

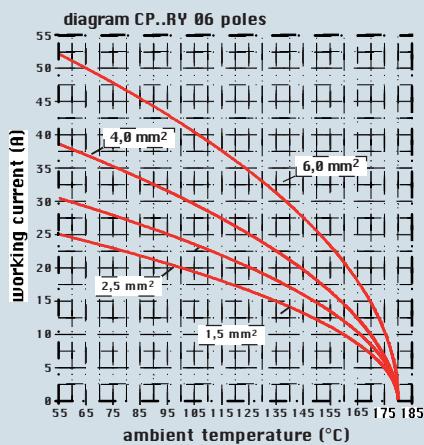
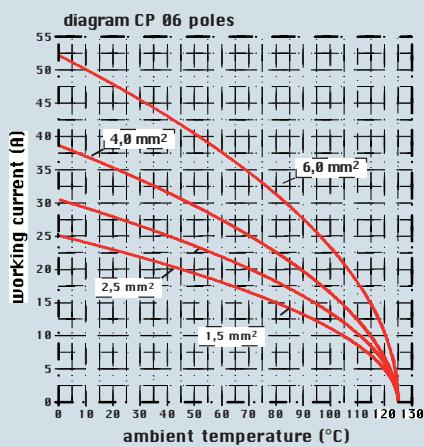
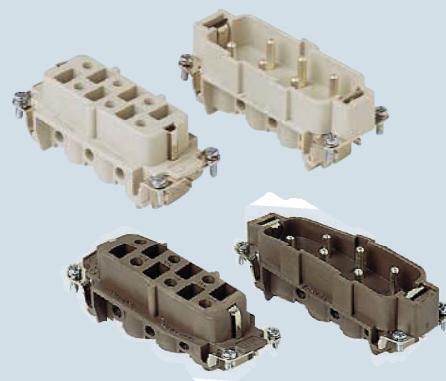
enclosures:	
size "77.27"	page:
C-TYPE IP65/IP66	228 - 234
C7 IP67 stainless steel lever	256
V-TYPE IP65/IP66 stainless steel lever	268 - 271
T-TYPE IP65 insulating	284
JEI zinc-plated steel lever	292 - 293
BIG hoods	312 - 315
aggressive environments	331
EMC	350
central lever	364 - 365
IP68	382 - 385
for 180 °C	356
panel supports:	page:
COB	410 - 411

description

indirect, with plate
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:
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

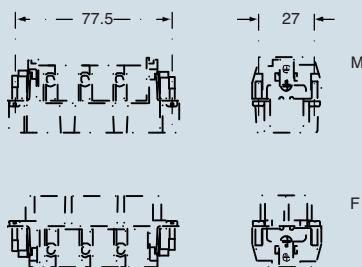
inserts,
screw terminal connection

part No.

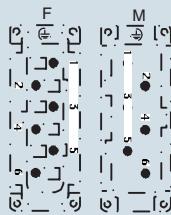
CPF 06
CPM 06

CPF 06 RY
CPM 06 RY

dimensions in mm



contacts side (front view)



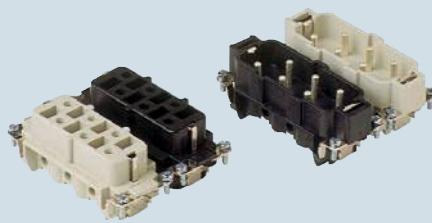
- inserts with plate, for section conductors:
- 1.50 - 6 mm² - AWG 16 - 10
- conductors stripping length: 10.5 mm
- terminal screw torque: 1.2 Nm (10.7 lb.in), for more information see page 21 and 22

dimensions shown are not binding and may be changed without notice

enclosures:
size "77.62"

page:

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

inserts,
screw terminal connection

description

part No.

part No.

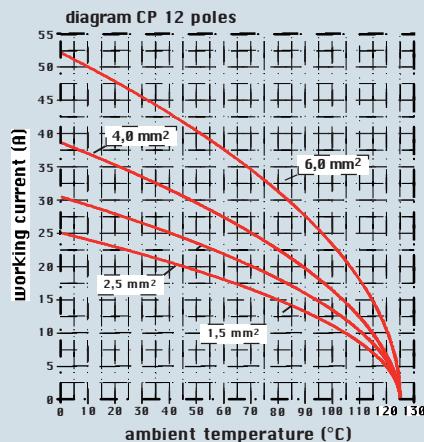
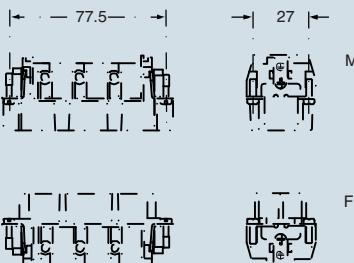
indirect, with plate
female inserts No. (1-6), white and black
male inserts No. (1-6), white and black

CPF 06
CPM 06

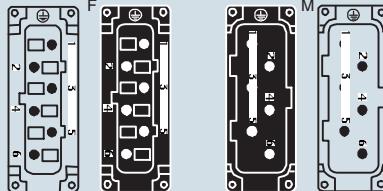
CPF 06 N
CPM 06 N

- 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

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.: 0.5x3 mm, 0.5x3.5 mm, 0.6x4 mm flat blade)

The removal of auxiliary contacts series CC requires the extraction tool CQES.

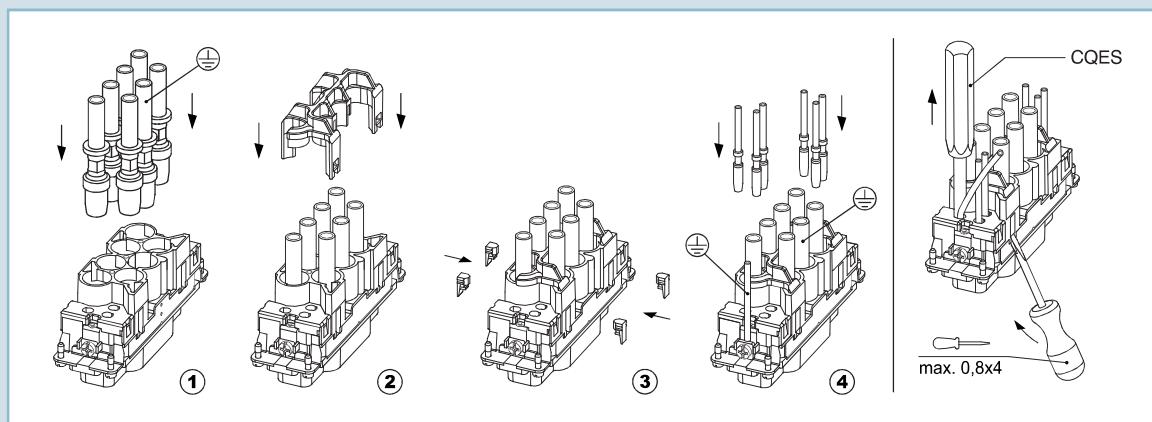
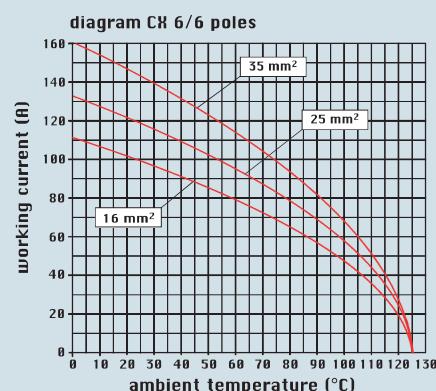
The crimping operation may be carried out quickly and efficiently with the CGPZ **hand operated hydraulic pliers**, which is pre-fitted with the suitable locator. Suitable crimp dies are available on request.

code inserts		CX	
No. of poles	main contact	6 + \oplus (100A) **	
	auxiliary contacts	6 (16A)	
rated current ¹⁾		100A	16A
EN 61984 pollution degree 3	rated voltage	690V	400V
	rated impulse withstand voltage	8kV	6kV
	pollution degree	3	3
contact resistance		$\leq 0.3 \text{ m}\Omega$ (100A) $\leq 1 \text{ m}\Omega$ (16A)	
insulation resistance		$\geq 10 \text{ G}\Omega$	
ambient temperature limit (°C)	min	-40	
	max	+125	
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 ²	16, 25, 35	
	AWG	6 - 5, 4 - 3, 2	
conductor cross-section (CC contact series)	mm ²	0.14 4.0	
	AWG	26 - 12	
CG/CC stripping lenght	mm	15 / 7.5	
mechanical endurance (rating cycles)		≥ 500	

* max external conductor Ø = 16 mm

** the power PE contact is not included and must be the same size as the power contacts used
(for a total n° at contacts = 7)

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



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 *
W-Type for aggressive environment	332 *
EMC	351 *
central lever	366 - 368 *
IP68	386 - 389 *

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

* refer to catalogue page CN.12

inserts,
crimp connections

NEW



AVAILABLE

100A and 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 contactsCXF 6/6
CXM 6/6100A female contacts
16 mm² AWG 6 - 5
25 mm² AWG 4 - 3
35 mm² AWG 2CGFA 16
CGFA 25
CGFA 35

silver plated

100A male contacts
16 mm² AWG 6 - 5
25 mm² AWG 4 - 3
35 mm² AWG 2CGMA 16
CGMA 25
CGMA 35

silver plated

16A female contacts
0.14-0.37 mm² AWG 26-22 three grooves
0.5 mm² AWG 20 with no grooves
0.75 mm² AWG 18 one groove (back side)
1.0 mm² AWG 18 one groove
1.5 mm² AWG 16 two grooves
2.5 mm² AWG 14 three grooves
3.0 mm² AWG 12 one wide groove
4.0 mm² AWG 12 with no groovesCCFA 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

16A male contacts
0.14-0.37 mm² AWG 26-22 three grooves
0.5 mm² AWG 20 with no grooves
0.75 mm² AWG 18 one groove (back side)
1.0 mm² AWG 18 one groove
1.5 mm² AWG 16 two grooves
2.5 mm² AWG 14 three grooves
3.0 mm² AWG 12 one wide groove
4.0 mm² AWG 12 with no groovesCCMA 0.3
CCMA 0.5
CCMA 0.7
CCMA 1.0
CCMA 1.5
CCMA 2.5
CCMA 3.0
CCMA 4.0

silver plated

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:

100A 690V 8kV 3
16A 400V 6kV 3

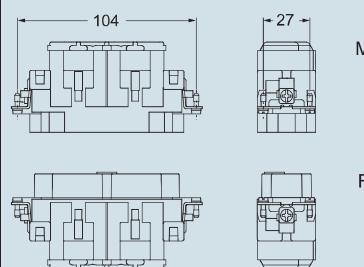
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 0.3 \text{ m}\Omega$ (100A)
 $\leq 1 \text{ m}\Omega$ (16A)
- for contact crimping, see the crimp tool section (100A contacts CG series, and 16A contacts CC series) on pages 466, 470, 476, 480, 482, 484, 486 catalogue CN.12

CCF and CCM contacts

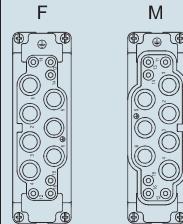
conductor section	conductor slot	conductors stripping length
mm ²	Ø A (mm)	B (mm)
0.14-0.37	0.9	7.5
0.5	1.1	7.5
0.75	1.3	7.5
1.0	1.45	7.5
1.5	1.8	7.5
2.5	2.2	7.5
3.0	2.55	7.5
4.0	2.85	7.5

dimensions shown are not binding
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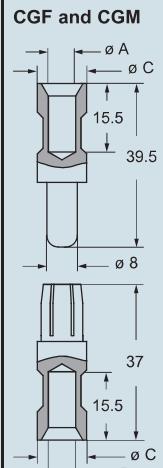
dimensions in mm



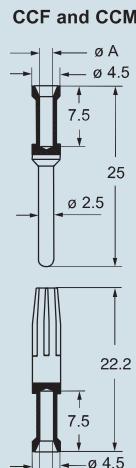
contacts side (front view)



dimensions in mm



CGF and CGM



CCF and CCM

CGF and CGM contacts

conductor section	conductor slot Ø A (mm)	slot Ø B (mm)	slot Ø C (mm)	conductors stripping length (mm)
16	5.5	5.5	13	15
25	7.0	7.0	13	15
35	7.9	8.2	12.5	15