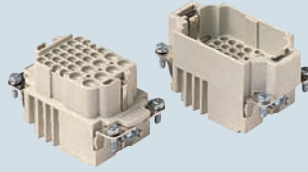


enclosures:  
size "57.27" page:

**C-TYPE IP65/IP66** ..... 244 - 249  
**C7 IP67, two levers** ..... 275  
**V-TYPE IP65/IP66, single lever** 281/288 - 291  
**BIG hoods** ..... 308 - 311  
**T-TYPE IP65 insulating** ..... 328 - 329  
**T-TYPE / W IP66 insulating** ..... 338 - 339  
**HYGIENIC T-TYPE / H IP66/IP69** ..... 352 - 353  
**HYGIENIC T-TYPE / C IP66/IP69, -50 °C** 360 - 361  
**W-TYPE for aggressive environments** ..... 374  
**EMC** ..... 393  
**central lever** ..... 406 - 407  
**IP68** ..... 424 - 427  
**LS-TYPE** ..... 452 - 453

panel supports: page:  
**COB** ..... 462 - 463

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

|                      |                    |          |          |
|----------------------|--------------------|----------|----------|
| <b>silver plated</b> | CCFA 0.3           | CCFD 0.3 |          |
|                      | CCFA 0.5           | CCFD 0.5 |          |
|                      | CCFA 0.7           | CCFD 0.7 |          |
|                      | CCFA 1.0           | CCFD 1.0 |          |
|                      | CCFA 1.5           | CCFD 1.5 |          |
|                      | CCFA 2.5           | CCFD 2.5 |          |
|                      | CCFA 3.0           | CCFD 3.0 |          |
|                      | CCFA 4.0           | CCFD 4.0 |          |
|                      | <b>gold plated</b> | CCMA 0.3 | CCMD 0.3 |
|                      |                    | CCMA 0.5 | CCMD 0.5 |
| CCMA 0.7             |                    | CCMD 0.7 |          |
| CCMA 1.0             |                    | CCMD 1.0 |          |
| CCMA 1.5             |                    | CCMD 1.5 |          |
| CCMA 2.5             |                    | CCMD 2.5 |          |
| CCMA 3.0             |                    | CCMD 3.0 |          |
| CCMA 4.0             |                    | CCMD 4.0 |          |
| CC 0.5 AN            |                    |          |          |
| CC 0.7 AN            |                    |          |          |
| CC 1.0 AN            |                    |          |          |
| CC 1.5 AN            |                    |          |          |
| CC 2.5 AN            |                    |          |          |

**16A male contacts**

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

|                      |                    |          |          |
|----------------------|--------------------|----------|----------|
| <b>silver plated</b> | CDFA 0.3           | CDFD 0.3 |          |
|                      | CDFA 0.5           | CDFD 0.5 |          |
|                      | CDFA 0.7           | CDFD 0.7 |          |
|                      | CDFA 1.0           | CDFD 1.0 |          |
|                      | CDFA 1.5           | CDFD 1.5 |          |
|                      | CDFA 2.5           | CDFD 2.5 |          |
|                      | <b>gold plated</b> | CDMA 0.3 | CDMD 0.3 |
|                      |                    | CDMA 0.5 | CDMD 0.5 |
|                      |                    | CDMA 0.7 | CDMD 0.7 |
|                      |                    | CDMA 1.0 | CDMD 1.0 |
| CDMA 1.5             |                    | CDMD 1.5 |          |
| CDMA 2.5             |                    | CDMD 2.5 |          |

**16A male crimp contacts for advanced opening**

|                      |        |                        |
|----------------------|--------|------------------------|
| 0,5 mm <sup>2</sup>  | AWG 20 | with no grooves        |
| 0,75 mm <sup>2</sup> | AWG 18 | one groove (back side) |
| 1 mm <sup>2</sup>    | AWG 18 | one groove             |
| 1,5 mm <sup>2</sup>  | AWG 16 | two grooves            |
| 2,5 mm <sup>2</sup>  | AWG 14 | three grooves          |

**10A female contacts**

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

|                      |          |          |
|----------------------|----------|----------|
| <b>silver plated</b> | CDMA 0.3 | CDMD 0.3 |
|                      | CDMA 0.5 | CDMD 0.5 |
|                      | CDMA 0.7 | CDMD 0.7 |
|                      | CDMA 1.0 | CDMD 1.0 |
|                      | CDMA 1.5 | CDMD 1.5 |
|                      | CDMA 2.5 | CDMD 2.5 |
| <b>gold plated</b>   | CDMA 0.3 | CDMD 0.3 |
|                      | CDMA 0.5 | CDMD 0.5 |
|                      | CDMA 0.7 | CDMD 0.7 |
|                      | CDMA 1.0 | CDMD 1.0 |
|                      | CDMA 1.5 | CDMD 1.5 |
|                      | CDMA 2.5 | CDMD 2.5 |

**10A male contacts**

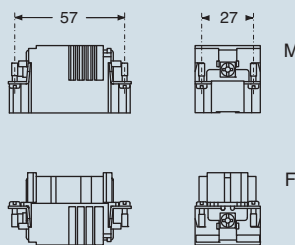
|                           |           |                      |
|---------------------------|-----------|----------------------|
| 0,14-0,37 mm <sup>2</sup> | AWG 26-22 | identification No. 1 |
| 0,5 mm <sup>2</sup>       | AWG 20    | identification No. 2 |
| 0,75 mm <sup>2</sup>      | AWG 18    |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

- characteristics according to EN 61984:  
**16A 230/400V 4kV 3**  
**16A 400V 4kV 2**  
**10A 160V 2,5kV 3**  
**10A 250V 4kV 2**

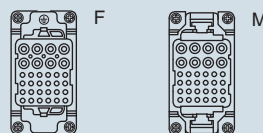
- UL, CSA, CCC \*, GL, EAC certified
- \* CQC certification being applied for
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 1 mΩ (8 poles)  
 ≤ 3 mΩ (24 poles)
- for maximum current load, see the insert load curve section on page 563
- for contact crimping, see the crimp tool section (16A contacts CCF, CCM, CC...AN series and 10A contacts CDF, CDM series) on pages 534, 538, 544, 546, 548
- PCBs interface, see article CIF 2.4 (10A contacts)

dimensions shown are not binding  
and may be changed without notice

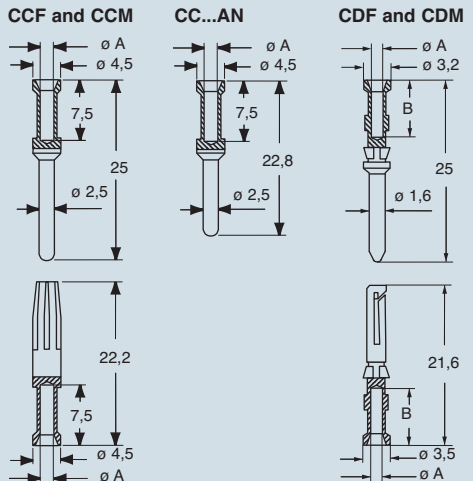
dimensions in mm



contacts side (front view)



dimensions in mm



- characteristics for contacts:  
**CCF, CCM and CC...AN** see page 167  
**CDF and CDM** see page 168

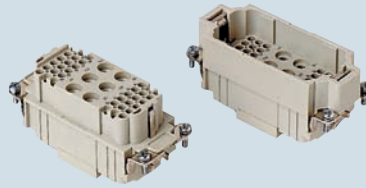
enclosures:  
size "77.27" page:

**C-TYPE IP65/IP66** ..... 250 - 256  
**C7 IP67, two levers** ..... 276  
**V-TYPE IP65/IP66, single lever** 282/292 - 295  
**BIG hoods** ..... 312 - 315  
**T-TYPE IP65 insulating** ..... 330 - 331  
**T-TYPE / W IP66 insulating** ..... 340 - 341  
**HYGIENIC T-TYPE / H IP66/IP69** ..... 354 - 355  
**HYGIENIC T-TYPE / C IP66/IP69, -50 °C** 362 - 363  
**W-TYPE for aggressive environments** ..... 375  
**EMC** ..... 394  
**central lever** ..... 408 - 409  
**IP68** ..... 428 - 431  
**LS-TYPE** ..... 454 - 455

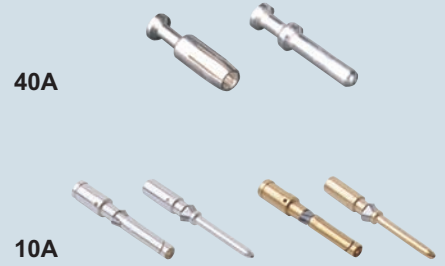
panel supports: page:  
**COB** ..... 462 - 463

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

**inserts,  
crimp connections**



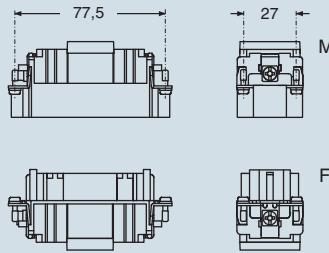
**40A and 10A crimp contacts  
silver and gold plated**



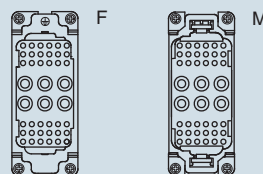
| description                                                                                                                                                                                                                                                                                                                                          | part No.                           | part No.                                                                                                       | part No.              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------|
| without contacts (to be ordered separately)<br>female inserts for female contacts<br>male inserts for male contacts                                                                                                                                                                                                                                  | <b>CXF 6/36</b><br><b>CXM 6/36</b> |                                                                                                                |                       |
| <b>40A female contacts</b><br>1,5 mm <sup>2</sup> AWG 16<br>2,5 mm <sup>2</sup> AWG 14<br>4 mm <sup>2</sup> AWG 12<br>6 mm <sup>2</sup> AWG 10                                                                                                                                                                                                       |                                    | <b>CXFA 1.5</b><br><b>CXFA 2.5</b><br><b>CXFA 4.0</b><br><b>CXFA 6.0</b>                                       | <b>silver plated</b>  |
| <b>40A male contacts</b><br>1,5 mm <sup>2</sup> AWG 16<br>2,5 mm <sup>2</sup> AWG 14<br>4 mm <sup>2</sup> AWG 12<br>6 mm <sup>2</sup> AWG 10                                                                                                                                                                                                         |                                    | <b>CXMA 1.5</b><br><b>CXMA 2.5</b><br><b>CXMA 4.0</b><br><b>CXMA 6.0</b>                                       | <b>silver plated</b>  |
| <b>10A female contacts</b><br>0,14-0,37 mm <sup>2</sup> AWG 26-22 identification No. 1<br>0,5 mm <sup>2</sup> AWG 20 identification No. 2<br>0,75 mm <sup>2</sup> AWG 18 identification No. ②<br>1 mm <sup>2</sup> AWG 18 identification No. 3<br>1,5 mm <sup>2</sup> AWG 16 identification No. 4<br>2,5 mm <sup>2</sup> AWG 14 identification No. 5 |                                    | <b>CDFA 0.3</b><br><b>CDFA 0.5</b><br><b>CDFA 0.7</b><br><b>CDFA 1.0</b><br><b>CDFA 1.5</b><br><b>CDFA 2.5</b> | <b>silver plated</b>  |
| <b>10A male contacts</b><br>0,14-0,37 mm <sup>2</sup> AWG 26-22 identification No. 1<br>0,5 mm <sup>2</sup> AWG 20 identification No. 2<br>0,75 mm <sup>2</sup> AWG 18 identification No. ②<br>1 mm <sup>2</sup> AWG 18 identification No. 3<br>1,5 mm <sup>2</sup> AWG 16 identification No. 4<br>2,5 mm <sup>2</sup> AWG 14 identification No. 5   |                                    | <b>CDMA 0.3</b><br><b>CDMA 0.5</b><br><b>CDMA 0.7</b><br><b>CDMA 1.0</b><br><b>CDMA 1.5</b><br><b>CDMA 2.5</b> | <b>gold plated 1)</b> |
|                                                                                                                                                                                                                                                                                                                                                      |                                    | <b>CDFD 0.3</b><br><b>CDFD 0.5</b><br><b>CDFD 0.7</b><br><b>CDFD 1.0</b><br><b>CDFD 1.5</b><br><b>CDFD 2.5</b> | <b>gold plated 1)</b> |
|                                                                                                                                                                                                                                                                                                                                                      |                                    | <b>CDMD 0.3</b><br><b>CDMD 0.5</b><br><b>CDMD 0.7</b><br><b>CDMD 1.0</b><br><b>CDMD 1.5</b><br><b>CDMD 2.5</b> | <b>gold plated 1)</b> |

- characteristics according to EN 61984:  
**40A 690V 8kV 3**  
**10A 160V 2,5kV 3**  
**10A 250V 4kV 2**
- UL, CSA, CCC \*, GL, EAC certified  
 \* CQC certification being applied for
- 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: ≤ 0,3 mΩ (6 poles)  
 ≤ 1 mΩ (36 poles)
- for maximum current load, see the following load curves inserts, for more information see page 563

dimensions in mm



contacts side (front view)

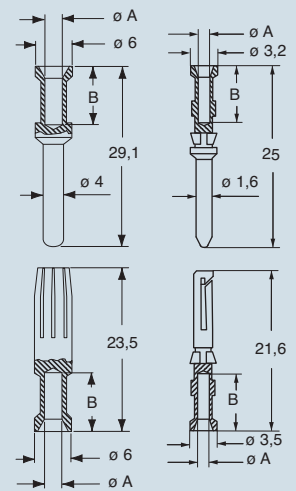


**CXF and CXM contacts**

| conductor section mm <sup>2</sup> | conductor slot ø 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

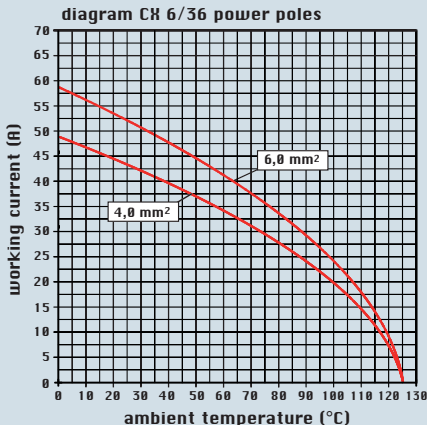
**CXF and CXM CDF and CDM**



for contact crimping instructions, please see the crimping tool section (40A contacts CXF, CXM series and 10A contacts CDF, CDM series) on pages 534, 536, 538, 544, 546, 548

**CDF and CDM contacts**

| conductor section (mm <sup>2</sup> ) | 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

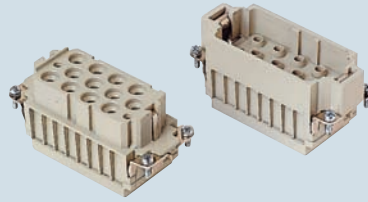
1) basic or high thickness gold plating page 480

enclosures:  
size "77.27" page:

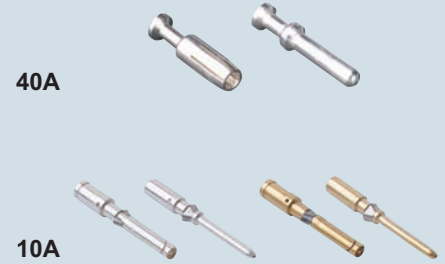
**C-TYPE IP65/IP66** ..... 250 - 256  
**C7 IP67, two levers** ..... 276  
**V-TYPE IP65/IP66, single lever** 282/292 - 295  
**BIG hoods** ..... 312 - 315  
**T-TYPE IP65 insulating** ..... 330 - 331  
**T-TYPE / W IP66 insulating** ..... 340 - 341  
**HYGIENIC T-TYPE / H IP66/IP69** ..... 354 - 355  
**HYGIENIC T-TYPE / C IP66/IP69, -50 °C** 362 - 363  
**W-TYPE for aggressive environments** ..... 375  
**EMC** ..... 394  
**central lever** ..... 408 - 409  
**IP68** ..... 428 - 431  
**LS-TYPE** ..... 454 - 455

panel supports: page:  
**COB** ..... 462 - 463

**inserts,  
crimp connections**

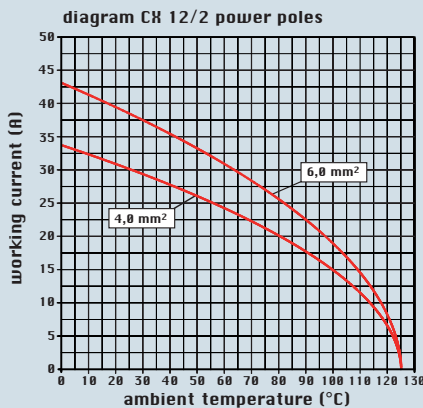


**40A and 10A crimp contacts  
silver and gold plated**

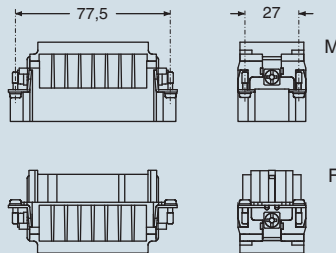


| description                                                                                                                                                                                                                                                                                                                                          | part No.                           | part No.                                                                                                       | part No.              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------|
| without contacts (to be ordered separately)<br>female inserts for female contacts<br>male inserts for male contacts                                                                                                                                                                                                                                  | <b>CXF 12/2</b><br><b>CXM 12/2</b> |                                                                                                                |                       |
| <b>40A female contacts</b><br>1,5 mm <sup>2</sup> AWG 16<br>2,5 mm <sup>2</sup> AWG 14<br>4 mm <sup>2</sup> AWG 12<br>6 mm <sup>2</sup> AWG 10                                                                                                                                                                                                       |                                    | <b>CXFA 1.5</b><br><b>CXFA 2.5</b><br><b>CXFA 4.0</b><br><b>CXFA 6.0</b>                                       | <b>silver plated</b>  |
| <b>40A male contacts</b><br>1,5 mm <sup>2</sup> AWG 16<br>2,5 mm <sup>2</sup> AWG 14<br>4 mm <sup>2</sup> AWG 12<br>6 mm <sup>2</sup> AWG 10                                                                                                                                                                                                         |                                    | <b>CXMA 1.5</b><br><b>CXMA 2.5</b><br><b>CXMA 4.0</b><br><b>CXMA 6.0</b>                                       | <b>silver plated</b>  |
| <b>10A female contacts</b><br>0,14-0,37 mm <sup>2</sup> AWG 26-22 identification No. 1<br>0,5 mm <sup>2</sup> AWG 20 identification No. 2<br>0,75 mm <sup>2</sup> AWG 18 identification No. ②<br>1 mm <sup>2</sup> AWG 18 identification No. 3<br>1,5 mm <sup>2</sup> AWG 16 identification No. 4<br>2,5 mm <sup>2</sup> AWG 14 identification No. 5 |                                    | <b>CDFA 0.3</b><br><b>CDFA 0.5</b><br><b>CDFA 0.7</b><br><b>CDFA 1.0</b><br><b>CDFA 1.5</b><br><b>CDFA 2.5</b> | <b>silver plated</b>  |
| <b>10A male contacts</b><br>0,14-0,37 mm <sup>2</sup> AWG 26-22 identification No. 1<br>0,5 mm <sup>2</sup> AWG 20 identification No. 2<br>0,75 mm <sup>2</sup> AWG 18 identification No. ②<br>1 mm <sup>2</sup> AWG 18 identification No. 3<br>1,5 mm <sup>2</sup> AWG 16 identification No. 4<br>2,5 mm <sup>2</sup> AWG 14 identification No. 5   |                                    | <b>CDMA 0.3</b><br><b>CDMA 0.5</b><br><b>CDMA 0.7</b><br><b>CDMA 1.0</b><br><b>CDMA 1.5</b><br><b>CDMA 2.5</b> | <b>gold plated 1)</b> |
|                                                                                                                                                                                                                                                                                                                                                      |                                    | <b>CDFD 0.3</b><br><b>CDFD 0.5</b><br><b>CDFD 0.7</b><br><b>CDFD 1.0</b><br><b>CDFD 1.5</b><br><b>CDFD 2.5</b> | <b>gold plated 1)</b> |
|                                                                                                                                                                                                                                                                                                                                                      |                                    | <b>CDMD 0.3</b><br><b>CDMD 0.5</b><br><b>CDMD 0.7</b><br><b>CDMD 1.0</b><br><b>CDMD 1.5</b><br><b>CDMD 2.5</b> | <b>gold plated 1)</b> |

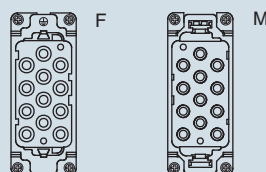
- characteristics according to EN 61984:  
**40A 690V 8kV 3**  
**10A 160V 2,5kV 3**  
**10A 250V 4kV 2**
- UL, CSA, CCC \*, GL, EAC certified  
\* CQC certification being applied for
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 0,3 mΩ (6 poles)  
≤ 1 mΩ (36 poles)
- for maximum current load, see the following load curves inserts, for more information see page 563



dimensions in mm



contacts side (front view)

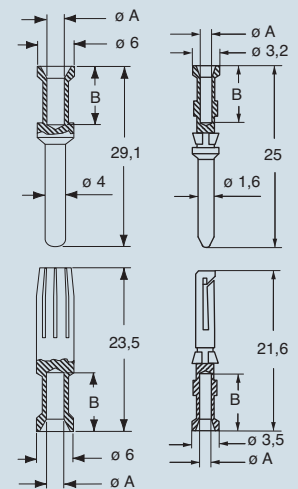


**CXF and CXM contacts**

| conductor section mm <sup>2</sup> | conductor slot ø 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

**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 534, 536, 538, 544, 546, 548

**CDF and CDM contacts**

| conductor section (mm <sup>2</sup> ) | 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 .....                      | 250 - 256     |
| C7 IP67, two levers .....                   | 276           |
| V-TYPE IP65/IP66, single lever .....        | 282/292 - 295 |
| BIG hoods .....                             | 312 - 315     |
| T-TYPE IP65 insulating .....                | 330 - 331     |
| T-TYPE / W IP66 insulating .....            | 340 - 341     |
| HYGIENIC T-TYPE / H IP66/IP69 .....         | 354 - 355     |
| HYGIENIC T-TYPE / C IP66/IP69, -50 °C ..... | 362 - 363     |
| W-TYPE for aggressive environments .....    | 375           |
| EMC .....                                   | 394           |
| for 180 °C .....                            | 400           |
| central lever .....                         | 408 - 409     |
| IP68 .....                                  | 428 - 431     |
| LS-TYPE .....                               | 454 - 455     |

panel supports: page:  
COB .....

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

female inserts with female contacts  
male inserts with male contacts

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

- characteristics according to EN 61984:  
80A 690V 8kV 3  
16A 400V 6kV 3  
16A 400/690V 6kV 2
- UL, CSA, CCC \*, GL, EAC certified  
\* CQC certification being applied for
- 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: ≤ 0,3 mΩ (4 poles)  
≤ 1 mΩ (2 poles)
- for maximum current load, see the following load curves inserts, for more information see page 563 and 564

diagram CX 4/0 poles

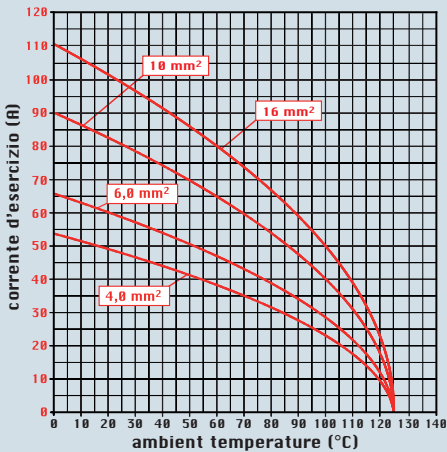
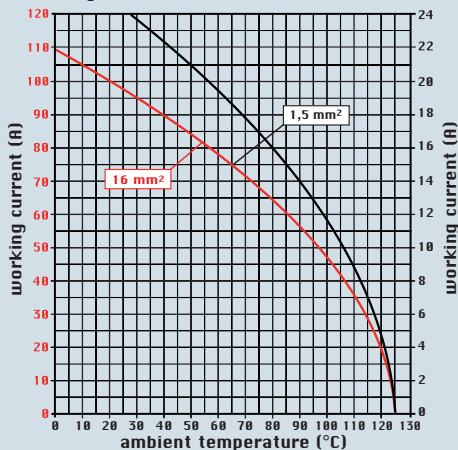
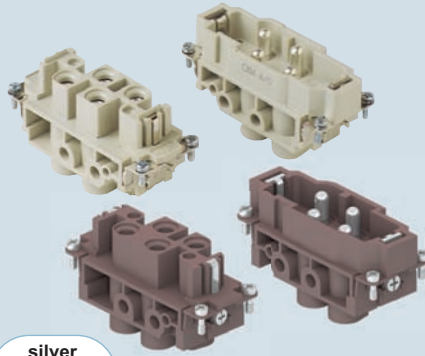


diagram CX 4/2 poles



**inserts,  
screw terminal connection**



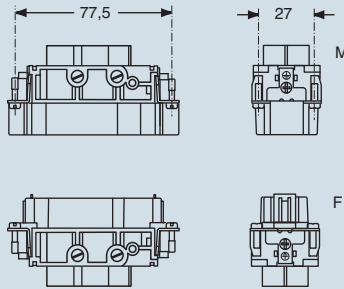
silver plated contacts

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

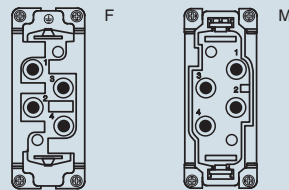
CXF 4/0  
CXM 4/0

CXF 4/0 RY  
CXM 4/0 RY

dimensions in mm



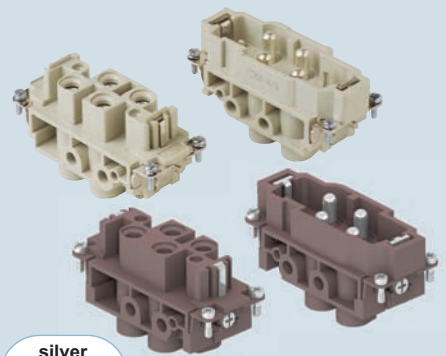
contacts side (front view)



**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 34 and 35

**inserts,  
screw terminal connection**



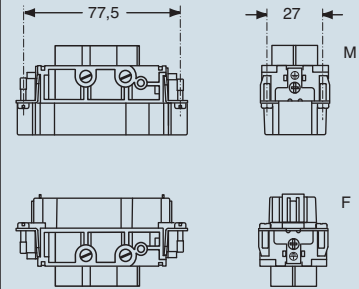
silver plated contacts

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

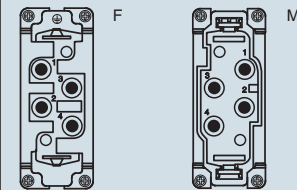
CXF 4/2  
CXM 4/2

CXF 4/2 RY  
CXM 4/2 RY

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 34 and 35

**16A contacts**

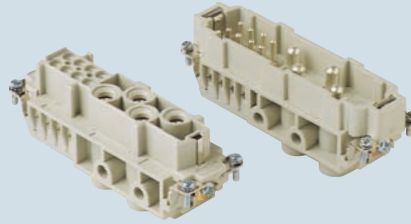
- without plate for section conductors:  
0,25 - 2,5 mm² - AWG 24 - 14
- conductors stripping length: 7 mm
- terminal screw torque: 0,5 Nm (4.4 lb.in), for more information see page 34 and 35

dimensions shown are not binding and may be changed without notice

CX - CX...RY

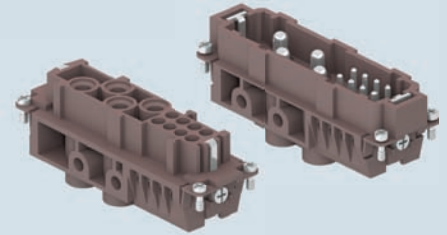
|                                                    |               |
|----------------------------------------------------|---------------|
| enclosures:                                        |               |
| size "104.27"                                      | page:         |
| <b>C-TYPE IP65/IP66</b> .....                      | 258 - 266     |
| <b>C7 IP67, two levers</b> .....                   | 277           |
| <b>V-TYPE IP65/IP66, single lever</b> .....        | 283/296 - 299 |
| <b>BIG hoods</b> .....                             | 316 - 319     |
| <b>T-TYPE IP65 insulating</b> .....                | 332 - 333     |
| <b>T-TYPE / W IP66 insulating</b> .....            | 342 - 343     |
| <b>HYGIENIC T-TYPE / H IP66/IP69</b> .....         | 356 - 357     |
| <b>HYGIENIC T-TYPE / C IP66/IP69, -50 °C</b> ..... | 364 - 365     |
| <b>W-TYPE for aggressive environments</b> .....    | 376           |
| <b>EMC</b> .....                                   | 395           |
| <b>for 180 °C</b> .....                            | 401           |
| <b>central lever</b> .....                         | 410 - 412     |
| <b>IP68</b> .....                                  | 432 - 435     |
| <b>LS-TYPE</b> .....                               | 456 - 457     |
| panel supports:                                    | page:         |
| <b>COB</b> .....                                   | 462 - 463     |

**inserts,  
screw terminal connection**



silver plated contacts

**inserts,  
screw terminal connection**



silver plated contacts

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

female inserts with female contacts  
male inserts with male contacts

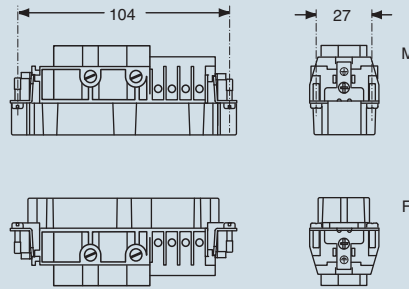
**CXF 4/8**  
**CXM 4/8**

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

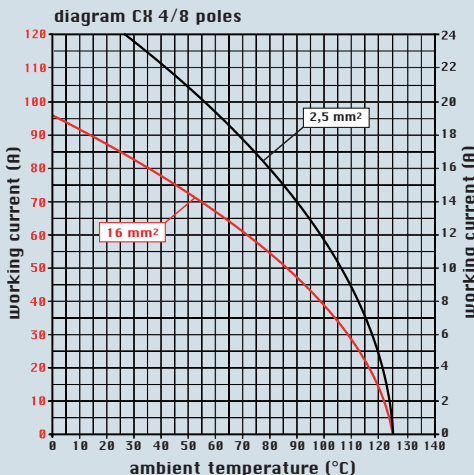
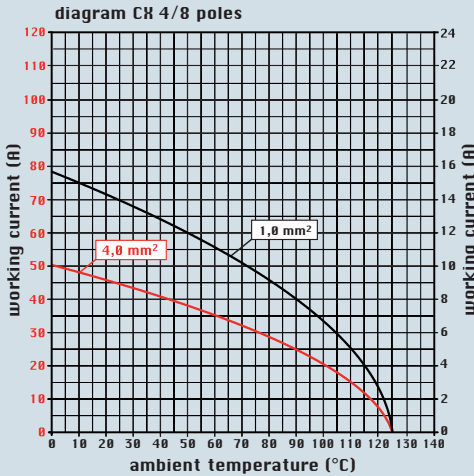
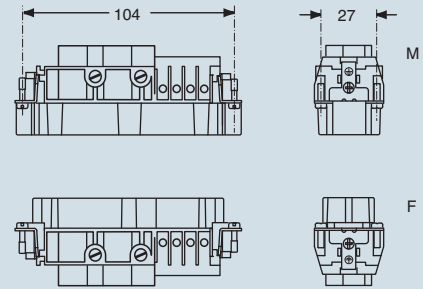
**CXF 4/8 RY**  
**CXM 4/8 RY**

- 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, EAC certified  
\* CQC certification being applied for
- 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: ≤ 0,3 mΩ (4 poles)  
≤ 1 mΩ (8 poles)
- for maximum current load, see the following load curves inserts, for more information see page 564

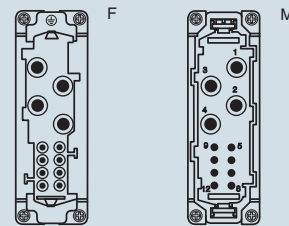
dimensions in mm



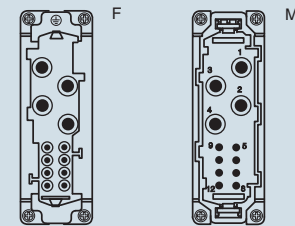
dimensions in mm



contacts side (front view)



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 34 and 35

**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 34 and 35

**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 34 and 35

**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 34 and 35

dimensions shown are not binding and may be changed without notice

# CX series

## Main features

### CX inserts 100A/16A version

The CX series of combined “power /auxiliaries” connector inserts has been enhanced with a **new insert, CX 6/6 suitable for currents up to 100A** in the power side and 16A on the auxiliaries side, for crimp contacts series CG (100A max) and series CC (16A max) several benefits over conventional screw or axial screw contacts:

- More **resistant to mechanical stresses** such as vibrations, shock and cable loads
- More **corrosion resistant** (gas tight)
- **Quicker to connect** and ensuring more **consistent results** (regardless of the operators “force”)
- The connector is **electrically more efficient** (reduced voltage drop)

This innovative insert design, by following the same concepts of the MIXO 100A CX..G model, **patented by ILME**, ensures a quicker fitting and removal of crimped contacts.

The **provided locking keys** firmly fasten the contact holder.

The power contacts may be removed **without any special tool**, using a simple screwdriver (e.g.: 0,5 x 3 mm, 0,5 x 3,5 mm, 0,6 x 4 mm flat blade) The removal of auxiliary contacts series CC requires the extraction tool CQES.

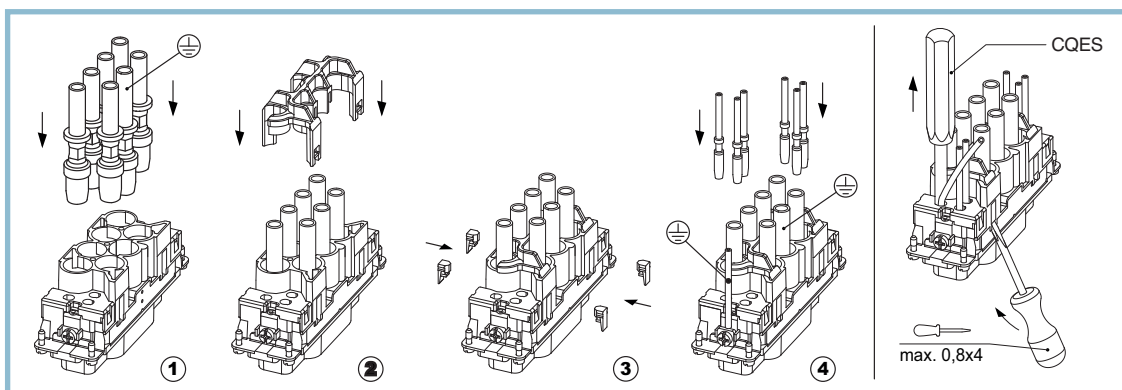
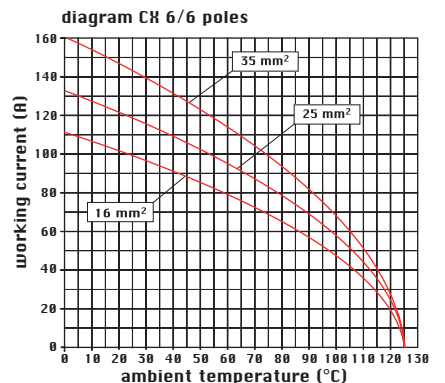
The crimping operation may be carried out quickly and efficiently with the **hand operated hydraulic pliers**, which is pre-fitted with the suitable locator. Suitable crimp dies are available on request.

| Inserts series                              |                                        | CX                              |      |
|---------------------------------------------|----------------------------------------|---------------------------------|------|
| No. of poles                                | main contact                           | 6 + ⊕ (100A) **                 |      |
|                                             | auxiliary contacts                     | 6 (16A)                         |      |
| rated current <sup>1)</sup>                 |                                        | 100A                            | 16A  |
| EN 61984<br>pollution degree 3              | rated voltage                          | 690V                            | 400V |
|                                             | rated impulse withstand voltage        | 8kV                             | 6kV  |
|                                             | pollution degree                       | 3                               | 3    |
| contact resistance                          |                                        | ≤ 0,3 mΩ (100A)<br>≤ 1 mΩ (16A) |      |
| insulation resistance                       |                                        | ≥ 10 GΩ                         |      |
| ambient temperature limit (°C)              | min                                    | -40 °C                          |      |
|                                             | max                                    | +125 °C                         |      |
| degree of protection                        | with enclosures (according to version) | IP65, IP66, IP67, IP68, IP69K   |      |
|                                             | without enclosures                     | IP20                            |      |
| conductor connections *                     |                                        | crimp                           |      |
| conductor cross-section (CG contact series) | mm <sup>2</sup>                        | 16, 25, 35                      |      |
|                                             | AWG                                    | 6 - 5, 4 - 3, 2                 |      |
| conductor cross-section (CC contact series) | mm <sup>2</sup>                        | 0,14 ..... 4,0                  |      |
|                                             | AWG                                    | 26 ÷ 12                         |      |
| CG/CC stripping length                      | mm                                     | 15 / 7,5                        |      |
| mechanical endurance (rating cycles)        |                                        | ≥ 500                           |      |

1) Please check the insert load curves to establish the actual maximum operating current according to the ambient temperature.

- \* max external conductor Ø = 11,5 mm
- \*\* the power PE contact is not included and must be the same size as the power contacts used (for a total n° of contacts = 7)

- for maximum current load, see the following load curves inserts, for more information see page 565



enclosures:  
size "104.27" page:

**C-TYPE IP65/IP66** ..... 258 - 266  
**C7 IP67, two levers** ..... 277  
**V-TYPE IP65/IP66, single lever** 283/296 - 299  
**BIG hoods** ..... 316 - 319  
**T-TYPE IP65 insulating** ..... 332 - 333  
**T-TYPE / W IP66 insulating** ..... 342 - 343  
**HYGIENIC T-TYPE / H IP66/IP69** ..... 356 - 357  
**HYGIENIC T-TYPE / C IP66/IP69, -50 °C** 364 - 365  
**W-TYPE for aggressive environments** ..... 376  
**EMC** ..... 395  
**central lever** ..... 410 - 412  
**IP68** ..... 432 - 435  
**LS-TYPE** ..... 456 - 457

panel supports: **COB** ..... 462 - 463

**inserts,  
crimp connections**



**NEW**

**100A and 16A crimp contacts  
silver and gold plated**



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

| description                                                                                                                                                                                                                                                                                                                                                                                              | part No.                         | part No.                                                                                                                                             | part No.              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| without contacts (to be ordered separately)<br>female inserts for female contacts<br>male inserts for male contacts                                                                                                                                                                                                                                                                                      | <b>CXF 6/6</b><br><b>CXM 6/6</b> |                                                                                                                                                      |                       |
| <b>100A female contacts</b><br>8 - 10 mm <sup>2</sup> AWG 8 - 7<br>16 mm <sup>2</sup> AWG 6 - 5<br>25 mm <sup>2</sup> AWG 4 - 3<br>35 mm <sup>2</sup> AWG 2                                                                                                                                                                                                                                              |                                  | <b>CGFA 10</b><br><b>CGFA 16</b><br><b>CGFA 25</b><br><b>CGFA 35</b>                                                                                 | <b>silver plated</b>  |
| <b>100A male contacts</b><br>8 - 10 mm <sup>2</sup> AWG 8 - 7<br>16 mm <sup>2</sup> AWG 6 - 5<br>25 mm <sup>2</sup> AWG 4 - 3<br>35 mm <sup>2</sup> AWG 2                                                                                                                                                                                                                                                |                                  | <b>CGMA 10</b><br><b>CGMA 16</b><br><b>CGMA 25</b><br><b>CGMA 35</b>                                                                                 | <b>silver plated</b>  |
| <b>16A female contacts</b><br>0,14-0,37 mm <sup>2</sup> AWG 26-22 three grooves<br>0,5 mm <sup>2</sup> AWG 20 with no grooves<br>0,75 mm <sup>2</sup> AWG 18 one groove (back side)<br>1 mm <sup>2</sup> AWG 18 one groove<br>1,5 mm <sup>2</sup> AWG 16 two grooves<br>2,5 mm <sup>2</sup> AWG 14 three grooves<br>3 mm <sup>2</sup> AWG 12 one wide groove<br>4 mm <sup>2</sup> AWG 12 with no grooves |                                  | <b>CCFA 0.3</b><br><b>CCFA 0.5</b><br><b>CCFA 0.7</b><br><b>CCFA 1.0</b><br><b>CCFA 1.5</b><br><b>CCFA 2.5</b><br><b>CCFA 3.0</b><br><b>CCFA 4.0</b> | <b>silver plated</b>  |
| <b>16A male contacts</b><br>0,14-0,37 mm <sup>2</sup> AWG 26-22 three grooves<br>0,5 mm <sup>2</sup> AWG 20 with no grooves<br>0,75 mm <sup>2</sup> AWG 18 one groove (back side)<br>1 mm <sup>2</sup> AWG 18 one groove<br>1,5 mm <sup>2</sup> AWG 16 two grooves<br>2,5 mm <sup>2</sup> AWG 14 three grooves<br>3 mm <sup>2</sup> AWG 12 one wide groove<br>4 mm <sup>2</sup> AWG 12 with no grooves   |                                  | <b>CCFD 0.3</b><br><b>CCFD 0.5</b><br><b>CCFD 0.7</b><br><b>CCFD 1.0</b><br><b>CCFD 1.5</b><br><b>CCFD 2.5</b><br><b>CCFD 3.0</b><br><b>CCFD 4.0</b> | <b>gold plated 1)</b> |
|                                                                                                                                                                                                                                                                                                                                                                                                          |                                  | <b>CCMA 0.3</b><br><b>CCMA 0.5</b><br><b>CCMA 0.7</b><br><b>CCMA 1.0</b><br><b>CCMA 1.5</b><br><b>CCMA 2.5</b><br><b>CCMA 3.0</b><br><b>CCMA 4.0</b> | <b>silver plated</b>  |
|                                                                                                                                                                                                                                                                                                                                                                                                          |                                  | <b>CCMD 0.3</b><br><b>CCMD 0.5</b><br><b>CCMD 0.7</b><br><b>CCMD 1.0</b><br><b>CCMD 1.5</b><br><b>CCMD 2.5</b><br><b>CCMD 3.0</b><br><b>CCMD 4.0</b> | <b>gold plated 1)</b> |

- characteristics according to EN 61984:  
**100A 690V 8kV 3**  
**16A 400V 6kV 3**
- certifications: cUL (UL for USA and Canada)
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 0,3 mΩ (100A)  
≤ 1 mΩ (16A)
- for contact crimping, see the crimp tool section (100A contacts CG series, and 16A contacts CC series) on pages 534, 538, 542, 544, 546, 548

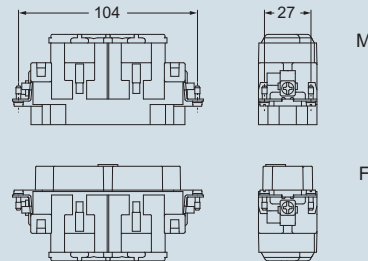
**CCF and CCM contacts**

| conductor section mm <sup>2</sup> | conductor slot ø A (mm) | conductors stripping length B (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                                |
| 3.0                               | 2.55                    | 7.5                                |
| 4.0                               | 2.85                    | 7.5                                |

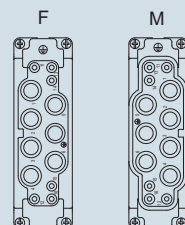
1) basic or high thickness gold plating page 481

dimensions shown are not binding and may be changed without notice

**dimensions in mm**

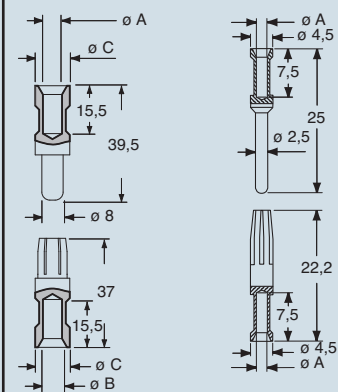


**contacts side (front view)**



**dimensions in mm**

**CGF and CGM CCF and CCM**



**CGF and CGM contacts**

| conductor section (mm <sup>2</sup> ) | conductor slot ø A (mm) | conductor slot ø B (mm) | conductor slot ø C (mm) | conductors stripping length (mm) |
|--------------------------------------|-------------------------|-------------------------|-------------------------|----------------------------------|
| 8-10                                 | 4,3                     | 4,3                     | 13                      | 15                               |
| 16                                   | 5,5                     | 5,5                     | 13                      | 15                               |
| 25                                   | 7,0                     | 7,0                     | 13                      | 15                               |
| 35                                   | 7,9                     | 8,2                     | 12,5                    | 15                               |