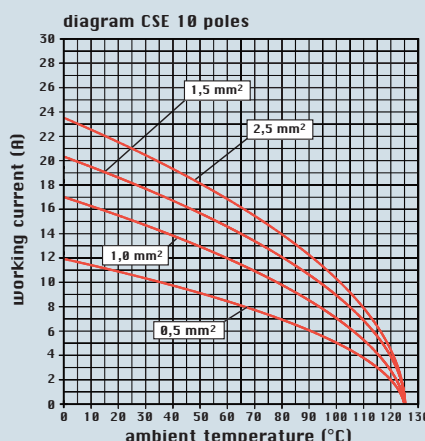
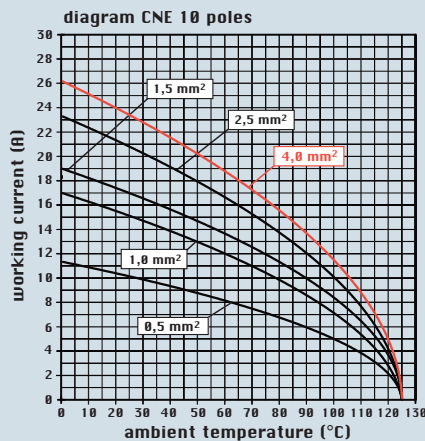
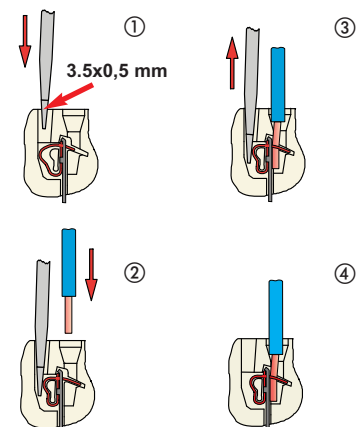


contacts side (front view)



- inserts for section conductors:
0.14 - 2.5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm

connection with spring terminal



dimensions shown are not binding and may be changed without notice

enclosures:

size "77.27"

page:

C-TYPE IP65/IP66 228 - 234

C7 IP67 stainless steel lever 256

V-TYPE IP65/IP66
stainless steel lever 268 - 271

T-TYPE IP65 insulating 284

JEI zinc-plated steel lever 292 - 293

BIG hoods 312 - 315

aggressive environments 331

EMC 350

central lever 364 - 365

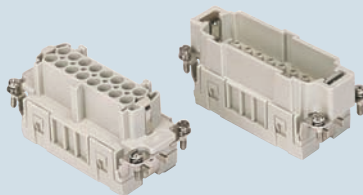
IP68 382 - 385

panel supports:

page:

COB 410 - 411

inserts, crimp connections



16A crimp contacts
normal and for advanced opening
silver and gold plated



description

part No.

part No.

part No.

without contacts (to be ordered separately)

female inserts for female contacts

male inserts for male contacts

CCEF 16
CCEM 16

16A female contacts

0.14-0.37 mm ²	AWG 26-22	three grooves
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	three grooves
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

- characteristics according to EN 61984:

16A 500V 6kV 3

16A 400/690V 6kV 2

- UL, CSA, GL, GOST certified

- rated voltage according to UL/CSA: 600V

- insulation resistance: ≥ 10 G Ω

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

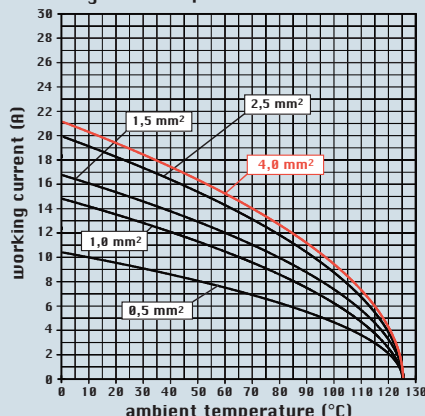
- are made of self-extinguishing thermoplastic resin
UL 94 V0

- mechanical life: ≥ 500 cycles

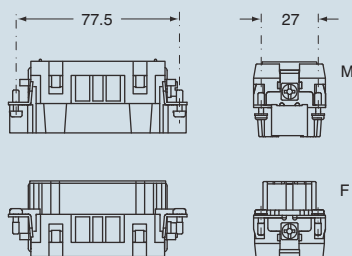
- contact resistance: ≤ 1 m Ω

- for maximum current load, see the following
load curves inserts, for more information see
page 495

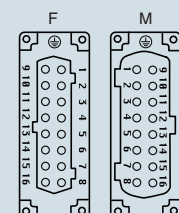
diagram CCE 16 poles



dimensions in mm

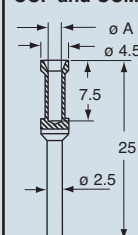


contacts side (front view)

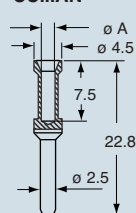


dimensions in mm

CCF and CCM



CC...AN



CCF, CCM and CC...AN contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(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

- for contact crimping instructions, please see the
crimping tool section (16A contacts, CCF, CCM and
CC...AN series) on pages 466, 470, 480, 482, 484, 486

dimensions shown are not binding and may be changed without notice

enclosures:

size "77.27"

page:

C-TYPE IP65/IP66 228 - 234

C7 IP67 stainless steel lever 256

V-TYPE IP65/IP66
stainless steel lever 268 - 271

T-TYPE IP65 insulating 284

JEI zinc-plated steel lever 292 - 293

BIG hoods 312 - 315

aggressive environments 331

EMC 350

central lever 364 - 365

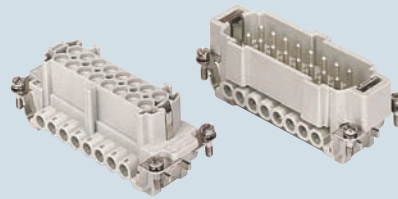
IP68 382 - 385

panel supports:

page:

COB 410 - 411

inserts,
screw terminal connections



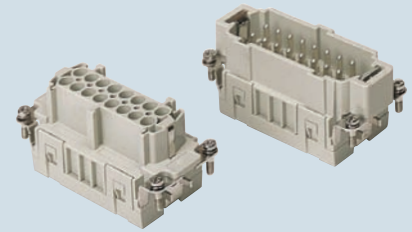
silver
plated
contacts

part No.

CNEF 16 T
CNEM 16 T

CNEF 16 TX
CNEM 16 TX

inserts,
spring terminal connections



silver
plated
contacts

part No.

CSF 16
CSM 16

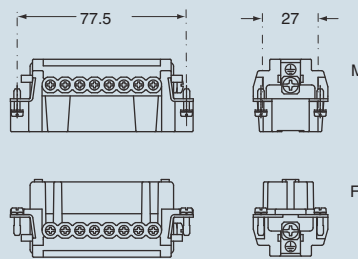
indirect, with plate 1)
female inserts with female contacts
male inserts with male contacts

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

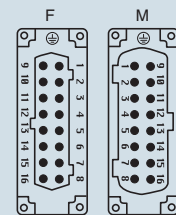
spring terminal
female inserts with female contacts
male inserts with male contacts

- characteristics according to EN 61984:
16A 500V 6kV 3
16A 400/690V 6kV 2
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$ (CNE) - $\leq 3 \text{ m}\Omega$ (CSE)
- for maximum current load, see the following load curves inserts, for more information see page 495 and 496

dimensions in mm



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 21 and 22

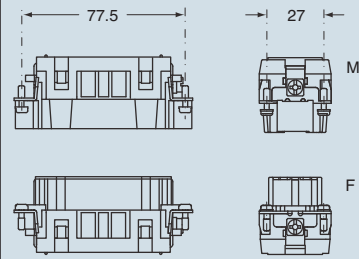
1) for non-prepared conductors



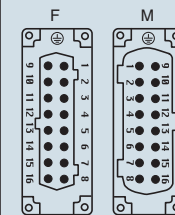
2) for bush terminal conductors



dimensions in mm

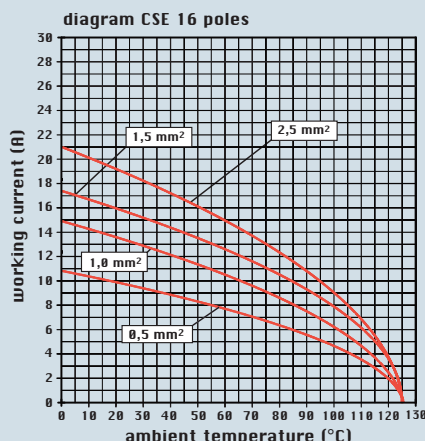
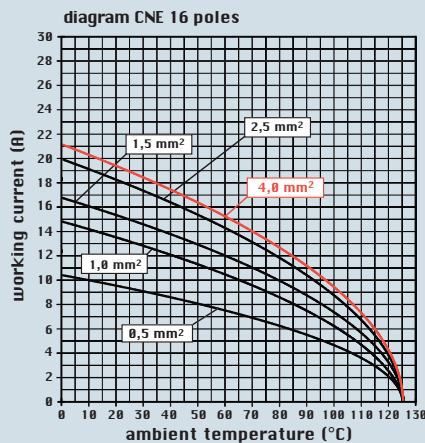
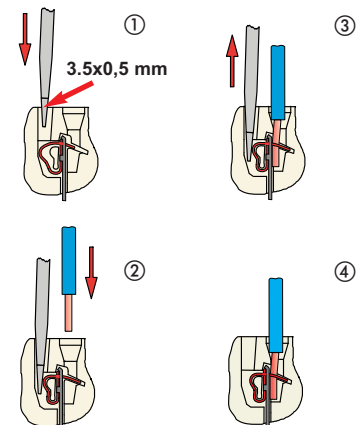


contacts side (front view)



- inserts for section conductors:
0.14 - 2.5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm

connection with spring terminal



dimensions shown are not binding and may be changed without notice

enclosures:

size "104.27"

page:

C-TYPE IP65/IP66 236 - 243

C7 IP67 stainless steel lever 257

V-TYPE IP65/IP66

stainless steel lever 272 - 275

T-TYPE IP65 insulating 285

JEI zinc-plated steel lever 294 - 295

BIG hoods 316 - 319

aggressive environments 332

EMC 351

central lever 366 - 368

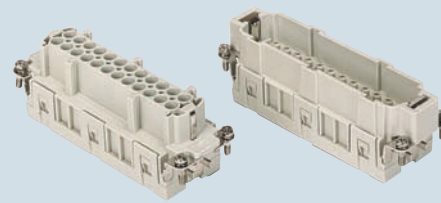
IP68 386 - 389

panel supports:

page:

COB 410 - 411

inserts, crimp connections



16A crimp contacts
normal and for advanced opening
silver and gold plated



description

part No.

part No.

part No.

without contacts (to be ordered separately)

female inserts for female contacts

male inserts for male contacts

CCEF 24
CCEM 24

16A female contacts

0.14-0.37 mm ²	AWG 26-22	three grooves
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	three grooves
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

- characteristics according to EN 61984:

16A 500V 6kV 3

16A 400/690V 6kV 2

- UL, CSA, GL, GOST certified

- rated voltage according to UL/CSA: 600V

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

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

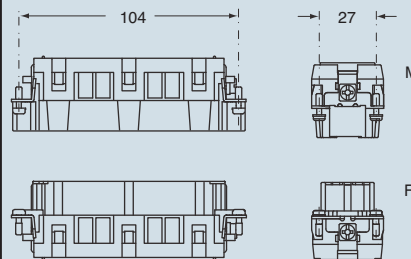
- are made of self-extinguishing thermoplastic resin
UL 94 V0

- mechanical life: ≥ 500 cycles

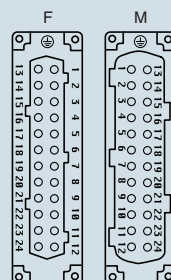
- contact resistance: $\leq 1 \text{ m}\Omega$

- for maximum current load, see the following
load curves inserts, for more information see
page 495

dimensions in mm



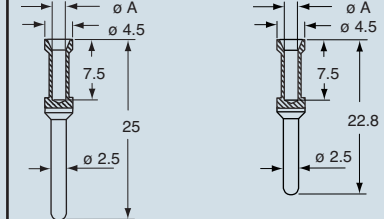
contacts side (front view)



dimensions in mm

CCF and CCM

CC...AN

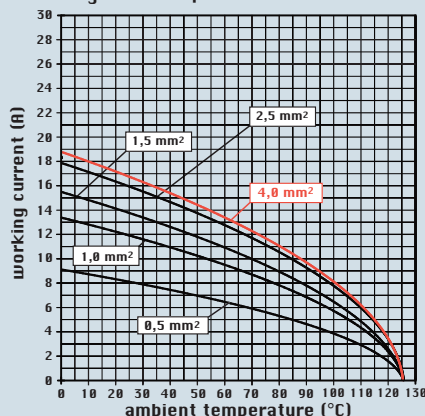


CCF, CCM and CC...AN contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(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

- for contact crimping instructions, please see the
crimping tool section (16A contacts, CCF, CCM and
CC...AN series) on pages 466, 470, 480, 482, 484, 486

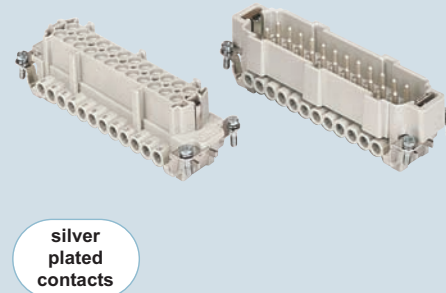
diagram CCE 24 poles



dimensions shown are not binding and may be changed without notice

enclosures: size "104.27"	page:
C-TYPE IP65/IP66	236 - 243
C7 IP67 stainless steel lever	257
V-TYPE IP65/IP66 stainless steel lever	272 - 275
T-TYPE IP65 insulating	285
JEI zinc-plated steel lever	294 - 295
BIG hoods	316 - 319
aggressive environments	332
EMC	351
central lever	366 - 368
IP68	386 - 389
panel supports:	page:
COB	410 - 411

inserts, screw terminal connections



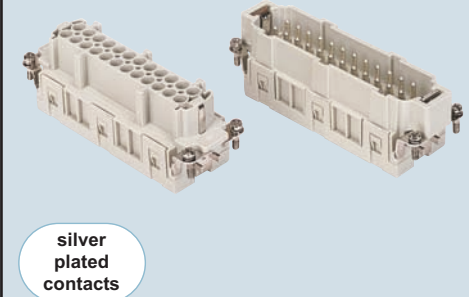
silver
plated
contacts

part No.

CNEF 24 T
CNEM 24 T

CNEF 24 TX
CNEM 24 TX

inserts, spring terminal connections



silver
plated
contacts

part No.

CSEF 24
CSEM 24

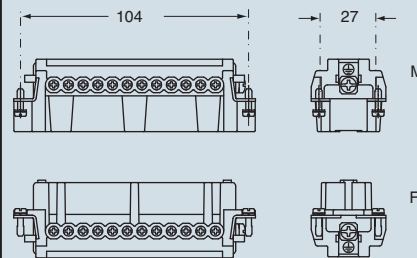
indirect, with plate 1)
female inserts with female contacts
male inserts with male contacts

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

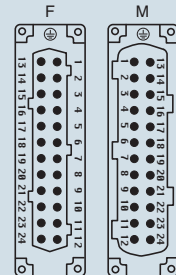
spring terminal
female inserts with female contacts
male inserts with male contacts

- characteristics according to EN 61984:
16A 500V 6kV 3
16A 400/690V 6kV 2
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$ (CNE) - $\leq 3 \text{ m}\Omega$ (CSE)
- for maximum current load, see the following load curves inserts, for more information see page 495 and 496

dimensions in mm



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 21 and 22

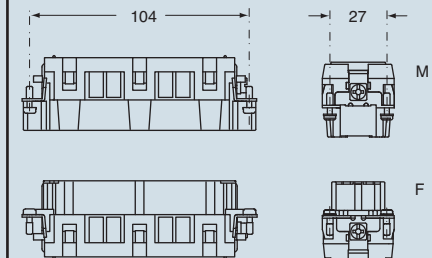
1) for non-prepared conductors



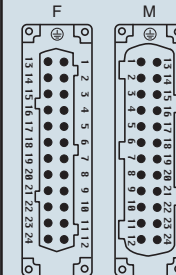
2) for bush terminal conductors



dimensions in mm

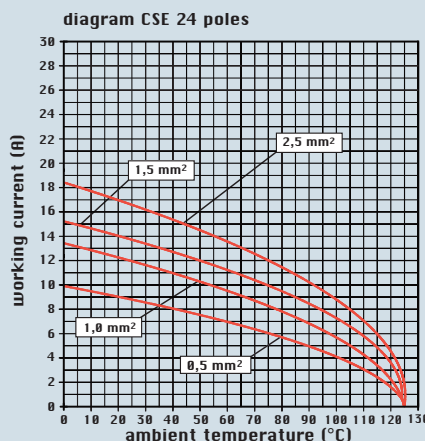
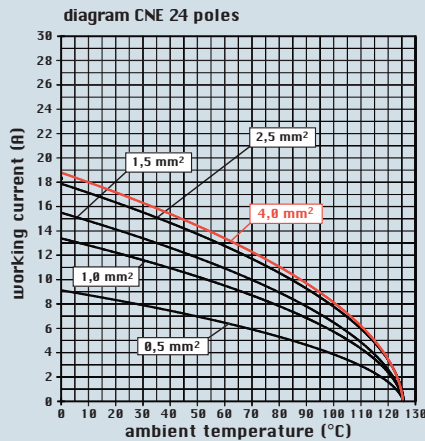
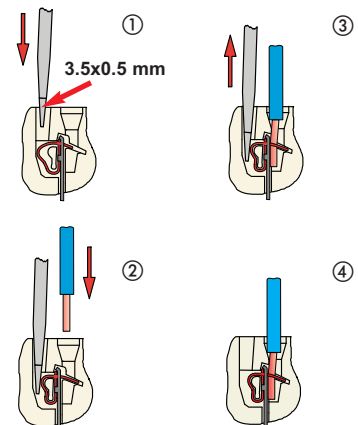


contacts side (front view)



- inserts for section conductors:
0.14 - 2.5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm

connection with spring terminal



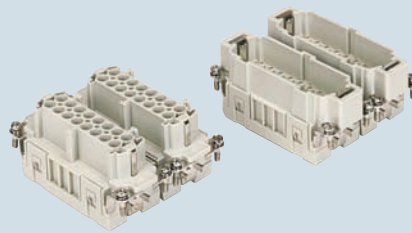
dimensions shown are not binding and may be changed without notice

enclosures:
size "77.62"

page:

C-TYPE IP65/IP66 244 - 247
aggressive environments 333

inserts, crimp connections



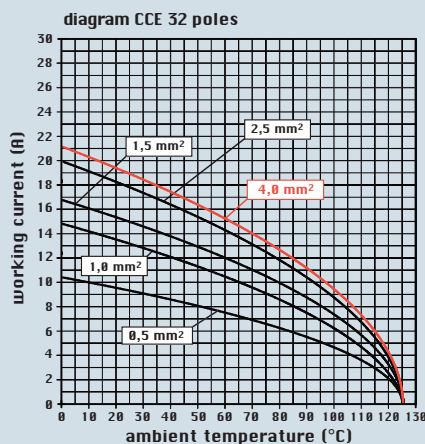
**16A crimp contacts
normal and for advanced opening
silver and gold plated**



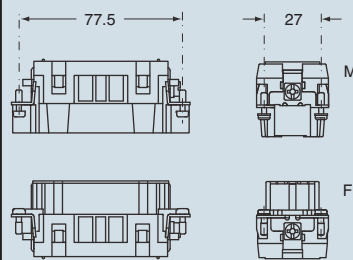
- for contact crimping instructions, please see the crimping tool section (16A contacts, CCF, CCM and CC...AN series) on pages 466, 470, 480, 482, 484, 486

description	part No.	part No.	part No.	part No.
without contacts (to be ordered separately) female inserts, No. (1-16) and (17-32) male inserts, No. (1-16) and (17-32)	CCEF 16 CCEM 16	CCEF 16 N CCEM 16 N		
16A female contacts 0.14-0.37 mm ² AWG 26-22 three grooves 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 three grooves 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			silver plated CCFA 0.3 CCFA 0.5 CCFA 0.7 CCFA 1.0 CCFA 1.5 CCFA 2.5 CCFA 3.0 CCFA 4.0 CCMA 0.3 CCMA 0.5 CCMA 0.7 CCMA 1.0 CCMA 1.5 CCMA 2.5 CCMA 3.0 CCMA 4.0	gold 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 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	

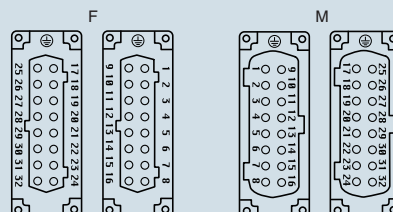
- characteristics according to EN 61984:
16A 500V 6kV 3
16A 400/690V 6kV 2
- UL, CSA, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: -40 °C ... +125 °C
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 495



dimensions in mm

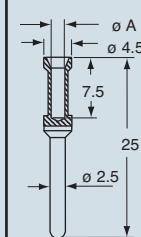


contacts side (front view)

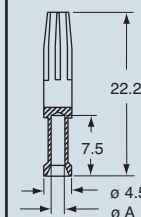
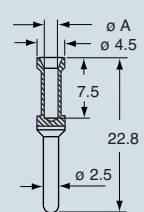


dimensions in mm

CCF and CCM



CC...AN



CCF, CCM and CC...AN contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(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

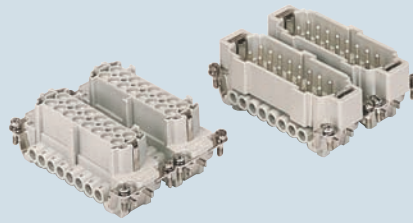
dimensions shown are not binding and may be changed without notice

enclosures:
size "77.62"

page:

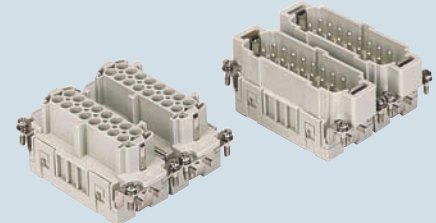
C-TYPE IP65/IP66 244 - 247
aggressive environments 333

inserts,
screw terminal connections



silver
plated
contacts

inserts,
spring terminal connections



silver
plated
contacts

description	part No.	part No.	part No.	part No.
indirect, with plate 1) female inserts, No. (1-16) and (17-32) male inserts, No. (1-16) and (17-32)	CNEF 16 T CNEM 16 T	CNEF 16 TN CNEM 16 TN		
direct, without plate 2) female inserts, No. (1-16) and (17-32) male inserts, No. (1-16) and (17-32)	CNEF 16 TX CNEM 16 TX	CNEF 16 TXN CNEM 16 TXN		
spring terminal female inserts, No. (1-16) and (17-32) male inserts, No. (1-16) and (17-32)			CSEF 16 CSEM 16	CSEF 16 N CSEM 16 N

- characteristics according to EN 61984:
16A 500V 6kV 3
16A 400/690V 6kV 2
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$ (CNE) - $\leq 3 \text{ m}\Omega$ (CSE)
- for maximum current load, see the following load curves inserts, for more information see page 495 and 496

diagram CNE 32 poles

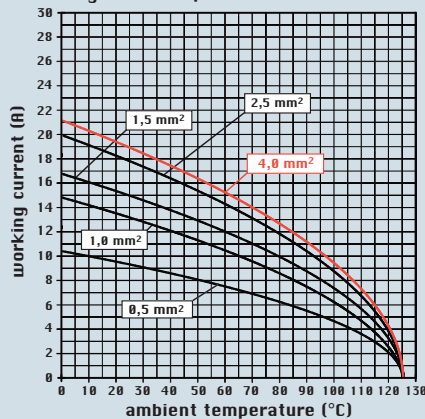
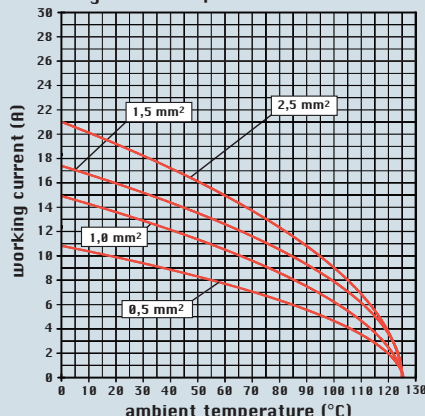
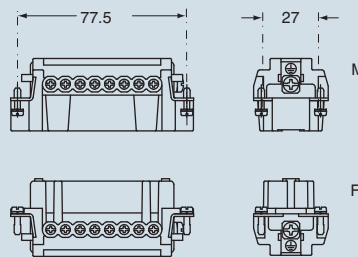


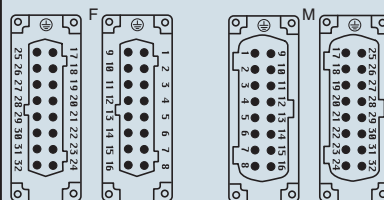
diagram CSE 32 poles



dimensions in mm



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 21 and 22

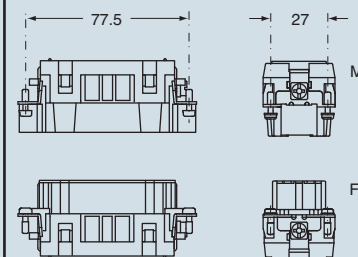
1) for non-prepared conductors



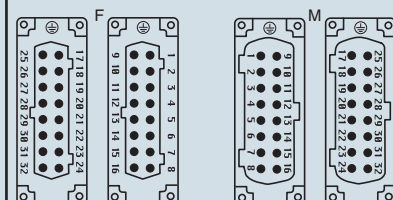
2) for bush terminal conductors



dimensions in mm

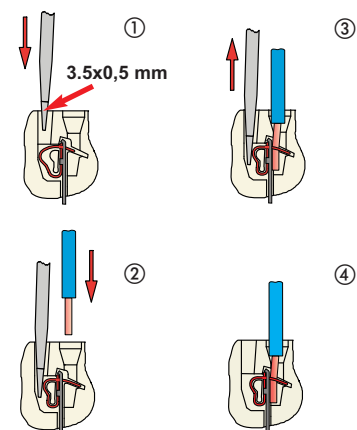


contacts side (front view)



- inserts for section conductors:
0.14 - 2.5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm

connection with spring terminal

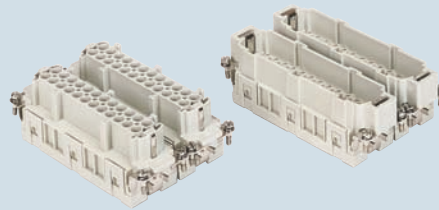


enclosures:
size "104.62"

page:

C-TYPE IP65/IP66 248
aggressive environments 334

inserts, crimp connections



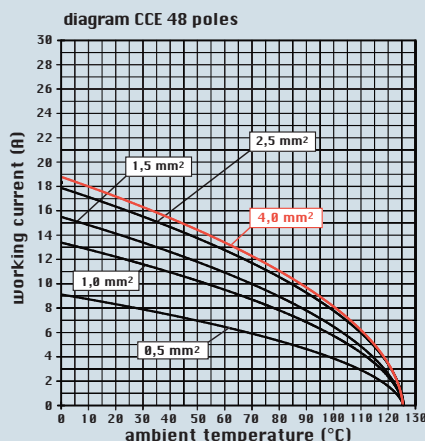
16A crimp contacts
normal and for advanced opening
silver and gold plated



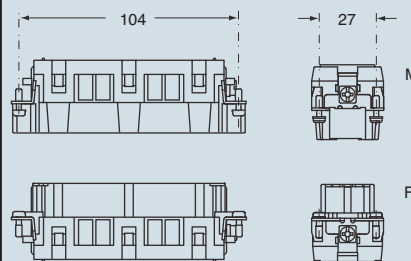
- for contact crimping instructions, please see the crimping tool section (16A contacts, CCF, CCM and CC...AN series) on pages 466, 470, 480, 482, 484, 486

description	part No.	part No.	part No.	part No.
without contacts (to be ordered separately) female inserts, No. (1-24) and (25-48) male inserts, No. (1-24) and (25-48)	CCEF 24 CCEM 24	CCEF 24 N CCEM 24 N		
16A female contacts 0.14-0.37 mm ² AWG 26-22 three grooves 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 three grooves 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 CCMA 0.3 CCMA 0.5 CCMA 0.7 CCMA 1.0 CCMA 1.5 CCMA 2.5 CCMA 3.0 CCMA 4.0 CC 0.5 AN CC 0.7 AN CC 1.0 AN CC 1.5 AN CC 2.5 AN	CCFD 0.3 CCFD 0.5 CCFD 0.7 CCFD 1.0 CCFD 1.5 CCFD 2.5 CCFD 3.0 CCFD 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

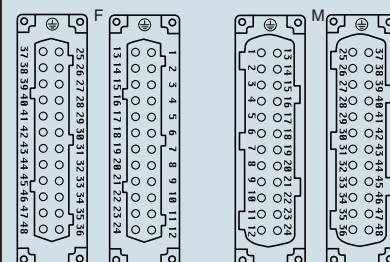
- characteristics according to EN 61984:
16A 500V 6kV 3
16A 400/690V 6kV 2
- UL, CSA, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: -40 °C ... +125 °C
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 495



dimensions in mm

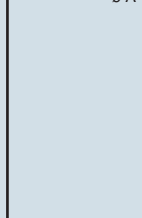
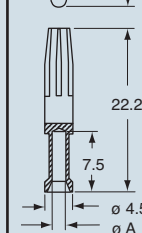
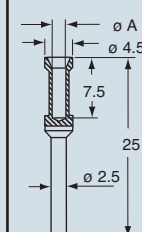


contacts side (front view)

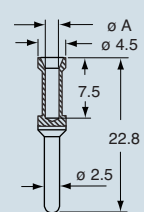


dimensions in mm

CCF and CCM



CC...AN



CCF, CCM and CC...AN contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(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

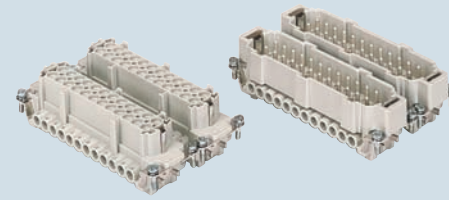
dimensions shown are not binding and may be changed without notice

enclosures:
size "104.62"

page:

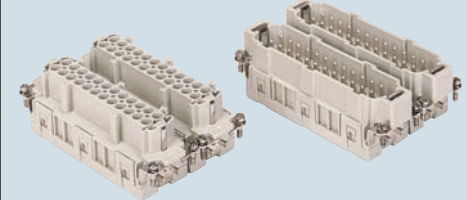
C-TYPE IP65/IP66 248
aggressive environments 334

inserts,
screw terminal connections



silver
plated
contacts

inserts,
spring terminal connections



silver
plated
contacts

description

part No.

part No.

part No.

part No.

indirect, with plate 1)
female inserts, No. (1-24) and (25-48)
male inserts, No. (1-24) and (25-48)

CNEF 24 T
CNEM 24 T

CNEF 24 TN
CNEM 24 TN

direct, without plate 2)
female inserts, No. (1-24) and (25-48)
male inserts, No. (1-24) and (25-48)

CNEF 24 TX
CNEM 24 TX

CNEF 24 TXN
CNEM 24 TXN

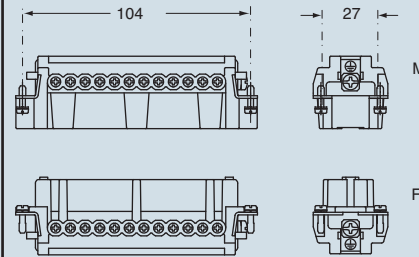
spring terminal
female inserts, No. (1-24) and (25-48)
male inserts, No. (1-24) and (25-48)

CSEF 24
CSEM 24

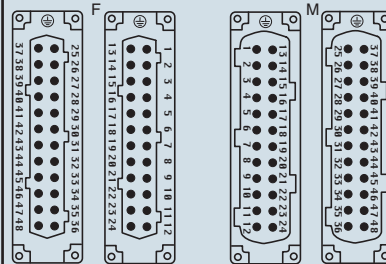
CSEF 24 N
CSEM 24 N

- characteristics according to EN 61984:
16A 500V 6kV 3
16A 400/690V 6kV 2
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin
UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$ (CNE) - $\leq 3 \text{ m}\Omega$ (CSE)
- for maximum current load, see the following load curves
inserts, for more information see page 495 and 496

dimensions in mm

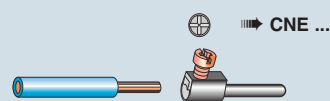


contacts side (front view)



- 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 21 and 22

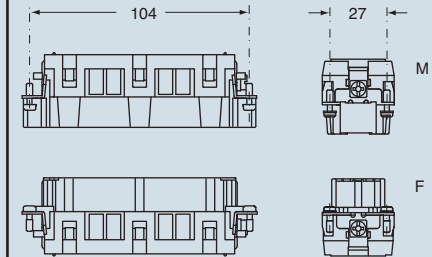
1) for non-prepared conductors



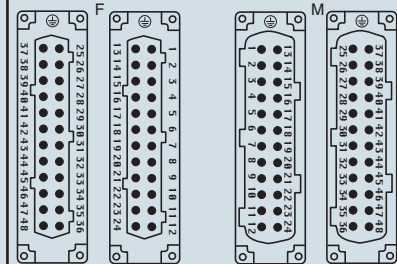
2) for bush terminal conductors



dimensions in mm

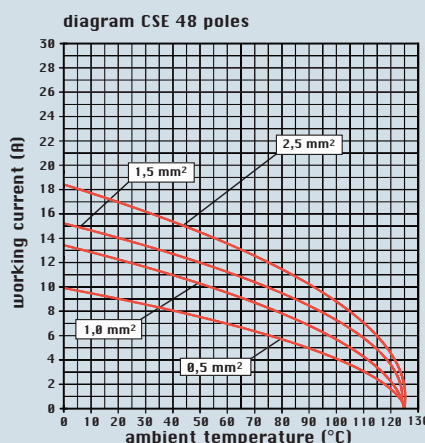
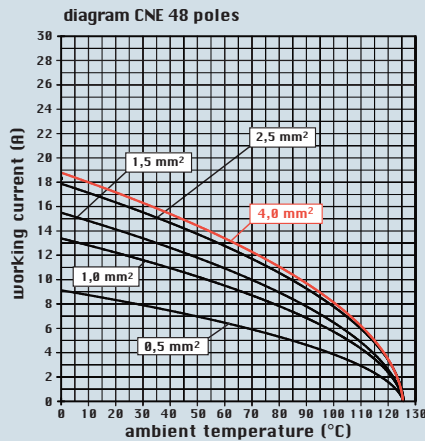
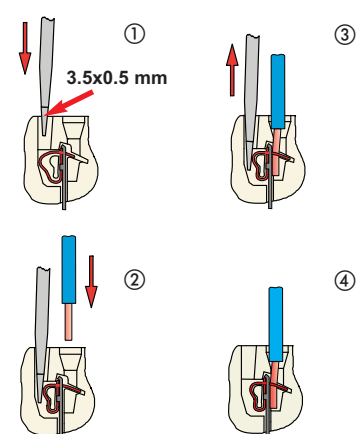


contacts side (front view)



- inserts for section conductors:
0.14 - 2.5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm

connection with spring terminal



dimensions shown are not binding and may be changed without notice

enclosures:

size "44.27"

page:

C-TYPE IP65/IP66 218 - 221

C7 IP67 stainless steel lever 254

V-TYPE IP65/IP66

stainless steel lever 260 - 262

T-TYPE IP65 insulating 282

JEI zinc-plated steel lever 288 - 289

BIG hoods 304 - 306

aggressive environments 329

EMC 348

central lever 360 - 361

IP68 374 - 377

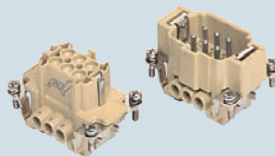
panel supports:

page:

COB 410 - 411

description

inserts,
screw terminal connections



tin plated
contacts

part No.

JCNEF 06
JCNEM 06

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

spring terminal

female inserts with female contacts
male inserts with male contacts

- characteristics according to EN 61984:

16A 500V 6kV 3

16A 400/690V 6kV 2

- UL, CSA, CCC, GL, GOST certified

- rated voltage according to UL/CSA: 600V

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

- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$

- are made of self-extinguishing thermoplastic resin
UL 94 V0

- mechanical life: ≥ 500 cycles

- contact resistance: $\leq 1 \text{ m}\Omega$ (JCNE) - $\leq 3 \text{ m}\Omega$ (JCSE)

- for maximum current load, see the following load
curves inserts, for more information see page 495 and
496

diagram JCNE 06 poles

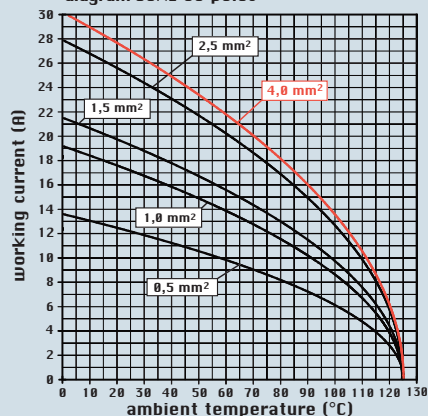
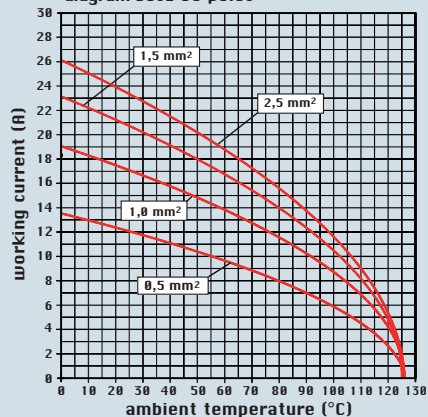
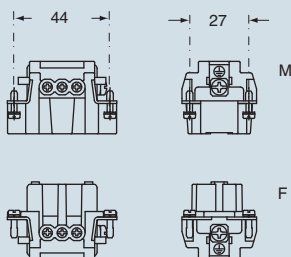


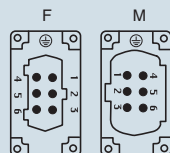
diagram JCSE 06 poles



dimensions in mm

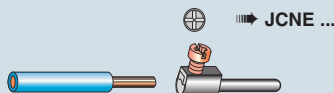


contacts side (front view)



- inserts with plate for section conductors:
0.5 - 4 mm² - AWG 20 - 12
- conductors stripping length: 7 mm
- terminal screw torque: 0.5 Nm (4.4 lb.in), for more
information see page 21 and 22

1) for non-prepared conductors



inserts,
spring terminal connections

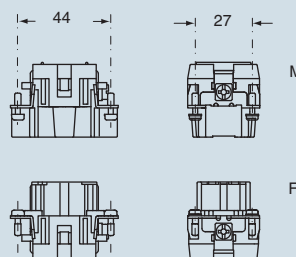


tin plated
contacts

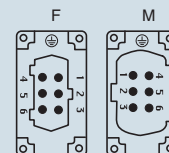
part No.

JCSEF 06
JCSEM 06

dimensions in mm

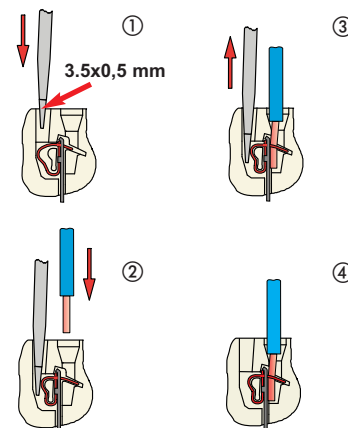


contacts side (front view)



- inserts for section conductors:
0, 14 - 2,5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm

connection with spring terminal



enclosures:

size "57.27"

page:

C-TYPE IP65/IP66 222 - 227

C7 IP67 stainless steel lever 255

V-TYPE IP65/IP66

stainless steel lever 264 - 267

T-TYPE IP65 insulating 283

JEI zinc-plated steel lever 290 - 291

BIG hoods 308 - 311

aggressive environments 330

EMC 349

central lever 362 - 363

IP68 378 - 381

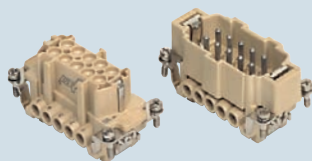
panel supports:

page:

COB 410 - 411

description

inserts,
screw terminal connections



tin plated
contacts

part No.

JCNEF 10
JCNEM 10

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

spring terminal

female inserts with female contacts
male inserts with male contacts

- characteristics according to EN 61984:

16A 500V 6kV 3

16A 400/690V 6kV 2

- UL, CSA, CCC, GL, GOST certified

- rated voltage according to UL/CSA: 600V

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

- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$

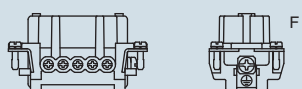
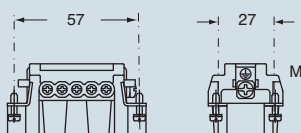
- are made of self-extinguishing thermoplastic resin
UL 94 V0

- mechanical life: ≥ 500 cycles

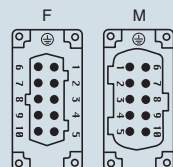
- contact resistance: $\leq 1 \text{ m}\Omega$ (JCNE) - $\leq 3 \text{ m}\Omega$ (JCSE)

- for maximum current load, see the following load
curves inserts, for more information see page 495 and
496

dimensions in mm



contacts side (front view)



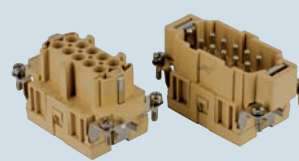
- inserts with plate for section conductors:

0.5 - 4 mm² - AWG 20 - 12

- conductors stripping length: 7 mm

- terminal screw torque: 0.5 Nm (4.4 lb.in), for more
information see page 21 and 22

inserts,
spring terminal connections

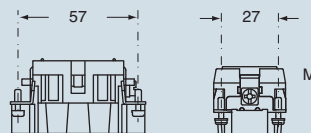


tin plated
contacts

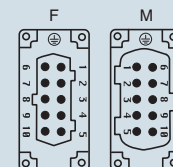
part No.

JCSEF 10
JCSEM 10

dimensions in mm



contacts side (front view)



- inserts for section conductors:

0, 14 - 2,5 mm² - AWG 26 - 14

- conductors stripping length: 9...11 mm

diagram JCNE 10 poles

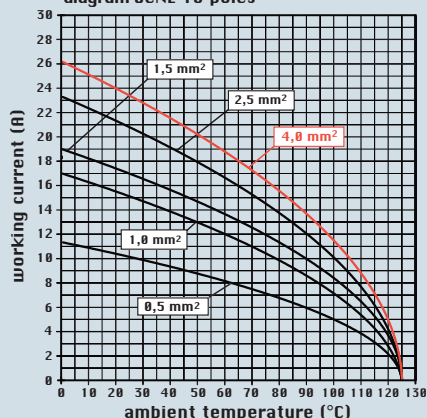
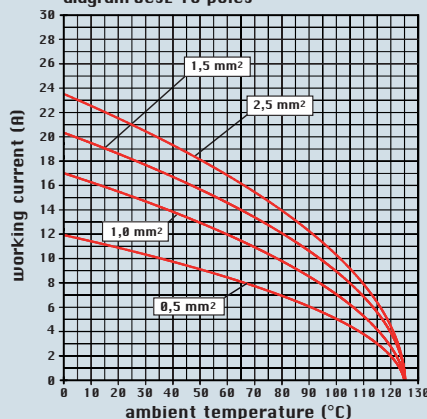


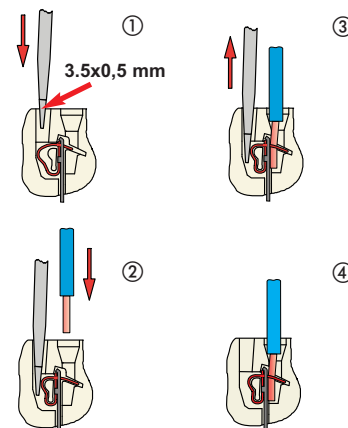
diagram JCSE 10 poles



1) for non-prepared conductors



connection with spring terminal



enclosures:

size "77.27"

page:

C-TYPE IP65/IP66 228 - 234

C7 IP67 stainless steel lever 256

V-TYPE IP65/IP66

stainless steel lever 268 - 271

T-TYPE IP65 insulating 284

JEI zinc-plated steel lever 292 - 293

BIG hoods 312 - 315

aggressive environments 331

EMC 350

central lever 364 - 365

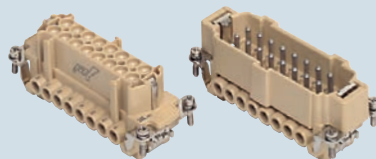
IP68 382 - 385

panel supports: page:

COB 410 - 411

description

inserts,
screw terminal connections



tin plated
contacts

part No.

JCNEF 16
JCNEM 16

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

spring terminal

female inserts with tinned female contacts

male inserts with tinned male contacts

- characteristics according to EN 61984:

16A 500V 6kV 3

16A 400/690V 6kV 2

- UL, CSA, CCC, GL, GOST certified

- rated voltage according to UL/CSA: 600V

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

- ambient temperature limit: $-40 \text{ }^{\circ}\text{C} \dots +125 \text{ }^{\circ}\text{C}$

- are made of self-extinguishing thermoplastic resin
UL 94 V0

- mechanical life: ≥ 500 cycles

- contact resistance: $\leq 1 \text{ m}\Omega$ (JCNE) - $\leq 3 \text{ m}\Omega$ (JCSE)

- for maximum current load, see the following load
curves inserts, for more information see page 495 and
496

diagram JCNE 16 poles

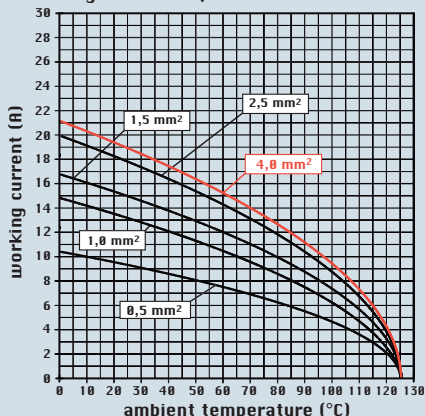
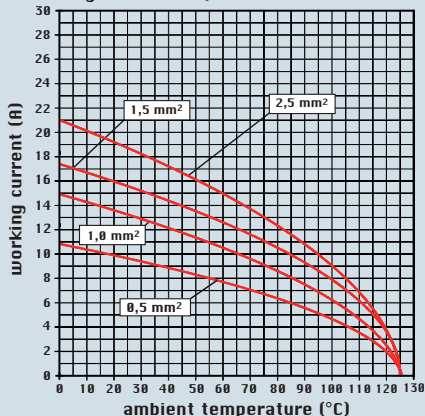
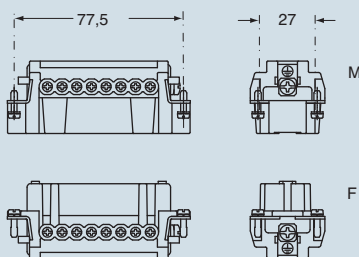


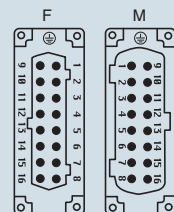
diagram JCSE 16 poles



dimensions in mm



contacts side (front view)



- inserts with plate for section conductors:

0.5 - 4 mm² - AWG 20 - 12

- conductors stripping length: 7 mm

- terminal screw torque: 0.5 Nm (4.4 lb.in), for more
information see page 21 and 22

1) for non-prepared conductors

$\oplus$ $\rightarrow$ JCNE ...



inserts,
spring terminal connections

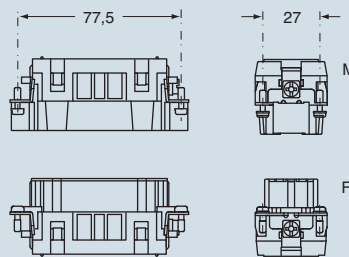


tin plated
contacts

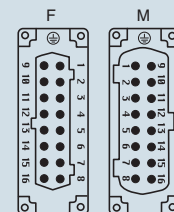
part No.

JCSEF 16
JCSEM 16

dimensions in mm



contacts side (front view)

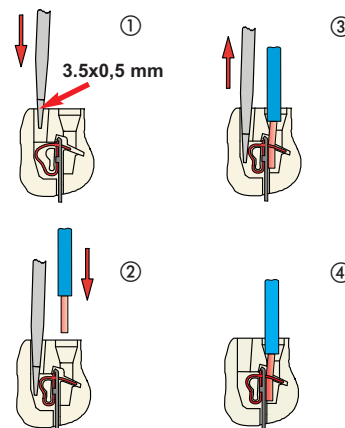


- inserts for section conductors:

0.14 - 2.5 mm² - AWG 26 - 14

- conductors stripping length: 9...11 mm

connection with spring terminal



enclosures:

size "104.27" page:

C-TYPE IP65/IP66 236 - 243

C7 IP67 stainless steel lever 257

V-TYPE IP65/IP66

stainless steel lever 272 - 275

T-TYPE IP65 insulating 285

JEI zinc-plated steel lever 294 - 295

BIG hoods 316 - 319

aggressive environments 332

EMC 351

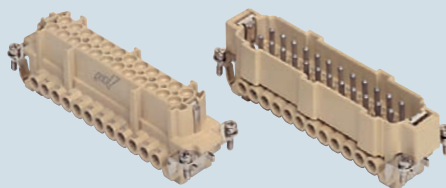
central lever 366 - 368

IP68 386 - 389

panel supports: page:

COB 410 - 411

inserts,
screw terminal connections

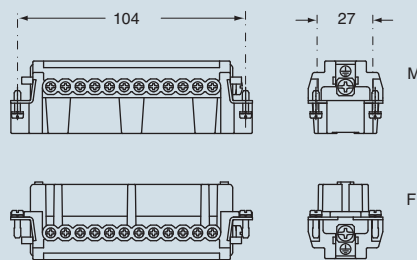


tin plated
contacts

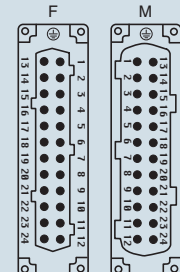
part No.

JCNEF 24
JCNEM 24

dimensions in mm



contacts side (front view)



- inserts with plate for section conductors:
0.5 - 4 mm² - AWG 20 - 12
- conductors stripping length: 7 mm
- terminal screw torque: 0.5 Nm (4.4 lb.in), for more information see page 21 and 22

1) for non-prepared conductors



inserts,
spring terminal connections

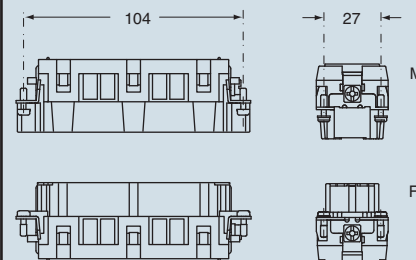


tin plated
contacts

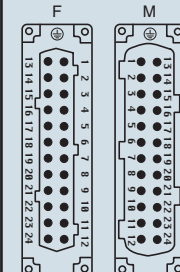
part No.

JCSEF 24
JCSEM 24

dimensions in mm

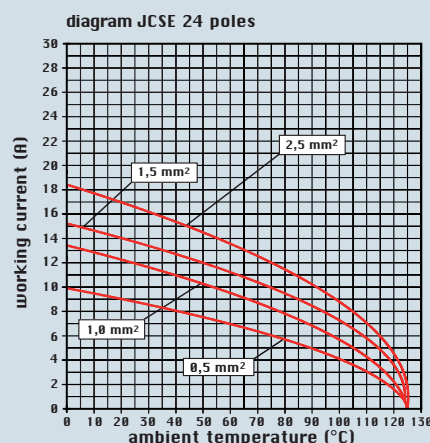
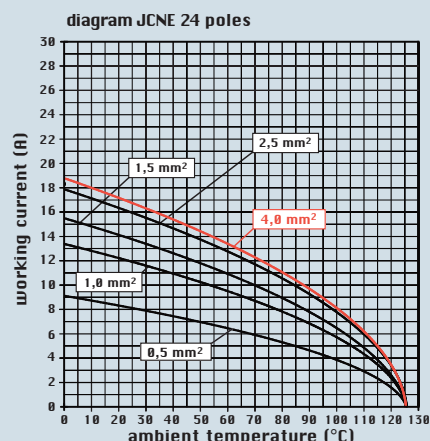
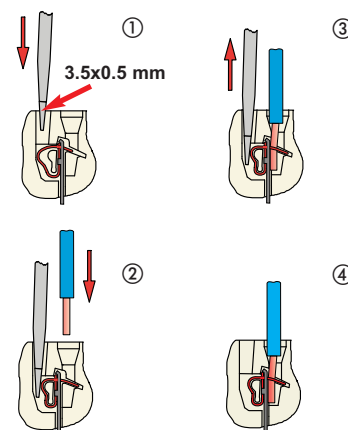


contacts side (front view)



- inserts for section conductors:
0, 14 - 2,5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm

connection with spring terminal

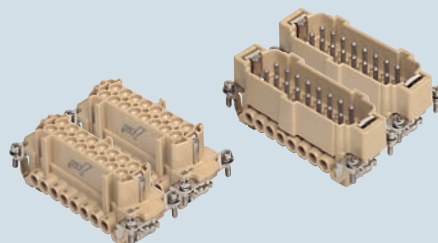


enclosures:
size "77.62"

page:

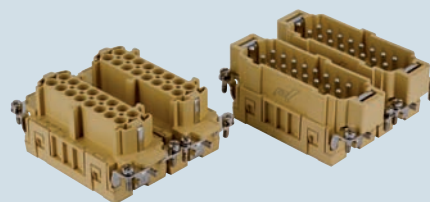
C-TYPE IP65/IP66..... 244 - 247
aggressive environments..... 333

inserts,
screw terminal connections



tin plated
contacts

inserts,
spring terminal connections



tin plated
contacts

description

part No.

part No.

part No.

part No.

indirect, with plate 1)
female inserts, No. (1-16) and (17-32)
male inserts, No. (1-16) and (17-32)

JCNEF 16
JCNEM 16

JCNEF 16 N
JCNEM 16 N

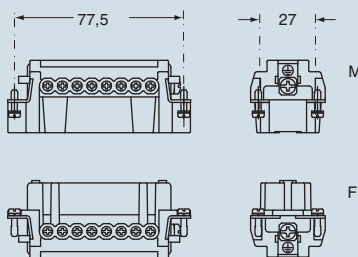
spring terminal
female inserts, No. (1-16) and (17-32)
male inserts, No. (1-16) and (17-32)

JCSEF 16
JCSEM 16

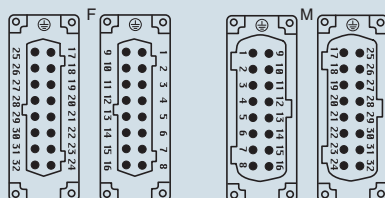
JCSEF 16 N
JCSEM 16 N

- characteristics according to EN 61984:
- 16A 500V 6kV 3**
- 16A 400/690V 6kV 2**
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$ (JCNE) - $\leq 3 \text{ m}\Omega$ (JCSE)
- for maximum current load, see the following load curves inserts, for more information see page 495 and 496

dimensions in mm

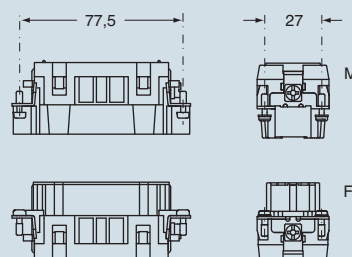


contacts side (front view)

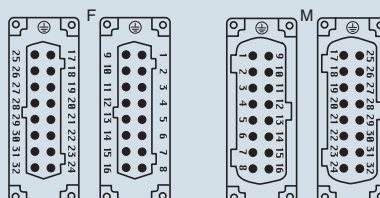


- inserts with plate for section conductors:
0.5 - 4 mm² - AWG 20 - 12
- conductors stripping length: 7 mm
- terminal screw torque: 0.5 Nm (4.4 lb.in), for more information see page 21 and 22

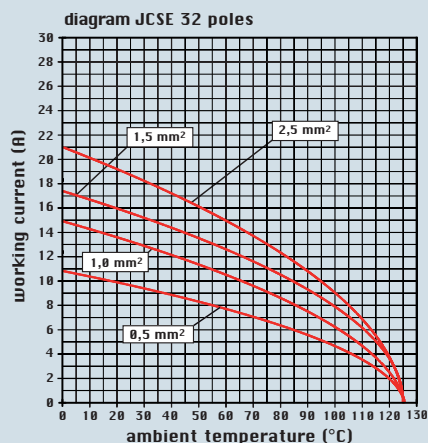
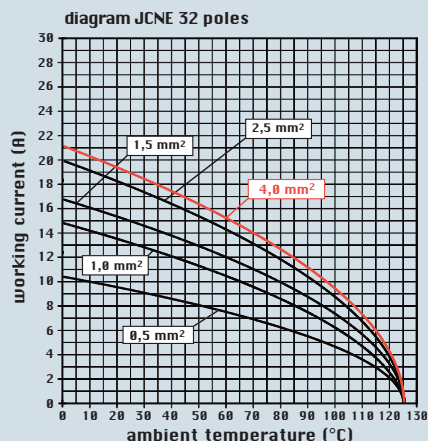
dimensions in mm



contacts side (front view)



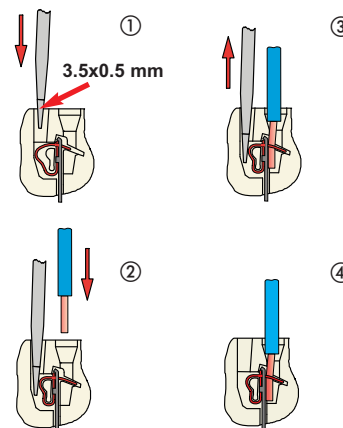
- inserts for section conductors:
0,14 - 2,5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm



1) for non-prepared conductors



connection with spring terminal



enclosures:

size "104.62"

page:

C-TYPE IP65/IP66 248

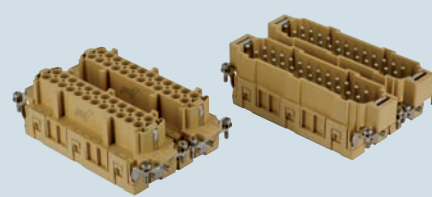
aggressive environments 334

inserts,
screw terminal connections



tin plated
contacts

inserts,
spring terminal connections



tin plated
contacts

description

part No.

part No.

part No.

part No.

indirect, with plate 1)
female inserts, No. (1-24) and (25-48)
male inserts, No. (1-24) and (25-48)

JCNEF 24
JCNEM 24

JCNEF 24 N
JCNEM 24 N

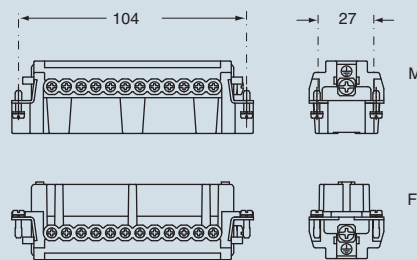
spring terminal
female inserts, No. (1-24) and (25-48)
male inserts, No. (1-24) and (25-48)

JCSEF 24
JCSEM 24

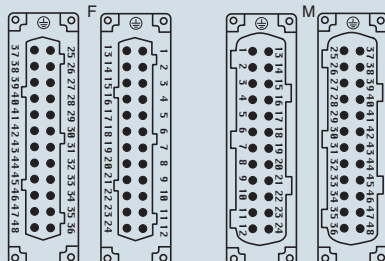
JCSEF 24 N
JCSEM 24 N

- characteristics according to EN 61984:
16A 500V 6kV 3
16A 400/690V 6kV 2
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- contact resistance: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$ (JCNE) - $\leq 3 \text{ m}\Omega$ (JCSE)
- for maximum current load, see the following load curves inserts, for more information see page 495 and 496

dimensions in mm

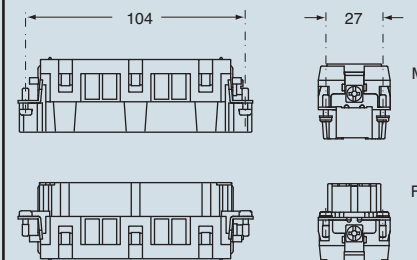


contacts side (front view)

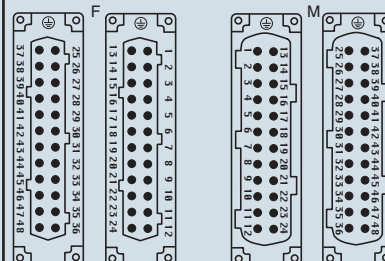


- inserts with plate for section conductors:
0.5 - 4 mm² - AWG 20 - 12
- conductors stripping length: 7 mm
- terminal screw torque: 0.5 Nm (4.4 lb.in), for more information see page 21 and 22

dimensions in mm



contacts side (front view)



- inserts for section conductors:
0,14 - 2,5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm

diagram JCNE 48 poles

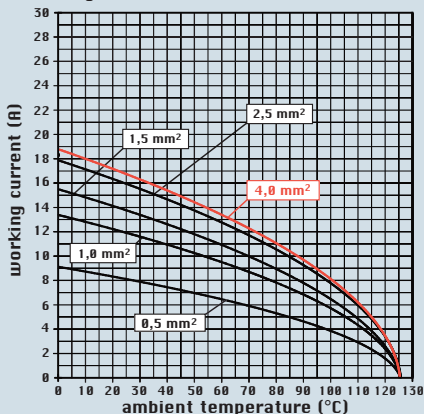
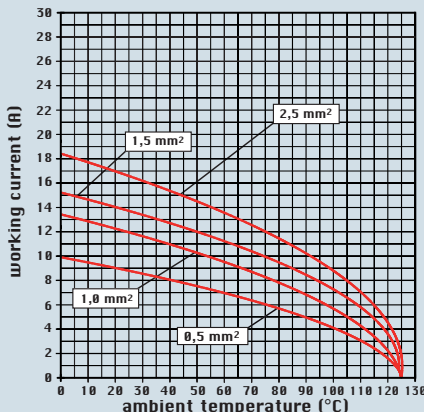
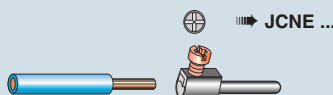


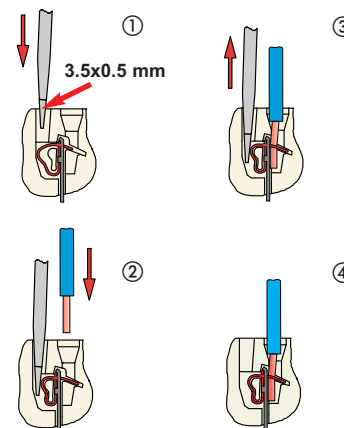
diagram JCSE 48 poles



1) for non-prepared conductors



connection with spring terminal



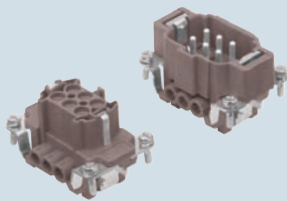
enclosures:

size "44.27"

page:

for 180 °C 354

inserts,
screw terminal connections



silver
plated
contacts

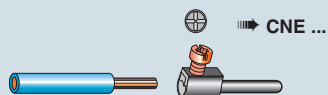
description

part No.

indirect, with plate 1), use in up to 180 °C
female inserts with female contacts, brown
male inserts with male contacts, brown

CNEF 06 RY
CNEM 06 RY

1) for non-prepared conductors



- characteristics according to EN 61984:

16A 500V 6kV 3

16A 400/690V 6kV 2

- UL, CSA, CCC, GL, GOST certified

- rated voltage according to UL/CSA: 600V

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

- ambient temperature limit: -40 °C ... +180 °C

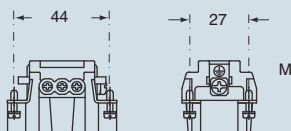
- are made of self-extinguishing thermoplastic resin
UL 94 V0

- mechanical life: ≥ 500 cycles

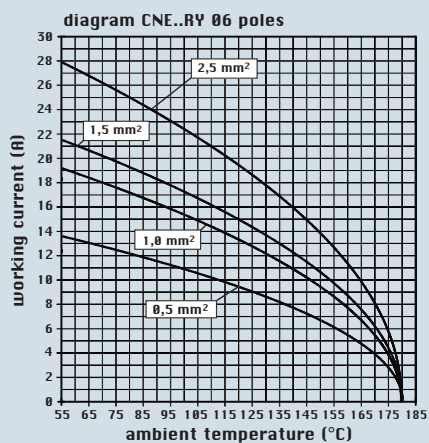
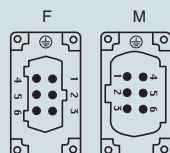
- contact resistance: $\leq 1 \text{ m}\Omega$

- for maximum current load, see the following load
curves inserts, for more information see page 495

dimensions in mm



contacts side (front view)



- inserts with plate for section conductors:
0.5 - 4 mm² - AWG 20 - 12
- conductors stripping length: 7 mm
- terminal screw torque: 0.5 Nm (4.4 lb.in), for more
information see page 21 and 22

dimensions shown are not binding
and may be changed without notice

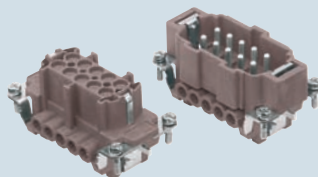
enclosures:

size "57.27"

page:

for 180 °C 355

inserts,
screw terminal connections



silver
plated
contacts

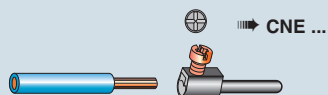
description

part No.

indirect, with plate 1), use in up to 180 °C
female inserts with female contacts, brown
male inserts with male contacts, brown

CNEF 10 RY
CNEM 10 RY

1) for non-prepared conductors



- characteristics according to EN 61984:

16A 500V 6kV 3

16A 400/690V 6kV 2

- UL, CSA, CCC, GL, GOST certified

- rated voltage according to UL/CSA: 600V

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

- ambient temperature limit: -40 °C ... +180 °C

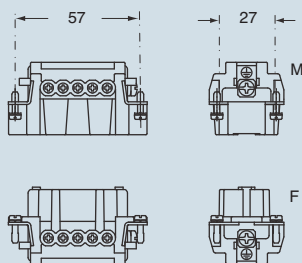
- are made of self-extinguishing thermoplastic resin
UL 94 V0

- mechanical life: ≥ 500 cycles

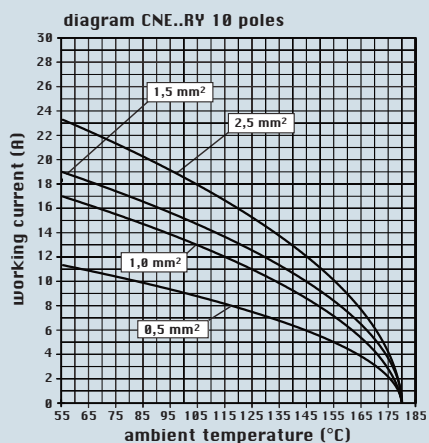
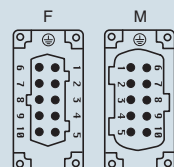
- contact resistance: $\leq 1 \text{ m}\Omega$

- for maximum current load, see the following load
curves inserts, for more information see page 495

dimensions in mm



contacts side (front view)



- inserts with plate for section conductors:

0.5 - 4 mm² - AWG 20 - 12

- conductors stripping length: 7 mm

- terminal screw torque: 0.5 Nm (4.4 lb.in), for more
information see page 21 and 22

dimensions shown are not binding
and may be changed without notice

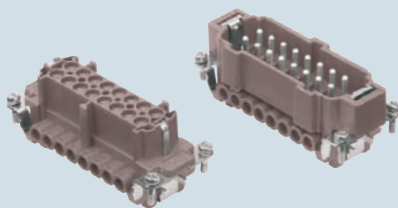
enclosures:

size "77.27"

page:

for 180 °C 356

inserts,
screw terminal connections



silver
plated
contacts

description

part No.

indirect, with plate 1), use in up to 180 °C
female inserts with female contacts, brown
male inserts with male contacts, brown

CNEF 16 RY
CNEM 16 RY

1) for non-prepared conductors



- characteristics according to EN 61984:

16A 500V 6kV 3

16A 400/690V 6kV 2

- UL, CSA, CCC, GL, GOST certified

- rated voltage according to UL/CSA: 600V

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

- ambient temperature limit: -40 °C ... +180 °C

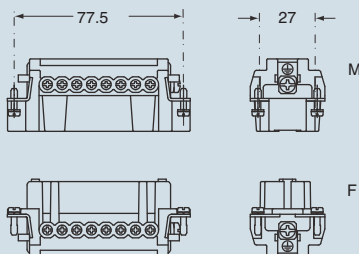
- are made of self-extinguishing thermoplastic resin
UL 94 V0

- mechanical life: ≥ 500 cycles

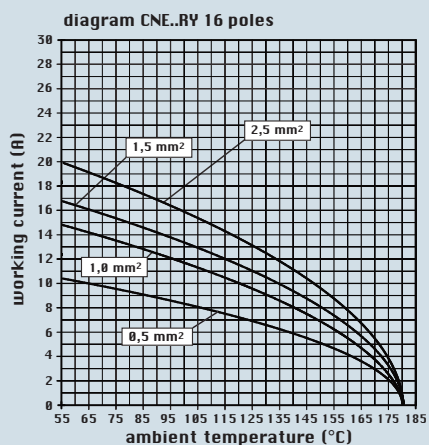
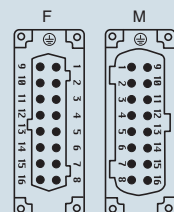
- contact resistance: $\leq 1 \text{ m}\Omega$

- for maximum current load, see the following load
curves inserts, for more information see page 495

dimensions in mm



contacts side (front view)



- inserts with plate for section conductors:

0.5 - 4 mm² - AWG 20 - 12

- conductors stripping length: 7 mm

- terminal screw torque: 0.5 Nm (4.4 lb.in), for more
information see page 21 and 22

dimensions shown are not binding
and may be changed without notice

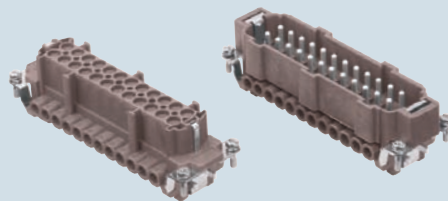
enclosures:

size "104.27"

page:

for 180 °C 357

inserts,
screw terminal connections



silver
plated
contacts

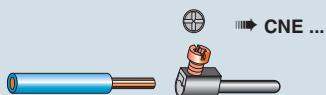
description

part No.

indirect, with plate 1), use in up to 180 °C
female inserts with female contacts, brown
male inserts with male contacts, brown

CNEF 24 RY
CNEM 24 RY

1) for non-prepared conductors



- characteristics according to EN 61984:

16A 500V 6kV 3

16A 400/690V 6kV 2

- UL, CSA, CCC, GL, GOST certified

- rated voltage according to UL/CSA: 600V

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

- ambient temperature limit: -40 °C ... +180 °C

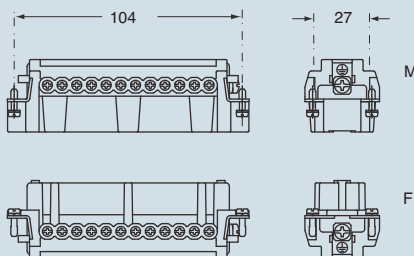
- are made of self-extinguishing thermoplastic resin
UL 94 V0

- mechanical life: ≥ 500 cycles

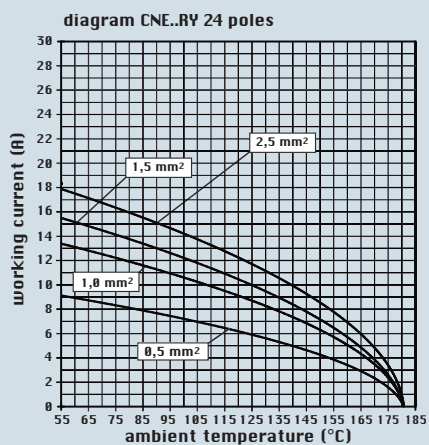
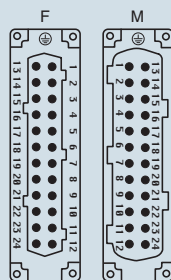
- contact resistance: $\leq 1 \text{ m}\Omega$

- for maximum current load, see the following load
curves inserts, for more information see page 495

dimensions in mm



contacts side (front view)

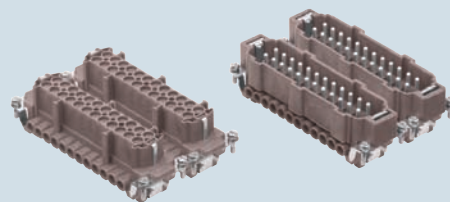


- inserts with plate for section conductors:
0.5 - 4 mm² - AWG 20 - 12
- conductors stripping length: 7 mm
- terminal screw torque: 0.5 Nm (4.4 lb.in), for more
information see page 21 and 22

dimensions shown are not binding
and may be changed without notice

enclosures:
size "104.62" page:
for 180 °C 358

inserts,
screw terminal connections



silver
plated
contacts

description

part No.

part No.

indirect, with plate 1), use in temperatures up to 180 °C
female inserts, No.(1-24) and (25-48), brown
male inserts, No. (1-24) and (25-48), brown

CNEF 24 RY
CNEM 24 RY

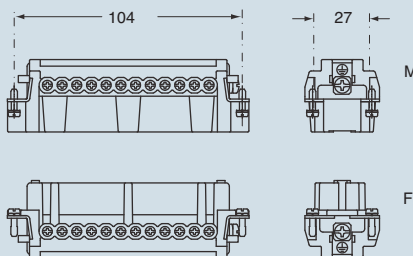
CNEF 24 RYN
CNEM 24 RYN

1) for non-prepared conductors

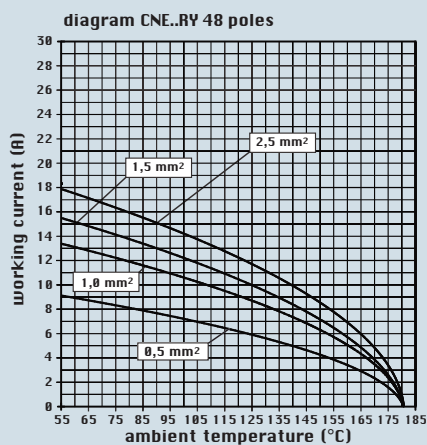
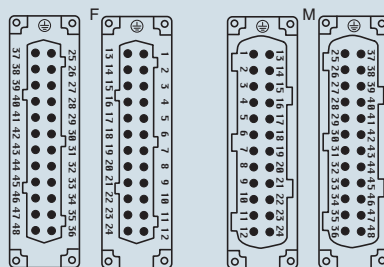


- characteristics according to EN 61984:
16A 500V 6kV 3
16A 400/690V 6kV 2
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: -40 °C ... +180 °C
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 495

dimensions in mm

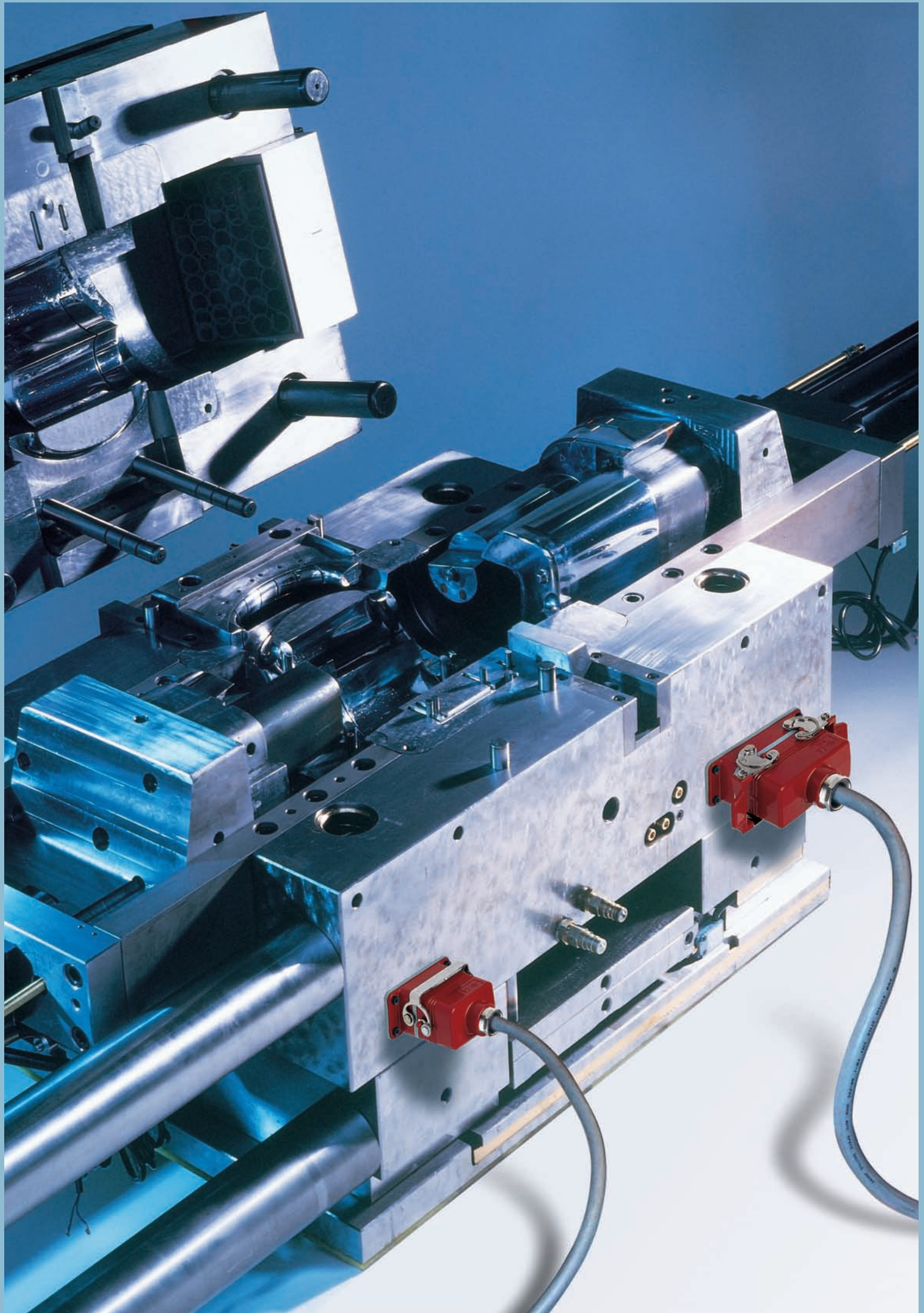


contacts side (front view)



- inserts with plate for section conductors:
0.5 - 4 mm² - AWG 20 - 12
- conductors stripping length: 7 mm
- terminal screw torque: 0.5 Nm (4.4 lb.in), for more information see page 21 and 22

dimensions shown are not binding
and may be changed without notice



enclosures:

size "44.27"

page:

C-TYPE IP65/IP66 218 - 221

C7 IP67 stainless steel lever 254

V-TYPE IP65/IP66

stainless steel lever 260 - 262

T-TYPE IP65 insulating 282

JEI zinc-plated steel lever 288 - 289

BIG hoods 304 - 306

aggressive environments 329

EMC 348

central lever 360 - 361

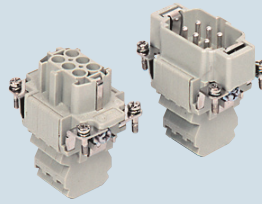
IP68 374 - 377

panel supports:

page:

COB 410 - 411

inserts,
connection with dual spring
terminal per pole



description

part No.

dual spring terminal per pole
socket inserts with female contacts
plug inserts with male contacts

CSSF 06
CSSM 06

The CSS series inserts can be inserted in flush mounted enclosures or in fixed / portable high enclosures.

- can be mated with CNE, CSE, CCE, CTE, CTSE, CSH inserts

- characteristics according to EN 61984:

16A 500V 6kV 3

16A 400/690V 6kV 2

- UL, CSA, CCC, GOST certified

- rated voltage according to UL/CSA: 600V

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

- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$

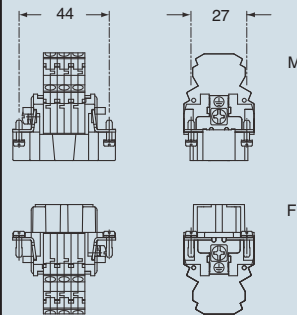
- are made of self-extinguishing thermoplastic resin UL 94 V0

- mechanical life: ≥ 500 cycles

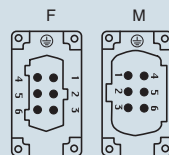
- contact resistance: $\leq 3 \text{ m}\Omega$

- for maximum current load, see the following load curves inserts, for more information see page 496

dimensions in mm

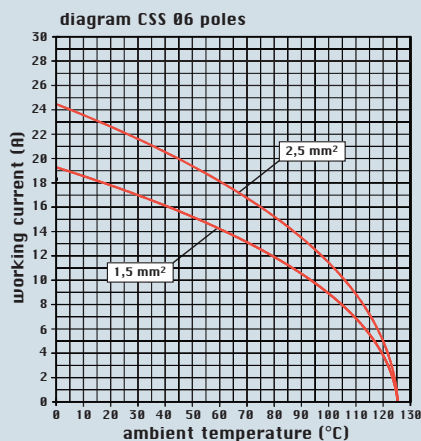


contacts side (front view)

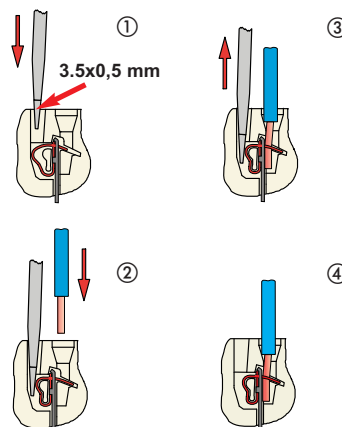


- inserts with plate, for section conductors:
0.14 - 2.5 mm² - AWG 26 - 14

- conductors stripping length: 9...11 mm



connection with spring terminal



dimensions shown are not binding
and may be changed without notice

enclosures:

size "57.27"

page:

C-TYPE IP65/IP66 222 - 227

C7 IP67 stainless steel lever 255

V-TYPE IP65/IP66

stainless steel lever 264 - 267

T-TYPE IP65 insulating 283

JEI zinc-plated steel lever 290 - 291

BIG hoods 308 - 311

aggressive environments 330

EMC 349

central lever 362 - 363

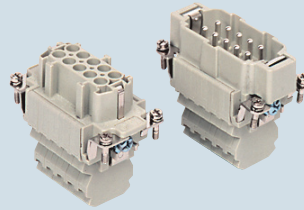
IP68 378 - 381

panel supports:

page:

COB 410 - 411

inserts,
connection with dual spring
terminal per pole



description

part No.

dual spring terminal per pole
socket inserts with female contacts
plug inserts with male contacts

CSSF 10
CSSM 10

The CSS series inserts can be inserted in flush mounted enclosures or in fixed / portable high enclosures.

- can be mated with CNE, CSE, CCE, CTE, CTSE, CSH inserts

- characteristics according to EN 61984:

16A 500V 6kV 3

16A 400/690V 6kV 2

- UL, CSA, CCC, GOST certified

- rated voltage according to UL/CSA: 600V

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

- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$

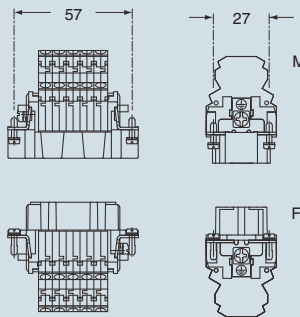
- are made of self-extinguishing thermoplastic resin UL 94 V0

- mechanical life: ≥ 500 cycles

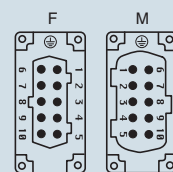
- contact resistance: $\leq 3 \text{ m}\Omega$

- for maximum current load, see the following load curves inserts, for more information see page 496

dimensions in mm



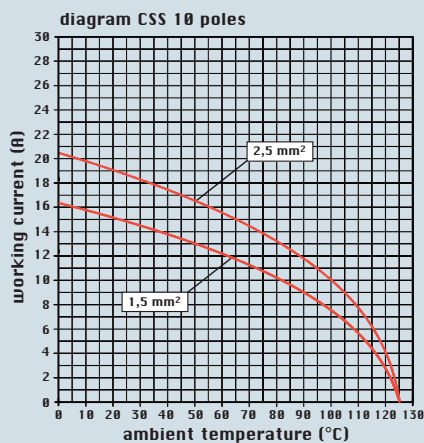
contacts side (front view)



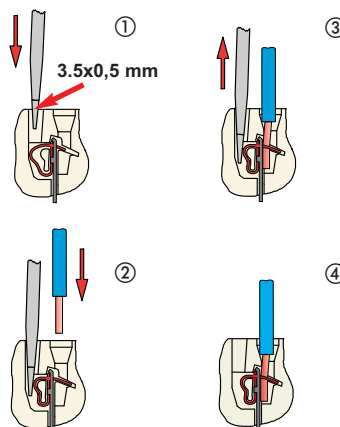
- inserts with plate, for section conductors:

0.14 - 2.5 mm² - AWG 26 - 14

- conductors stripping length: 9...11 mm



connection with spring terminal



dimensions shown are not binding
and may be changed without notice

enclosures:

size "77.27"

page:

C-TYPE IP65/IP66 228 - 234

C7 IP67 stainless steel lever 256

V-TYPE IP65/IP66

stainless steel lever 268 - 271

T-TYPE IP65 insulating 284

JEI zinc-plated steel lever 292 - 293

BIG hoods 312 - 315

aggressive environments 331

EMC 350

central lever 364 - 365

IP68 382 - 385

panel supports:

page:

COB 410 - 411

description

part No.

dual spring terminal per pole
socket inserts with female contacts
plug inserts with male contacts

CSSF 16
CSSM 16

The CSS series inserts can be inserted in flush mounted enclosures or in fixed / portable high enclosures.

- can be mated with CNE, CSE, CCE, CTE, CTSE, CSH inserts

- characteristics according to EN 61984:

16A 500V 6kV 3

16A 400/690V 6kV 2

- UL, CSA, CCC, GOST certified

- rated voltage according to UL/CSA: 600V

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

- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$

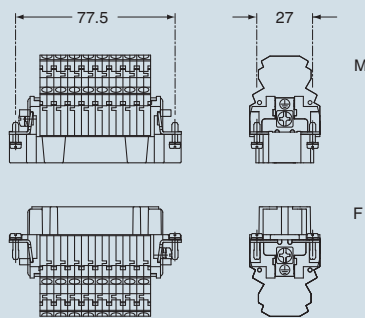
- are made of self-extinguishing thermoplastic resin UL 94 V0

- mechanical life: ≥ 500 cycles

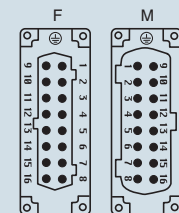
- contact resistance: $\leq 3 \text{ m}\Omega$

- for maximum current load, see the following load curves inserts, for more information see page 496

dimensions in mm



contacts side (front view)

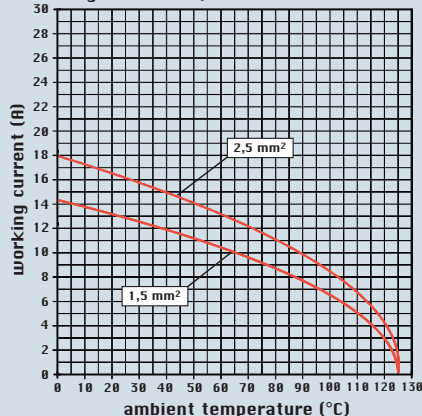


- inserts with plate, for section conductors:

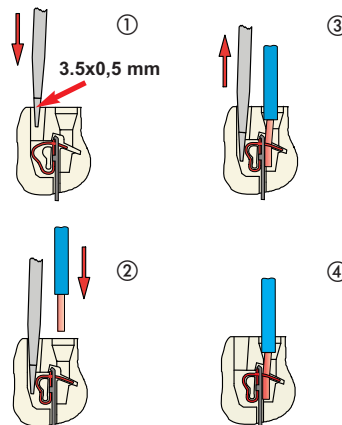
0.14 - 2.5 mm² - AWG 26 - 14

- conductors stripping length: 9...11 mm

diagram CSS 16 poles



connection with spring terminal



dimensions shown are not binding
and may be changed without notice

enclosures:

size "104.27"

page:

C-TYPE IP65/IP66 236 - 243

C7 IP67 stainless steel lever 257

V-TYPE IP65/IP66
stainless steel lever 272 - 275

T-TYPE IP65 insulating 285

JEI zinc-plated steel lever 294 - 295

BIG hoods 316 - 319

aggressive environments 332

EMC 351

central lever 366 - 368

IP68 386 - 389

panel supports:

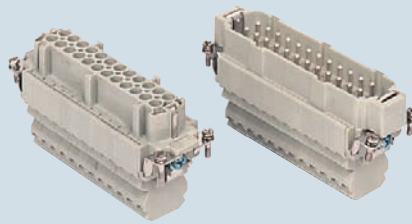
page:

COB 410 - 411

description

dual spring terminal per pole
socket inserts with female contacts
plug inserts with male contacts

inserts,
connection with dual spring
terminal per pole



part No.

CSSF 24
CSSM 24

The CSS series inserts can be inserted in flush mounted enclosures or in fixed / portable high enclosures.

- can be mated with CNE, CSE, CCE, CTE, CTSE, CSH inserts

- characteristics according to EN 61984:

16A 500V 6kV 3

16A 400/690V 6kV 2

- UL, CSA, CCC, GOST certified

- rated voltage according to UL/CSA: 600V

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

- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$

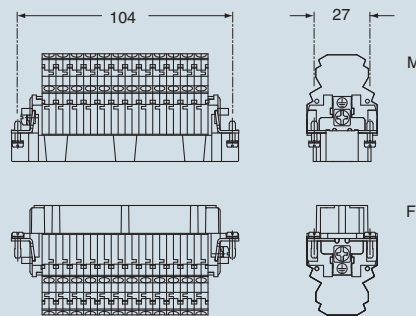
- are made of self-extinguishing thermoplastic resin UL 94 V0

- mechanical life: ≥ 500 cycles

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

- for maximum current load, see the following load curves inserts, for more information see page 496

dimensions in mm



contacts side (front view)

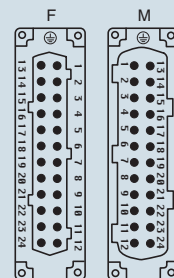
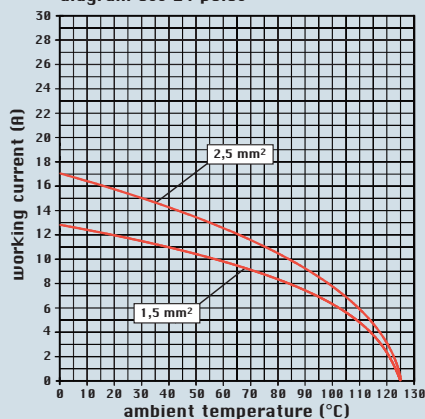


diagram CSS 24 poles

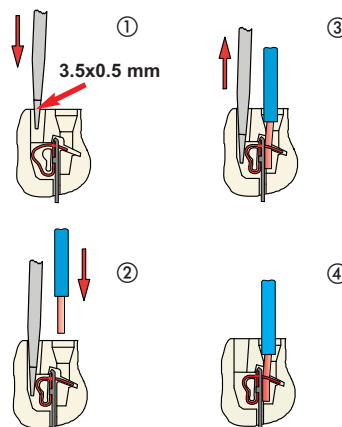


- inserts with plate, for section conductors:

0.14 - 2.5 mm² - AWG 26 - 14

- conductors stripping length: 9...11 mm

connection with spring terminal



dimensions shown are not binding
and may be changed without notice

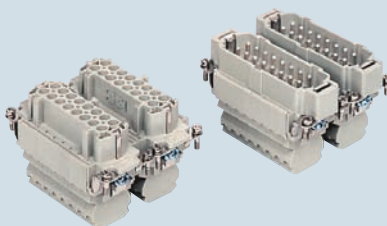
enclosures:
size "77.62"

page:

C-TYPE IP65/IP66 244 - 247
aggressive environments 333

- can be mated with CNE, CSE, CCE, CSH inserts

inserts,
connection with dual spring
terminal per pole



description

part No.

part No.

dual spring terminal per pole
female inserts, No. (1-16) and (17-32)
male inserts, No. (1-16) and (17-32)

CSSF 16
CSSM 16

CSSF 16 N
CSSM 16 N

The CSS series inserts can be inserted in flush mounted enclosures or in fixed / portable high enclosures.

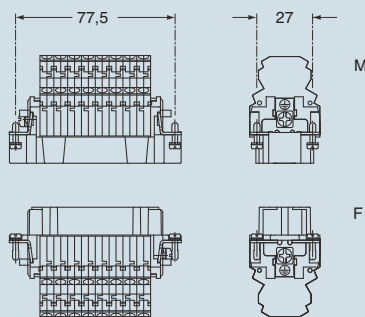
- characteristics according to EN 61984:

16A 500V 6kV 3

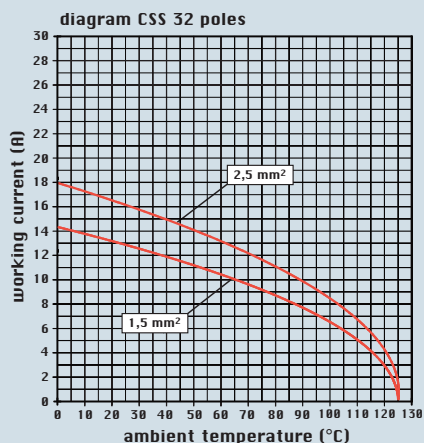
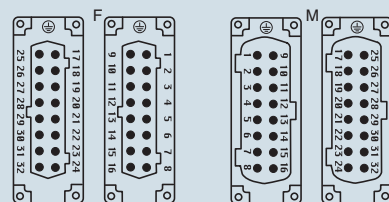
16A 400/690V 6kV 2

- UL, CSA, CCC, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 3 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 496

dimensions in mm

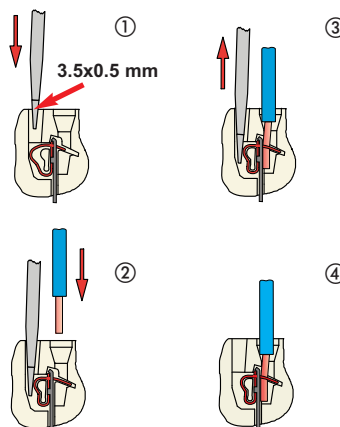


contacts side (front view)



- inserts with plate, for section conductors: 0.14 - 2.5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm

connection with spring terminal



dimensions shown are not binding
and may be changed without notice

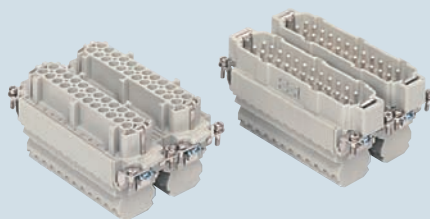
enclosures:
size "104.62"

page:

C-TYPE IP65/IP66 248
aggressive environments 334

- can be mated with CNE, CSE, CCE, CSH inserts

inserts,
connection with dual spring
terminal per pole



description

part No.

part No.

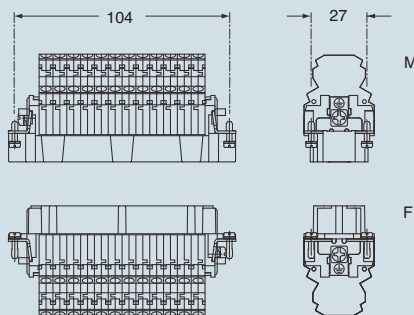
dual spring terminal per pole
female inserts, No. (1-24) and (25-48)
male inserts, No. (1-24) and (25-48)

CSSF 24
CSSM 24

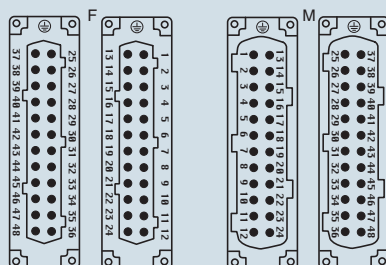
CSSF 24 N
CSSM 24 N

The CSS series inserts can be inserted in flush
mounted enclosures or in fixed / portable high
enclosures.

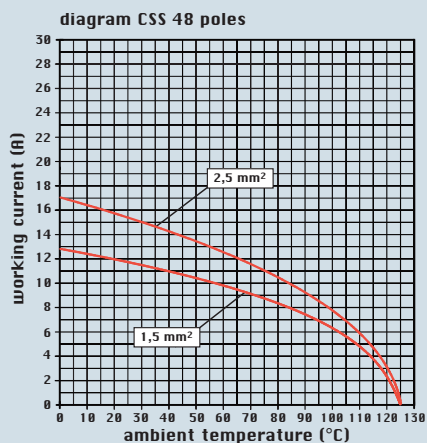
dimensions in mm



contacts side (front view)

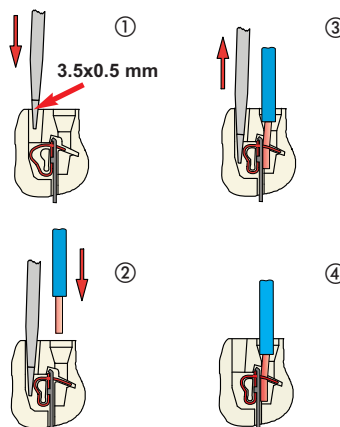


- inserts with plate, for section conductors:
0.14 - 2.5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm



dimensions shown are not binding
and may be changed without notice

connection with spring terminal



Use

The CTE - CTSE - CT series multipole connectors (with incorporated terminal block) are recommended for greater cost-saving and safety for use on machines and command and control panels.

The CTE - CTSE - CT series inserts (16A max versions) are supplied in the plug or socket versions and may be mounted with insertion from the front of the enclosure (Figure 1 for all the polarities of the inserts) or with insertion from the rear of the enclosure (Figure 2, only for 16 and 24-pole inserts).

As an alternative to the traditional terminal blocks, the inserts can be mounted inside the control panels on DIN EN rails (Figure 5) using suitable accessories providing the added advantage of easy sectioning.

The special structure of the CTE - CTSE - CT inserts has all the conductor connections on the same side providing for easier wiring and a complete view of the work area.

The terminal block also has slots for housing the identification wire markers of each contact.

Wire markers of different manufacturers may be used such as: Cabur, Grafoplast, Modernotecnica, Phoenix, Siemens, Wago, Weidmüller.

The CTE - CTSE - CT series is available in the versions "left" and "right" for mounting on the left (Figure 3) or on the right (Figure 4) of the control panel walls.

This characteristic is determined by the position of contact "1" and the ground terminal in the upper part of the insert terminal block for both left and right mounting.

The installation of inserts on DIN rails (Figure 5) inside the control panels is usually made to facilitate the wiring into sectionable parts.

In this case the degree of protection for coupled connectors is IP20 (in accordance with EN 60529).

This type of mounting requires supports (CT APE) to be provided to the inserts suitable for mounting on DIN EN 60715 rails.

Furthermore, to ensure a stable and secure mating between the CTE, CTSE and CT inserts installed on DIN rails and counterparts CNE, CSE, CCE, mating screws CRBF (female) and CRBM (male) are recommended, to replace the ordinary fastening screws to the enclosures (Figure 5).

Figure 1 (front mounting)

The insert is inserted into the bulkhead housing without wired conductors or with pre-wired conductors that are not connected at the opposite end.

Mounting for inserts of 06, 10, 16 and 24 poles

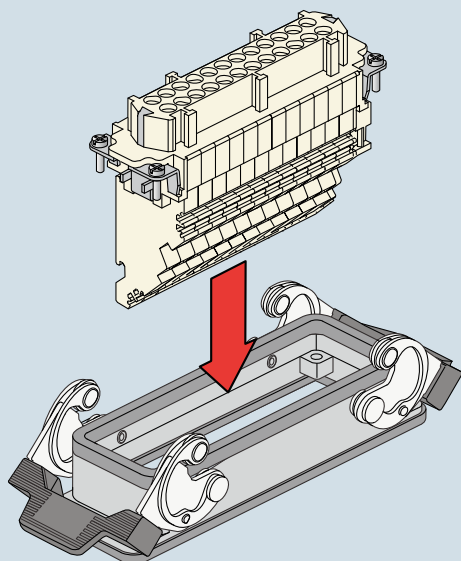
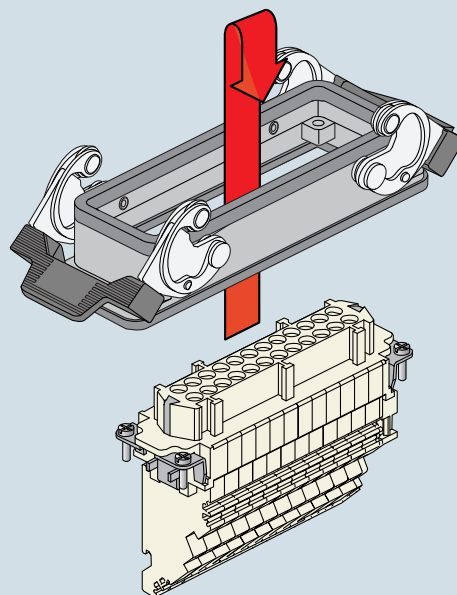


Figure 2 (rear mounting)

The insert is inserted into the bulkhead housing with pre-wired conductors connected at the opposite end.

Mounting for inserts of 16 and 24 poles



Except version T-TYPE

Figure 3 (left mounting)

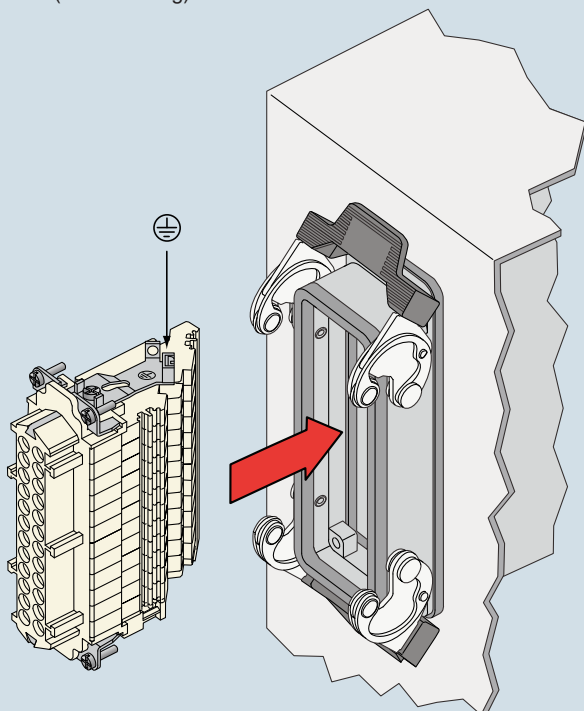


Figure 4 (right mounting)

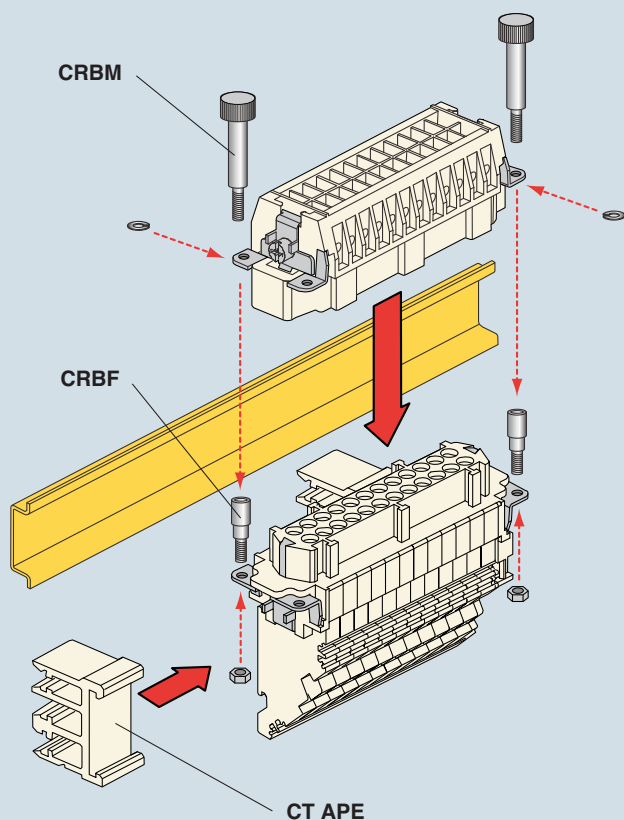
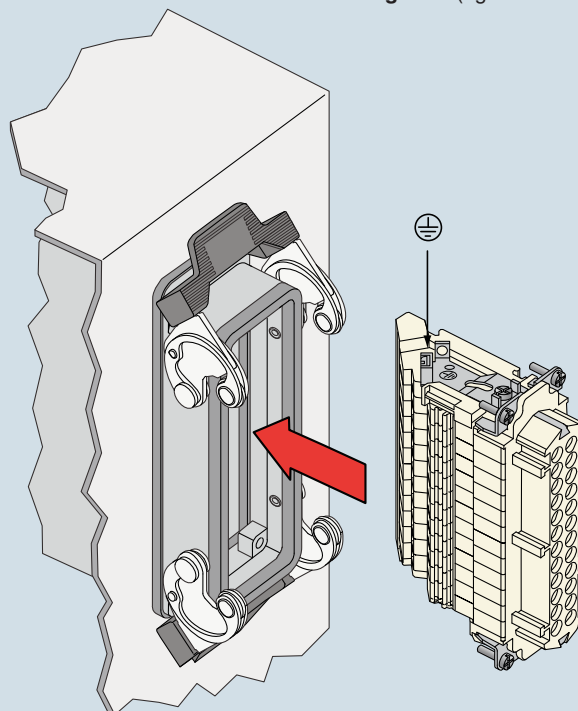
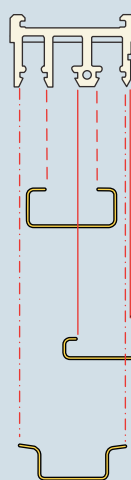


Figure 5 (mounting on DIN rail)



CT APE
possibility of coupling to DIN EN 60715 rail (for a greater stability of the CTE inserts of 16 and 24 poles we recommend using the two CT APE supports)

EN 60715
C 30

EN 60715
G 32

EN 60715
TH 35-7.5 and TH 35-15

accessories for CTE inserts

- support for mounting on DIN rails (**CT APE** page 422)
- inserts coupling screws (**CRBM** and **CRBF** page 422)
- cable-clamping plates (**CRAD** and **CRAS** page 422)

enclosures *):
size "44.27"

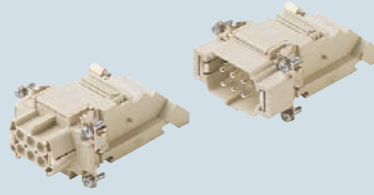
page:

C-TYPE IP65/IP66	218 and 221
C7 IP67 stainless steel lever	254
V-TYPE IP65/IP66 stainless steel lever	260
T-TYPE IP65 insulating	282
JEI zinc-plated steel lever	288
BIG hoods	304 - 306
aggressive environments	329
EMC	348

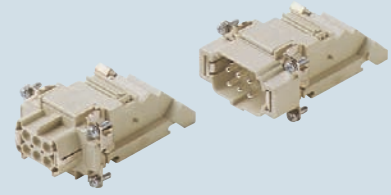
*) only bulkhead mounted housing

- can be mated with CNE, CCE, CCS, CSE, CSH inserts
- inserts may be fitted from front of enclosure

terminal block inserts screw terminal connection



terminal block inserts spring terminal connection



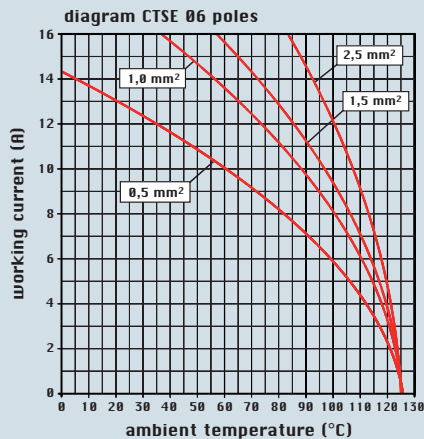
IN PREPARATION

description	part No.	part No.	part No.	part No.
side mounting (see page 125) female inserts with female contacts 1) male inserts with male contacts 1)	left CTEF 06 L CTEM 06 L	right CTEF 06 R CTEM 06 R	left CTSEF 06 L CTSEM 06 L	right CTSEF 06 R CTSEM 06 R
side mounting (see page 125) female inserts with female contacts male inserts with male contacts				

1) for non-prepared conductors

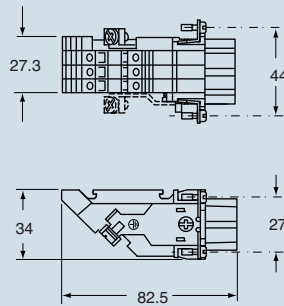
- characteristics according to EN 61984:
16A 500V 6kV 3 (CTE - CTSE)
16A 400/690V 6kV 2 (CTSE)

- UL, CSA, CCC, GOST certified (CTE)
- UL, CSA, CCC, GL, GOST certified (CTSE)
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 4 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 496

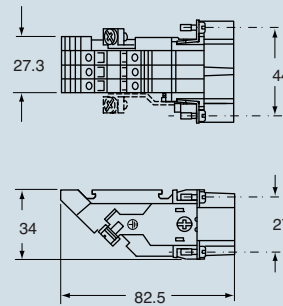


dimensions in mm

female inserts (CTEF and CTSEF)

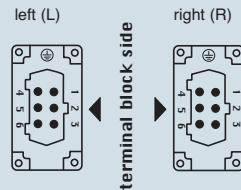


male inserts (CTEM and CTSEM)

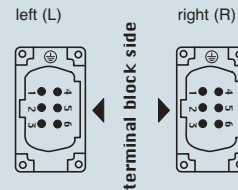


contacts side (front view)

female inserts (CTEF and CTSEF)

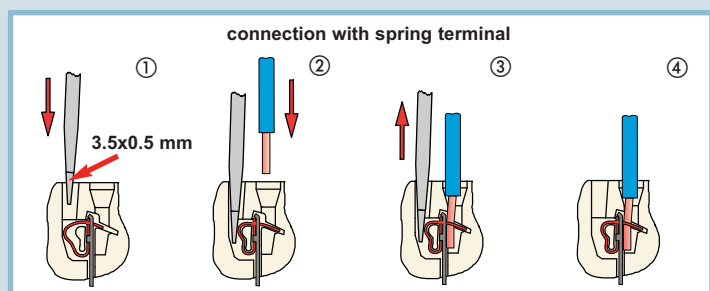


male inserts (CTEM and CTSEM)



- CTE inserts with plate, for section conductors: 0.75 - 2.5 mm² - AWG 18 - 14
- conductors stripping length: 12 mm
- torsion couple recommended for conductor fastening screws see section feature of inserts on page 21 and 22

- CTSE spring inserts for section conductors: 0.14 - 2.5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm



dimensions shown are not binding
and may be changed without notice

enclosures *):
size "57.27"

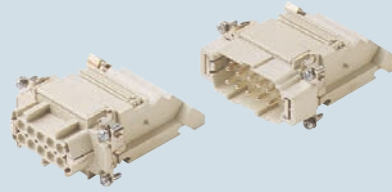
page:

C-TYPE IP65/IP66	222
C7 IP67 stainless steel lever	255
V-TYPE IP65/IP66 stainless steel lever	264
T-TYPE IP65 insulating	283
JEI zinc-plated steel lever	290
BIG hoods	308 - 311
aggressive environments	330
EMC	349

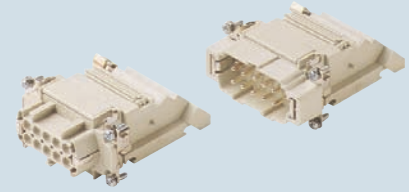
*) only bulkhead mounted housing

- can be mated with CNE, CCE, CCS, CSE, CSH inserts
- inserts may be fitted from front of enclosure

terminal block inserts
screw terminal connection



terminal block inserts
spring terminal connection



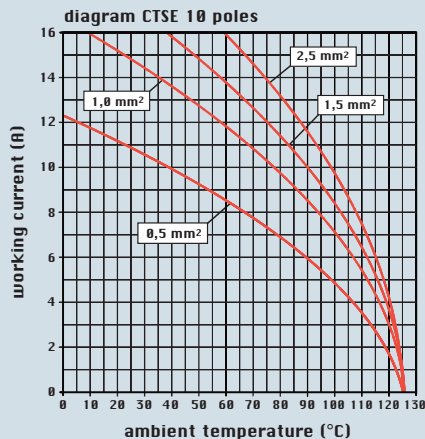
IN PREPARATION

description	part No.	part No.	part No.	part No.
side mounting (see page 125) female inserts with female contacts 1) male inserts with male contacts 1)	left CTEF 10 L CTEM 10 L	right CTEF 10 R CTEM 10 R	left CTSEF 10 L CTSEM 10 L	right CTSEF 10 R CTSEM 10 R
side mounting (see page 125) female inserts with female contacts male inserts with male contacts				

1) for non-prepared conductors

- characteristics according to EN 61984:
16A 500V 6kV 3 (CTE - CTSE)
16A 400/690V 6kV 2 (CTSE)

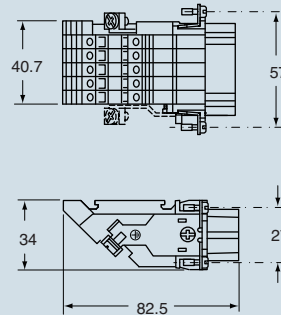
- UL, CSA, CCC, GOST certified (CTE)
- UL, CSA, CCC, GL, GOST certified (CTSE)
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 4 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 496



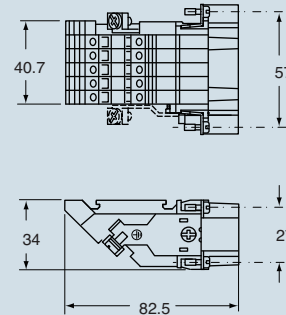
dimensions shown are not binding
and may be changed without notice

dimensions in mm

female inserts (CTEF and CTSEF)

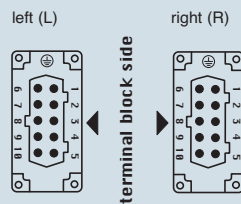


male inserts (CTEM and CTSEM)

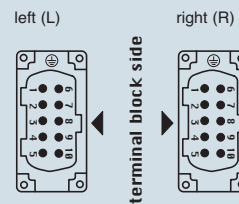


contacts side (front view)

female inserts (CTEF and CTSEF)

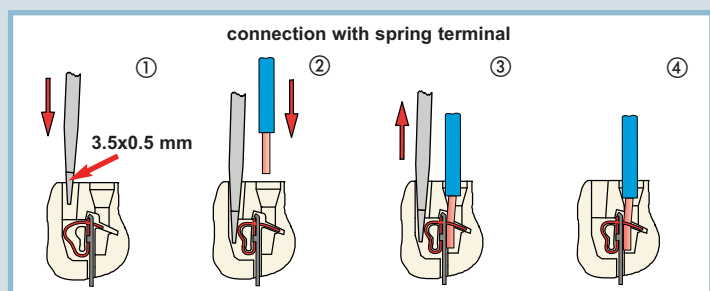


male inserts (CTEM and CTSEM)



- CTE inserts with plate, for section conductors: 0.75 - 2.5 mm² - AWG 18 - 14
- conductors stripping length: 12 mm
- torsion couple recommended for conductor fastening screws see section feature of inserts on page 21 and 22

- CTSE spring inserts for section conductors: 0.14 - 2.5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm



enclosures *):
size "77.27"

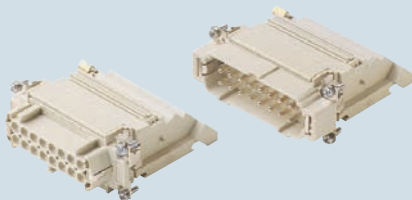
page:

C-TYPE IP65/IP66	228
C7 IP67 stainless steel lever	256
V-TYPE IP65/IP66 stainless steel lever	268
T-TYPE IP65 insulating	284
JEI zinc-plated steel lever	292
BIG hoods	312 - 315
aggressive environments	331
EMC	350

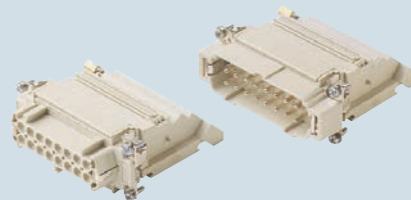
*) only bulkhead mounted housing

- can be mated with CNE, CCE, CCS, CSE, CSH inserts
- inserts may be fitted from front of enclosure

terminal block inserts screw terminal connection



terminal block inserts spring terminal connection



IN PREPARATION

description

part No.

part No.

part No.

part No.

side mounting (see page 125)
female inserts with female contacts 1)
male inserts with male contacts 1)

left
CTEF 16 L
CTEM 16 L

right
CTEF 16 R
CTEM 16 R

side mounting (see page 125)
female inserts with female contacts
male inserts with male contacts

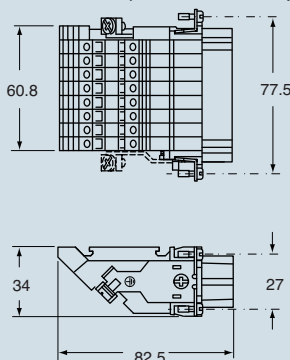
left
CTSEF 16 L
CTSEM 16 L

right
CTSEF 16 R
CTSEM 16 R

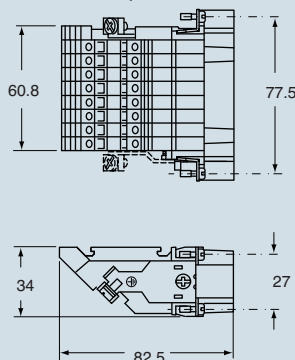
1) for non-prepared conductors

dimensions in mm

female inserts (CTEF and CTSEF)



male inserts (CTEM and CTSEM)



- characteristics according to EN 61984:

16A 500V 6kV 3 (CTE - CTSE)

16A 400/690V 6kV 2 (CTSE)

- UL, CSA, CCC, GOST certified (CTE)

- UL, CSA, CCC, GL, GOST certified (CTSE)

- rated voltage according to UL/CSA: 600V

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

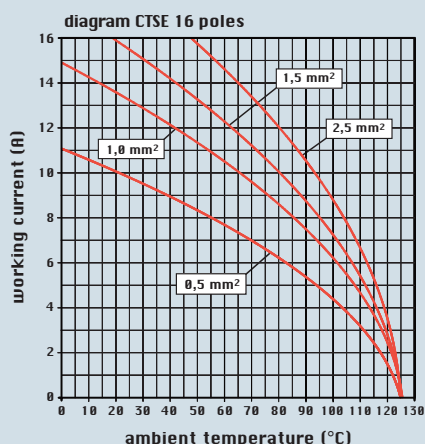
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$

- are made of self-extinguishing thermoplastic resin
UL 94 V0

- mechanical life: ≥ 500 cycles

- contact resistance: $\leq 4 \text{ m}\Omega$

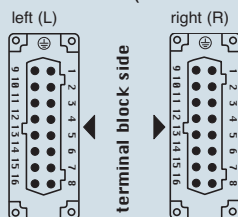
- for maximum current load, see the following load
curves inserts, for more information see page 496



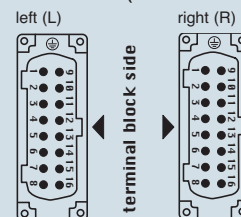
dimensions shown are not binding
and may be changed without notice

contacts side (front view)

female inserts (CTEF and CTSEF)

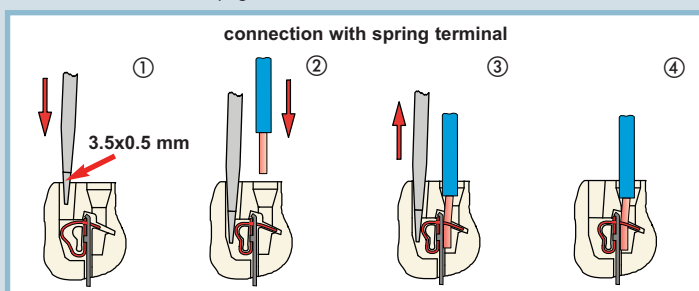


male inserts (CTEM and CTSEM)



- CTE inserts with plate, for section conductors:
0.75 - 2.5 mm² - AWG 18 - 14
- conductors stripping length: 12 mm
- torsion couple recommended for conductor fastening
screws see section feature of inserts on page 21 and 22

- CTSE spring inserts for section conductors:
0.14 - 2.5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm



enclosures *):
size "104.27"

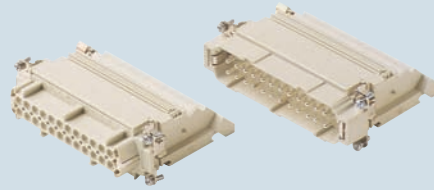
page:

C-TYPE IP65/IP66	236
C7 IP67 stainless steel lever	257
V-TYPE IP65/IP66 stainless steel lever	272
T-TYPE IP65 insulating	285
JEI zinc-plated steel lever	294
BIG hoods	316 - 319
aggressive environments	332
EMC	351

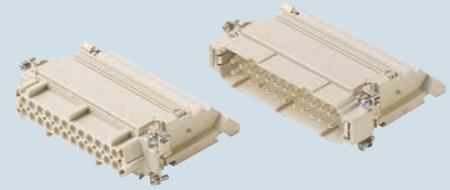
*) only bulkhead mounted housing

- can be mated with CNE, CCE, CCS, CSE, CSH inserts
- inserts may be fitted from front of enclosure

terminal block inserts screw terminal connection



terminal block inserts spring terminal connection

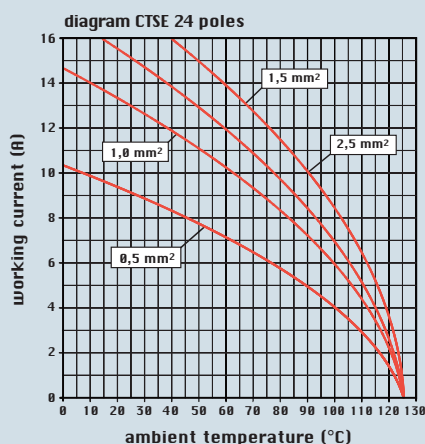


IN PREPARATION

description	part No.	part No.	part No.	part No.
side mounting (see page 125) female inserts with female contacts 1) male inserts with male contacts 1)	left CTEF 24 L CTEM 24 L	right CTEF 24 R CTEM 24 R	left CTSEF 24 L CTSEM 24 L	right CTSEF 24 R CTSEM 24 R
side mounting (see page 125) female inserts with female contacts male inserts with male contacts				

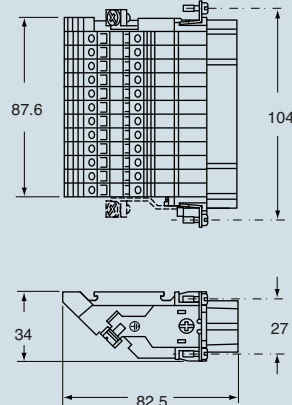
1) for non-prepared conductors

- characteristics according to EN 61984:
16A 500V 6kV 3 (CTE - CTSE)
16A 400/690V 6kV 2 (CTSE)
- UL, CSA, CCC, GOST certified (CTE)
- UL, CSA, CCC, GL, GOST certified (CTSE)
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 4 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 496

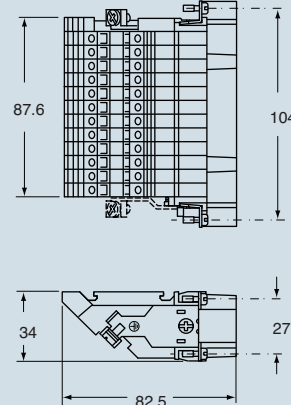


dimensions in mm

female inserts (CTEF and CTSEF)

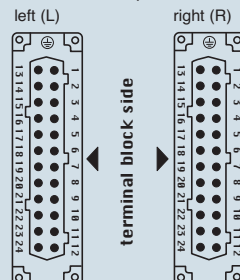


male inserts (CTEM and CTSEM)

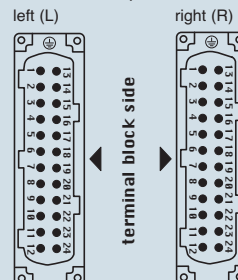


contacts side (front view)

female inserts (CTEF and CTSEF)

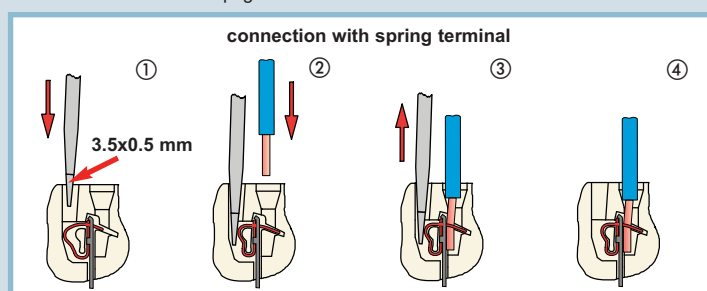


male inserts (CTEM and CTSEM)



- CTE inserts with plate, for section conductors:
0.75 - 2.5 mm² - AWG 18 - 14
- conductors stripping length: 12 mm
- torsion couple recommended for conductor fastening screws see section feature of inserts on page 21 and 22

- CTSE spring inserts for section conductors:
0.14 - 2.5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm



dimensions shown are not binding
and may be changed without notice

enclosures *):

size "44.27"

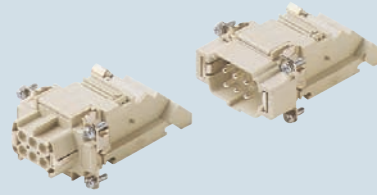
page:

C-TYPE IP65/IP66	218 and 221
C7 IP67 stainless steel lever	254
V-TYPE IP65/IP66 stainless steel lever	260
T-TYPE IP65 insulating	282
JEI zinc-plated steel lever	288
BIG hoods	304 - 306
aggressive environments	329
EMC	348

*) only bulkhead mounted housing

- can be mated with CNE, CCE, CCS, CSE, CSH inserts
- inserts may be fitted from front of enclosure

terminal block inserts screw terminal connection



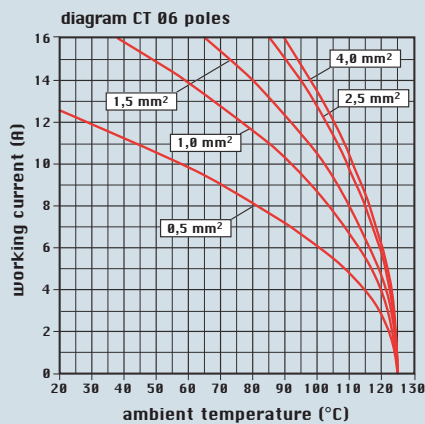
description	part No.	part No.
side mounting (see page 125)	left	right
female inserts with female contacts 1)	CTF 06 L	CTF 06 R
male inserts with male contacts 1)	CTM 06 L	CTM 06 R

1) for non-prepared conductors

- characteristics according to EN 61984:

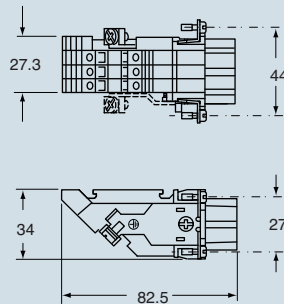
16A 400V 4kV 2

- UL, CSA, CCC, GL certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 4 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 497

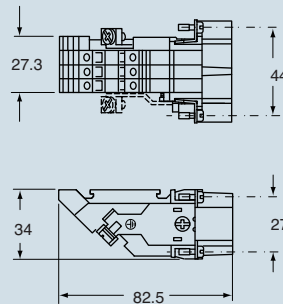


dimensions in mm

female inserts (CTF)

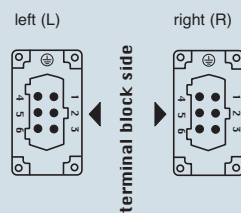


male inserts (CTM)

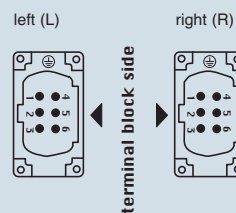


contacts side (front view)

female inserts (CTF)



male inserts (CTM)



- CT inserts with plate, for section conductors: 0.75 - 2.5 mm² - AWG 18 - 14
- conductors stripping length: 12 mm
- terminal screw torque: 0.4 Nm (3.54 lb.in), for more information see page 21 and 22

dimensions shown are not binding
and may be changed without notice

enclosures *):
size "57.27"

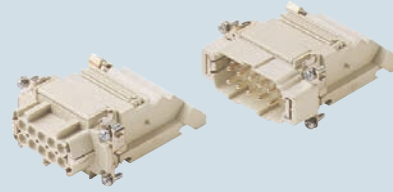
page:

C-TYPE IP65/IP66	222
C7 IP67 stainless steel lever	255
V-TYPE IP65/IP66 stainless steel lever	264
T-TYPE IP65 insulating	283
JEI zinc-plated steel lever	290
BIG hoods	308 - 311
aggressive environments	330
EMC	349

*) only bulkhead mounted housing

- can be mated with CNE, CCE, CCS, CSE, CSH inserts
- inserts may be fitted from front of enclosure

terminal block inserts screw terminal connection



description

part No.

part No.

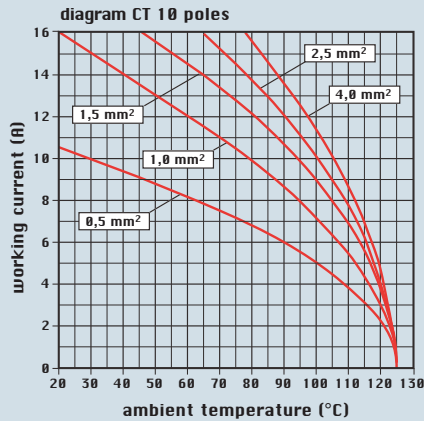
side mounting (see page 125)
female inserts with female contacts 1)
male inserts with male contacts 1)

left
CTF 10 L
CTM 10 L

right
CTF 10 R
CTM 10 R

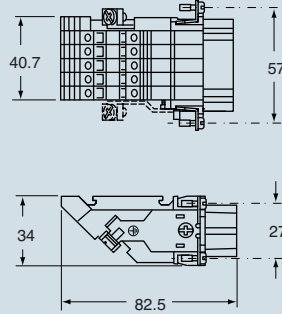
1) for non-prepared conductors

- characteristics according to EN 61984:
16A 400V 4kV 2
- UL, CSA, CCC, GL certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin
UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 4 \text{ m}\Omega$
- for maximum current load, see the following load
curves inserts, for more information see page 497

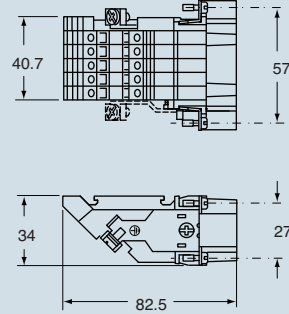


dimensions in mm

female inserts (CTF)

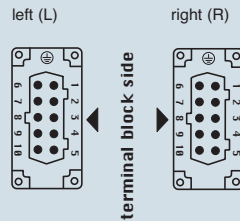


male inserts (CTM)

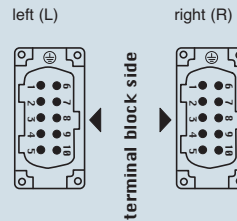


contacts side (front view)

female inserts (CTF)



male inserts (CTM)



- CT inserts with plate, for section conductors:
0.75 - 2.5 mm² - AWG 18 - 14
- conductors stripping length: 12 mm
- terminal screw torque: 0.4 Nm (3.54 lb.in), for more
information see page 21 and 22

dimensions shown are not binding
and may be changed without notice

enclosures *):
size "77.27"

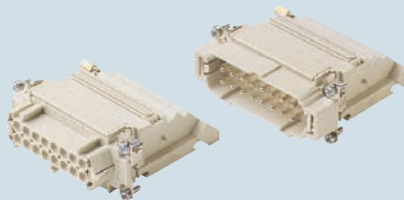
page:

C-TYPE IP65/IP66	228
C7 IP67 stainless steel lever	256
V-TYPE IP65/IP66 stainless steel lever	268
T-TYPE IP65 insulating	284
JEI zinc-plated steel lever	292
BIG hoods	312 - 315
aggressive environments	331
EMC	350

*) only bulkhead mounted housing

- can be mated with CNE, CCE, CCS, CSE, CSH inserts
- inserts may be fitted from front of enclosure

terminal block inserts screw terminal connection



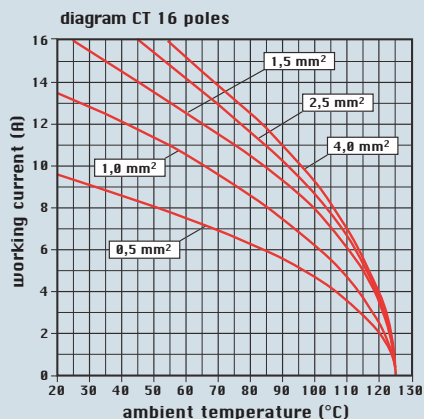
description	part No.	part No.
side mounting (see page 125)	left	right
female inserts with female contacts 1)	CTF 16 L	CTF 16 R
male inserts with male contacts 1)	CTM 16 L	CTM 16 R

1) for non-prepared conductors

- characteristics according to EN 61984:

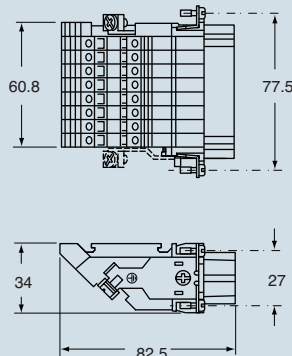
16A 400V 4kV 2

- UL, CSA, CCC, GL certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 4 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 497

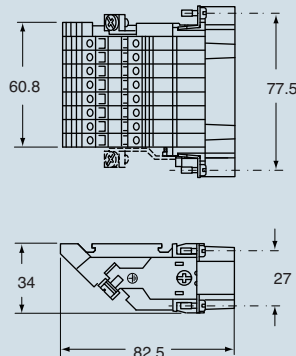


dimensions in mm

female inserts (CTF)

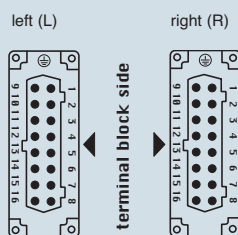


male inserts (CTM)

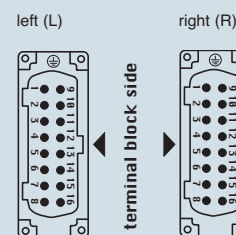


contacts side (front view)

female inserts (CTF)



male inserts (CTM)



- CT inserts with plate, for section conductors: 0.75 - 2.5 mm² - AWG 18 - 14
- conductors stripping length: 12 mm
- terminal screw torque: 0.4 Nm (3.54 lb.in), for more information see page 21 and 22

dimensions shown are not binding
and may be changed without notice

enclosures *):
size "104.27"

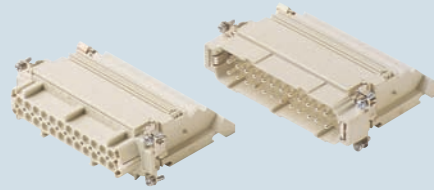
page:

C-TYPE IP65/IP66	236
C7 IP67 stainless steel lever	257
V-TYPE IP65/IP66 stainless steel lever	272
T-TYPE IP65 insulating	285
JEI zinc-plated steel lever	294
BIG hoods	316 - 319
aggressive environments	332
EMC	351

*) only bulkhead mounted housing

- can be mated with CNE, CCE, CCS, CSE, CSH inserts
- inserts may be fitted from front of enclosure

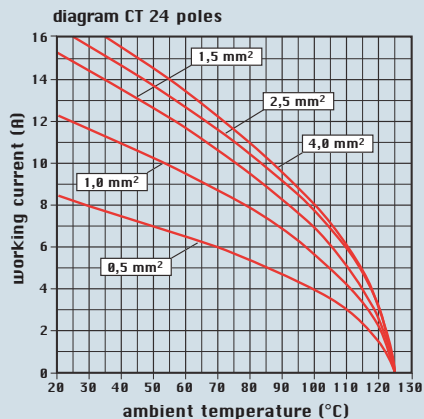
terminal block inserts screw terminal connection



description	part No.	part No.
side mounting (see page 125)	left	right
female inserts with female contacts 1)	CTF 24 L	CTF 24 R
male inserts with male contacts 1)	CTM 24 L	CTM 24 R

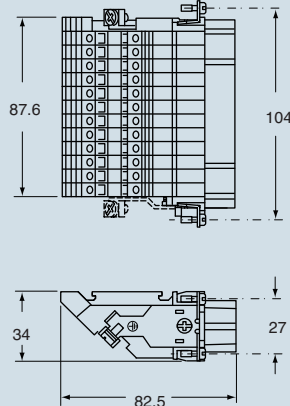
1) for non-prepared conductors

- characteristics according to EN 61984:
16A 400V 4kV 2
- UL, CSA, CCC, GL certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 4 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 497

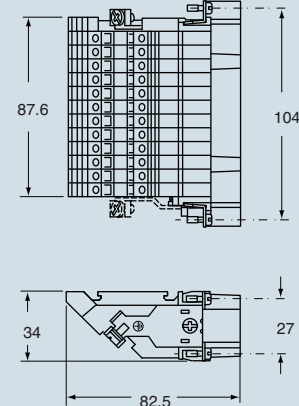


dimensions in mm

female inserts (CTF)

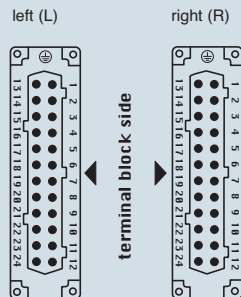


male inserts (CTM)

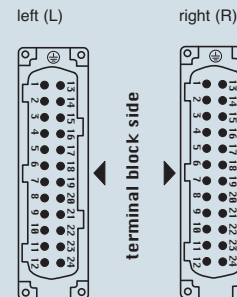


contacts side (front view)

female inserts (CTF)



male inserts (CTM)



- CT inserts with plate, for section conductors:
0.75 - 2.5 mm² - AWG 18 - 14
- conductors stripping length: 12 mm
- terminal screw torque: 0.4 Nm (3.54 lb.in), for more information see page 21 and 22

dimensions shown are not binding
and may be changed without notice

enclosures:

size "57.27"

page:

C-TYPE IP65/IP66 222 - 227

C7 IP67 stainless steel lever 255

V-TYPE IP65/IP66

stainless steel lever 264 - 267

T-TYPE IP65 insulating 283

JEI zinc-plated steel lever 290 - 291

BIG hoods 308 - 311

aggressive environments 330

EMC 349

central lever 362 - 363

IP68 378 - 381

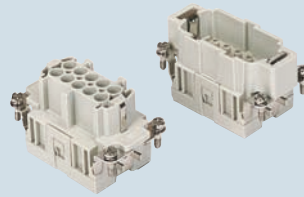
panel supports:

page:

COB 410 - 411

inserts,

crimp connections



16A crimp contacts

normal and for advanced opening
silver and gold plated

description

part No.

part No.

part No.

without contacts (to be ordered separately)

female inserts for female contacts

male inserts for male contacts

CMCEF 03
CMCEM 03

16A female contacts

0.14-0.37 mm ²	AWG 26-22	three grooves
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	three grooves
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

- characteristics according to EN 61984:

16A 830V 8kV 3

16A 1000V 8kV 2

16A 720/1250V 8kV 2

- auxiliary contacts: 16A 500V 6kV 3

- UL, CSA, CCC, GOST certified

- rated voltage according to UL/CSA: 600V

- insulation resistance: ≥ 10 G Ω

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

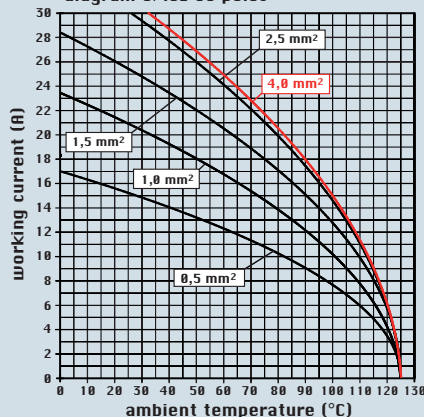
- are made of self-extinguishing thermoplastic resin

UL 94 V0

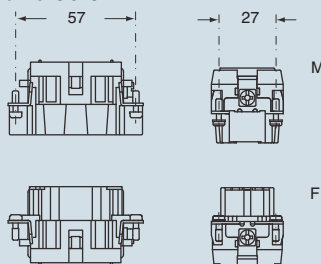
- mechanical life: ≥ 500 cycles- contact resistance: ≤ 1 m Ω

- for maximum current load, see the following load curves inserts, for more information see page 497

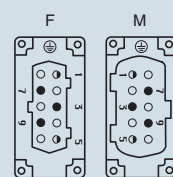
diagram CMCE 03 poles



dimensions in mm



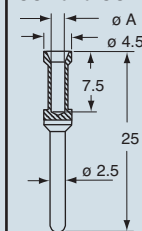
contacts side (front view)



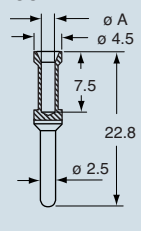
the auxiliary contacts are in the forward position upon opening

dimensions in mm

CCF and CCM



CC...AN



CCF, CCM and CC...AN contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(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

- for contact crimping instructions, please see the crimping tool section (16A contacts, CCF, CCM and CC...AN series) on pages 466, 470, 480, 482, 484, 486

dimensions shown are not binding and may be changed without notice

enclosures:

size "57.27"

page :

C-TYPE IP65/IP66 * 222 - 227

C7 IP67 stainless steel lever * 255

V-TYPE IP65/IP66

stainless steel lever * 264 - 267

T-TYPE IP65 insulating 283

JEL zinc-plated steel lever * 290 - 291

BIG hoods * 308 - 311

aggressive environments 330

EMC * 349

central lever * 362 - 363

IP68 378 - 381

insulated 830V 391 - 395

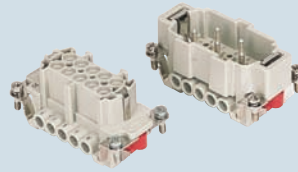
panel supports:

page:

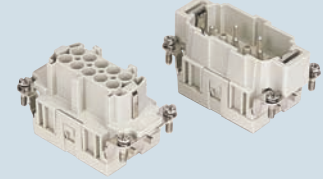
COB 410 - 411

* cannot be used with CME series

description

inserts,
screw terminal connectioninserts,
spring terminal connectionsilver
plated
contacts

part No.

CMEF 03 T
CMEM 03 Tsilver
plated
contacts

part No.

CMSEF 03
CMSEM 03indirect, with plate 1)
female inserts with female contacts
male inserts with male contactsdirect, without plate 2)
female inserts with female contacts
male inserts with male contactsfemale inserts with female contacts
male inserts with male contacts

- characteristics according to EN 61984:

16A 830V 8kV 3

16A 1000V 8kV 2

16A 720/1250V 8kV 2

- auxiliary contacts: 16A 500V 6kV 3

- UL, CSA, CCC, GOST certified

- rated voltage according to UL/CSA: 600V

- insulation resistance: ≥ 10 G Ω

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

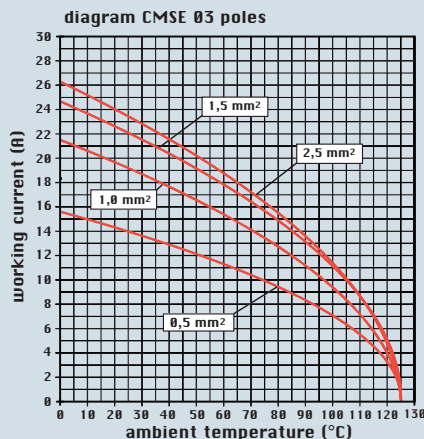
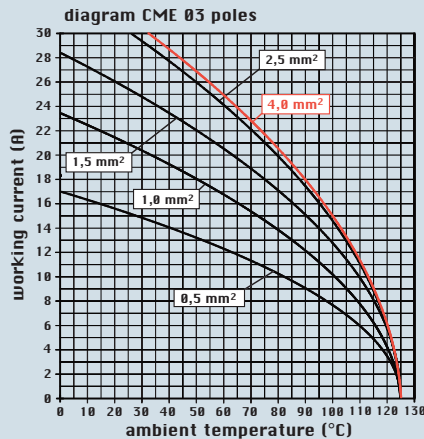
- are made of self-extinguishing thermoplastic resin

UL 94 V0

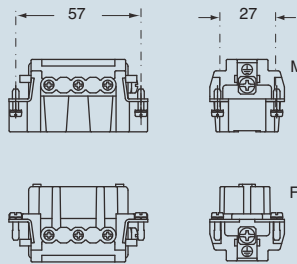
- mechanical life: ≥ 500 cycles- contact resistance: ≤ 1 m Ω (CME) - ≤ 3 m Ω (CMSE)

- for maximum current load, see the following load

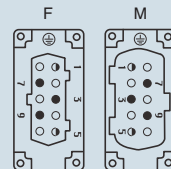
curves inserts, for more information see page 497



dimensions in mm



contacts side (front view)



● the auxiliary contacts are in the forward position upon opening

- inserts with plate, for section conductors:

0.5 - 4 mm² - AWG 20 - 12

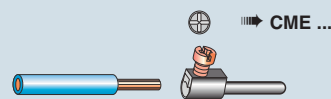
- inserts without plate, for section conductors:

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 21 and 22

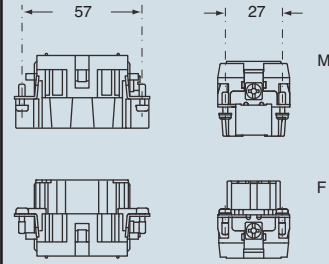
1) for non-prepared conductors



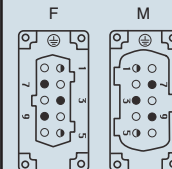
2) for bush terminal conductors



dimensions in mm



contacts side (front view)



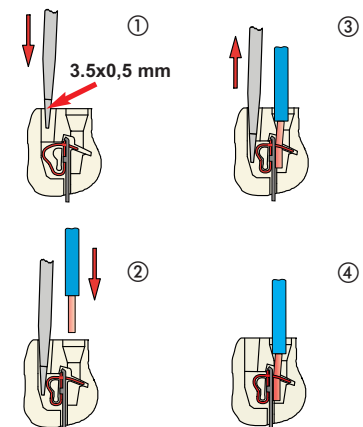
● the auxiliary contacts are in the forward position upon opening

- inserts for section conductors:

0.14 - 2.5 mm² - AWG 26 - 14

- conductors stripping length: 9...11 mm

connection with spring terminal



dimensions shown are not binding and may be changed without notice

enclosures:

size "77.27"

page:

C-TYPE IP65/IP66 228 - 234

C7 IP67 stainless steel lever 256

V-TYPE IP65/IP66
stainless steel lever 268 - 271

T-TYPE IP65 insulating 284

JEI zinc-plated steel lever 292 - 293

BIG hoods 312 - 315

aggressive environments 331

EMC 350

central lever 364 - 365

IP68 382 - 385

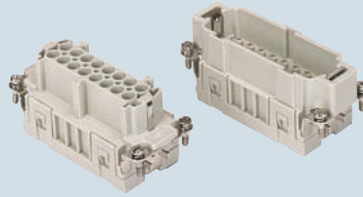
panel supports:

page:

COB 410 - 411

inserts,

crimp connections



16A crimp contacts

normal and for advanced opening
silver and gold plated

description

part No.

part No.

part No.

female inserts with female contacts

female inserts for female contacts

male inserts for male contacts

CMCEF 06

CMCEM 06

16A female contacts

0.14-0.37 mm ²	AWG 26-22	three grooves
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	three grooves
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

silver 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

- characteristics according to EN 61984:

16A 830V 8kV 3

16A 1000V 8kV 2

16A 720/1250V 8kV 2

- auxiliary contacts: 16A 500V 6kV 3

- UL, CSA, CCC, GOST certified

- rated voltage according to UL/CSA: 600V

- insulation resistance: ≥ 10 G Ω

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

- are made of self-extinguishing thermoplastic resin

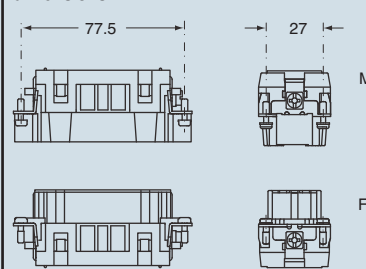
UL 94 V0

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

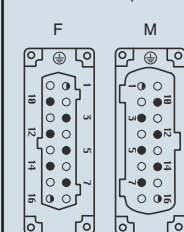
- for maximum current load, see the following load

curves inserts, for more information see page 497

dimensions in mm

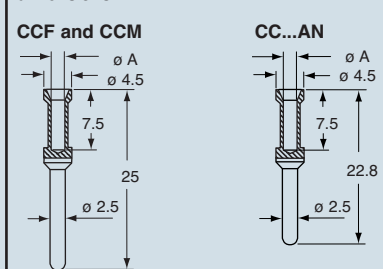


contacts side (front view)



the auxiliary contacts are in the forward position
upon opening

dimensions in mm

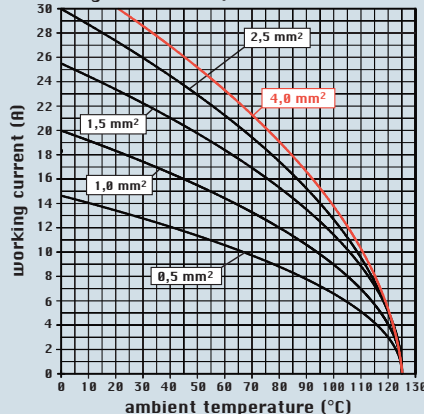


CCF, CCM and CC...AN contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(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

- for contact crimping instructions, please see the
crimping tool section (16A contacts, CCF, CCM and
CC...AN series) on pages 466, 470, 480, 482, 484, 486

diagram CMCE 06 poles



dimensions shown are not binding and may be changed without notice

enclosures:

size "77.27"

page:

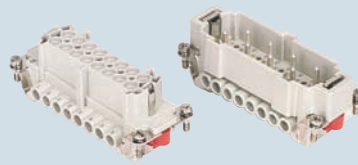
C-TYPE IP65/IP66 *	228 - 234
C7 IP67 stainless steel lever *	256
V-TYPE IP65/IP66	
stainless steel lever *	268 - 271
T-TYPE IP65 insulating	284
JEI zinc-plated steel lever *	292 - 293
BIG hoods *	312 - 315
aggressive environments	331
EMC *	350
central lever *	364 - 365
IP68	382 - 385
insulated 830V	397 - 401

panel supports:

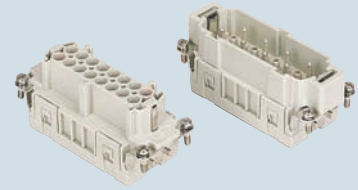
page:

COB	410 - 411
-----	-----------

* cannot be used with CME series

inserts,
screw terminal connectionsilver
plated
contacts

part No.

CMEF 06 T
CMEM 06 Tinserts,
spring terminal connectionsilver
plated
contacts

part No.

description

indirect, with plate 1)
female inserts with female contacts
male inserts with male contactsCMEF 06 T
CMEM 06 Tdirect, without plate 2)
female inserts with female contacts
male inserts with male contactsCMEF 06 TX
CMEM 06 TXfemale inserts with female contacts
male inserts with male contactsCMSEF 06
CMSEM 06

- characteristics according to EN 61984:

- 16A 830V 8kV 3
- 16A 1000V 8kV 2
- 16A 720/1250V 8kV 2
- auxiliary contacts: 16A 500V 6kV 3
- UL, CSA, CCC, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 G Ω
- ambient temperature limit: -40 °C ... +125 °C
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 1 m Ω (CME) - ≤ 3 m Ω (CMSE)
- for maximum current load, see the following load curves inserts, for more information see page 497

diagram CME 06 poles

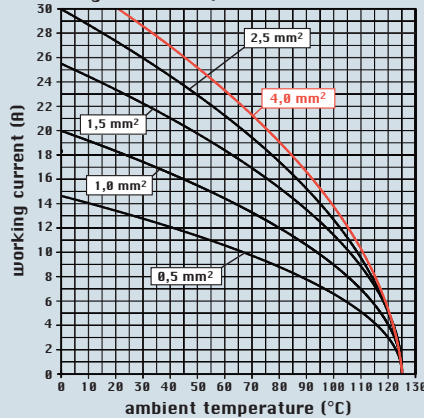
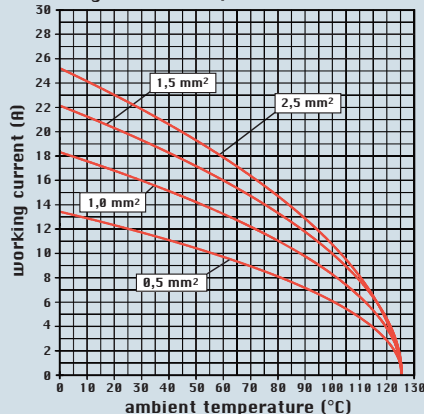
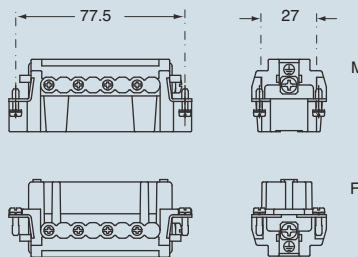


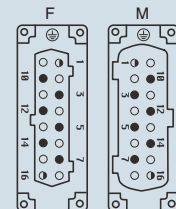
diagram CMSE 06 poles



dimensions in mm



contacts side (front view)



the auxiliary contacts are in the forward position upon opening

- 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 21 and 22

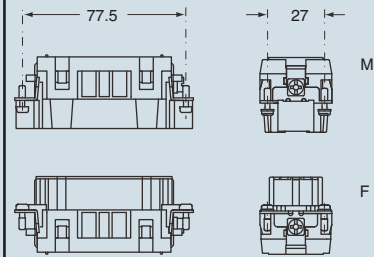
1) for non-prepared conductors



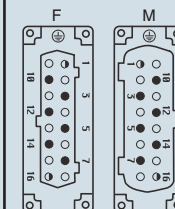
2) for bush terminal conductors



dimensions in mm



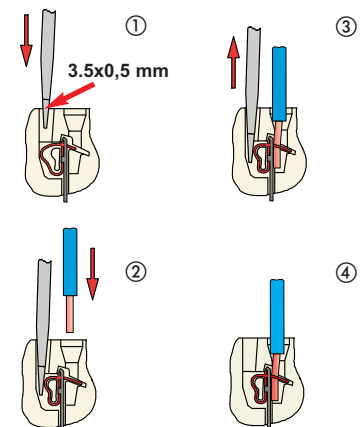
contacts side (front view)



the auxiliary contacts are in the forward position upon opening

- inserts for section conductors: 0.14 - 2.5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm

connection with spring terminal



dimensions shown are not binding and may be changed without notice

enclosures:

size "104.27"

page:

C-TYPE IP65/IP66 236 - 243

C7 IP67 stainless steel lever 257

V-TYPE IP65/IP66
stainless steel lever 272 - 275

T-TYPE IP65 insulating 285

JEI zinc-plated steel lever 294 - 295

BIG hoods 316 - 319

aggressive environments 332

EMC 351

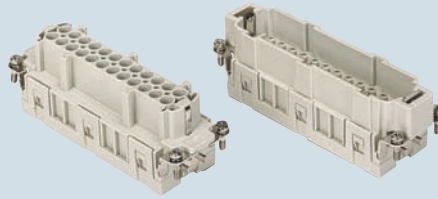
central lever 366 - 368

IP68 386 - 389

panel supports:

page:

COB 410 - 411

inserts,
crimp connections16A crimp contacts
normal and for advanced opening
silver and gold plated

description

part No.

part No.

part No.

without contacts (to be ordered separately)

female inserts for female contacts

male inserts for male contacts

CMCEF 10
CMCEM 10

16A female contacts

0.14-0.37 mm ²	AWG 26-22	three grooves
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	three grooves
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

- characteristics according to EN 61984:

16A 830V 8kV 3

16A 1000V 8kV 2

16A 720/1250V 8kV 2

- auxiliary contacts: 16A 500V 6kV 3

- UL, CSA, CCC, GOST certified

- rated voltage according to UL/CSA: 600V

- insulation resistance: ≥ 10 G Ω

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

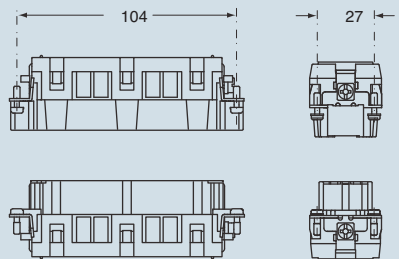
- made of self-extinguishing thermoplastic resin

UL 94 V0

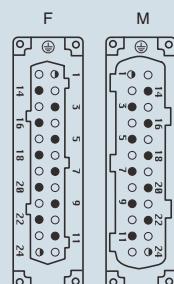
- mechanical life: ≥ 500 cycles- contact resistance: ≤ 1 m Ω

- for maximum current load, see the following load curves inserts, for more information see page 497

dimensions in mm



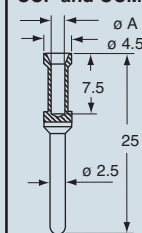
contacts side (front view)



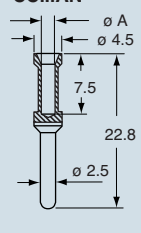
the auxiliary contacts are in the forward position upon opening

dimensions in mm

CCF and CCM



CC...AN

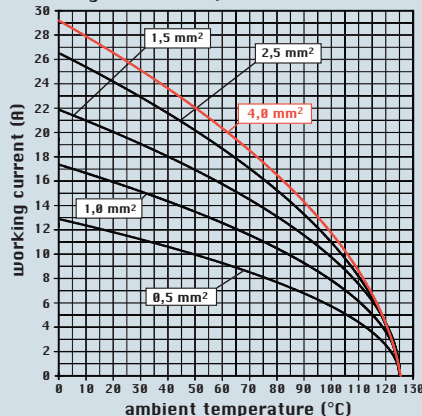


CCF, CCM and CC...AN contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(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

- for contact crimping instructions, please see the crimping tool section (16A contacts, CCF, CCM and CC...AN series) on pages 466, 470, 480, 482, 484, 486

diagram CMCE 10 poles



dimensions shown are not binding and may be changed without notice

enclosures:

size "104.27"

page :

C-TYPE IP65/IP66 * 236 - 243

C7 IP67 stainless steel lever * 257

V-TYPE IP65/IP66

stainless steel lever * 272 - 275

T-TYPE IP65 insulating 285

JEL zinc-plated steel lever * 294 - 295

BIG hoods * 316 - 319

aggressive environments 332

EMC * 351

central lever * 366 - 368

IP68 386 - 389

insulated 830V 403 - 407

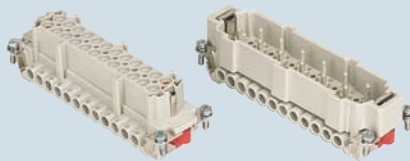
panel supports:

page:

COB 410 - 411

* cannot be used with CME series

description

inserts,
screw terminal connectionsilver
plated
contacts

part No.

CMEF 10 T
CMEM 10 T

indirect, with plate 1)

female inserts with female contacts

male inserts with male contacts

direct, without plate 2)

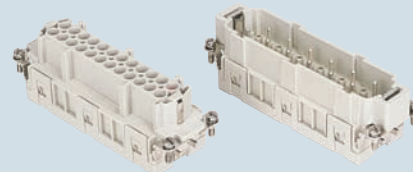
female inserts with female contacts

male inserts with male contacts

CMEF 10 TX
CMEM 10 TX

female inserts with female contacts

male inserts with male contacts

inserts,
spring terminal connectionsilver
plated
contacts

part No.

CMSEF 10
CMSEM 10

- characteristics according to EN 61984:

16A 830V 8kV 3

16A 1000V 8kV 2

16A 720/1250V 8kV 2

- auxiliary contacts: 16A 500V 6kV 3

- UL, CSA, CCC, GOST certified

- rated voltage according to UL/CSA: 600V

- insulation resistance: $\geq 10 \text{ G}\Omega$ - ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$

- are made of self-extinguishing thermoplastic resin

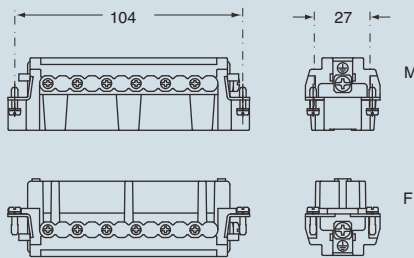
UL 94 V0

- mechanical life: ≥ 500 cycles- contact resistance: $\leq 1 \text{ m}\Omega$ (CME) - $\leq 3 \text{ m}\Omega$ (CMSE)

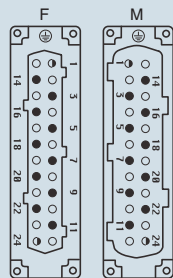
- for maximum current load, see the following load

curves inserts, for more information see page 497

dimensions in mm



contacts side (front view)



the auxiliary contacts are in the forward position upon opening

- 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 21 and 22

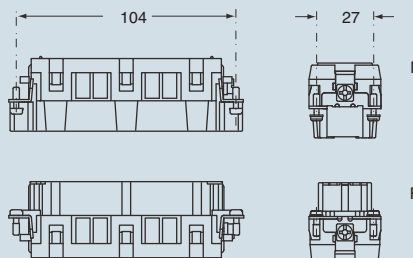
1) for non-prepared conductors



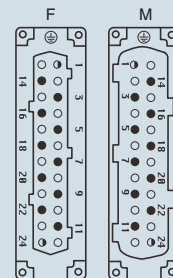
2) for bush terminal conductors



dimensions in mm



contacts side (front view)



the auxiliary contacts are in the forward position upon opening

- inserts for section conductors:

0.14 - 2.5 mm² - AWG 26 - 14

- conductors stripping length: 9...11 mm

connection with spring terminal

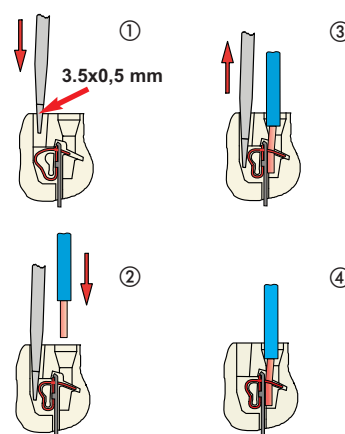


diagram CME 10 poles

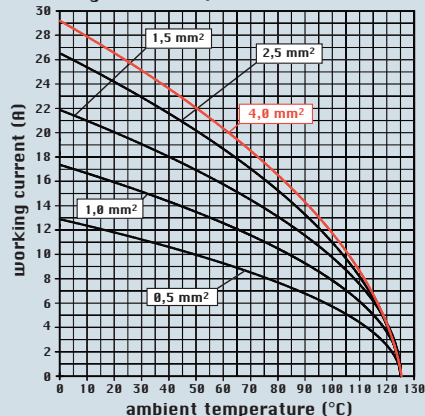
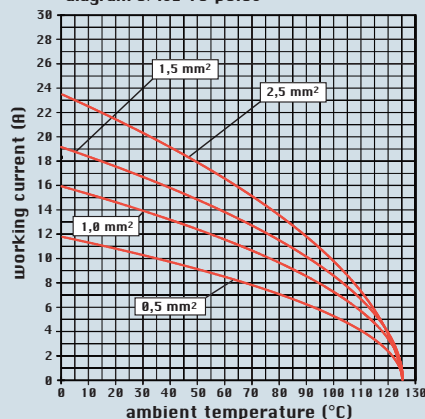


diagram CMSE 10 poles



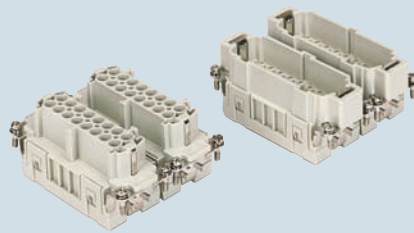
dimensions shown are not binding and may be changed without notice

enclosures:
size "77.62"

page:

C-TYPE IP65/IP66 244 - 247
aggressive environments 333

inserts,
crimp connections



16A crimp contacts
normal and for advanced opening
silver and gold plated



- for contact crimping instructions, please see the crimping tool section (16A contacts, CCF, CCM and CC...AN series) on pages 466, 470, 480, 482, 484, 486

description

part No.

part No.

part No.

part No.

without contacts (to be ordered separately)
female inserts, No. (1÷16) and (17÷32)
male inserts, No. (1÷16) and (17÷32)

CMCEF 06
CMCEM 06

CMCEF 06 N
CMCEM 06 N

16A female contacts

Area (mm²)	AWG	Configuration
0.14-0.37	26-22	three grooves
0.5	20	with no grooves
0.75	18	one groove (back side)
1	18	one groove
1.5	16	two grooves
2.5	14	three grooves
3	12	one wide groove
4	12	with no grooves

16A male contacts

Area (mm²)	AWG	Configuration
0.14-0.37	26-22	three grooves
0.5	20	with no grooves
0.75	18	one groove (back side)
1	18	one groove
1.5	16	two grooves
2.5	14	three grooves
3	12	one wide groove
4	12	with no grooves

16A male crimp contacts for advanced opening

Area (mm²)	AWG	Configuration
0.5	20	with no grooves
0.75	18	one groove (back side)
1	18	one groove
1.5	16	two grooves
2.5	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

- characteristics according to EN 61984:

16A 830V 8kV 3
16A 1000V 8kV 2
16A 720/1250V 8kV 2

- auxiliary contacts: 16A 500V 6kV 3

- UL, CSA, CCC, GOST certified

- rated voltage according to UL/CSA: 600V

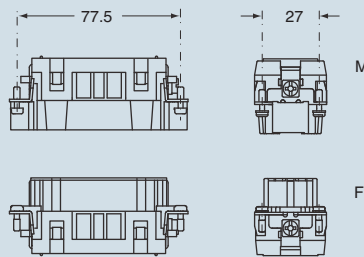
- insulation resistance: $\geq 10 \text{ G}\Omega$ - ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$

- are made of self-extinguishing thermoplastic resin UL 94 V0

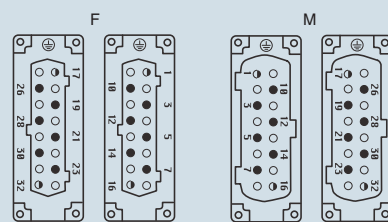
- mechanical life: ≥ 500 cycles- contact resistance: $\leq 1 \text{ m}\Omega$

- for maximum current load, see the following load curves inserts, for more information see page 497

dimensions in mm

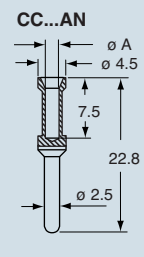
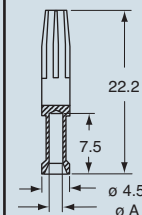
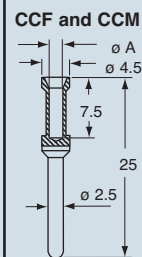


contacts side (front view)



the auxiliary contacts are in the forward position upon opening

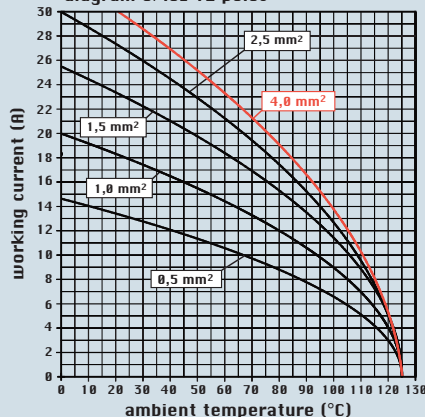
dimensions in mm



CCF, CCM and CC...AN contacts

conductor section	conductor slot	conductors stripping length
mm²	ø A (mm)	(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

diagram CMCE 12 poles



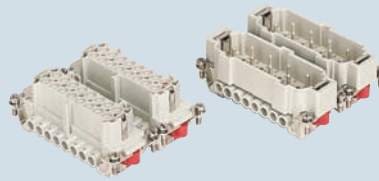
dimensions shown are not binding and may be changed without notice

enclosures:
size "77.62"

page:

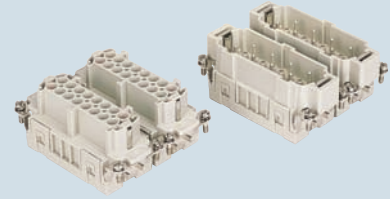
C-TYPE IP65/IP66 244 - 247
aggressive environments 333

inserts,
screw terminal connection



silver
plated
contacts

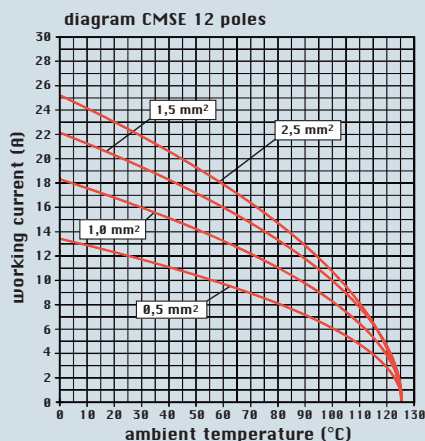
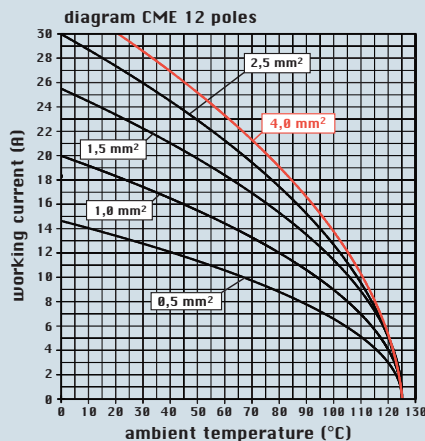
inserts,
spring terminal connection



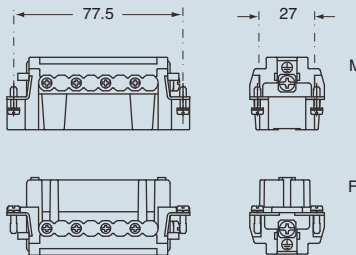
silver
plated
contacts

description	part No.	part No.	part No.	part No.
indirect, with plate 1) female inserts, No. (1-16) and (17-32) male inserts, No. (1-16) and (17-32)	CMEF 06 T CMEM 06 T	CMEF 06 TN CMEM 06 TN		
direct, without plate 2) female inserts, No. (1-16) and (17-32) male inserts, No. (1-16) and (17-32)	CMEF 06 TX CMEM 06 TX	CMEF 06 TXN CMEM 06 TXN		
female inserts, No. (1-16) and (17-32) male inserts, No. (1-16) and (17-32)			CMSEF 06 CMSEM 06	CMSEF 06 N CMSEM 06 N

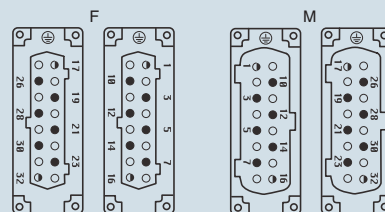
- characteristics according to EN 61984:
16A 830V 8kV 3
16A 1000V 8kV 2
16A 720/1250V 8kV 2
- auxiliary contacts: **16A 500V 6kV 3**
- UL, CSA, CCC, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 G Ω
- ambient temperature limit: -40 °C ... +125 °C
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 1 m Ω (CME) - ≤ 3 m Ω (CMSE)
- for maximum current load, see the following load curves inserts, for more information see page 497



dimensions in mm



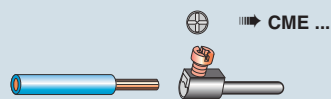
contacts side (front view)



- the auxiliary contacts are in the forward position upon opening

- 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 21 and 22

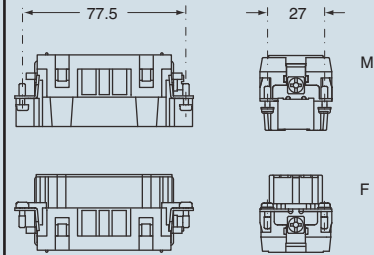
1) for non-prepared conductors



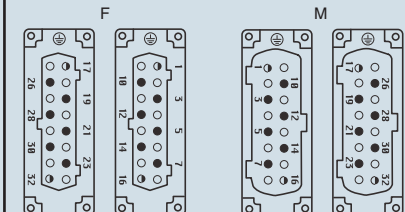
2) for bush terminal conductors



dimensions in mm



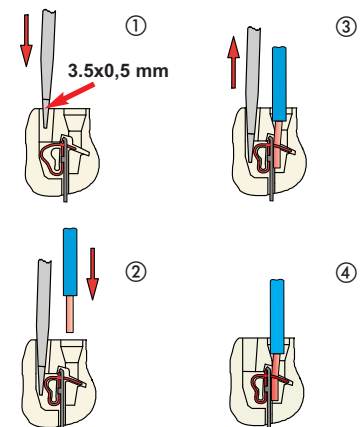
contacts side (front view)



- the auxiliary contacts are in the forward position upon opening

- inserts for section conductors:
0.14 - 2.5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm

connection with spring terminal



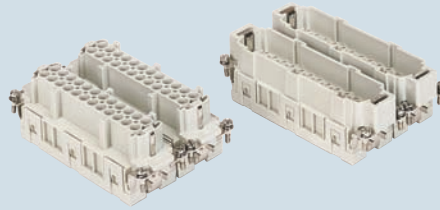
dimensions shown are not binding and may be changed without notice

enclosures:
size "104.62"

page:

C-TYPE IP65/IP66 248
aggressive environments 334

inserts,
crimp connections



16A crimp contacts
normal and for advanced opening
silver and gold plated



- for contact crimping instructions, please see the crimping tool section (16A contacts, CCF, CCM and CC...AN series) on pages 466, 470, 480, 482, 484, 486

description

part No.

part No.

part No.

part No.

without contacts (to be ordered separately)
female inserts, No. (1-24) and (25-48)
male inserts, No. (1-24) and (25-48)

CMCEF 10
CMCEM 10

CMCEF 10 N
CMCEM 10 N

16A female contacts

Area (mm²)	AWG	Configuration
0.14-0.37	26-22	three grooves
0.5	20	with no grooves
0.75	18	one groove (back side)
1	18	one groove
1.5	16	two grooves
2.5	14	three grooves
3	12	one wide groove
4	12	with no grooves

16A male contacts

Area (mm²)	AWG	Configuration
0.14-0.37	26-22	three grooves
0.5	20	with no grooves
0.75	18	one groove (back side)
1	18	one groove
1.5	16	two grooves
2.5	14	three grooves
3	12	one wide groove
4	12	with no grooves

16A male crimp contacts for advanced opening

Area (mm²)	AWG	Configuration
0.5	20	with no grooves
0.75	18	one groove (back side)
1	18	one groove
1.5	16	two grooves
2.5	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

- characteristics according to EN 61984:

16A 830V 8kV 3
16A 1000V 8kV 2
16A 720/1250V 8kV 2

- auxiliary contacts: 16A 500V 6kV 3

- UL, CSA, CCC, GOST certified

- rated voltage according to UL/CSA: 600V

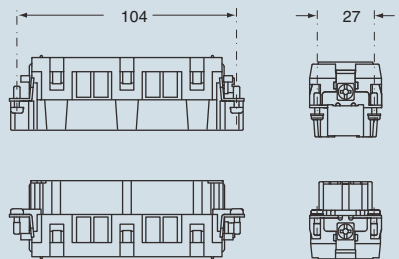
- insulation resistance: $\geq 10 \text{ G}\Omega$ - ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$

- are made of self-extinguishing thermoplastic resin UL 94 V0

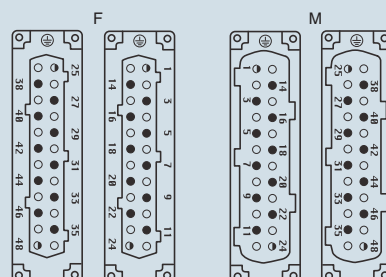
- mechanical life: ≥ 500 cycles- contact resistance: $\leq 1 \text{ m}\Omega$

- for maximum current load, see the following load curves inserts, for more information see page 497

dimensions in mm



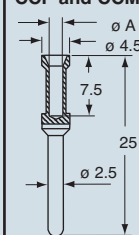
contacts side (front view)



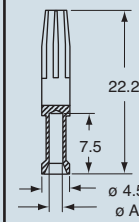
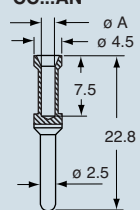
the auxiliary contacts are in the forward position upon opening

dimensions in mm

CCF and CCM



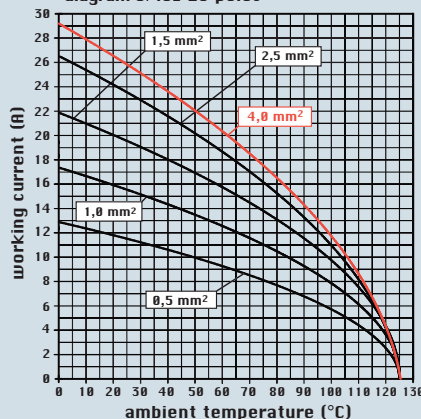
CC...AN



CCF, CCM and CC...AN contacts

conductor section	conductor slot	conductors stripping length
mm²	ø A (mm)	(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

diagram CMCE 20 poles



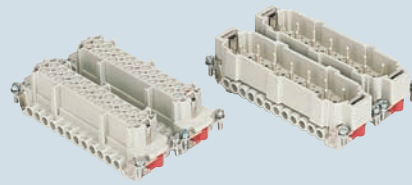
dimensions shown are not binding and may be changed without notice

enclosures:
size "104.62"

page:

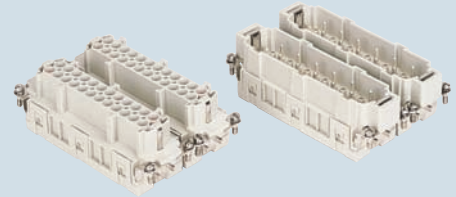
C-TYPE IP65/IP66 248
aggressive environments 334

inserts,
screw terminal connection



silver
plated
contacts

inserts,
spring terminal connection

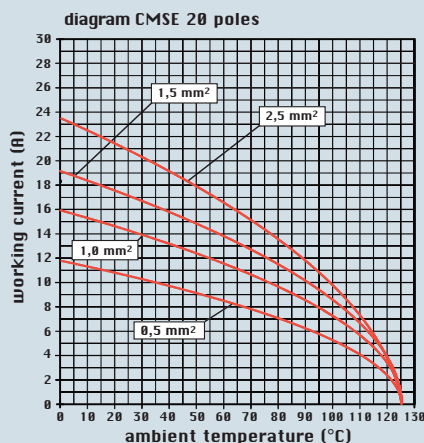
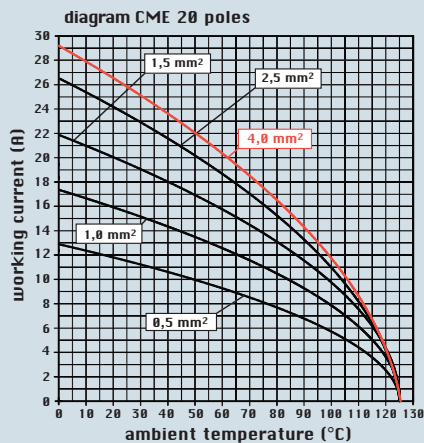


silver
plated
contacts

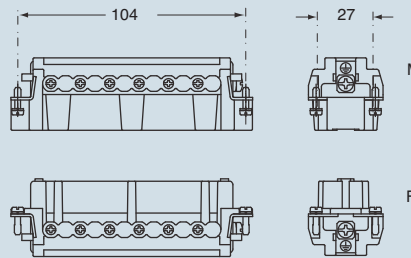
description	part No.	part No.	part No.	part No.
indirect, with plate 1) female inserts, No. (1-24) and (25-48) male inserts, No. (1-24) and (25-48)	CMEF 10 T CMEM 10 T	CMEF 10 TN CMEM 10 TN		
direct, without plate 2) female inserts, No. (1-24) and (25-48) male inserts, No. (1-24) and (25-48)	CMEF 10 TX CMEM 10 TX	CMEF 10 TXN CMEM 10 TXN		
female inserts, No. (1-24) and (25-48) male inserts, No. (1-24) and (25-48)			CMSEF 10 CMSEM 10	CMSEF 10 N CMSEM 10 N

- characteristics according to EN 61984:

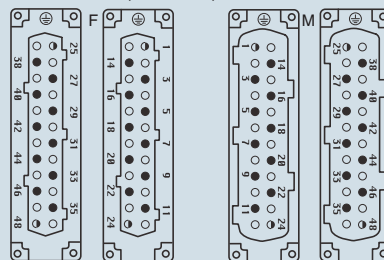
- 16A 830V 8kV 3**
- 16A 1000V 8kV 2**
- 16A 720/1250V 8kV 2**
- auxiliary contacts: **16A 500V 6kV 3**
- UL, CSA, CCC, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$ (CME) - $\leq 3 \text{ m}\Omega$ (CMSE)
- for maximum current load, see the following load curves inserts, for more information see page 497



dimensions in mm



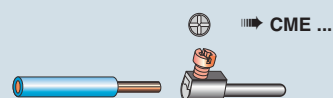
contacts side (front view)



the auxiliary contacts are in the forward position upon opening

- 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 21 and 22

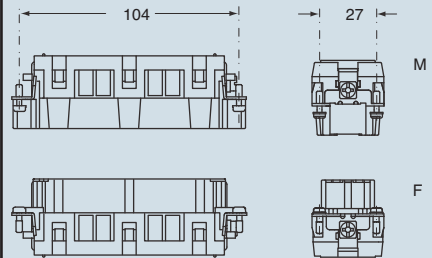
1) for non-prepared conductors



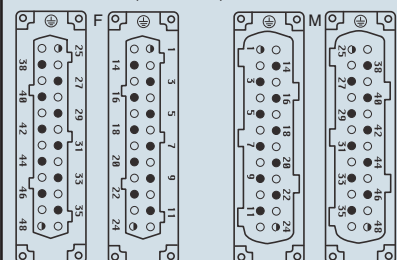
2) for bush terminal conductors



dimensions in mm



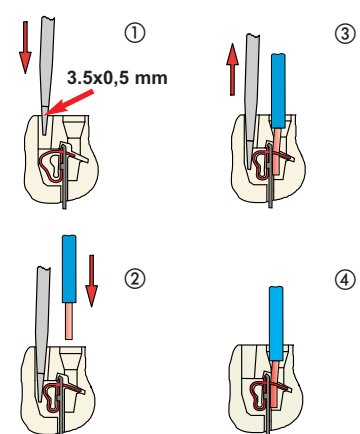
contacts side (front view)



the auxiliary contacts are in the forward position upon opening

- inserts for section conductors: 0.14 - 2.5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm

connection with spring terminal



dimensions shown are not binding and may be changed without notice

enclosures:
size "104.27"

page:

T-TYPE IP65 insulating 285
aggressive environments 332
insulated 830V 403 - 407

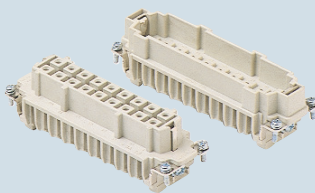
panel supports:

page:

COB 410 - 411

- for contact crimping instructions, please see the crimping tool section (16A contacts, CCF and CCM series) on pages 466, 470, 480, 482, 484, 486

inserts,
crimp connections



16A crimp contacts
silver and gold plated



description

part No.

part No.

part No.

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

CMCEF 16
CMCEM 16

16A female contacts

Area (mm²)	AWG	Configuration
0.14-0.37	26-22	three grooves
0.5	20	with no grooves
0.75	18	one groove (back side)
1	18	one groove
1.5	16	two grooves
2.5	14	three grooves
3	12	one wide groove
4	12	with no grooves

16A male contacts

Area (mm²)	AWG	Configuration
0.14-0.37	26-22	three grooves
0.5	20	with no grooves
0.75	18	one groove (back side)
1	18	one groove
1.5	16	two grooves
2.5	14	three grooves
3	12	one wide groove
4	12	with no 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

- characteristics according to EN 61984:

16A 400/690V 6kV 3

16A 1000V 8kV 2

16A 720/1250V 8kV 2

- auxiliary contacts: 16A 500V 6kV 3

- UL, CSA, CCC, GOST certified

- rated voltage according to UL/CSA: 600V

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

- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$

- are made of self-extinguishing thermoplastic resin UL 94 V0

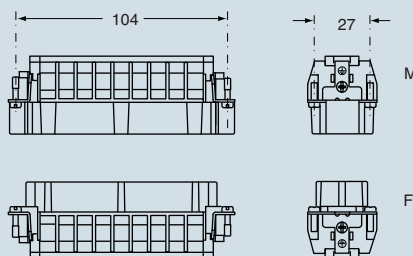
- mechanical life: ≥ 500 cycles

- contact resistance: $\leq 1 \text{ m}\Omega$

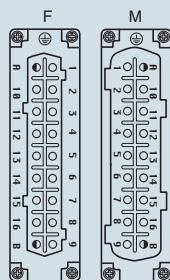
- inserts and enclosures for applications with temperatures up to 180°C , available on request; enclosures on page 357

- for maximum current load, see the following load curves inserts, for more information see page 497

dimensions in mm



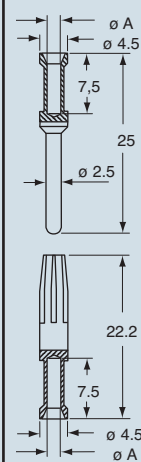
contacts side (front view)



the auxiliary contacts are in the forward position upon opening

- the auxiliary contacts are the same as power contacts: early opening is obtained by drawing back the seats

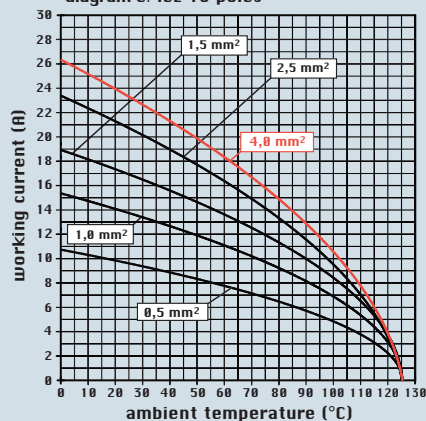
dimensions in mm



CCF and CCM contacts

conductor section	conductor slot	conductors stripping length
mm²	ø A (mm)	(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

diagram CMCE 16 poles



dimensions shown are not binding
and may be changed without notice

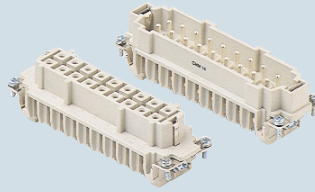
enclosures:
size "104.27"

page:

T-TYPE IP65 insulating 285
aggressive environments 332
insulated 830V 403 - 407

panel supports: page:
COB 410 - 411

inserts,
screw terminal connection



silver
plated
contacts

description

part No.

female inserts with female contacts
male inserts with male contacts

CMEF 16
CMEM 16

- characteristics according to EN 61984:

16A 400/690V 6kV 3

16A 1000V 8kV 2

16A 720/1250V 8kV 2

- auxiliary contacts: **16A 500V 6kV 3**

- UL, CSA, CCC, GOST certified

- rated voltage according to UL/CSA: 600V

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

- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$

- are made of self-extinguishing thermoplastic resin
UL 94 V0

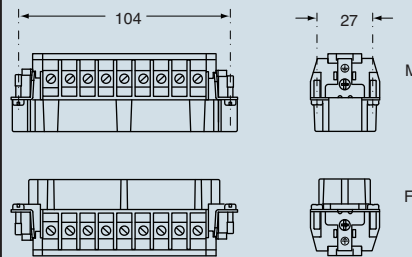
- mechanical life: ≥ 500 cycles

- contact resistance: $\leq 1 \text{ m}\Omega$

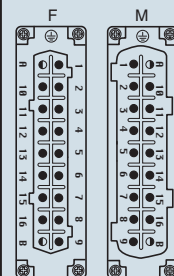
- inserts and enclosures for applications with
temperatures up to 180°C , available on request;
enclosures on page 357

- for maximum current load, see the following load
curves inserts, for more information see page 497

dimensions in mm



contacts side (front view)



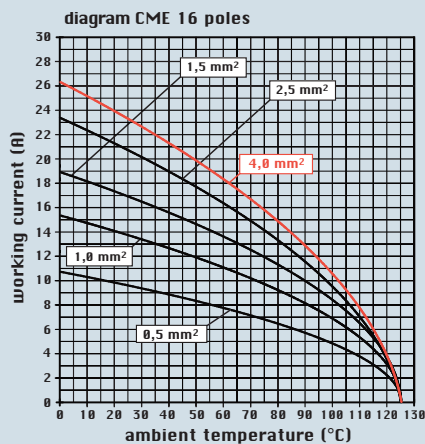
the auxiliary contacts are in the forward
position upon opening

- inserts with plate, for section conductors:

0.75 - 2.5 mm² - AWG 18 - 14

- conductors stripping length: 7 mm

- terminal screw torque: 0.5 Nm (4.4 lb.in), for more
information see page 21 and 22



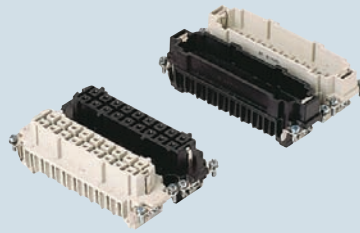
dimensions shown are not binding
and may be changed without notice

enclosures:
size "104.62"

page:

C-TYPE IP65/IP66 248
aggressive environments 334

inserts,
crimp connections



16A crimp contacts
silver and gold plated



- for contact crimping instructions, please see the crimping tool section (16A contacts, CCF and CCM series) on pages 466, 470, 480, 482, 484, 486

description

part No.

part No.

part No.

part No.

without contacts (to be ordered separately)
female inserts, white and black
male inserts, white and black

CMCEF 16
CMCEM 16

CMCEF 16 N
CMCEM 16 N

16A female contacts

0.14-0.37 mm ²	AWG 26-22	three grooves
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	three grooves
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

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

- characteristics according to EN 61984:

16A 400/690V 6kV 3

16A 1000V 8kV 2

16A 720/1250V 8kV 2

- auxiliary contacts: **16A 500V 6kV 3**

- UL, CSA, CCC, GOST certified

- rated voltage according to UL/CSA: 600V

- insulation resistance: ≥ 10 G Ω

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

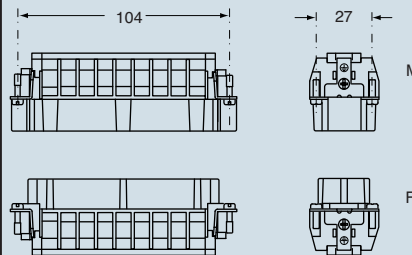
- are made of self-extinguishing thermoplastic resin UL 94 V0

- mechanical life: ≥ 500 cycles

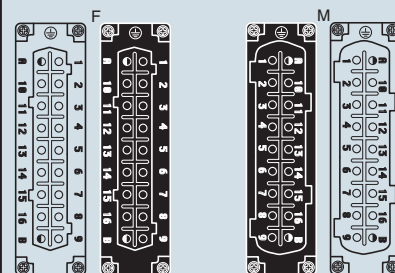
- contact resistance: ≤ 1 m Ω

- for maximum current load, see the following load curves inserts, for more information see page 497

dimensions in mm



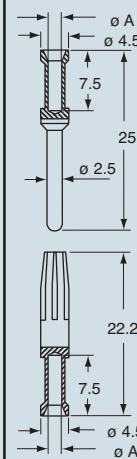
contacts side (front view)



the auxiliary contacts are in the forward position upon opening

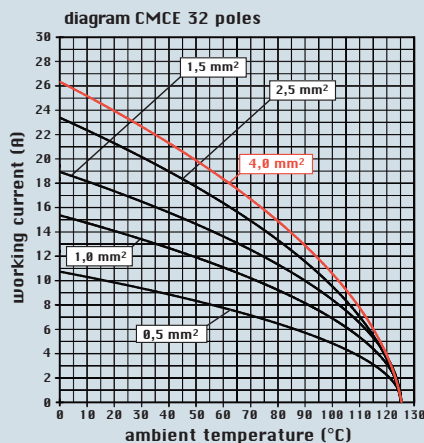
- the auxiliary contacts are the same as power contacts: early opening is obtained by drawing back the seats

dimensions in mm



CCF and CCM contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(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



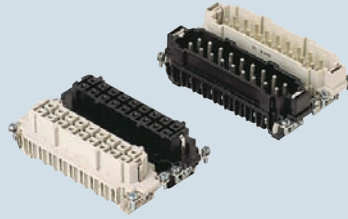
dimensions shown are not binding
and may be changed without notice

enclosures:
size "104.62"

page:

C-TYPE IP65/IP66 248
aggressive environments 334

inserts,
screw terminal connection



silver
plated
contacts

description	part No.	part No.
female inserts, white and black	CMEF 16	CMEF 16 N
male inserts, white and black	CMEM 16	CMEM 16 N

- characteristics according to EN 61984:

16A 400/690V 6kV 3

16A 1000V 8kV 2

16A 720/1250V 8kV 2

- auxiliary contacts: **16A 500V 6kV 3**

- UL, CSA, CCC, GOST certified

- rated voltage according to UL/CSA: 600V

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

- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$

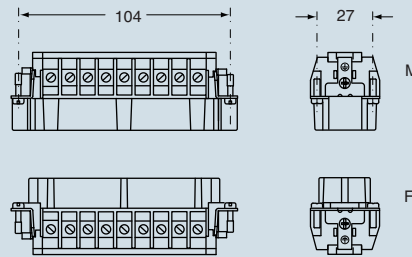
- are made of self-extinguishing thermoplastic resin
UL 94 V0

- mechanical life: ≥ 500 cycles

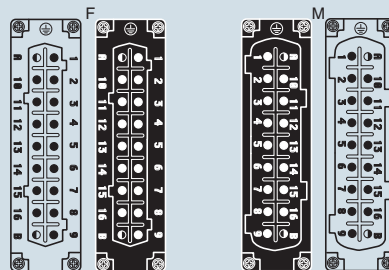
- contact resistance: $\leq 1 \text{ m}\Omega$

- for maximum current load, see the following load
curves inserts, for more information see page 497

dimensions in mm



contacts side (front view)



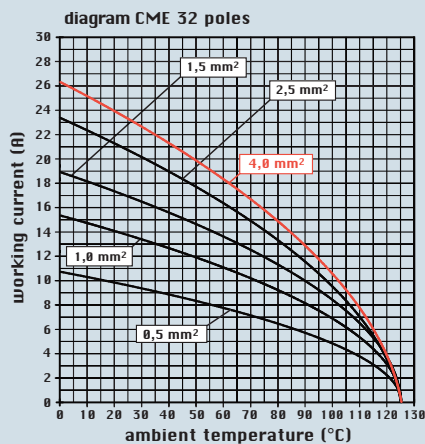
① the auxiliary contacts are in the forward
position upon opening

- inserts with plate, for section conductors:

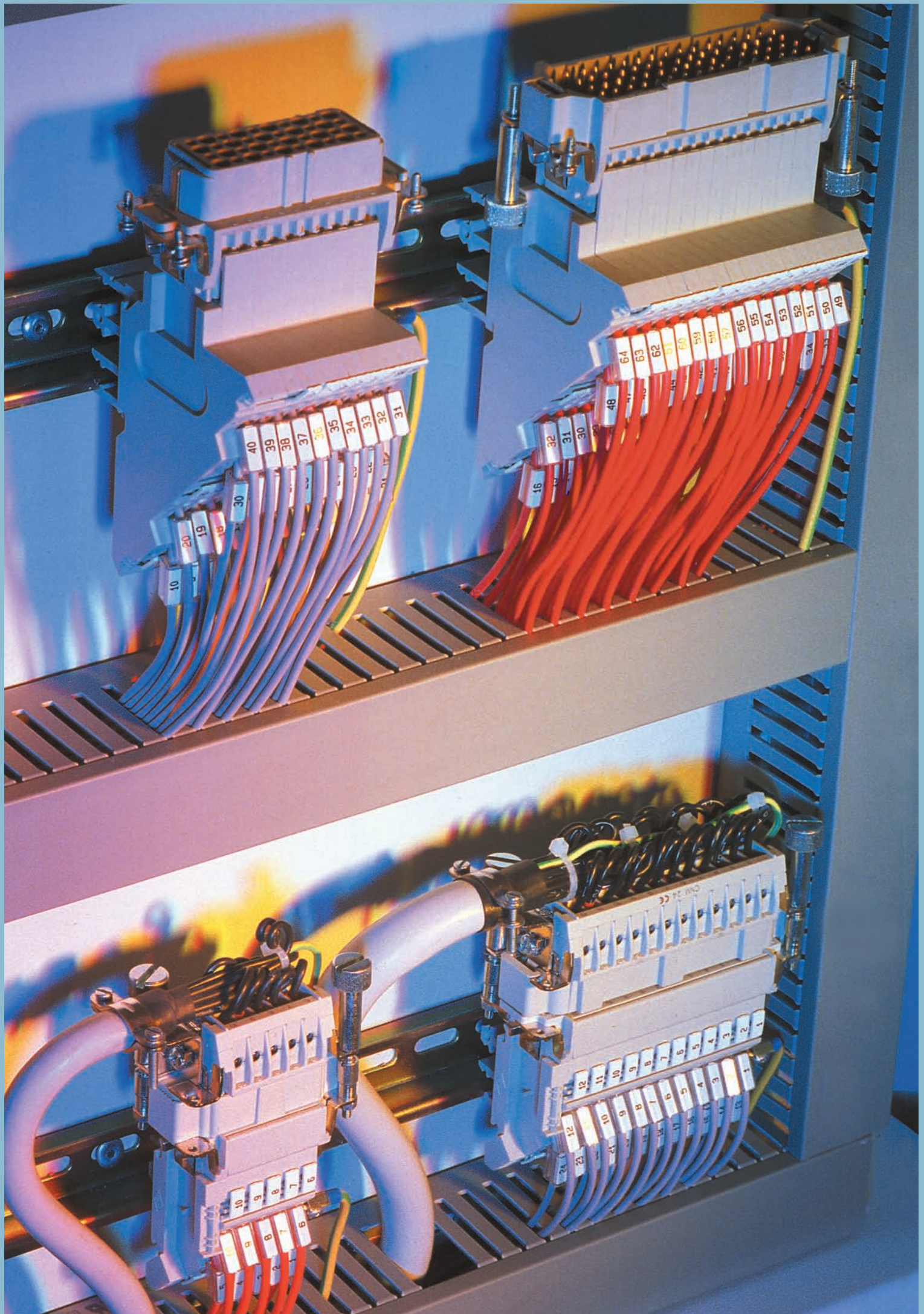
0.75 - 2.5 mm² - AWG 18 - 14

- conductors stripping length: 7 mm

- terminal screw torque: 0.5 Nm (4.4 lb.in), for more
information see page 21 and 22



dimensions shown are not binding
and may be changed without notice



enclosures:

size "77.27"

page:

C-TYPE IP65/IP66 228 - 234

C7 IP67 stainless steel lever 256

V-TYPE IP65/IP66

stainless steel lever 268 - 271

T-TYPE IP65 insulating 284

JEI zinc-plated steel lever 292 - 293

BIG hoods 312 - 315

aggressive environments 331

EMC 350

central lever 364 - 365

IP68 382 - 385

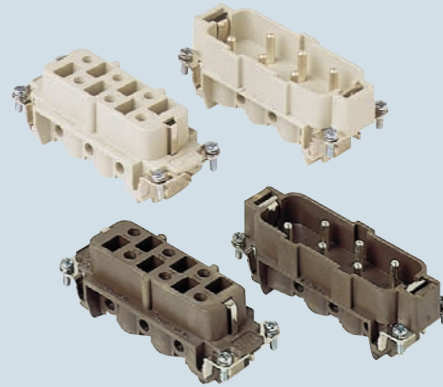
for 180 °C 356

panel supports:

page:

COB 410 - 411

inserts,
screw terminal connection



description

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

- UL, CSA, CCC, GOST 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)

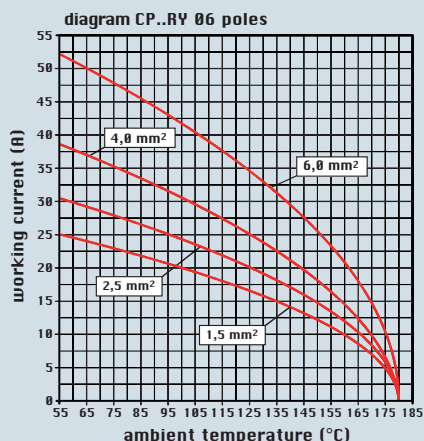
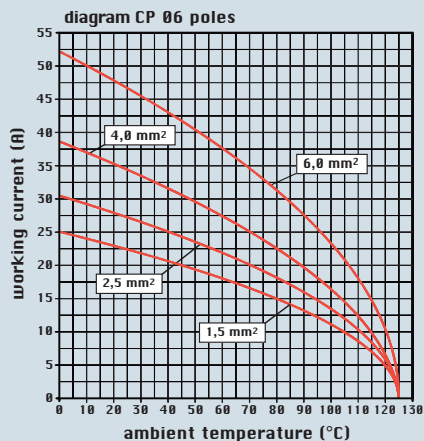
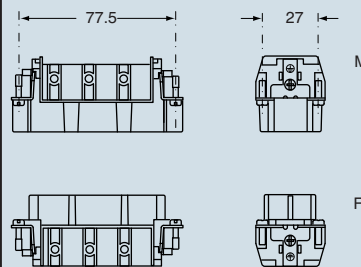
- are made of self-extinguishing thermoplastic resin
UL 94 V0

- mechanical life: ≥ 500 cycles

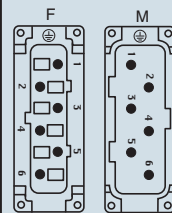
- contact resistance: $\leq 0.5 \text{ m}\Omega$

- for maximum current load, see the following
load curves inserts, for more information see
page 498

dimensions in mm



contacts side (front view)



- inserts with plate, for section conductors:

1.50 - 6 mm² - AWG 16 - 10

- conductors stripping length: 10.5 mm

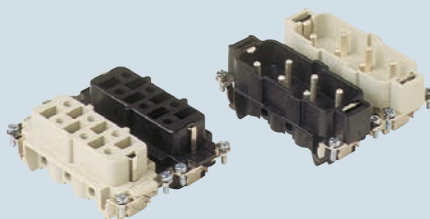
- terminal screw torque: 1.2 Nm (10.7 lb.in), for more
information see page 21 and 22

enclosures:
size "77.62"

page:

C-TYPE IP65/IP66 244 - 247
aggressive environments 333

inserts,
screw terminal connection



description

part No.

part No.

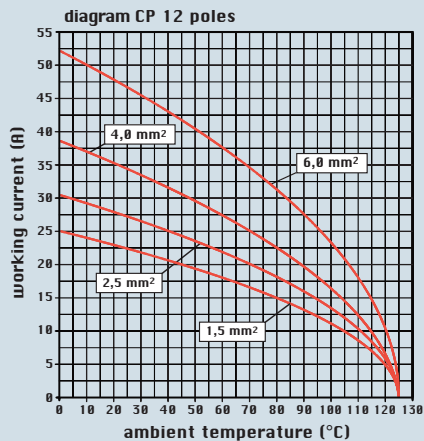
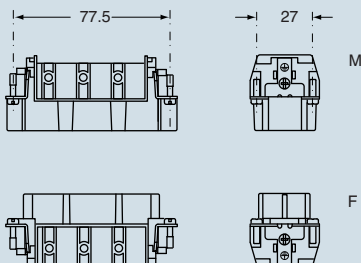
indirect, with plate
female inserts No. (1-6), white and black
male inserts No. (1-6), white and black

CPF 06
CPM 06

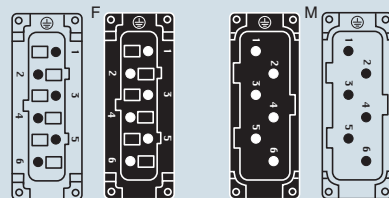
CPF 06 N
CPM 06 N

- characteristics according to EN 61984:
35A 400/690V 6kV 3
- UL, CSA, CCC, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 0.5 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 498

dimensions in mm



contacts side (front view)



- inserts with plate, for section conductors:
1.50 - 6 mm² - AWG 16 - 10
- conductors stripping length: 10.5 mm
- terminal screw torque: 1.2 Nm (10.7 lb.in), for more information see page 21 and 22

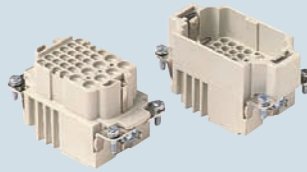
dimensions shown are not binding
and may be changed without notice

enclosures:
size "57.27" page:

C-TYPE IP65/IP66	222 - 227
C7 IP67 stainless steel lever	255
V-TYPE IP65/IP66 stainless steel lever	264 - 267
T-TYPE IP65 insulating	283
JEI zinc-plated steel lever	290 - 291
BIG hoods	308 - 311
aggressive environments	330
EMC	349
central lever	362 - 363
IP68	378 - 381

panel supports: page:
COB

inserts,
crimp connections



16A and 10A crimp contacts
normal and for advanced opening
silver and gold plated



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

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

CXF 8/24
CXM 8/24

16A female contacts		
0.14-0.37 mm ²	AWG 26-22	three grooves
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	three grooves
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

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

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

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

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

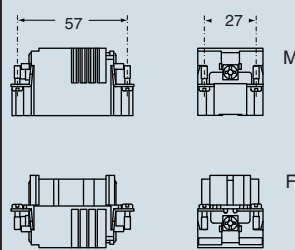
CDMD 0.3
CDMD 0.5
CDMD 0.7
CDMD 1.0
CDMD 1.5
CDMD 2.5

- characteristics according to EN 61984:

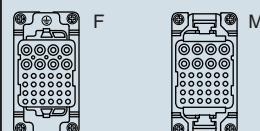
16A 230/400V 4kV 3
16A 400V 4kV 2
10A 160V 2,5kV 3
10A 250V 4kV 2

- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40 \text{ }^{\circ}\text{C} \dots +125 \text{ }^{\circ}\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$ (8 poles)
 $\leq 3 \text{ m}\Omega$ (24 poles)
- for maximum current load, see the insert load curve section on page 498
- for contact crimping, see the crimp tool section (16A contacts CCF, CCM, CC...AN series and 10A contacts CDF, CDM series) on pages 466, 470, 480, 482, 484, 486
- PCBs interface, see article CIF 2.4 (10A contacts)

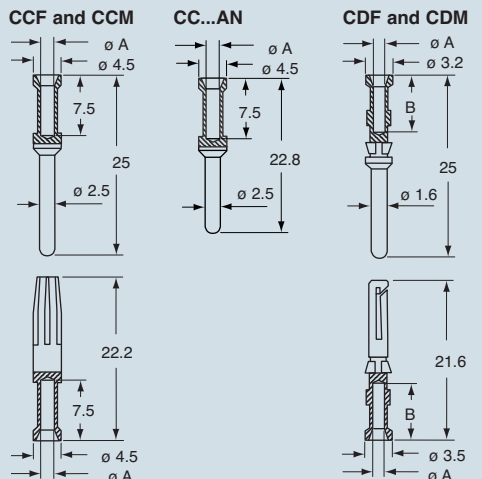
dimensions in mm



contacts side (front view)



dimensions in mm



- characteristics for contacts:

CCF, CCM and CC...AN see page 69
CDF and CDM see page 152

dimensions shown are not binding
and may be changed without notice

enclosures:

size "77.27"

page:

C-TYPE IP65/IP66	228 - 234
C7 IP67 stainless steel lever	256
V-TYPE IP65/IP66 stainless steel lever	268 - 271
T-TYPE IP65 insulating	284
JEI zinc-plated steel lever	292 - 293
BIG hoods	312 - 315
aggressive environments	331
EMC	350
central lever	364 - 365
IP68	382 - 385

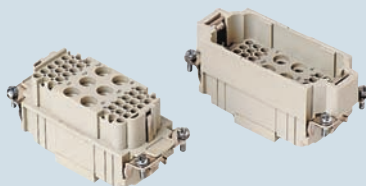
panel supports:

page:

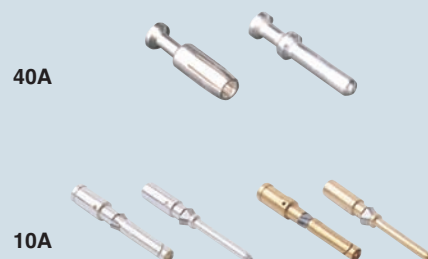
COB	410 - 411
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- PCBs interface, see article CIF 2.4 (10A contacts)

inserts,
crimp connections



40A and 10A crimp contacts
silver and gold plated

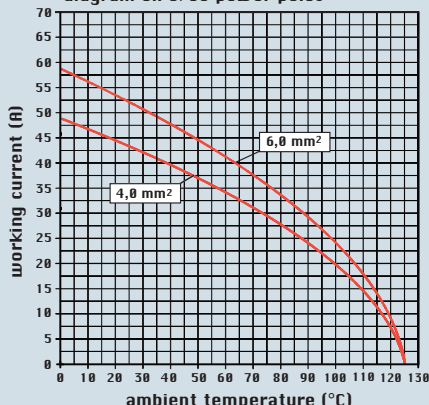


description	part No.	part No.	part No.
without contacts (to be ordered separately) female inserts for female contacts male inserts for male contacts	CXF 6/36 CXM 6/36		
40A female contacts 1.5 mm ² AWG 16 2.5 mm ² AWG 14 4 mm ² AWG 12 6 mm ² AWG 10		CXFA 1.5 CXFA 2.5 CXFA 4.0 CXFA 6.0	silver plated
40A male contacts 1.5 mm ² AWG 16 2.5 mm ² AWG 14 4 mm ² AWG 12 6 mm ² AWG 10		CXMA 1.5 CXMA 2.5 CXMA 4.0 CXMA 6.0	
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
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	gold plated

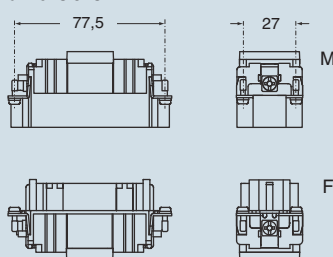
- characteristics according to EN 61984:

- 40A 690V 8kV 3
- 10A 160V 2.5kV 3
- 10A 250V 4kV 2
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 0,3 \text{ m}\Omega$ (6 poles)
 $\leq 1 \text{ m}\Omega$ (36 poles)
- for maximum current load, see the following load curves inserts, for more information see page 498

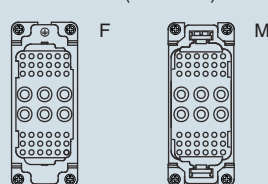
diagram CX 6/36 power poles



dimensions in mm



contacts side (front view)

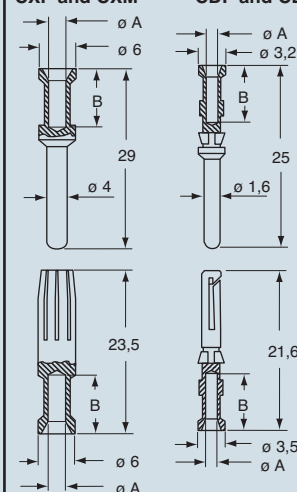


CXF and CXM contacts

conductor section mm ²	conductor slot ϕA (mm)	conductors stripping length B (mm)
1.5	1.8	9
2.5	2.2	9
4	2.85	9.6
6	3.5	9.6

dimensions in mm

CXF and CXM CDF and CDM



for contact crimping instructions, please see the crimping tool section (40A contacts CXF, CXM series and 10A contacts CDF, CDM series) on pages 466, 468, 470, 480, 482, 484, 486

CDF and CDM contacts

conductor section mm ²	conductor slot ϕA (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

dimensions shown are not binding and may be changed without notice

boîtiers utilisables :

gabarit "77.27" page :

C-TYPE IP65/IP66..... 228 - 234

C7 IP67 stainless steel lever 256

V-TYPE IP65/IP66 stainless steel lever 268 - 271

T-TYPE IP65 insulating 284

JEI zinc-plated steel lever 292 - 293

BIG hoods 312 - 315

aggressive environments..... 331

EMC 350

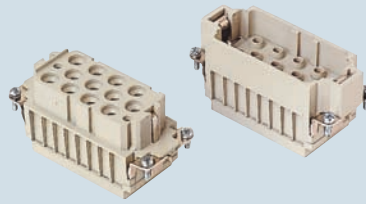
central lever 364 - 365

IP68 382 - 385

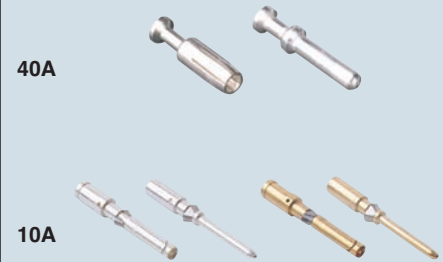
panel supports: page:

COB 410 - 411

**inserts,
crimp connections**



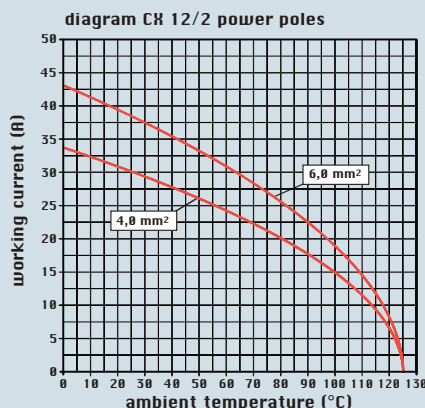
**40A and 10A crimp contacts
silver and gold plated**



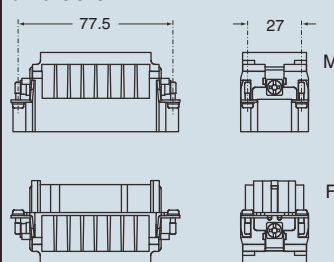
description	part No.	part No.	part No.
without contacts (to be ordered separately) female inserts for female contacts male inserts for male contacts	CXF 12/2 CXM 12/2		
40A female contacts 1.5 mm ² AWG 16 2.5 mm ² AWG 14 4 mm ² AWG 12 6 mm ² AWG 10		CXFA 1.5 CXFA 2.5 CXFA 4.0 CXFA 6.0	silver plated
40A male contacts 1.5 mm ² AWG 16 2.5 mm ² AWG 14 4 mm ² AWG 12 6 mm ² AWG 10		CXMA 1.5 CXMA 2.5 CXMA 4.0 CXMA 6.0	silver plated
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
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	gold plated
		CDMD 0.3 CDMD 0.5 CDMD 0.7 CDMD 1.0 CDMD 1.5 CDMD 2.5	gold plated

- characteristics according to EN 61984:

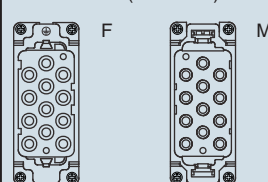
- 40A 690V 8kV 3**
- 10A 250V 4kV 3**
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 0,3 \text{ m}\Omega$ (6 poles)
 $\leq 1 \text{ m}\Omega$ (36 poles)
- for maximum current load, see the following load curves inserts, for more information see page 498



dimensions in mm



contacts side (front view)

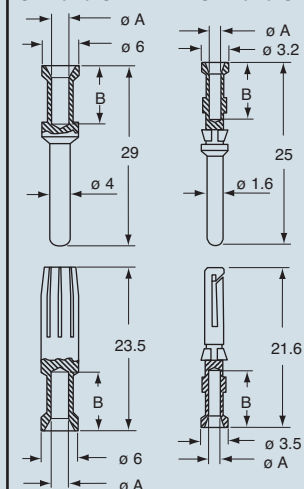


CXF and CXM contacts

conductor section mm ²	conductor slot ø A (mm)	conductors stripping length B (mm)
1.5	1.8	9
2.5	2.2	9
4	2.85	9.6
6	3.5	9.6

dimensions in mm

CXF and CXM CDF and CDM



for contact crimping instructions, please see the crimping tool section (40A contacts CXF, CXM series and 10A contacts CDF, CDM series) on pages 466, 468, 470, 480, 482, 484, 486

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

enclosures:

size "77.27"

page:

C-TYPE IP65/IP66 228 - 234

C7 IP67 stainless steel lever 256

V-TYPE IP65/IP66 stainless steel lever 268 - 271

T-TYPE IP65 insulating 284

JEI zinc-plated steel lever 292 - 293

BIG hoods 312 - 315

aggressive environments 331

EMC 350

central lever 364 - 365

IP68 382 - 385

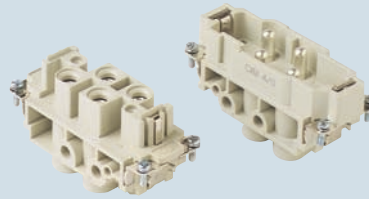
panel supports:

page:

COB 410 - 411

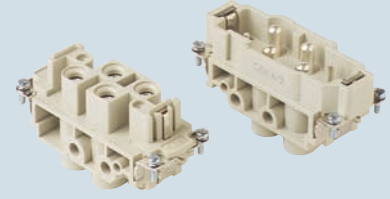
inserts,

screw terminal connection



inserts,

screw terminal connection



description

part No.

part No.

female inserts with female contacts
male inserts with male contacts

CXF 4/0
CXM 4/0

female inserts with female contacts
male inserts with male contacts

CXF 4/2
CXM 4/2

- characteristics according to EN 61984:

80A 690V 8kV 3

16A 400V 6kV 3

16A 400/690V 6kV 2

- UL, CSA, CCC, GL, GOST certified

- rated voltage according to UL/CSA: 600V

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

- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$

- are made of self-extinguishing thermoplastic resin UL 94 V0

- mechanical life: ≥ 500 cycles

- contact resistance: $\leq 0,3 \text{ m}\Omega$ (4 poles)

$\leq 1 \text{ m}\Omega$ (2 poles)

- inserts for applications with temperatures up to

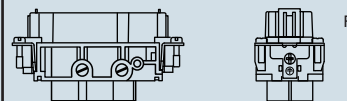
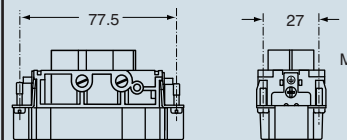
180 °C, available on request

- for maximum current load, see the following

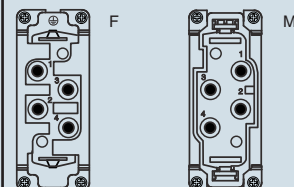
load curves inserts, for more information see

page 498 and 499

dimensions in mm



contacts side (front view)



80A contacts

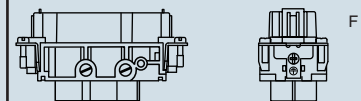
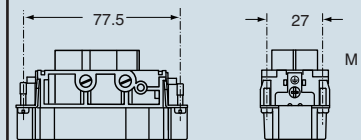
- without plate for section conductors:

4 - 16 mm² - AWG 12 - 6

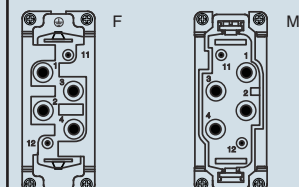
- conductors stripping length: 14 mm

- terminal screw torque: 2.5 Nm (22.1 lb.in), for more information see page 21 and 22

dimensions in mm



contacts side (front view)



80A contacts

- without plate for section conductors:

4 - 16 mm² - AWG 12 - 6

- conductors stripping length: 14 mm

- terminal screw torque: 2.5 Nm (22.1 lb.in), for more information see page 21 and 22

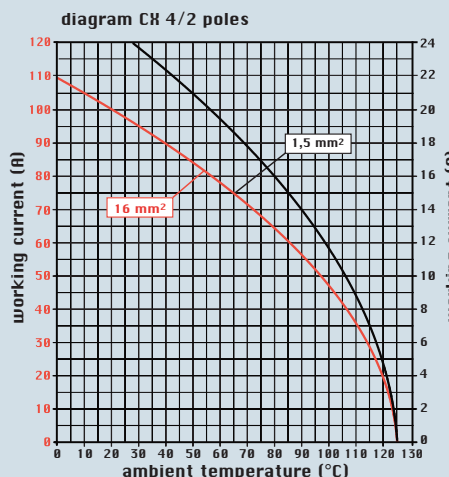
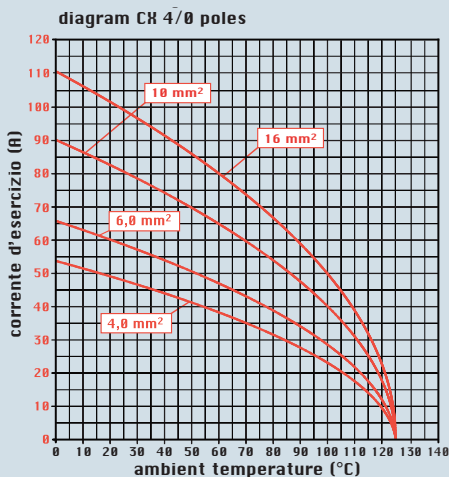
16A contacts

- 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 21 and 22



dimensions shown are not binding and may be changed without notice

enclosures:

size "104.27"

page:

C-TYPE IP65/IP66 236 - 243

C7 IP67 stainless steel lever 257

V-TYPE IP65/IP66

stainless steel lever 272 - 275

T-TYPE IP65 insulating 285

JEI zinc-plated steel lever 294 - 295

BIG hoods 316 - 319

aggressive environments 332

EMC 351

central lever 366 - 368

IP68 386 - 389

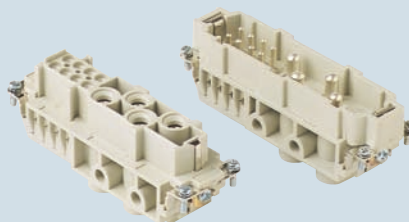
panel supports:

page:

COB 410 - 411

inserts,

screw terminal connection



description

part No.

female inserts with female contacts

CXF 4/8

male inserts with male contacts

CXM 4/8

- characteristics according to EN 61984:

80A 400V 6kV 3

80A 400/690V 6kV 2

16A 230/400V 4kV 3

16A 400V 4kV 2

- UL, CSA, CCC, GL, GOST certified

- rated voltage according to UL/CSA: 600V

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

- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$

- are made of self-extinguishing thermoplastic resin

UL 94 V0

- mechanical life: ≥ 500 cycles

- contact resistance: $\leq 0,3 \text{ m}\Omega$ (4 poles)

$\leq 1 \text{ m}\Omega$ (8 poles)

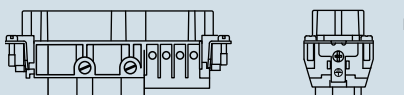
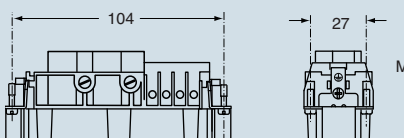
- inserts for applications with temperatures up to

180°C , available on request

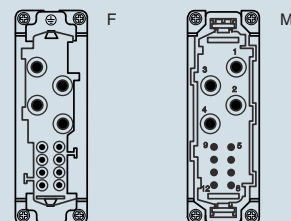
- for maximum current load, see the following load

curves inserts, for more information see page 499

dimensions in mm



contacts side (front view)



80A contacts

- without plate for section conductors:

4 - 16 mm^2 - AWG 12 - 6

- conductors stripping length: 14 mm

- terminal screw torque: 2.5 Nm (22.1 lb.in), for more

information see page 21 and 22

16A contacts

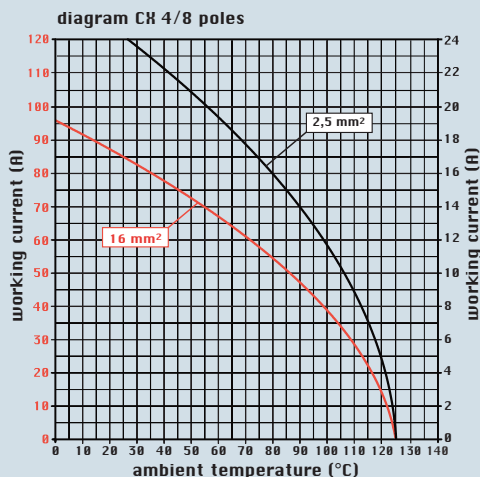
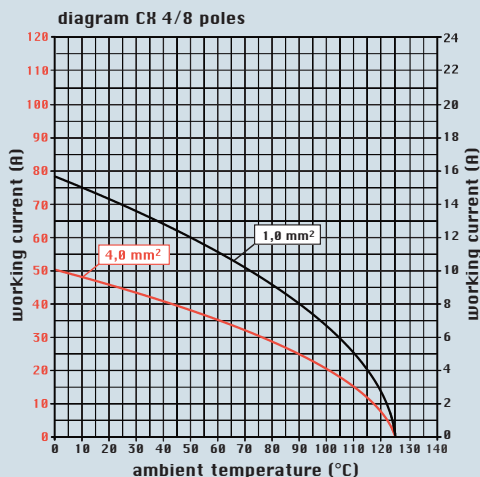
- with plate for section conductors

0,75 - $2,5 \text{ mm}^2$ - AWG 18 - 14

- conductors stripping length: 7 mm

- terminal screw torque: 0.5 Nm (4.4 lb.in), for more

information see page 21 and 22



dimensions shown are not binding and may be changed without notice