

enclosures: size "57.27"	page:
<b>C-TYPE IP65/IP66</b> .....	222 - 227
<b>C7 IP67 stainless steel lever</b> .....	255
<b>V-TYPE IP65/IP66 stainless steel lever</b> .....	264 - 267
<b>T-TYPE IP65 insulating</b> .....	283
<b>JEI zinc-plated steel lever</b> .....	290 - 291
<b>BIG hoods</b> .....	308 - 311
<b>aggressive environments</b> .....	330
<b>EMC</b> .....	349
<b>central lever</b> .....	362 - 363
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panel supports:	page:
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**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 **CXF 8/24**  
male inserts for male contacts **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

**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

**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

**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

- 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**

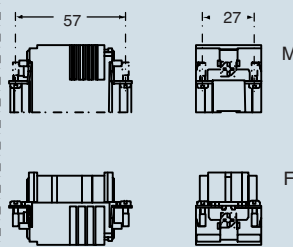
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 1 mΩ (8 poles)  
≤ 3 mΩ (24 poles)

- for maximum current load, see the insert load curve section on page 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)

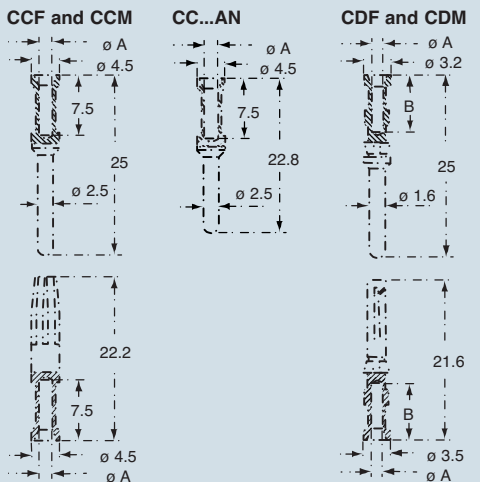
dimensions in mm



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

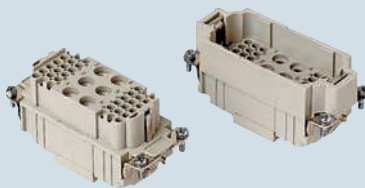
enclosures:  
size "77.27" page:

**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

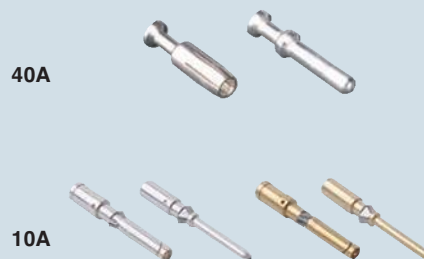
panel supports: page:  
**COB** ..... 410 - 411

- 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<sup>2</sup> AWG 16  
 2.5 mm<sup>2</sup> AWG 14  
 4 mm<sup>2</sup> AWG 12  
 6 mm<sup>2</sup> AWG 10

**40A male contacts**  
 1.5 mm<sup>2</sup> AWG 16  
 2.5 mm<sup>2</sup> AWG 14  
 4 mm<sup>2</sup> AWG 12  
 6 mm<sup>2</sup> AWG 10

**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

**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

**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**

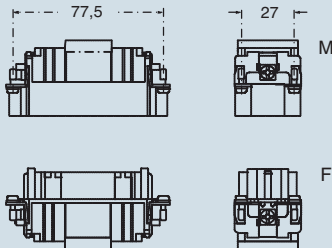
**gold plated**

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

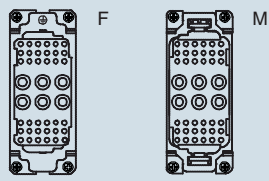
**CDMD 0.3**  
**CDMD 0.5**  
**CDMD 0.7**  
**CDMD 1.0**  
**CDMD 1.5**  
**CDMD 2.5**

- characteristics according to EN 61984:  
**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: ≥ 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 498

**dimensions in mm**



**contacts side (front view)**

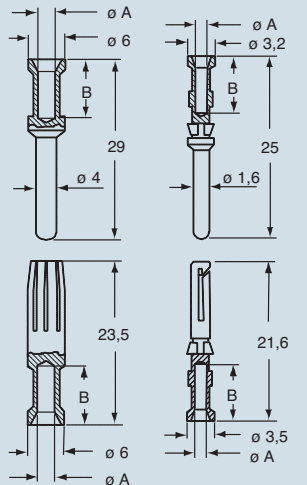


**CXF and CXM contacts**

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

**dimensions in mm**

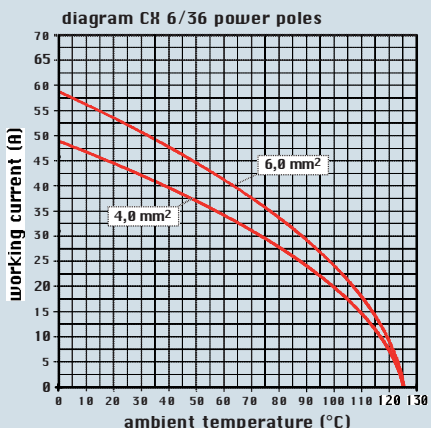
**CXF and CXM CDF and CDM**



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 <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



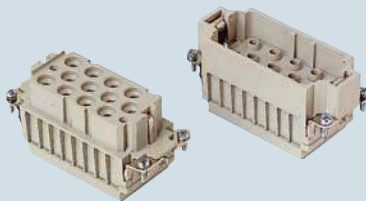
dimensions shown are not binding and may be changed without notice

enclosures:  
size "77.27" page:

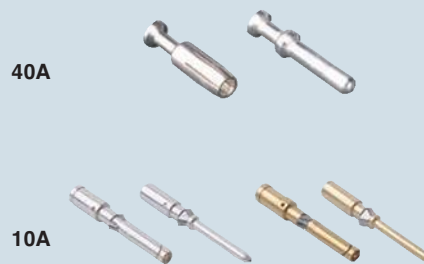
**C-TYPE IP65/IP66** ..... 228 - 234  
**C7 IP67 stainless steel lever** ..... 256  
**V-TYPE IP65/IP66 stainless steel lever** ..... 268 - 271  
**T-TYPE IP65 insulating** ..... 284  
**JEI zinc-plated steel lever** ..... 292 - 293  
**BIG hoods** ..... 312 - 315  
**aggressive environments** .....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

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

**inserts,  
crimp connections**



**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<sup>2</sup> AWG 16  
 2.5 mm<sup>2</sup> AWG 14  
 4 mm<sup>2</sup> AWG 12  
 6 mm<sup>2</sup> AWG 10

**40A male contacts**  
 1.5 mm<sup>2</sup> AWG 16  
 2.5 mm<sup>2</sup> AWG 14  
 4 mm<sup>2</sup> AWG 12  
 6 mm<sup>2</sup> AWG 10

**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**

**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

**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

**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**

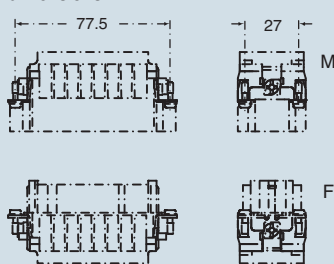
**CDMA 0.3**  
**CDMA 0.5**  
**CDMA 0.7**  
**CDMA 1.0**  
**CDMA 1.5**  
**CDMA 2.5**

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

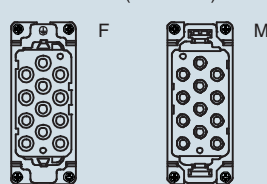
- characteristics according to EN 61984:

- 40A 690V 8kV 3**
- 10A 250V 4kV 3**
- 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: ≤ 0,3 mΩ (12 poles)  
 ≤ 1 mΩ (2 poles)
- for maximum current load, see the following load curves inserts, for more information see page 498

dimensions in mm



contacts side (front view)



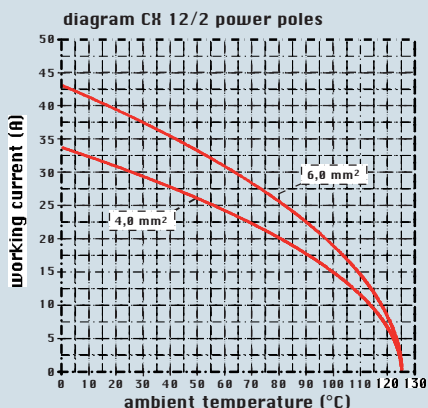
CXF and CXM contacts		
conductor section	conductor slot	conductors stripping length
mm <sup>2</sup>	ø A (mm)	B (mm)
1.5	1.8	9
2.5	2.2	9
4	2.85	9.6
6	3.5	9.6

dimensions in mm



CDF and CDM contacts		
conductor section	conductor slot	conductors stripping length
mm <sup>2</sup>	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

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



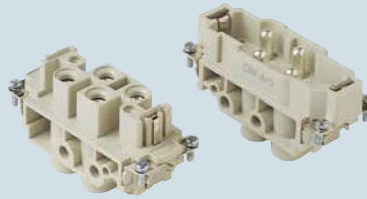
dimensions shown are not binding and may be changed without notice

enclosures:  
 size "77.27" page:

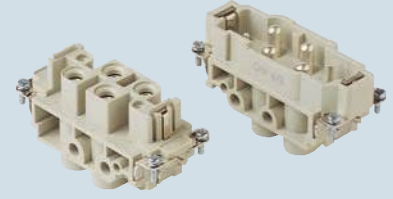
**C-TYPE IP65/IP66** ..... 228 - 234  
**C7 IP67 stainless steel lever** ..... 256  
**V-TYPE IP65/IP66 stainless steel lever** ..... 268 - 271  
**T-TYPE IP65 insulating** ..... 284  
**JEI zinc-plated steel lever** ..... 292 - 293  
**BIG hoods** ..... 312 - 315  
**aggressive environments** .....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

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

**inserts,  
 screw terminal 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**

**CXF 4/2  
 CXM 4/2**

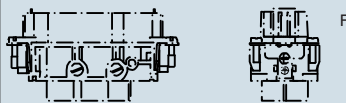
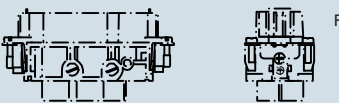
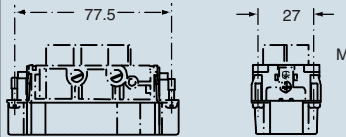
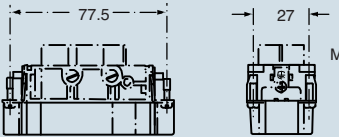
female inserts with female contacts  
 male inserts with male contacts

dimensions in mm

dimensions in mm

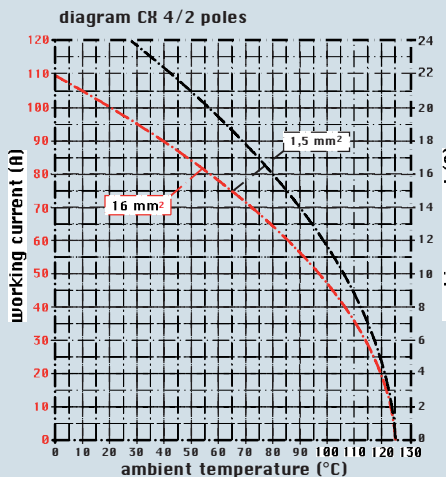
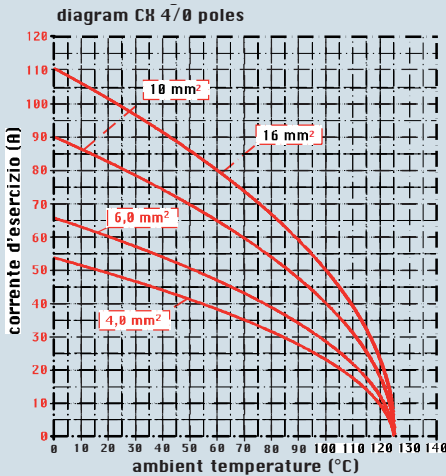
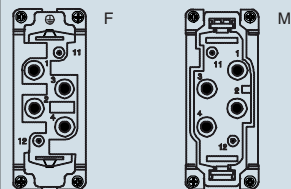
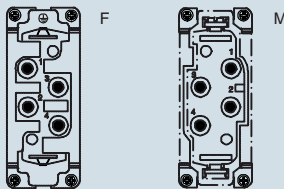
- characteristics according to EN 61984:  
**80A 690V 8kV 3**  
**16A 400V 6kV 3**  
**16A 400/690V 6kV 2**
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance:  $\geq 10 \text{ G}\Omega$
- ambient temperature limit:  $-40 \text{ }^\circ\text{C} \dots +125 \text{ }^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life:  $\geq 500$  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  $180 \text{ }^\circ\text{C}$ , 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)

contacts side (front view)



- 80A contacts**
- without plate for section conductors:  
 4 - 16 mm<sup>2</sup> - 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

- 80A contacts**
- without plate for section conductors:  
 4 - 16 mm<sup>2</sup> - 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

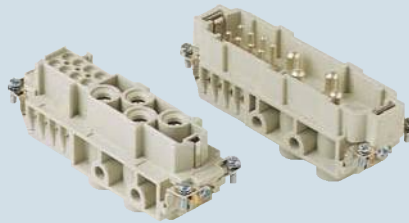
- 16A contacts**
- without plate for section conductors:  
 0.25 - 2.5 mm<sup>2</sup> - AWG 24 - 14
  - conductors stripping length: 7 mm
  - terminal screw torque: 0.5 Nm (4.4 lb.in), for more information see page 21 and 22

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

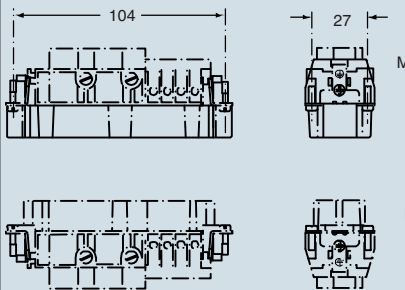
**inserts,  
 screw terminal connection**



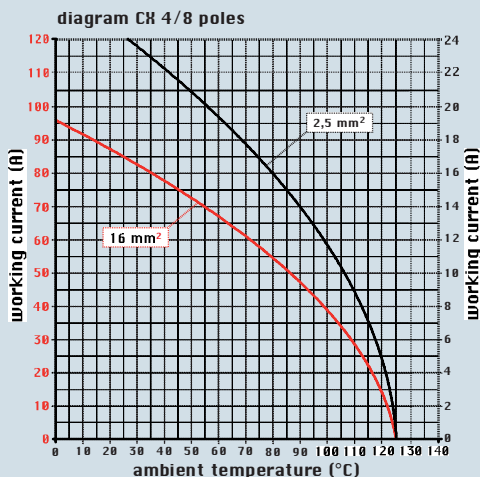
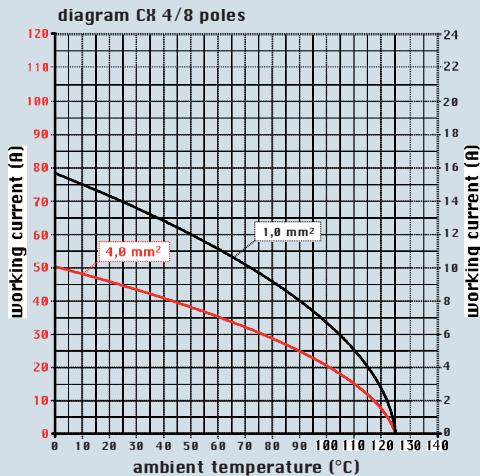
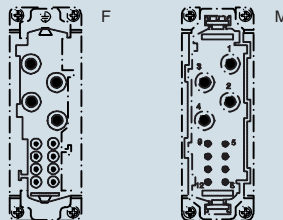
description	part No.
female inserts with female contacts	<b>CXF 4/8</b>
male inserts with male contacts	<b>CXM 4/8</b>

- 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:  $-40 \text{ }^\circ\text{C} \dots +125 \text{ }^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life:  $\geq 500$  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  $180 \text{ }^\circ\text{C}$ , 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 -  $16 \text{ mm}^2$  - 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