CX 8 poles (16A – 230/400V) + 24 poles (10A – 160V) + ⏚

enclosures:
size "57.27" **page:**

C-TYPE IP65/IP66	**393 - 401**
C7 IP67, two levers	**438**
V-TYPE IP65/IP66, single lever	**448 - 453**
BIG hoods	**468 - 469**
T-TYPE IP65 insulating	**482 - 483**
T-TYPE / W IP66/IP69 insulating	**490**
HYGIENIC T-TYPE / H IP66/IP69	**502**
HYGIENIC T-TYPE / C IP66/IP69, -50 °C	**507**
W-TYPE for aggressive environments	**522**
E-Xtreme® corrosion proof	**532 - 533, 543, 552 - 553**
EMC	**579**
Central lever	**606 - 608**
LS-TYPE	**620 - 621**
IP68	**636 - 639**

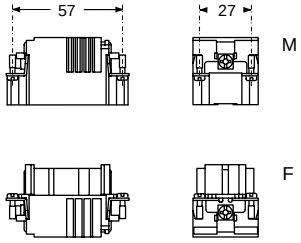
panel supports: **page:**

COB	**652 - 653**

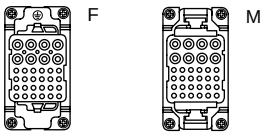
inserts, crimp connections

description	part No.
without contacts (to be ordered separately)	
female inserts for female contacts	**CXF 8/24**
male inserts for male contacts	**CXM 8/24**

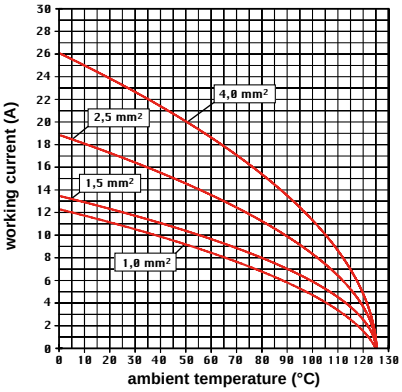
- characteristics according to EN 61984:
  16A 230/400V 4kV 3
  16A 400V 4kV 2
  10A 160V 2,5kV 3
  10A 250V 4kV 2
- certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance:
  ≤ 1 mΩ (8 poles)
  ≤ 3 mΩ (24 poles)
- **it is recommended to crimp the contacts with crimping tools homologated by ILME**
  (please see the crimping tool section 16A contacts, CCF, CCM, CC...AN series and 10A contacts CDF, CDM series on pages 708 - 741)
- PCBs interface, see article CIF 2.4 (10A contacts)
- for max. current load see the connector inserts derating diagrams below; for more information see page 28



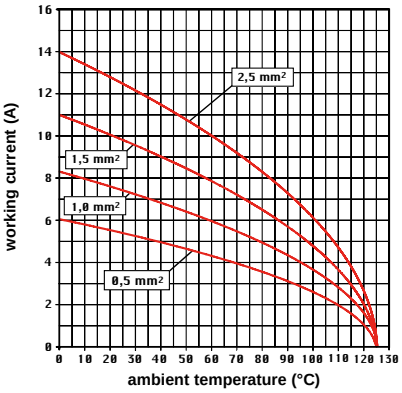
contacts side (front view)



CX 8/24 power poles connector inserts
Maximum current load derating diagram



CX 8/24 auxiliary poles connector inserts
Maximum current load derating diagram



Note: for connector with power poles and auxiliary poles simultaneously loaded in the combinations

power poles	auxiliary poles
4,0 mm²	2,5 mm²
2,5 mm²	1,5 mm²
1,5 mm²	1,0 mm²
1,0 mm²	0,5 mm²

with power / auxiliary current ratios = 1,6 / 1

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

STANDARD

ADVANCED OPENING

10A crimp contacts
silver and gold plated

description			part No. silver plated	part No. gold plated÷
16A female contacts				
0,14-0,37 mm²	AWG 26-22	one groove	**CCFA 0.3**	**CCFD 0.3**
0,5 mm²	AWG 20	with no grooves	**CCFA 0.5**	**CCFD 0.5**
0,75 mm²	AWG 18	one groove (back side)	**CCFA 0.7**	**CCFD 0.7**
1 mm²	AWG 18	one groove	**CCFA 1.0**	**CCFD 1.0**
1,5 mm²	AWG 16	two grooves	**CCFA 1.5**	**CCFD 1.5**
2,5 mm²	AWG 14	three grooves	**CCFA 2.5**	**CCFD 2.5**
3 mm²	AWG 12	one wide groove	**CCFA 3.0**	**CCFD 3.0**
4 mm²	AWG 12	with no grooves	**CCFA 4.0**	**CCFD 4.0**
16A male contacts				
0,14-0,37 mm²	AWG 26-22	one groove	**CCMA 0.3**	**CCMD 0.3**
0,5 mm²	AWG 20	with no grooves	**CCMA 0.5**	**CCMD 0.5**
0,75 mm²	AWG 18	one groove (back side)	**CCMA 0.7**	**CCMD 0.7**
1 mm²	AWG 18	one groove	**CCMA 1.0**	**CCMD 1.0**
1,5 mm²	AWG 16	two grooves	**CCMA 1.5**	**CCMD 1.5**
2,5 mm²	AWG 14	three grooves	**CCMA 2.5**	**CCMD 2.5**
3 mm²	AWG 12	one wide groove	**CCMA 3.0**	**CCMD 3.0**
4 mm²	AWG 12	with no grooves	**CCMA 4.0**	**CCMD 4.0**
16A male crimp contacts for advanced opening				
0,5 mm²	AWG 20	with no grooves	**CC 0.5 AN**	
0,75 mm²	AWG 18	one groove (back side)	**CC 0.7 AN**	
1 mm²	AWG 18	one groove	**CC 1.0 AN**	
1,5 mm²	AWG 16	two grooves	**CC 1.5 AN**	
2,5 mm²	AWG 14	three grooves	**CC 2.5 AN**	

description			part No. silver plated	part No. gold plated÷
10A female contacts				
0,14-0,37 mm²	AWG 26-22	identification No. 1	**CDFA 0.3**	**CDFD 0.3**
0,5 mm²	AWG 20	identification No. 2	**CDFA 0.5**	**CDFD 0.5**
0,75 mm²	AWG 18	identification No. ②	**CDFA 0.7**	**CDFD 0.7**
1 mm²	AWG 18	identification No. 3	**CDFA 1.0**	**CDFD 1.0**
1,5 mm²	AWG 16	identification No. 4	**CDFA 1.5**	**CDFD 1.5**
2,5 mm²	AWG 14	identification No. 5	**CDFA 2.5**	**CDFD 2.5**
10A male contacts				
0,14-0,37 mm²	AWG 26-22	identification No. 1	**CDMA 0.3**	**CDMD 0.3**
0,5 mm²	AWG 20	identification No. 2	**CDMA 0.5**	**CDMD 0.5**
0,75 mm²	AWG 18	identification No. ②	**CDMA 0.7**	**CDMD 0.7**
1 mm²	AWG 18	identification No. 3	**CDMA 1.0**	**CDMD 1.0**
1,5 mm²	AWG 16	identification No. 4	**CDMA 1.5**	**CDMD 1.5**
2,5 mm²	AWG 14	identification No. 5	**CDMA 2.5**	**CDMD 2.5**

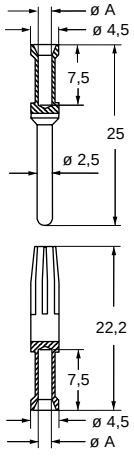
CCF, CCM and CC..AN contacts

conductor section mm²	conductor slot ø A (mm)	conductors stripping length (mm)
0,14-0,37	0,9	7,5
0,5	1,1	7,5
0,75	1,3	7,5
1,0	1,45	7,5
1,5	1,8	7,5
2,5	2,2	7,5
3	2,55	7,5
4	2,85	7,5

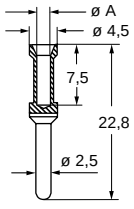
CDF and CDM contacts

conductor section mm²	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

CCF and CCM

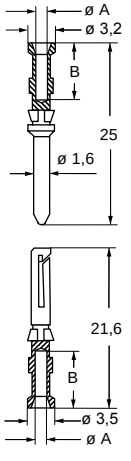


CC...AN



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

CDF and CDM



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

Inserts with a retainer device on crimp contacts

CX 6/12 insert has been developed **with a retainer device on crimp contacts.**

This layout enables the wires to be connected to the socket and plug insert removable contacts by crimping them with a crimp tool and its locating turret.

The crimp connection is insured and is **extremely resistant even to the most insidious strains**, such as vibrations.

SUM-UP

- **Crimp connection**
- **Great resistance to strong vibrations**
- **For wires: up to 10 mm² (AWG 8)**
- **Auxiliary crimp contacts: silver or gold plated**

Inserts series		**CX 6/12**	
No. of poles	main contact	6 + ⏚ (40A)	
	auxiliary contacts	12 (10A)	
rated current		40A	10A
EN 61984 pollution degree 3	rated voltage	690V	230V/400V
	rated impulse withstand voltage	8kV	4kV
	pollution degree	3	3
contact resistance		≤ 0,3 mΩ (40A) ≤ 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**/IP69, IP66/**IP67**/IP69, IP66/**IP68**/IP69	
	without enclosures (in mated condition)	IP20 (IPXXB)	
conductor connections		crimp	
conductor cross-section	mm²	1,5 10	
	AWG	16 - 8	
conductor cross-section (CC contact series)	mm²	0,14 2,5	
	AWG	26 - 14	
CX/CC stripping lenght	mm	8 / 9 / 15	
mechanical endurance (mating cycles)		≥ 500	

CX 6 poles (40A - 690V) + 12 poles (10A - 230/400V) + ⏚

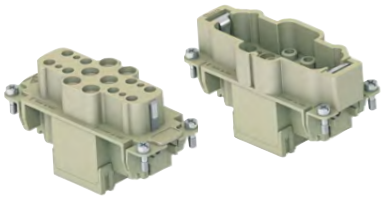
enclosures:
size "77.27"

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

panel supports:

	page:
COB	652 - 653

inserts, crimp connections



40A and 10A crimp contacts silver and gold plated

description	part No.	part No
without contacts (to be ordered separately)		
female inserts for female contacts	**CXF 6/12**	
male inserts for male contacts	**CXM 6/12**	
40A female crimp contacts		
1,5 mm² AWG 16		**CXFA 1.5**
2,5 mm² AWG 14		**CXFA 2.5**
4 mm² AWG 12		**CXFA 4.0**
6 mm² AWG 10		**CXFA 6.0**
10 mm² AWG 8		**CXFA 10**
40A male crimp contacts		
1,5 mm² AWG 16		**CXMA 1.5**
2,5 mm₂ AWG 14		**CXMA 2.5**
4 mm² AWG 12		**CXMA 4.0**
6 mm² AWG 10		**CXMA 6.0**
10 mm² AWG 8		**CXMA 10**
10A female contacts		
0,14-0,37 mm² AWG 26-22 identification No. 1		**CDFA 0.3** / **CDFD 0.3**
0,5 mm² AWG 20 identification No. 2		**CDFA 0.5** / **CDFD 0.5**
0,75 mm² AWG 18 identification No. ②		**CDFA 0.7** / **CDFD 0.7**
1 mm² AWG 18 identification No. 3		**CDFA 1.0** / **CDFD 1.0**
1,5 mm² AWG 16 identification No. 4		**CDFA 1.5** / **CDFD 1.5**
2,5 mm² AWG 14 identification No. 5		**CDFA 2.5** / **CDFD 2.5**
10A male contacts		
0,14-0,37 mm² AWG 26-22 identification No. 1		**CDMA 0.3** / **CDMD 0.3**
0,5 mm² AWG 20 identification No. 2		**CDMA 0.5** / **CDMD 0.5**
0,75 mm² AWG 18 identification No. ②		**CDMA 0.7** / **CDMD 0.7**
1 mm² AWG 18 identification No. 3		**CDMA 1.0** / **CDMD 1.0**
1,5 mm² AWG 16 identification No. 4		**CDMA 1.5** / **CDMD 1.5**
2,5 mm² AWG 14 identification No. 5		**CDMA 2.5** / **CDMD 2.5**

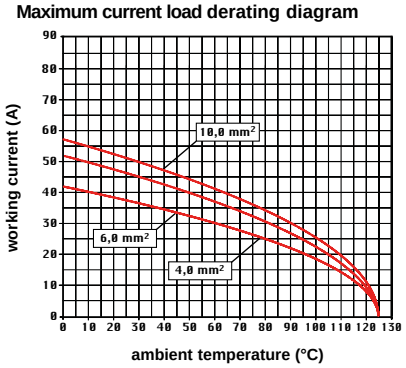
silver plated

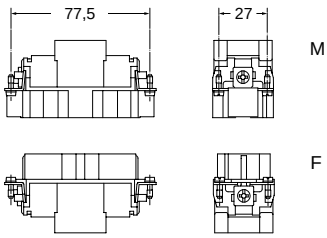
gold plated+

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

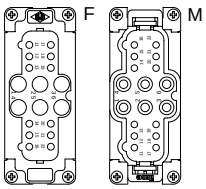
- characteristics according to EN 61984:
  40A 690V 8kV 3
  10A 230/400V 4kV 3
- DNV·GL BUREAU VERITAS EAC certified
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance:
  ≤ 0,3 mΩ (6 poles)
  ≤ 1 mΩ (12 poles)
- cable diameter: up to 7,5 mm
- contact section: up to 10 mm²
- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 40A contacts, CXF, CXM series and 10A contacts CDF, CDM series on pages 708 - 741
- for max. current load see the connector inserts derating diagram below; for more information see page 28

CX 6/12 power poles connector inserts
Maximum current load derating diagram

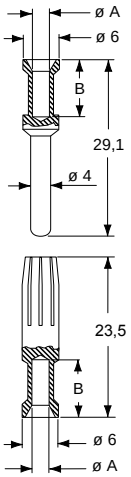




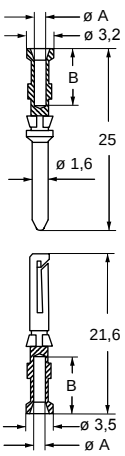
contacts side (front view)



CXF and CXM



CDF and CDM



CXF and CXM contacts

conductor section mm²	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
10	4,3	15
CDF and CDM contacts		
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

CX 6 poles (40A - 690V) + 36 poles (10A – 160V) + ⏚

enclosures:
size “77.27” **page:**

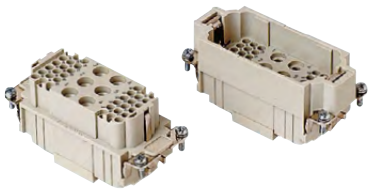
C-TYPE IP65/IP66	**402 - 411**
C7 IP67, two levers	**439 - 440**
V-TYPE IP65/IP66, single lever	**454 - 458**
BIG hoods	**470 - 471**
T-TYPE IP65 insulating	**484 - 485**
T-TYPE / W IP66/IP69 insulating	**491**
HYGIENIC T-TYPE / H IP66/IP69	**503**
HYGIENIC T-TYPE / C IP66/IP69, -50 °C	**508**
W-TYPE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

panel supports: **page:**

COB	**652 - 653**

- 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
without contacts (to be ordered separately)		
female inserts for female contacts	**CXF 6/36**	
male inserts for male contacts	**CXM 6/36**	
40A female crimp contacts		
1,5 mm² AWG 16		**CXFA 1.5**
2,5 mm² AWG 14		**CXFA 2.5**
4 mm² AWG 12		**CXFA 4.0**
6 mm² AWG 10		**CXFA 6.0**
40A male crimp contacts		
1,5 mm² AWG 16		**CXMA 1.5**
2,5 mm₂ AWG 14		**CXMA 2.5**
4 mm² AWG 12		**CXMA 4.0**
6 mm² AWG 10		**CXMA 6.0**
10A female contacts		
0,14-0,37 mm² AWG 26-22 identification No. 1		**CDFA 0.3** / **CDFD 0.3**
0,5 mm² AWG 20 identification No. 2		**CDFA 0.5** / **CDFD 0.5**
0,75 mm² AWG 18 identification No. ②		**CDFA 0.7** / **CDFD 0.7**
1 mm² AWG 18 identification No. 3		**CDFA 1.0** / **CDFD 1.0**
1,5 mm² AWG 16 identification No. 4		**CDFA 1.5** / **CDFD 1.5**
2,5 mm² AWG 14 identification No. 5		**CDFA 2.5** / **CDFD 2.5**
10A male contacts		
0,14-0,37 mm² AWG 26-22 identification No. 1		**CDMA 0.3** / **CDMD 0.3**
0,5 mm² AWG 20 identification No. 2		**CDMA 0.5** / **CDMD 0.5**
0,75 mm² AWG 18 identification No. ②		**CDMA 0.7** / **CDMD 0.7**
1 mm² AWG 18 identification No. 3		**CDMA 1.0** / **CDMD 1.0**
1,5 mm² AWG 16 identification No. 4		**CDMA 1.5** / **CDMD 1.5**
2,5 mm² AWG 14 identification No. 5		**CDMA 2.5** / **CDMD 2.5**

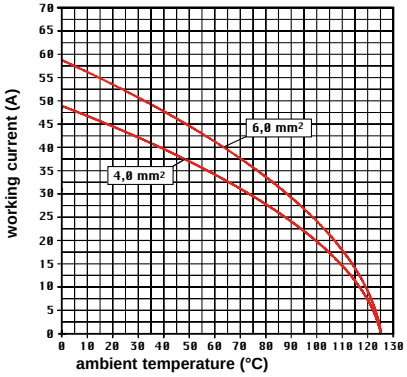
silver plated

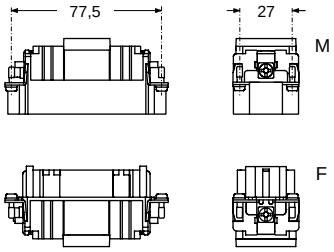
gold plated+

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

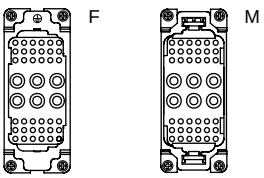
- characteristics according to EN 61984:
  40A 690V 8kV 3
  10A 160V 2,5kV 3
  10A 250V 4kV 2
- certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 0,3 mΩ (6 poles), ≤ 1 mΩ (36 poles)
- for max. current load see the connector inserts derating diagram below; for more information see page 28

CX 6/36 power poles connector inserts
Maximum current load derating diagram



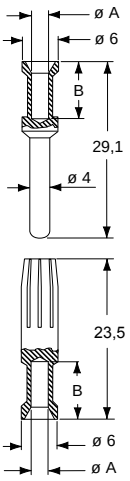


contacts side (front view)

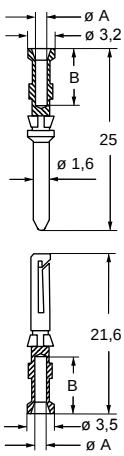


- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 40A contacts, CXF, CXM series and 10A contacts CDF, CDM series on pages 708 - 741

CXF and CXM



CDF and CDM



CXF and CXM contacts

conductor section mm²	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
CDF and CDM contacts		
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

CX 12 poles (40A - 690V) + 2 poles (10A - 250V) + ⏚

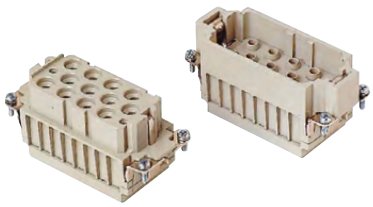
enclosures:
size "77.27"

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

panel supports: **page:**

COB	652 - 653

inserts, crimp connections



40A and 10A crimp contacts silver and gold plated

description	part No.	part No
without contacts (to be ordered separately)		
female inserts for female contacts	**CXF 12/2**	
male inserts for male contacts	**CXM 12/2**	
40A female crimp contacts		
1,5 mm² AWG 16		**CXFA 1.5**
2,5 mm² AWG 14		**CXFA 2.5**
4 mm² AWG 12		**CXFA 4.0**
6 mm² AWG 10		**CXFA 6.0**
40A male crimp contacts		
1,5 mm² AWG 16		**CXMA 1.5**
2,5 mm₂ AWG 14		**CXMA 2.5**
4 mm² AWG 12		**CXMA 4.0**
6 mm² AWG 10		**CXMA 6.0**
10A female contacts		
0,14-0,37 mm² AWG 26-22 identification No. 1		**CDFA 0.3** / **CDFD 0.3**
0,5 mm² AWG 20 identification No. 2		**CDFA 0.5** / **CDFD 0.5**
0,75 mm² AWG 18 identification No. ②		**CDFA 0.7** / **CDFD 0.7**
1 mm² AWG 18 identification No. 3		**CDFA 1.0** / **CDFD 1.0**
1,5 mm² AWG 16 identification No. 4		**CDFA 1.5** / **CDFD 1.5**
2,5 mm² AWG 14 identification No. 5		**CDFA 2.5** / **CDFD 2.5**
10A male contacts		
0,14-0,37 mm² AWG 26-22 identification No. 1		**CDMA 0.3** / **CDMD 0.3**
0,5 mm² AWG 20 identification No. 2		**CDMA 0.5** / **CDMD 0.5**
0,75 mm² AWG 18 identification No. ②		**CDMA 0.7** / **CDMD 0.7**
1 mm² AWG 18 identification No. 3		**CDMA 1.0** / **CDMD 1.0**
1,5 mm² AWG 16 identification No. 4		**CDMA 1.5** / **CDMD 1.5**
2,5 mm² AWG 14 identification No. 5		**CDMA 2.5** / **CDMD 2.5**

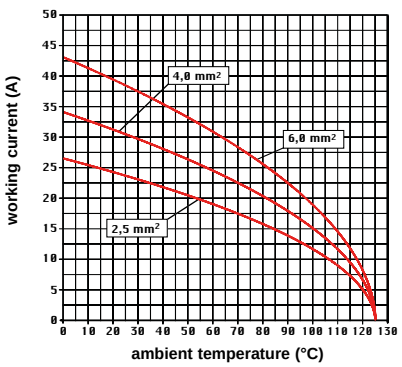
silver plated

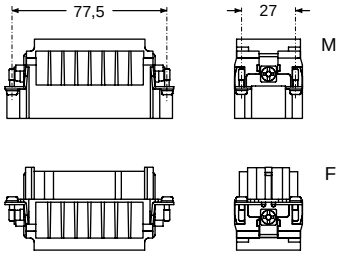
gold plated+

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

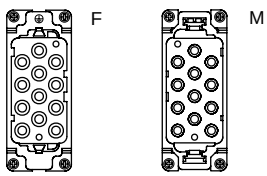
- characteristics according to EN 61984:
  40A 690V 8kV 3
  10A 250V 4kV 3
- certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 0,3 mΩ (12 poles), ≤ 1 mΩ (2 poles)
- for max. current load see the connector inserts derating diagram below; for more information see page 28

CX 12/2 power poles connector inserts
Maximum current load derating diagram



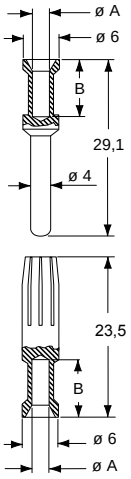


contacts side (front view)

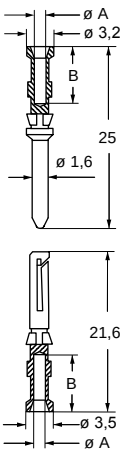


- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 40A contacts, CXF, CXM series and 10A contacts CDF, CDM series on pages 708 - 741

CXF and CXM



CDF and CDM



CXF and CXM contacts

conductor section mm²	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
CDF and CDM contacts		
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

CX 4 poles (80A - 830V) + 2 poles (16A - 400V) + ⏚

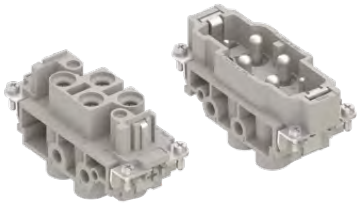
enclosures:
size “77.27” **page:**

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

panel supports: **page:**

COB	652 - 653

inserts,
screw terminal connection

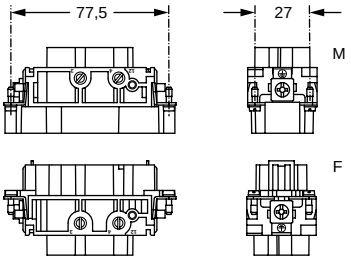


RATING 830V

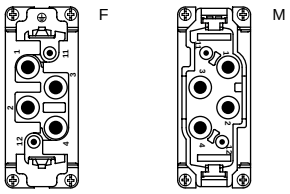
SILVER PLATED CONTACTS

description	part No.
female inserts with female contacts	**CXF 4/2**
male inserts with male contacts	**CXM 4/2**

- characteristics according to EN 61984:
  80A 830V 8kV 3
  16A 400V 6kV 3
  16A 400/690V 6kV 2
- certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance:
  ≤ 0,3 mΩ (4 poles)
  ≤ 1 mΩ (2 poles)
- for max. current load see the connector inserts derating diagrams below; for more information see page 28



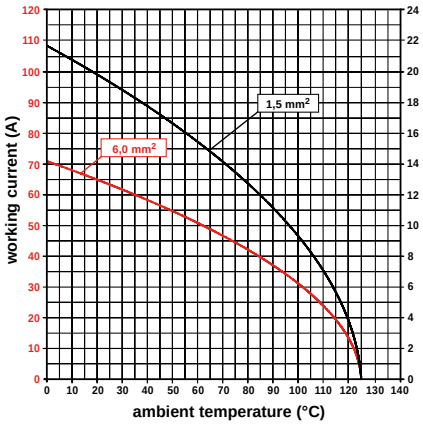
contacts side (front view)

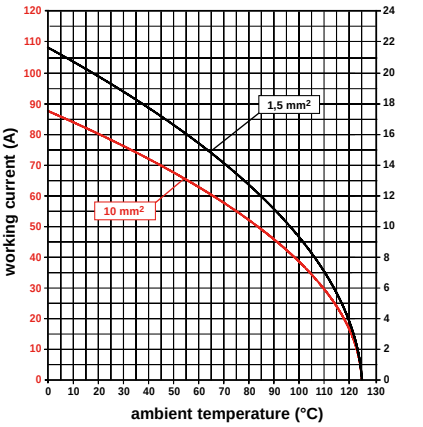


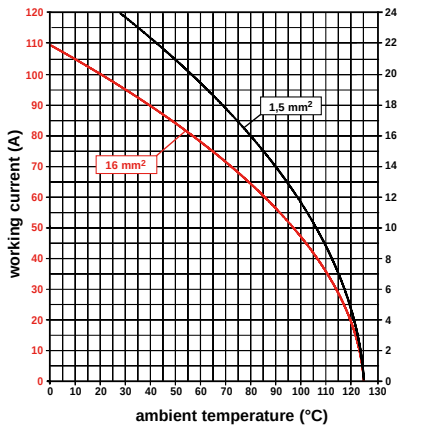
80A contacts
- without plate for section conductors:
  4 - 16 mm² - AWG 12 - 6
- conductors stripping lenght: 14 mm
- terminal screw torque: 2,5 Nm (22.1 lb.in), for more information see page 20 and 21

16A contacts
- without plate for section conductors:
  0,25 - 2,5 mm² - AWG 24 - 14
- conductors stripping lenght: 7 mm
- terminal screw torque: 0,5 Nm (4.4 lb.in), for more information see page 20 and 21

CX 4/2 poles connector inserts
Maximum current load derating diagram







NOTE
Any cross-sectional area on the signal side higher than that combined to the relevant cross-sectional area on the power side may be used, but with the derating curve for the cross-sectional area given as combined to that on the power side.

CX 6/6 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).

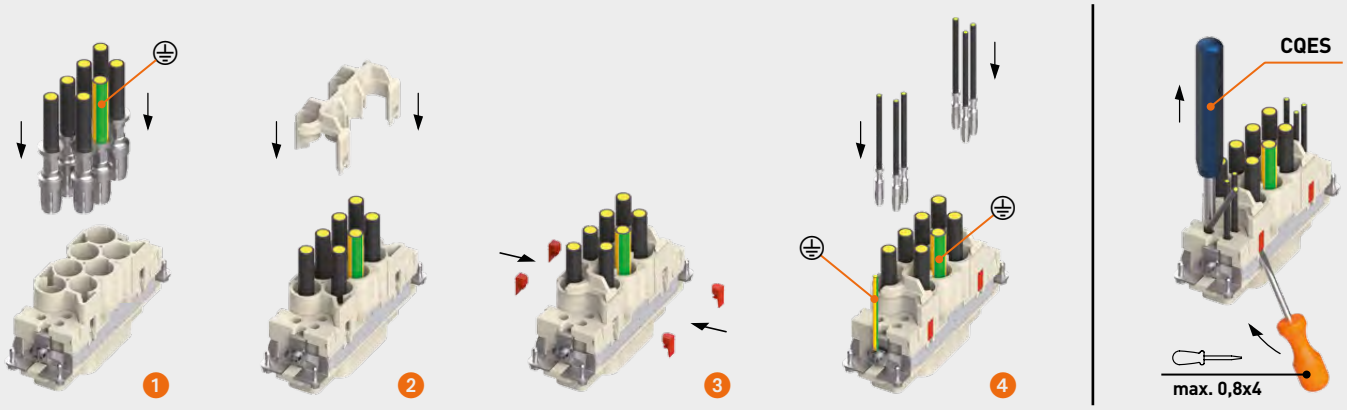
This innovative insert design, by following the same concepts of the MIXO 100A CX..G model, **patented by ILME**, ensures a quicker fitting and removal of crimped contacts.
The **provided locking keys** firmly fasten the contact holder.
The power contacts may be removed **without any special tool**, using a simple screwdriver (e.g.: 0,5 x 3 mm, 0,5 x 3,5 mm, 0,6 x 4 mm and 0,8 x 4 mm flat blade).
The removal of auxiliary contacts series CC requires the CQES extraction tool. See figure below.
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 6/6**	
No. of poles	main contact	6 + ⏚ (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		≤ 0,3 mΩ (100A) ≤ 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**/IP69, IP66/**IP67**/IP69, IP66/**IP68**/IP69	
	without enclosures (in mated condition)	IP20 (IPXXB)	
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 (mating 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° at contacts = 7)

CX 6/6 Assembling instructions



CX 6 poles + ⏚ (100A - 690V) + 6 poles (16A - 400V) + ⏚

enclosures:
size "104.27" **page:**

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

panel supports: **page:**
COB **652 - 653**

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

inserts, crimp connections

100A and 16A crimp contacts silver and gold plated

description	part No.	part No
without contacts (to be ordered separately)		
female inserts for female contacts	**CXF 6/6**	
male inserts for male contacts	**CXM 6/6**	
100A female crimp contacts		
8 - 10 mm² AWG 8 - 7		**CGFA 10**
16 mm² AWG 6 - 5		**CGFA 16**
25 mm² AWG 4 - 3		**CGFA 25**
35 mm² AWG 2		**CGFA 35**
100A male crimp contacts		
8 - 10 mm² AWG 8 - 7		**CGMA 10**
16 mm² AWG 6 - 5		**CGMA 16**
25 mm² AWG 4 - 3		**CGMA 25**
35 mm² AWG 2		**CGMA 35**
16A female contacts		
0,14-0,37 mm² AWG 26-22 one groove		**CCFA 0.3** / **CCFD 0.3**
0,5 mm² AWG 20 with no grooves		**CCFA 0.5** / **CCFD 0.5**
0,75 mm² AWG 18 one groove (back side)		**CCFA 0.7** / **CCFD 0.7**
1 mm² AWG 18 one groove		**CCFA 1.0** / **CCFD 1.0**
1,5 mm² AWG 16 two grooves		**CCFA 1.5** / **CCFD 1.5**
2,5 mm² AWG 14 three grooves		**CCFA 2.5** / **CCFD 2.5**
3 mm² AWG 12 one wide groove		**CCFA 3.0** / **CCFD 3.0**
4 mm² AWG 12 with no grooves		**CCFA 4.0** / **CCFD 4.0**
16A male contacts		
0,14-0,37 mm² AWG 26-22 one groove		**CCMA 0.3** / **CCMD 0.3**
0,5 mm² AWG 20 with no grooves		**CCMA 0.5** / **CCMD 0.5**
0,75 mm² AWG 18 one groove (back side)		**CCMA 0.7** / **CCMD 0.7**
1 mm² AWG 18 one groove		**CCMA 1.0** / **CCMD 1.0**
1,5 mm² AWG 16 two grooves		**CCMA 1.5** / **CCMD 1.5**
2,5 mm² AWG 14 three grooves		**CCMA 2.5** / **CCMD 2.5**
3 mm² AWG 12 one wide groove		**CCMA 3.0** / **CCMD 3.0**
4 mm² AWG 12 with no grooves		**CCMA 4.0** / **CCMD 4.0**

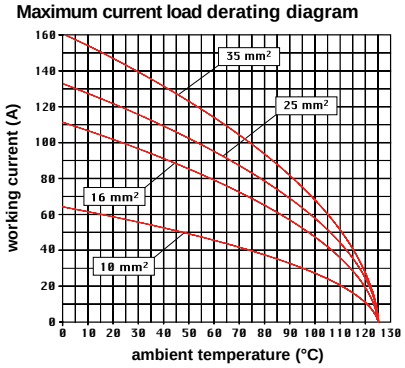
silver plated

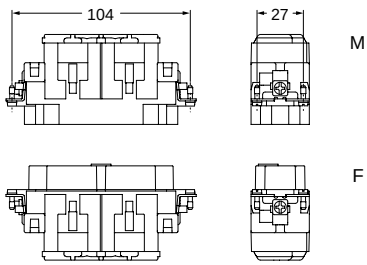
gold plated+

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

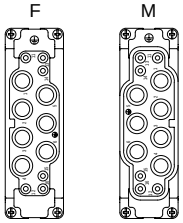
- characteristics according to EN 61984:
  100A 690V 8kV 3
  16A 400V 6kV 3
- c UL us (UL for USA and Canada), cULus, cec, DNV·GL, BUREAU VERITAS, EAC certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 0,3 mΩ (100A), ≤ 1 mΩ (16A)
- for max. current load see the connector inserts derating diagram below; for more information see page 28

CX 6/6 power poles connector inserts
Maximum current load derating diagram



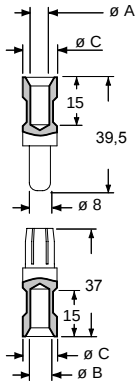


contacts side (front view)

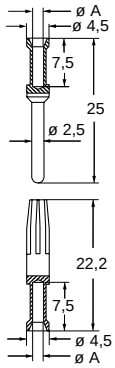


- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 100A contacts CGF, CGM series and 16A contacts CCF, CCM series) on pages 708 - 741

CGF and CGM



CCF and CCM



CGF and CGM contacts

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

CCF and CCM contacts

conductor section (mm²)	conductor slot ø A (mm)	conductors stripping length (mm)
0,14-0,37	0,9	7,5
0,5	1,1	7,5
0,75	1,3	7,5
1,0	1,45	7,5
1,5	1,8	7,5
2,5	2,2	7,5
3	2,55	7,5
4	2,85	7,5

RXF/M 12/2

TECHNICAL FEATURES

Special **HNM** version (**High Number of Matings** up to 10.000 cycles) of CXF/M 12/2 connector inserts, to be used in combination with:

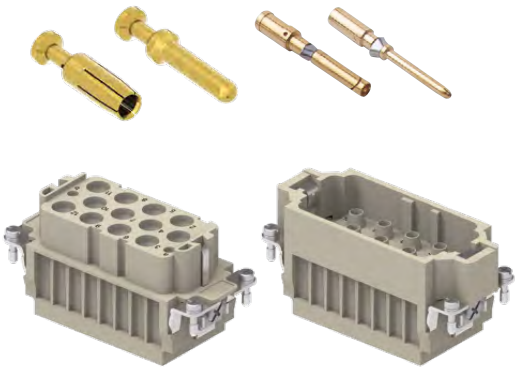
- **up to 12 40A HNM gold plated removable crimp contacts** of the **new RX** series,
- **2 10A HNM gold plated removable crimp contacts** of the **already available RD series;**

- crimp connector inserts with a combination of 12 power contacts (40A) plus 2 auxiliary contacts (10A) + PE;

- suitable for the operation of 4 three-phase AC motors with 2 auxiliary contacts;

- featuring a special antifriction treatment to guarantee up to **10.000 mating cycles**

- **5.000 mating cycles** with standard enclosures, single lever (excluding size “44.27”).



SUM-UP

- **Crimp connection**
- **Great resistance to strong vibrations**
- **For wires: up to 10 mm² (AWG 8)**
- **Auxiliary crimp contacts: gold plated**

RX 12 poles (40A - 690V) + 2 poles (10A - 250V) + ⏚ HNM (High Number of Matings)

enclosures:
size "77.27" **page:**

HNM	**596 - 597**
C-TYPE IP65/IP66, single lever	**402 - 411**
V-TYPE IP65/IP66, single lever	**454 - 458**

inserts, crimp connections

10.000 MATINGS WITH HNM ENCLOSURES

5.000 MATINGS WITH STANDARD ENCLOSURES, SINGLE LEVER

40A and 10A crimp contacts gold plated

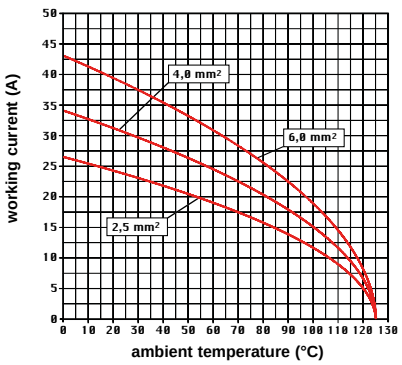
HNM

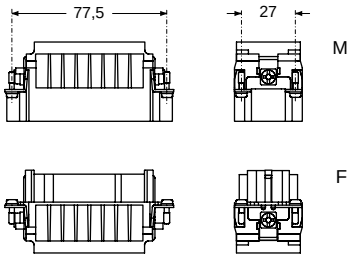
description	part No.	part No
without contacts (to be ordered separately)		
female inserts for female contacts	**RXF 12/2**	
male inserts for male contacts	**RXM 12/2**	
40A female crimp contacts		
1,5 mm² AWG 16		**RXF2D 1.5**
2,5 mm² AWG 14		**RXF2D 2.5**
4 mm² AWG 12		**RXF2D 4.0**
6 mm² AWG 10		**RXF2D 6.0**
40A male crimp contacts		
1,5 mm² AWG 16		**RXM2D 1.5**
2,5 mm₂ AWG 14		**RXM2D 2.5**
4 mm² AWG 12		**RXM2D 4.0**
6 mm² AWG 10		**RXM2D 6.0**
10A female contacts		
0,14-0,37 mm² AWG 26-22 identification No. 1		**RDF2D 0.3**
0,5 mm² AWG 20 identification No. 2		**RDF2D 0.5**
0,75 mm² AWG 18 identification No. ②		**RDF2D 0.7**
1 mm² AWG 18 identification No. 3		**RDF2D 1.0**
1,5 mm² AWG 16 identification No. 4		**RDF2D 1.5**
2,5 mm² AWG 14 identification No. 5		**RDF2D 2.5**
10A male contacts		
0,14-0,37 mm² AWG 26-22 identification No. 1		**RDM2D 0.3**
0,5 mm² AWG 20 identification No. 2		**RDM2D 0.5**
0,75 mm² AWG 18 identification No. ②		**RDM2D 0.7**
1 mm² AWG 18 identification No. 3		**RDM2D 1.0**
1,5 mm² AWG 16 identification No. 4		**RDM2D 1.5**
2,5 mm² AWG 14 identification No. 5		**RDM2D 2.5**

gold plated

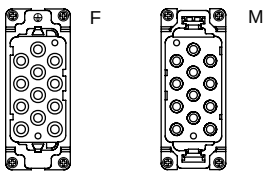
- characteristics according to EN 61984:
  40A 690V 8kV 3
  10A 250V 4kV 3
- cURus, CSA, CQC, DNV-GL, BV, EAC pending
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 10.000 cycles
- contact resistance: ≤ 0,3 mΩ (12 poles), ≤ 1 mΩ (2 poles)
- for max. current load see the connector inserts derating diagram below; for more information see page 28

RX 12/2 power poles connector inserts
Maximum current load derating diagram



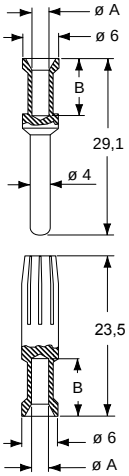


contacts side (front view)

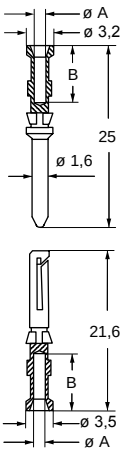


- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 40A contacts, RXF2D, RXM2D series and 10A contacts RDF2D, RDM2D series) on pages 708 - 741

RXF2D and RXM2D



RDF2D and RDM2D



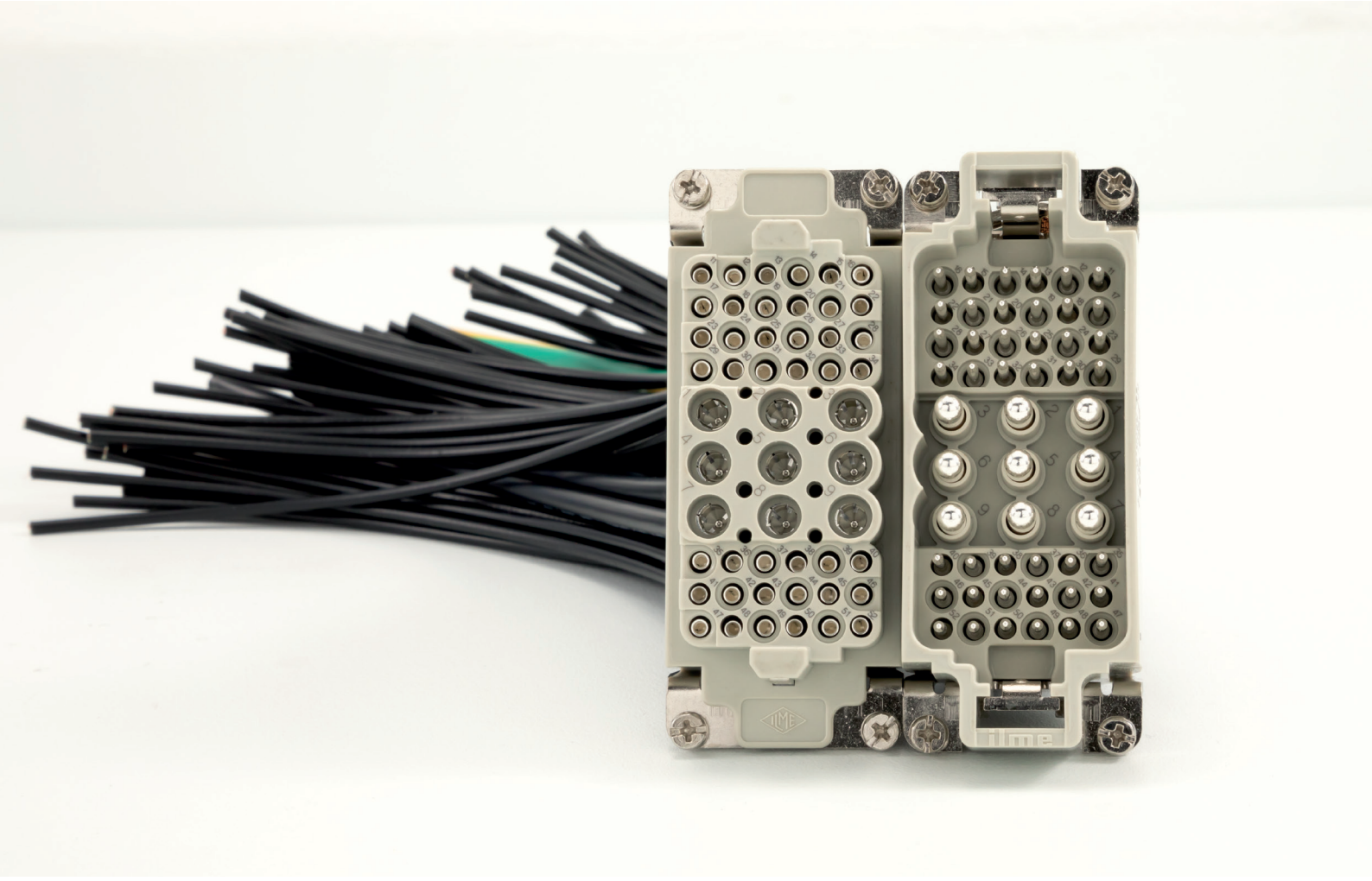
RXF2D and RXM2D contacts

conductor cross-sectional area mm²	conductor slot ø A (mm)	conductor stripping length B (mm)
1,5	1,8	9
2,5	2,2	9
4	2,85	9,6
6	3,5	9,6

RDF2D and RDM2D contacts

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

CX SERIES COMBINED INSERT
CXF /M 9/42



CX Series - Combined insert

9 poles core high power portion

40 A 690 V 8 kV 3

42 poles peripheral “mid power/auxiliary” portions

10 A 250 V 4 kV 3

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

TECHNICAL FEATURES

CXF /M 9/42

- Proprietary design, it expands the range of “power + auxiliaries” combined connector series.

- Combined connector for high power + mid power and a large number of signals and auxiliary circuits.

- EN/IEC 61984 ratings:
  - **40 A 690 V 8 kV 3** (core “high power” portion, 9 contact positions),
  - **10 A 250 V 4 kV 3** (peripheral “mid power/auxiliary” portions, 24+18=42 contact positions)

- Lower and Upper Limiting Temperatures (LLT … ULT): -40 °C … +125 °C.

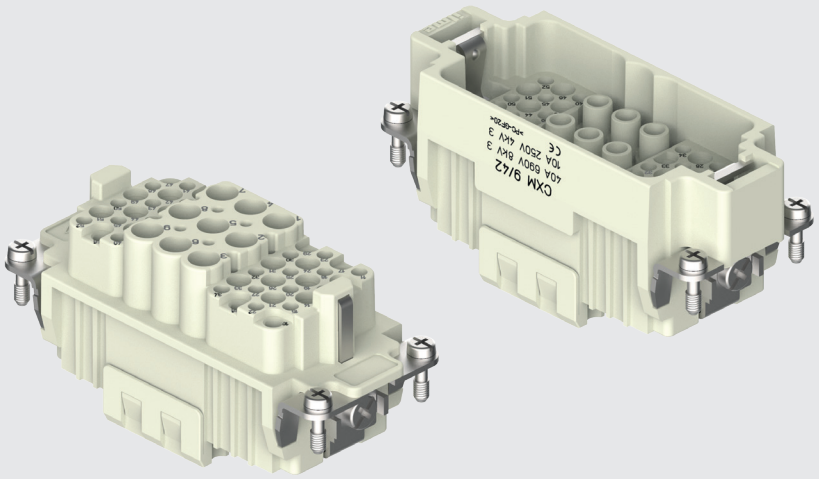
- Suitable for removable crimp contacts series **CX** up to size **6.0** (6 mm² / 10 AWG) and series **CD** up to size **2.5** (2,5 mm² / 14 AWG).

- Covers up to three 3Φ AC motors (3 axes with high-power motion control system) and 24 + 18 = 42 poles in peripheral mid-power/auxiliaries sections, to cover e.g. 4 additional motion control axes with 12 of the 18-pole portion, and the remaining 30 contacts serving auxiliary and signal contacts (I/O, solenoids, etc.).

- Max diameter of wire sheathing:
  - **5,0 mm** in the 9P “high power” core portion,
  - **3,8 mm** in the 42P “mid-power/aux” peripheral portions.

- Matches the wiring of two separate cables in a single connector insert: one cable for powering motors and relevant braking circuits, the other cable for their encoder signals (position control).

proprietary design fulfilling minituarization trend in robotics: more power contacts and more auxiliary contacts in smaller size



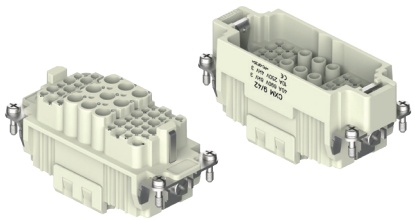
CX Combined 9 poles (40 A - 690 V) + 42 poles (10 A - 250 V) + ⏚

enclosures:
size "77.27"

	page:
C-TYPE IP65/IP66	402 - 411
C7 IP67, two levers	439 - 440
V-TYPE IP65/IP66, single lever	454 - 458
BIG hoods	470 - 471
T-TYPE IP65 insulating	484 - 485
T-TYPE / W IP66/IP69 insulating	491
HYGIENIC T-TYPE / H IP66/IP69	503
HYGIENIC T-TYPE / C IP66/IP69, -50 °C	508
W-TYPE for aggressive environments	523
E-Xtreme® corrosion proof 534 - 535, 544, 554 - 555	
EMC	580
Central lever	609 - 611
LS-TYPE	622 - 623
IP68	640 - 643
panel supports:	**page:**
COB	652 - 653

refer to CN.19 pages

inserts, crimp connections



FROM MARCH 2020

40 A and 10 A crimp contacts silver and gold plated

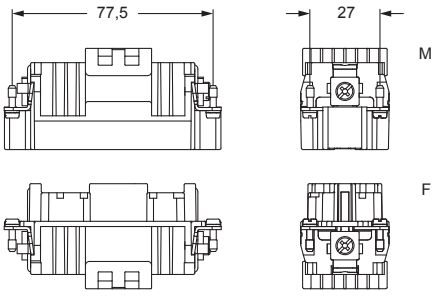
description	part No.	part No.	part No.
without contacts (to be ordered separately)			
female inserts for female contacts	**CXF 9/42**		
male inserts for male contacts	**CXM 9/42**		
40 A female crimp contacts			
1,5 mm² AWG 16		**CXFA 1.5**	
2,5 mm² AWG 14		**CXFA 2.5**	
4 mm² AWG 12		**CXFA 4.0**	
6 mm² AWG 10		**CXFA 6.0**	
40 A male crimp contacts			
1,5 mm² AWG 16		**CXMA 1.5**	
2,5 mm₂ AWG 14		**CXMA 2.5**	
4 mm² AWG 12		**CXMA 4.0**	
6 mm² AWG 10		**CXMA 6.0**	
10 A female contacts			
0,14-0,37 mm² AWG 26-22 identification No. 1		**CDFA 0.3**	**CDFD 0.3**
0,5 mm² AWG 20 identification No. 2		**CDFA 0.5**	**CDFD 0.5**
0,75 mm² AWG 18 identification No. ②		**CDFA 0.7**	**CDFD 0.7**
1 mm² AWG 18 identification No. 3		**CDFA 1.0**	**CDFD 1.0**
1,5 mm² AWG 16 identification No. 4		**CDFA 1.5**	**CDFD 1.5**
2,5 mm² AWG 14 identification No. 5		**CDFA 2.5**	**CDFD 2.5**
10 A male contacts			
0,14-0,37 mm² AWG 26-22 identification No. 1		**CDMA 0.3**	**CDMD 0.3**
0,5 mm² AWG 20 identification No. 2		**CDMA 0.5**	**CDMD 0.5**
0,75 mm² AWG 18 identification No. ②		**CDMA 0.7**	**CDMD 0.7**
1 mm² AWG 18 identification No. 3		**CDMA 1.0**	**CDMD 1.0**
1,5 mm² AWG 16 identification No. 4		**CDMA 1.5**	**CDMD 1.5**
2,5 mm² AWG 14 identification No. 5		**CDMA 2.5**	**CDMD 2.5**

silver plated

gold plated+

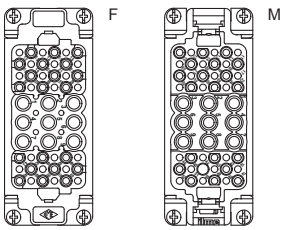
+ for basic or high thickness gold plating, please refer to page 674 of CN.19 catalogue

- characteristics according to EN/IEC 61984 ratings:
  40 A 690 V 8 kV 3
  10 A 250 V 4 kV 3
- cUL (UL for USA and Canada), CSA, CQC, DNV-GL, BV, EAC pending
- rated voltage according to UL/CSA: 600 V
- insulation resistance: ≥ 10 GΩ
- Lower and Upper Limiting Temperatures (LLT … ULT): -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 0,3 mΩ (CX power contacts)
  ≤ 3 mΩ (CX auxiliary contacts)
- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 40A contacts CXF and CXM series and 10A contacts CDF, CDM series,on pages 708 - 741 of CN.19 catalogue).
  For 40 A contacts and 10 A contacts see also new pneumatic crimping tool CCPZP RN (see page 145)
- for max. current load see the connector inserts derating diagrams **under construction**.

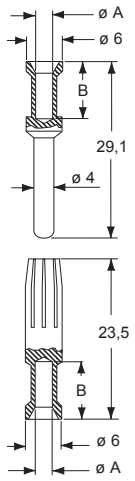


contacts side (front view)

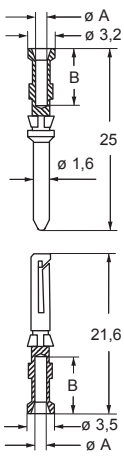
side with reference arrow ▲



CXF and CXM



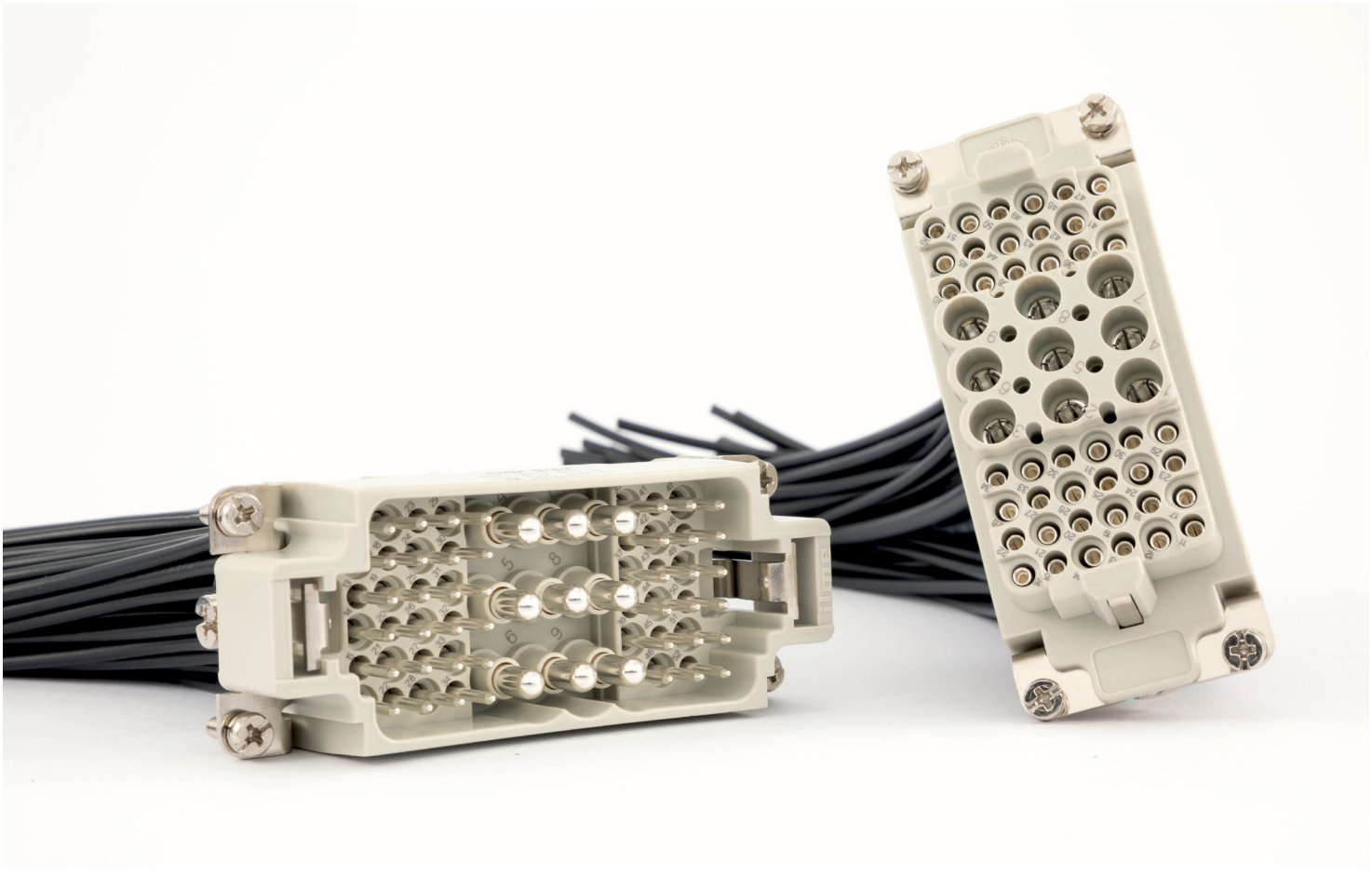
CDF and CDM



CXF and CXM contacts

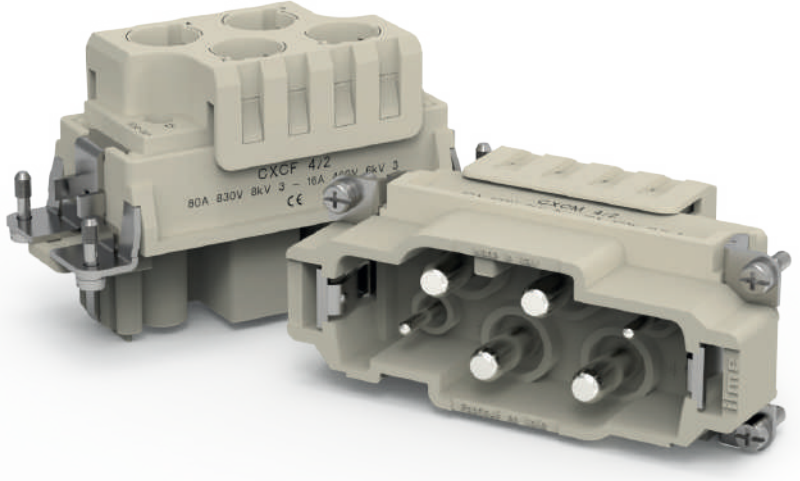
conductor section mm²	conductor slot ø A (mm)	conductors stripping length B (mm)
1,5	1,8	9
2,5	2,2	9
4	2,85	9,6
6	3,5	9,6
CDF and CDM contacts		
0,14-0,37	0,9	8
0,5	1,1	8
0,75	1,3	8
1,0	1,45	8
1,5	1,8	8
2,5	2,2	6

CXF 9/42, CXM 9/42 COMBINED INSERT



CXC SERIES - CRIMP COMBINED CONNECTOR

CXCF /M 4/2



CXC Combined power/auxiliaries crimp connector Series

4 poles + ⏚: 80 A 830 V 8 kV 3

2 poles + ⏚: 16 A 400 V 6 kV 3

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

TECHNICAL FEATURES

CXCF /M 4/2

For use with up to 4 removable crimp contacts series **CX7** (power side) and up to 2 removable crimp contacts series **CC** (auxiliary/signal side).

For use with working current on power contacts up to 80 A (see focus on page 22) and on auxiliary contacts up to 16 A.

Interchangeable and intermateable with the screw-type version **CXF/M 4/0** and **CXF/M 4/2** (see CN.19 catalogue pages 200-201), same voltage and current ratings.
NOTE – Where screw-type version of connector exists, e.g. **CX 4/2**, **CX 4/8**, to identify the crimp variant a C is being added in the code of the "crimp" version. Crimp versions allow on power poles use of conductors with cross-sectional area up to 25 mm^2 / 4-3 AWG.

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

By employing crimp contacts, it covers all applications demanding the highest vibration resistance (e.g. railway rolling stock).

CX7 contacts available in 4 sizes (6.0 /10 /16 /25) to match equally sized conductors (mm^2).

Removal tool for CX7 contacts:
CX7ES (improved shape of existing C7ES to better fit application in these inserts).

Removal tool for CC contacts:
CQES.

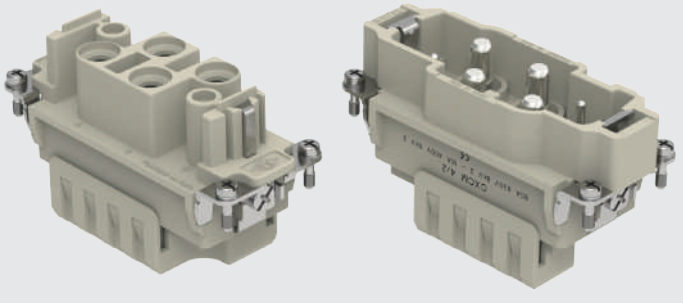
Max diameter of wire shealthings:
- 10 mm in the 4P power core section
- 4.5 mm in the 2P auxiliaries

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

RoHS: compliant without exemptions.
NOTE - The turned crimp contacts series **CX7** and **CC** are **RoHS** compliant with exemption **6(c)**.

crimp variant intermateable with corresponding screw-type version CX 4/2, CX 4/0, to cover all applications demanding the highest vibration resistance

crimp contacts CX7 and CC series are separately available



CXCF /M 4/2 4 poles (80 A - 830 V) + 2 poles (16 A - 400 V) + ⏚

enclosures:
size "77.27" **page:**

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

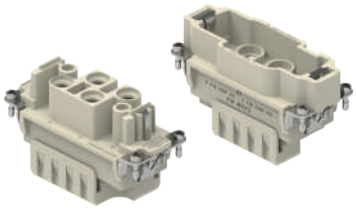
panel supports:

COB	**652 - 653**

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

refer to CN.19 pages

inserts, crimp connections



FROM SEPTEMBER 2021

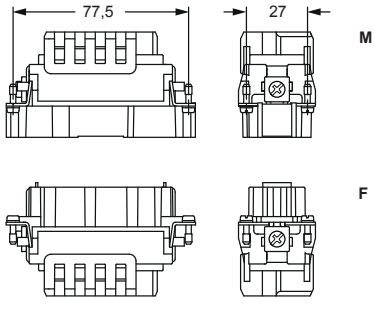
80 A crimp contacts silver plated

description	part No.	part No.
without contacts (to be ordered separately)		
female inserts for female contacts	**CXCF 4/2**	
male inserts for male contacts	**CXCM 4/2**	
80 A female crimp contacts		
6 mm² AWG 10		**CX7FA 6.0**
10 mm² AWG 8 - 7		**CX7FA 10**
16 mm² AWG 6 - 5		**CX7FA 16**
25 mm² AWG 4 - 3		**CX7FA 25**
80 A male crimp contacts		
6 mm² AWG 10		**CX7MA 6.0**
10 mm² AWG 8 - 7		**CX7MA 10**
16 mm² AWG 6 - 5		**CX7MA 16**
25 mm² AWG 4 - 3		**CX7MA 25**

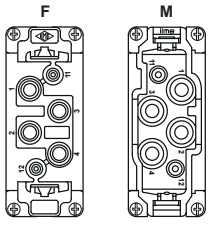
silver plated

- characteristics according to EN/IEC 61984 ratings:
  80 A 830 V 8 kV 3
  16 A 400 V 6 kV 3
- cURus, CSA, CQC, DNV-GL, BV, EAC pending
- rated voltage according to UL/CSA: 600 V
- insulation resistance: ≥ 10 GΩ
- Lower and Upper Limiting Temperatures (LLT … ULT): -40 °C ... +125 °C
- made by UL 94V-0 glass reinforced polycarbonate, EN 45545-2:2015 compliant
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 0,3 mΩ (4 power poles)
  ≤ 1 mΩ (2 auxiliary poles)
- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 70 A contacts CX7F and CX7M series and 16 A contacts CCF, CCM series,on pages 708 - 741 of CN.19 catalogue).
- for max. current load see the connector inserts derating diagrams **under construction**.

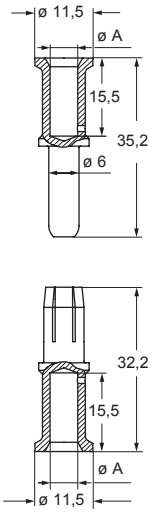
CXC 4/2



contacts side (front view)



CX7F and CX7M

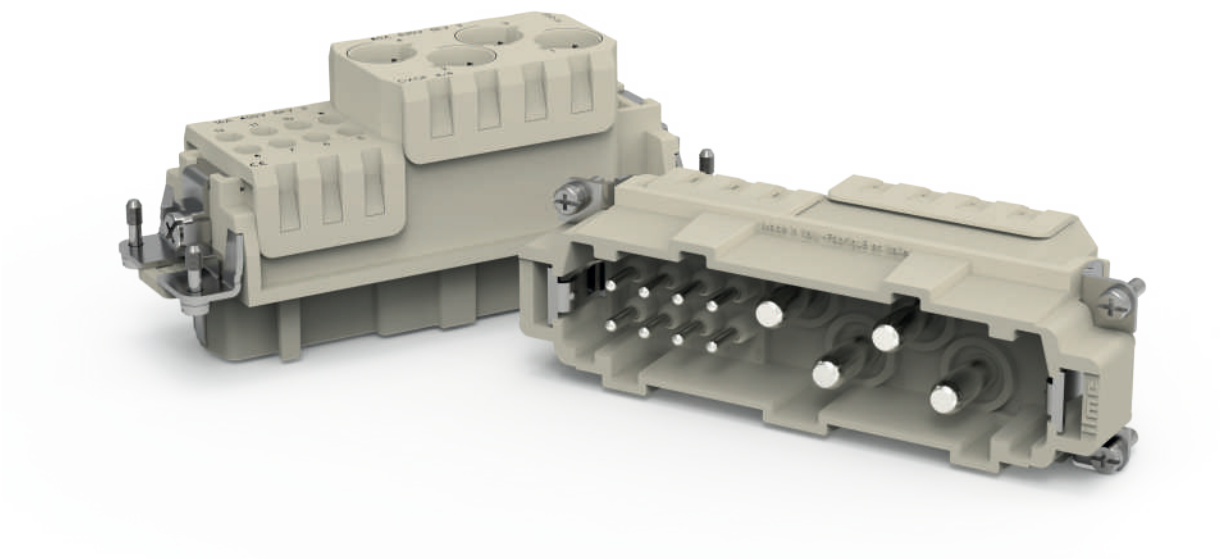


CX7F and CX7M contacts

conductor section (mm²)	conductor slot ø A (mm)	conductor stripping length (mm)
6	3,5	15
10	4,3	15
16	5,5	15
25	7,0	15

CXC SERIES - CRIMP COMBINED CONNECTOR

CXCF /M 4/8



CXC Combined power/auxiliaries crimp connector Series

4 poles + ⏚: 80 A 400 V 6 kV 3

8 poles + ⏚: 16 A 230/400 V 4 kV 3

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

TECHNICAL FEATURES

CXCF /M 4/8

For use with up to 4 removable crimp contacts series **CX7** (power side) and up to 8 removable crimp contacts series **CC** (auxiliary/signal side).

For use with working current on power contacts up to 80 A (see focus on page 22) and on auxiliary contacts up to 16 A.

Interchangeable and intermateable with the screw-type version **CXF /M 4/8** (see CN.19 catalogue page 204), same voltage and current ratings. Inserts made by UL 94V-0 glass reinforced polycarbonate, EN 45545-2:2015 compliant.
NOTE – Where the screw-type version of a connector exists, e.g. **CX 4/2**, **CX 4/8**, to identify the crimp variant a C is being added in the code of the "crimp" version. Crimp versions allow on power poles use of conductors with cross-sectional area up to 25 mm² / 4-3 AWG.

By employing crimp contacts, it covers all applications demanding the highest vibration resistance (e.g. railway rolling stock, ships).

CX7 contacts available in 4 sizes (6.0 /10 /16 /25) to match equally sized conductors (mm²).

Removal tool for CX7 contacts:
CX7ES (improved shape of existing C7ES to better fit application in these inserts).

Removal tool for CC contacts:
CQES

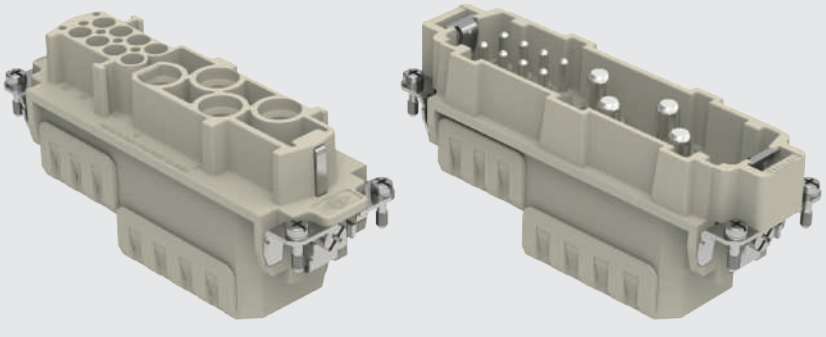
Max diameter of wire shealthings:
- 10 mm in the 4P power core section
- 4.5 mm in the 8P auxiliaries

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

RoHS: compliant without exemptions
NOTE - The turned crimp contacts series **CX7** and **CC** are **RoHS** compliant with exemption **6(c)**.

crimp variant of CXF /M 4/8, to cover all applications demanding the highest vibration resistance

crimp contacts CX7 and CC series are separately available



CXCF /M 4/8 4 poles (80 A - 400 V) + 8 poles (16 A - 230/400 V) + ⏚

enclosures:
size "104.27" — **page:**

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

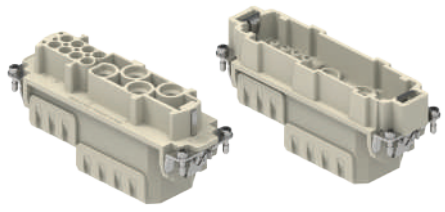
panel supports:

COB	**652 - 653**

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

refer to CN.19 pages

inserts, crimp connections



FROM SEPTEMBER 2021

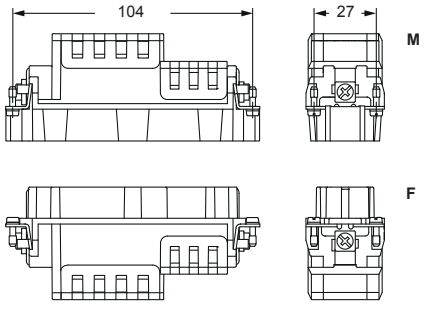
80 A crimp contacts
silver plated

description	part No.	part No.
without contacts (to be ordered separately)		
female inserts for female contacts	**CXCF 4/8**	
male inserts for male contacts	**CXCM 4/8**	
80 A female crimp contacts		
6 mm² AWG 10		**CX7FA 6.0**
10 mm² AWG 8 - 7		**CX7FA 10**
16 mm² AWG 6 - 5		**CX7FA 16**
25 mm² AWG 4 - 3		**CX7FA 25**
80 A male crimp contacts		
6 mm² AWG 10		**CX7MA 6.0**
10 mm² AWG 8 - 7		**CX7MA 10**
16 mm² AWG 6 - 5		**CX7MA 16**
25 mm² AWG 4 - 3		**CX7MA 25**

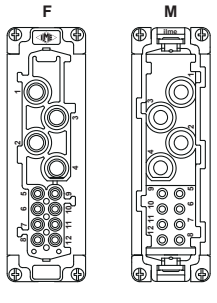
silver plated

- characteristics according to EN/IEC 61984 ratings:
  80 A 400 V 6 kV 3
  16 A 230/400 V 4 kV 3
- cURus, CSA, CQC, DNV-GL, BV, EAC pending
- rated voltage according to UL/CSA: 600 V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made by UL 94V-0 glass reinforced polycarbonate, EN 45545-2:2015 compliant
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 0,3 mΩ (4 power poles)
  ≤ 1 mΩ (8 auxiliary poles)
- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 70 A contacts CX7F and CX7M series and 16 A contacts CCF, CCM series,on pages 708 - 741 of CN.19 catalogue).
- for max. current load see the connector inserts derating diagrams **under construction**.

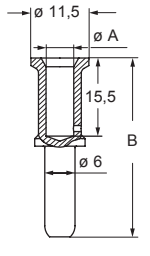
CXC 4/8

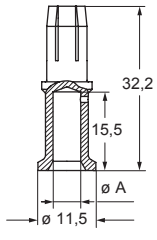


contacts side (front view)



CX7F and CX7M





CX7F and CX7M contacts

conductor section (mm²)	conductor slot ø A (mm)	B (mm)	conductor stripping length (mm)
6	3,5	36,0	15
10	4,3	35,2	15
16	5,5	35,2	15
25	7,0	35,2	15