CC crimp contacts

inserts		page:
CDC	10, 16 poles + ⏚	**104 - 105**
CCE	6, 10, 16, 24, 32, 48 poles + ⏚	**130 - 135**
CMCE	3+2, 6+2, 10+2, 12+4, 20+4 (aux) poles + ⏚	**137 - 145**
CQE	10, 18, 32, 46, 64, 92 poles + ⏚	**168 - 173**
CQEE	40, 64 poles + ⏚	**176 - 177**
CQ	5 poles + ⏚	**186**
CX	8/24 poles + ⏚	**194**
CX	6/6 poles + ⏚	**206**
MIXO (16A)		**275 - 289**

constantan (Cu Ni)
crimp contacts

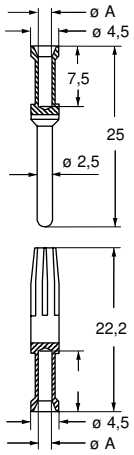
iron (Fe)
crimp contacts

description	part No.	part No.
16A, 0,3 mm², AWG 22 female contacts	**CCFC 0.3**	**CCFF 0.3**
16A, 0,3 mm², AWG 22 male contacts	**CCMC 0.3**	**CCMF 0.3**
16A, 0,5 mm², AWG 20 female contacts	**CCFC 0.5**	**CCFF 0.5**
16A, 0,5 mm², AWG 20 male contacts	**CCMC 0.5**	**CCMF 0.5**

Note:
A mixed combination of iron, constantan and silver and gold plated contacts can be fitted in the same insert.

- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 16A contacts, CCF and CCM on pages 705 - 741)
- for type J (iron - constantan) thermocouples compliant with EN 60584-1
- contact resistance ≤ 1 Ohm

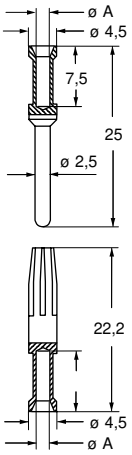
CCF and **CCM**



CCF and CCM contacts

conductor section mm²	conductor slot ø A (mm)	conductors stripping length mm
0,3	1,1	7,5
0,5	1,1	7,5

CCF and **CCM**



CCF and CCM contacts

conductor section mm²	conductor slot ø A (mm)	conductors stripping length mm
0,3	1,1	7,5
0,5	1,1	7,5

CD crimp contacts 10A

inserts		page:
CD	(10A)	**66 - 74**
CDD	(10A)	**76 - 83**
CQ	(10A)	**187 - 193**
CX 8/24	(16A / 10A)	**194**
CX 6/**36**	(10A)	**198**
CX 12/**2**	(10A)	**199**
MIXO	(10A)	**271 - 283**

10A crimp contacts
high thickness gold plated

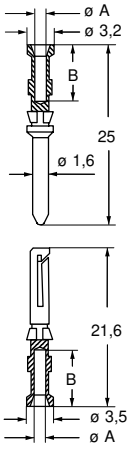
10A crimp contacts
basic gold plated

description			part No.	part No.
10A female contacts				
0,14-0,37 mm²	AWG 26-22	identification No. 1	**CDF2D 0.3**	**CDFJD 0.3**
0,5 mm²	AWG 20	identification No. 2	**CDF2D 0.5**	**CDFJD 0.5**
0,75 mm²	AWG 18	identification No. ②	**CDF2D 0.7**	**CDFJD 0.7**
1,0 mm²	AWG 18	identification No. 3	**CDF2D 1.0**	**CDFJD 1.0**
1,5 mm²	AWG 16	identification No. 4	**CDF2D 1.5**	**CDFJD 1.5**
2,5 mm²	AWG 14	identification No. 5	**CDF2D 2.5**	**CDFJD 2.5**
10A male contacts				
0,14-0,37 mm²	AWG 26-22	identification No. 1	**CDM2D 0.3**	**CDMJD 0.3**
0,5 mm²	AWG 20	identification No. 2	**CDM2D 0.5**	**CDMJD 0.5**
0,75 mm²	AWG 18	identification No. ②	**CDM2D 0.7**	**CDMJD 0.7**
1,0 mm²	AWG 18	identification No. 3	**CDM2D 1.0**	**CDMJD 1.0**
1,5 mm²	AWG 16	identification No. 4	**CDM2D 1.5**	**CDMJD 1.5**
2,5 mm²	AWG 14	identification No. 5	**CDM2D 2.5**	**CDMJD 2.5**

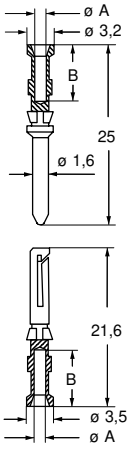
gold plated

The gold plated contacts provide:
- corrosion resistance (according to EN 60068)
- mechanical life: ≥ 500 coupling cycles
- in compliance with EN 61984:2009, IEC 60512, EN 60352-2: 1994
- compliant to directive RoHS2
- contact resistance: ≤ 3 mΩ
- certifications: c UL us (UL for USA and Canada), SP

CDF2D and **CDM2D**



CDFJD and **CDMJD**



contacts CDF2D and CDM2D

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

contacts CDFJD and CDMJD

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

CC crimp contacts 16A

inserts		page:
CDC	(16A)	**104 - 106**
CCE	(16A)	**130 - 135**
CMCE	(16A)	**137 - 145**
CQE	(16A)	**168 - 173**
CQEE	(16A)	**176 - 177**
CX 8/24	(16A / 10A)	**194**
CX 6/6	(16A / 10A)	**206**
MIXO	(16A)	**275 - 289**

16A crimp contacts high thickness gold plated

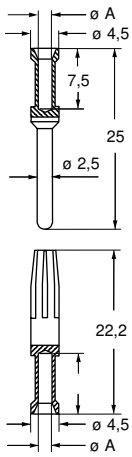
16A crimp contacts basic gold plated

description			part No.	part No.
16A female contacts				
0,14-0,37 mm²	AWG 26-22	one groove	**CCF2D 0.3**	**CCFJD 0.3**
0,5 mm²	AWG 20	with no grooves	**CCF2D 0.5**	**CCFJD 0.5**
0,75 mm²	AWG 18	one groove (back side)	**CCF2D 0.7**	**CCFJD 0.7**
1 mm²	AWG 18	one groove	**CCF2D 1.0**	**CCFJD 1.0**
1,5 mm²	AWG 16	two grooves	**CCF2D 1.5**	**CCFJD 1.5**
2,5 mm²	AWG 14	three grooves	**CCF2D 2.5**	**CCFJD 2.5**
3 mm²	AWG 12	one wide groove	**CCF2D 3.0**	**CCFJD 3.0**
4 mm²	AWG 12	with no grooves	**CCF2D 4.0**	**CCFJD 4.0**
16A male contacts				
0,14-0,37 mm²	AWG 26-22	one groove	**CCM2D 0.3**	**CCMJD 0.3**
0,5 mm²	AWG 20	with no grooves	**CCM2D 0.5**	**CCMJD 0.5**
0,75 mm²	AWG 18	one groove (back side)	**CCM2D 0.7**	**CCMJD 0.7**
1 mm²	AWG 18	one groove	**CCM2D 1.0**	**CCMJD 1.0**
1,5 mm²	AWG 16	two grooves	**CCM2D 1.5**	**CCMJD 1.5**
2,5 mm²	AWG 14	three grooves	**CCM2D 2.5**	**CCMJD 2.5**
3 mm²	AWG 12	one wide groove	**CCM2D 3.0**	**CCMJD 3.0**
4 mm²	AWG 12	with no grooves	**CCM2D 4.0**	**CCMJD 4.0**

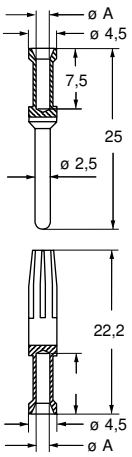
gold plated

The gold plated contacts provide:
- corrosion resistance (according to EN 60068)
- mechanical life: ≥ 500 coupling cycles
- in compliance with EN 61984:2009, IEC 60512, EN 60352-2: 1994
- compliant to directive RoHS2
- contact resistance: ≤ 1 mΩ
- certifications: c UL us (UL for USA and Canada),

CCF2D and **CCM2D**



CCFJD and **CCMJD**



contacts CCF2D and CCM2D

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
3,0	2,55	7,5
4,0	2,85	7,5

contacts CCFJD and CCMJD

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
3,0	2,55	7,5
4,0	2,85	7,5

CI SERIES CRIMP CONTACTS (5 A)
BASIC GOLD PLATING
HIGH THICKNESS GOLD PLATING

5 A crimp contacts
with basic gold plating,
with high thickness gold plating

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

TECHNICAL FEATURES

CIF2D /CIM2D 0.2/0.3/0.5/0.7 - CIFJD /CIMJD 0.2/0.3/0.5/0.7

Contacts gold plating in electrical connectors is particularly indicated for noiseless transmission of sensitive signals, thanks to the low contact resistance and the reduced galvanic potential that this plating provides.

To complete the offer of turned crimp contacts of series **CI** (5 A) pairing it to that already available for series **CD** (10 A) and **CC** (16 A) (see CN.19 pages 674-675), also **series CI** (5 A) is now **available with two additional gold platings:**

- a **basic gold plated** version, provided with a low thickness gold plating over a high thickness substrate of nickel-phosphorus, identified by "**JD**" in the first portion of their part no. (**CIFJD/CIMJD**);

- a **high thickness gold plated** version, provided with a 2µm gold plating over a substrate of nickel, identified by "**2D**" in the first portion of their part number (**CIF2D/CIM2D**).

Both series are already approved with the c UL us mark in files ECBT2.E115072 and ECBT8.E115072.

All versions of series **CI** – like the equivalent versions already available for series **CD** (10 A) and series **CC** (16 A) turned crimp contacts – comply with the RoHS 2 EU Directive with exemption 6c (lead as alloying element in copper alloys).

The **basic gold plated** version (version "**JD**") is an economical alternative to the "**D**" standard gold plated version of series **CI** (**CIFD/CIMD**) that, by employing a special nickel-phosphorus hard and durable plating substrate, maintains the corrosion resistance (tested according EN 60068), the mechanical life (≥500 mating cycles) and the full compliance to the connectors' safety standard **EN 61984**:2009, that uses test methods of series **IEC 60512,** and to the crimped connection standard **EN 60352-2**:1994 (Ed.1.0 more demanding for turned contacts in terms of pull-out force) at the same level of the standard gold plated version **CIFD/CIMD**.

The second, **high thickness gold plated** version (version "**2D**") expands the performance of the "**D**" standard gold plated version of series **CI** (**CIFD/CIMD**) by using a high thickness gold plating over the usual migration barrier nickel plating substrate, for those harsher applications that demand the lowest porosity of the gold plating even after sustained number of mating cycles (up to 500 and more) in corrosive environments.

CIF2D /CIM2D - CIFJD /CIMJD 5 A

inserts		page:
CQ 21	21 poles	**190**
CX 08 B (MIXO BUS)	8 poles + shield	**293**
CX 08 I6 (MIXO DATA)	8 poles	**286**
CX 25 IB (MIXO)	25 poles	**284**
CX 36 I (MIXO)	36 poles	**30 ***
CX 20S I (MIXO)	20 poles + shield	**36 ***
CX 01 9V (MIXO DATA)	9 poles + shield	**296**
CX 01 9V 2 (MIXO DATA)	9 poles + shield	**70 ***

refer to CN.19 pages
*** refer to NEWS 2020 pages**

5 A crimp contacts
high thickness gold plated

FROM MAY 2020

5 A crimp contacts
basic gold plated

FROM MAY 2020

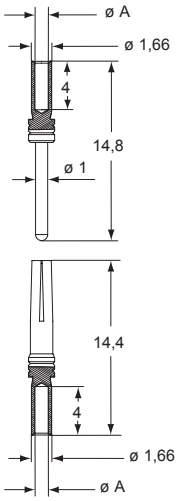
description	part No.	part No.
CI (5 A) female crimp contacts		
0,08-0,21 mm² AWG 28-24	**CIF2D 0.2**	**CIFJD 0.2**
0,13-0,33 mm² AWG 26-22	**CIF2D 0.3**	**CIFJD 0.3**
0,33-0,52 mm² AWG 22-20	**CIF2D 0.5**	**CIFJD 0.5**
0,52-0,75 mm² AWG 20-18	**CIF2D 0.7**	**CIFJD 0.7**
CI (5 A) male crimp contacts		
0,08-0,21 mm² AWG 28-24	**CIM2D 0.2**	**CIMJD 0.2**
0,13-0,33 mm² AWG 26-22	**CIM2D 0.3**	**CIMJD 0.3**
0,33-0,52 mm² AWG 22-20	**CIM2D 0.5**	**CIMJD 0.5**
0,52-0,75 mm² AWG 20-18	**CIM2D 0.7**	**CIMJD 0.7**
	gold plated	**gold plated**

The gold plated contacts provide:
- corrosion resistance (according to EN 60068)
- mechanical life: ≥ 500 coupling cycles
- in compliance with EN 61984:2009, IEC 60512, EN 60352-2: 1994
- compliant to directive RoHS2
- contact resistance: ≤ 3 mΩ
- for crimp contacts CI series use, on page 716 - 719 of CN.19 catalogue

CIPZ D crimping tool
CIPZP D pmeumatic crimping tool (see page 144)
CITP D turret head
CIES insertion / removal tool for contacts 0,2 - 0,5 mm²
CIES B insertion / removal tool for contacts 0,75 mm²

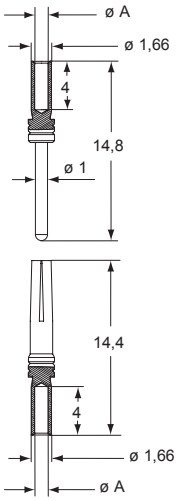
- certifications: cULus (UL for USA and Canada), CSA

NOTE:
The current rating depends on the contact size and on the connector in which they are installed. See derating diagrams of each connector.



CIF2D and CIM2D contacts

conductor section (mm²)	conductor slot ø A (mm)	conductors stripping length (mm)
0,08-0,21	0,64	4
0,13-0,33	0,90	4
0,33-0,52	1,12	4
0,52-0,75	1,12	4

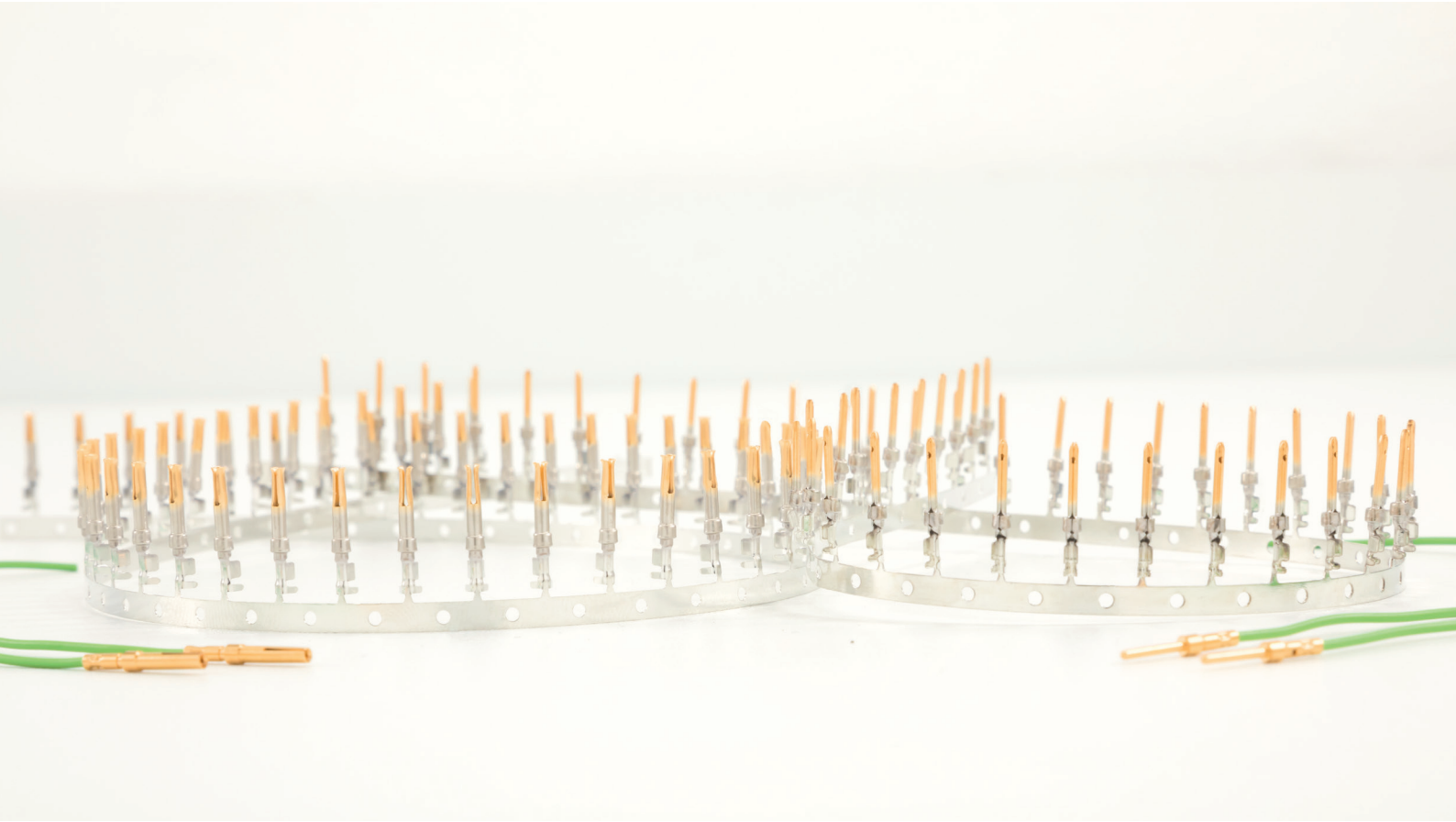


CIFJD and CIMJD contacts

conductor section (mm²)	conductor slot ø A (mm)	conductors stripping length (mm)
0,08-0,21	0,64	4
0,13-0,33	0,90	4
0,33-0,52	1,12	4
0,52-0,75	1,12	4

CI SERIES CRIMP CONTACTS (5 A) - BASIC GOLD PLATED - HIGH THICKNESS GOLD PLATED
CIF2D /CIM2D 0.2/0.3/0.5/0.7 - CIFJD /CIMJD 0.2/0.3/0.5/0.7

SI SERIES STAMPED CRIMP CONTACTS (5 A)
SIF..D /SIM..D



Contacts for wires with
conductor cross-sectional area:
28-24 AWG (0,08 – 0,21 mm²) and
24-20 AWG (0,21 – 0,52 mm²)

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

TECHNICAL FEATURES

SIF..D /SIM..D

- Alternative (but not equivalent) to the turned crimp contacts series **CI**, for less demanding applications e.g. reduced current-carrying capacity, not relevant for signal applications (widely used in the D-Sub connector field).

- Available with different **selective gold plating** thickness (over nickel) according to three required performance levels: **1D – 2D – 3D**, respectively for **500, 250** and **50** mating cycles.

- **Open crimp barrel** contacts **with insulation grip**, providing tensile strength (pull out force) compliant with EN/IEC 60352 Ed. 2, lower than corresponding turned, closed crimp barrel contacts series CI (EN/IEC 60352-2 Ed.1.0 had two different curves A and B, later consolidated in the lower demanding curve B, whereas ILME CI turned contacts still claim conformity to curve A).

- Compatible with inserts **CQ 21**, and MIXO modules **CX 25 IB, CX 36 I, CX 08 B** (MIXO BUS 8P), **CX 01 9V** (9-pin shielded D-SUB for 1 cable), **CX 01 9V2** (9-pin shielded D-SUB for 2 cables).

  CAUTION – Only selected inserts are suitable for stamped contacts! Respect the indications provided in the additional catalogue pages (under construction) in combination with these new **SI** stamped contacts.

- Derating diagrams of above inserts / modules are under construction: expected to show ca. 10% less current-carrying capacity than when inserts employ corresponding turned contacts series CI.

  NOTE: Not suitable for MIXO Shielded CX 20S IF /IM.

- Available in **2 sizes**:
  - **0.2** for wires with conductor cross-sectional area 28-24 AWG (0,08 – 0,21 mm^2);
  - **0.5** for wires with conductor cross-sectional area 24-20 AWG (0,21 – 0,52 mm^2).

- Available in **3 possible packaging** depending on volumes used and associated crimp tooling:
  - as loose parts (no suffix), in 200 pcs per box package, for use with manual crimp tool **SIPZ W;**
  - as coil package (suffix **C**), 500 pcs in a compact-sized coil, for use with manual crimp tools able to host the coil, **SIPZC W;**
  - as reel (bandolier) package (suffix **R**), 10 000 pcs in a large-sized reel, for use with semi-automatic crimping machine.

- Possible performance levels (mating cycles):

PL1 (≥500 cycles)	**PL2*** (≥250 cycles)	**PL3** (≥50 cycles)	mm^2	AWG
SIF1D 0.2	**SIF2D 0.2**	SIF3D 0.2	0,08 – 0,21	28 – 24
SIF1D 0.5	**SIF2D 0.5**	SIF3D 0.5	0,21 – 0,52	24 – 20
SIM1D 0.2	**SIM2D 0.2**	SIM3D 0.2	0,08 – 0,21	28 – 24
SIM1D 0.5	**SIM2D 0.5**	SIM3D 0.5	0,21 – 0,52	24 – 20

* NOTE – **PL2 available on stock**, PL1 and PL3 available upon request.

- Stripping length: **3 mm**

Environmental conformities:

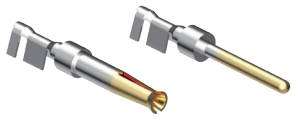
- RoHS 2: conform without exemptions
- China RoHS: conform without exemption – EFUP 50 (years – no marking required)
- REACH SVHC substance: none

SIF /SIM..D 5 A stamped size 0.2

inserts		page:
CQ 21	21 poles	**190**
CX 08 B (MIXO BUS)	8 poles + shield	**293**
CX 25 IB (MIXO)	25 poles	**284**
CX 36 I (MIXO)	36 poles	**30 ***
CX 01 9V (MIXO DATA)	9 poles + shield	**296**
CX 01 9V 2 (MIXO DATA)	9 poles + shield	**70 ***

refer to CN.19 pages
*** refer to NEWS 2020 pages**

SI..D (5 A) crimp contacts



STAMPED CONTACTS

FROM FEBRUARY 2020

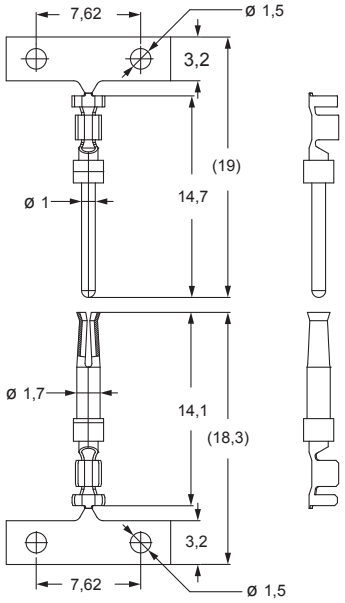
description	part No.	pcs. (1 packaging unit)
SIF..D ... (5 A) female stamped crimp contacts (loose parts)		200
0,08-0,21 mm² AWG 28-24	SIF1D 0.2	
0,08-0,21 mm² AWG 28-24	**SIF2D 0.2**	
0,08-0,21 mm² AWG 28-24	SIF3D 0.2	
SIM..D ... (5 A) male stamped crimp contacts (loose parts)		200
0,08-0,21 mm² AWG 28-24	SIM1D 0.2	
0,08-0,21 mm² AWG 28-24	**SIM2D 0.2**	
0,08-0,21 mm² AWG 28-24	SIM3D 0.2	
SIF..D ... C (5 A) female stamped crimp contacts (coil package)		500
0,08-0,21 mm² AWG 28-24	SIF1D 0.2C	
0,08-0,21 mm² AWG 28-24	**SIF2D 0.2C**	
0,08-0,21 mm² AWG 28-24	SIF3D 0.2C	
SIM..D ... C (5 A) male stamped crimp contacts (coil package)		500
0,08-0,21 mm² AWG 28-24	SIM1D 0.2C	
0,08-0,21 mm² AWG 28-24	**SIM2D 0.2C**	
0,08-0,21 mm² AWG 28-24	SIM3D 0.2C	
SIF..D ... R (5 A) female stamped crimp contacts (reel package)		10 000
0,08-0,21 mm² AWG 28-24	SIF1D 0.2R	
0,08-0,21 mm² AWG 28-24	**SIF2D 0.2R**	
0,08-0,21 mm² AWG 28-24	SIF3D 0.2R	
SIM..D ... R (5 A) male stamped crimp contacts (reel package)		10 000
0,08-0,21 mm² AWG 28-24	SIM1D 0.2R	
0,08-0,21 mm² AWG 28-24	**SIM2D 0.2R**	
0,08-0,21 mm² AWG 28-24	SIM3D 0.2R	

- cUL (UL for USA and Canada), CSA pending

NOTE:
The SIF1D/SIM1D and SIF3D/SIM3D crimp contacts are available only upon request.

Recommended crimping tools
loose parts: **SIPZ W** (see page 142)
coil package: **SIPZC W** (see page 143)
reel package: suitable for stripping / crimping automated machines to be used with 10 000 pieces reels, please contact ILME S.p.A.

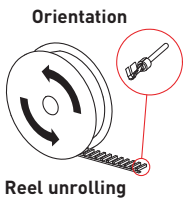
The current rating depends on the contact size and on the connector in which they are installed. See derating diagrams of each connector.



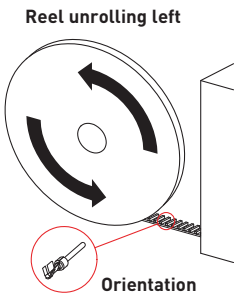
SIF..D and SIM..D contacts

conductor section (mm²)	conductors stripping length (mm)	max insulation Ø (mm)
0,08-0,21	3	1
0,21-0,52	3	1,5

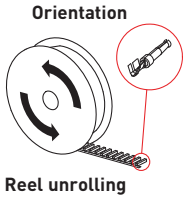
SIM..D C



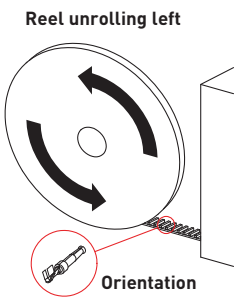
SIM..D R



SIF..D C



SIF..D R

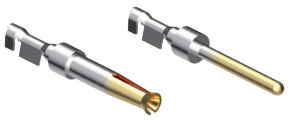


SIF /SIM..D 5 A stamped size 0.5

inserts		page:
CQ 21	21 poles	**190**
CX 08 B (MIXO BUS)	8 poles + shield	**293**
CX 25 IB (MIXO)	25 poles	**284**
CX 36 I (MIXO)	36 poles	**30 ***
CX 01 9V (MIXO DATA)	9 poles + shield	**296**
CX 01 9V 2 (MIXO DATA)	9 poles + shield	**70 ***

refer to CN.19 pages
*** refer to NEWS 2020 pages**

SI..D (5 A) crimp contacts



STAMPED CONTACTS

FROM FEBRUARY 2020

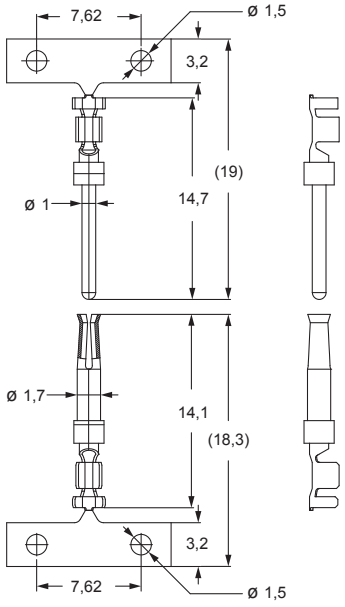
description	part No.	pcs. (1 packaging unit)
SIF..D ... (5 A) female stamped crimp contacts (loose parts)		200
0,21-0,52 mm² AWG 24-20	SIF1D 0.5	
0,21-0,52 mm² AWG 24-20	**SIF2D 0.5**	
0,21-0,52 mm² AWG 24-20	SIF3D 0.5	
SIM..D ... (5 A) male stamped crimp contacts (loose parts)		200
0,21-0,52 mm² AWG 24-20	SIM1D 0.5	
0,21-0,52 mm² AWG 24-20	**SIM2D 0.5**	
0,21-0,52 mm² AWG 24-20	SIM3D 0.5	
SIF..D ... C (5 A) female stamped crimp contacts (coil package)		500
0,21-0,52 mm² AWG 24-20	SIF1D 0.5C	
0,21-0,52 mm² AWG 24-20	**SIF2D 0.5C**	
0,21-0,52 mm² AWG 24-20	SIF3D 0.5C	
SIM..D ... C (5 A) male stamped crimp contacts (coil package)		500
0,21-0,52 mm² AWG 24-20	SIM1D 0.5C	
0,21-0,52 mm² AWG 24-20	**SIM2D 0.5C**	
0,21-0,52 mm² AWG 24-20	SIM3D 0.5C	
SIF..D ... R (5 A) female stamped crimp contacts (reel package)		10 000
0,21-0,52 mm² AWG 24-20	SIF1D 0.5R	
0,21-0,52 mm² AWG 24-20	**SIF2D 0.5R**	
0,21-0,52 mm² AWG 24-20	SIF3D 0.5R	
SIM..D ... R (5 A) male stamped crimp contacts (reel package)		10 000
0,21-0,52 mm² AWG 24-20	SIM1D 0.5R	
0,21-0,52 mm² AWG 24-20	**SIM2D 0.5R**	
0,21-0,52 mm² AWG 24-20	SIM3D 0.5R	

- cUL (UL for USA and Canada), CSA pending

NOTE:
The SIF1D/SIM1D and SIF3D/SIM3D crimp contacts are available only upon request.

Recommended crimping tools
loose parts: **SIPZ W** (see page 142)
coil package: **SIPZC W** (see page 143)
reel package: suitable for stripping / crimping automated machines to be used with 10 000 pieces reels, please contact ILME S.p.A.

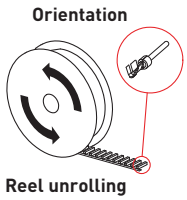
The current rating depends on the contact size and on the connector in which they are installed. See derating diagrams of each connector.



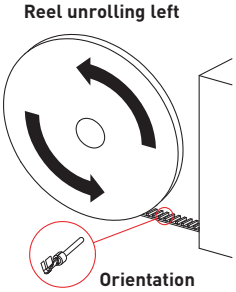
SIF..D and SIM..D contacts

conductor section (mm²)	conductors stripping length (mm)	max insulation Ø (mm)
0,08-0,21	3	1
0,21-0,52	3	1,5

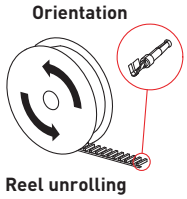
SIM..D C



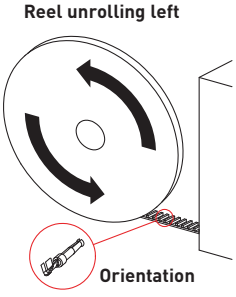
SIM..D R



SIF..D C



SIF..D R



RI SERIES HNM CRIMP CONTACTS (5 A)
RIFD /MD

Turned crimp contacts designed
to meet high number of matings (HNM)
and high durability needs

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

TECHNICAL FEATURES

RIFD /MD

Especially high thickness gold plated/lubricated contacts series **RI** enable **HNM** feature on suitable MIXO connectors that when mounted on dedicated MIXO HNM frames part nos. **RX 02 /03 /04 /06 TF /TM** also employing especially gold plated PE contacts, allow the creation of HNM MIXO modular inserts, useful when connectors are foreseen for frequent operation, providing up to 10 000 matings compared to the 500 matings provided by series **CI** turned crimp contacts.

Part no.	Conductor sections	
RIFD /MD 0.2	0,08 – 0,21 mm²	AWG 28-24
RIFD /MD 0.3	0,13 – 0,33 mm²	AWG 26-22
RIFD /MD 0.5	0,33 – 0,52 mm²	AWG 22-20
RIFD /MD 0.7	0,52 – 0,75 mm²	AWG 20-18

Available in **four sizes**, 0.2 through 0.7, to cover the conductor cross-sectional area range 0,08 mm² through 0,75 mm² (AWG 28 through AWG 18).

NOTE – The largest size 0.7 contacts are suitable only for CX 25 IBF /IBM inserts.

Stripping length: **4 mm** (same as per series CI)

Series **RI** HNM crimp contacts use the same tools (crimping tools, insertion and removal tools) recommended for series **CI** turned crimp contacts.

Series **RI** HNM crimp contacts provide the same current ratings of series CI turned contacts.

The connector modules of series MIXO that by using HNM 5A contacts series **RI** together with MIXO HNM frames **RX 02...06 TF/TM** can create MIXO HNM modular connector inserts are:

- MIXO **CX 25 IBF /IBM**
- MIXO **CX 36 IF /IM**

Series **RI** HNM crimp contacts must be used in special (new, see page 54) HNM variants of MIXO Gigabit module and (new, see page 38) MIXO Shielded module:

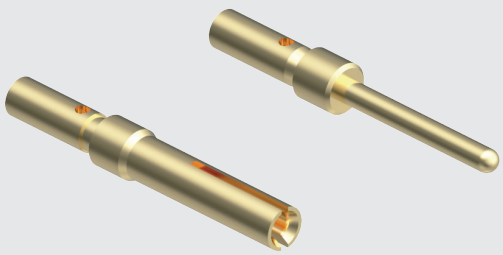
- HNM MIXO Gigabit **RX 08 I6F /I6M**
- HNM MIXO Shielded **RX 20S IF /IM**

NOTE – CQ 21 is not suitable for HNM applications due to lack of HNM hoods and housings size “21.21”. RI contacts are also not suitable for D-Sub 9-pin modules CX 01 9VF /9VM and the new two cable outlet version CX 01 9VF2 /9VM2, not foreseen for HNM applications.

Environmental conformities:

- RoHS 2: conform with exemption 6(c) (lead in copper alloys)
- China RoHS: conform with exemption – EFUP 50 (years – no marking required)
- REACH SVHC substance: lead

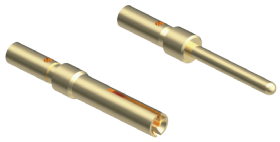
widening of the ILME portfolio of HNM inserts: 10, 16, 40 and now 5 A



RI..D 5 A HNM (High Number of Matings)

inserts		page:
CX 25 IB (MIXO)	25 poles	**284**
CX 36 I (MIXO)	36 poles	**30 ***
RX 08 D5 (MEGABIT)	8 poles + shield	**46 ***
RX 08 D5 2 (MEGABIT)	8 poles + shield	**46 ***

RI (5 A) crimp contacts
gold plated



refer to CN.19 pages
*** refer to NEWS 2020 pages**

FROM MAY 2020

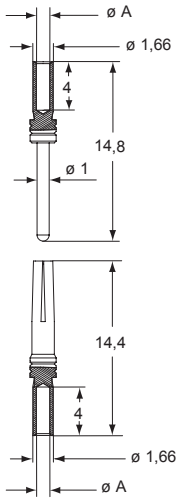
description	part No.
RI (5 A) female crimp contacts	
0,08-0,21 mm² AWG 28-24	**RIFD 0.2**
0,13-0,33 mm² AWG 26-22	**RIFD 0.3**
0,33-0,52 mm² AWG 22-20	**RIFD 0.5**
0,52-0,75 mm² AWG 20-18 *	**RIFD 0.7**
RI (5 A) male crimp contacts	
0,08-0,21 mm² AWG 28-24	**RIMD 0.2**
0,13-0,33 mm² AWG 26-22	**RIMD 0.3**
0,33-0,52 mm² AWG 22-20	**RIMD 0.5**
0,52-0,75 mm² AWG 20-18 *	**RIMD 0.7**

gold plated

* suitable only for CX 25 IBF/IBM

- for crimp contacts RI series use:
  CIPZ D crimping tool
  CIPZP D pmeumatic crimping tool (see page 144)
  CITP D turret head
  CIES insertion / removal tool for contacts 0,2 - 0,5 mm²
  CIES B insertion / removal tool for contacts 0,75 mm²
- cUL (UL for USA and Canada), CSA pending

NOTE:
The current rating depends on the contact size and on the connector in which they are installed. See derating diagrams of each connector.



RIF and RIM contacts

conductor section (mm²)	conductor slot ø A (mm)	conductors stripping length (mm)
0,08-0,21	0,64	4
0,13-0,33	0,90	4
0,33-0,52	1,12	4
0,52-0,75	1,12	4

RI SERIES HNM CRIMP CONTACTS (5 A) - RIFD /MD

CX7 SERIES SIZE 6.0
CRIMP CONTACTS (6 mm² / 10 AWG)

70 A crimp contacts
suitable for 6 mm² wires

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

TECHNICAL FEATURES

CX7FA /MA 6.0

This new size **6.0** adds to the existing sizes **10 – 16 – 25** of series **CX7** removable crimp contacts, to allow lower wire size 6 mm^2 / 10 AWG (stranded copper conductors only), expanding this series to cover conductor cross-sectional area range 6 mm^2 through 25 mm^2 (10 AWG through 4 AWG).

Environmental conformities:

- RoHS 2: conform with exemption 6(c) (lead in copper alloys)

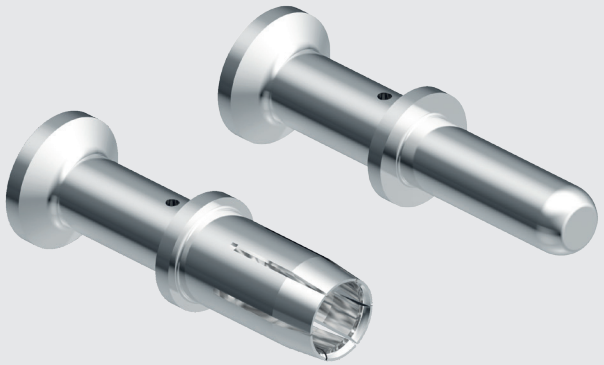
- China RoHS: conform with exemption – EFUP 50 (years – no marking required)

- REACH SVHC substance: lead

- Suitable for use in MIXO module **CX 02 7F /7M**

- Crimping with **CPPZ C** (CEMBRE HT 45) manual crimp tool, crimping dies **CGD 10 C** for CX7 contacts with 6 mm^2 / 10 AWG cross-sectional area, and locator **CX7PZ LOC**. With these tools they provide crimped connections in compliance with EN/IEC 60352-2. Their tensile strength still in conformity with the values of former curve A (closed crimp barrel) of Ed.1.0 of that standard.

increases the range of wire cross sections that can ben used in ILME 70A MIXO modules

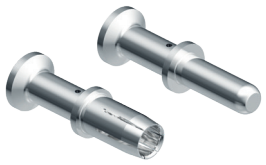


CX7..6.0 70 A

inserts	page:
CX 02 7F /M (MIXO) 2 poles	**266**

refer to CN.19 pages

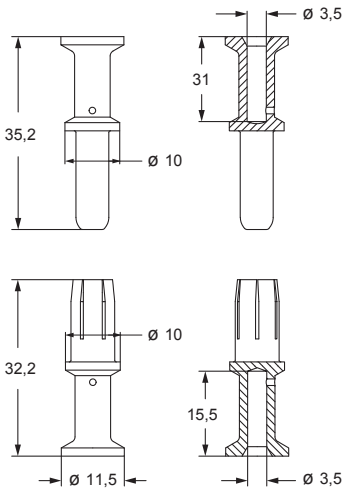
70 A silver plated crimp contacts



FROM MAY 2020

description	part No.	
70 A female crimp contacts 6 mm² AWG 10	**CX7FA 6.0**	silver plated
70 A male crimp contacts 6 mm² AWG 10	**CX7MA 6.0**	

- cUL (UL for USA and Canada) pending
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 0,5 mΩ
- **it is recommended to crimp the contacts with crimping tools homologated by ILME.**
  Crimping with CPPZ C (CEMBRE HT 45) manual crimp tool, crimping dies CGD 10 C for CX7 contacts with 6 mm² / 10 AWG cross-sectional area, and locator CX7PZ LOC



CX CRIMP CONTACTS 70 A 6 mm²

FOCUS ON

CX7 CRIMP CONTACTS SERIES
CURRENT-CARRYING CAPACITY UP TO 80 A

When employed in the new crimp combined connector inserts CXC 4/2 and CXC 4/8, the current-carrying capacity of CX7 crimp contacts rises up to 80 A

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

TECHNICAL FEATURES
CX7 CRIMP CONTACTS SERIES
CURRENT-CARRYING CAPACITY UP TO 80 A

Series **CX7** removable crimp contacts have been conventionally described as “70 A contacts”, lacking until now any application other than in series MIXO **CX 02 7F/7M** “70 A” modules.

When employed in the new crimp connector inserts **CXC 4/2** (see page 14-17) and **CXC 4/8** (see page 18-21), which are combined connectors with power contacts up to **80 A**, the **CX7 current-carrying capacity, only for this specific use, is extended to 80 A**.

As for any series of crimp contacts, the current-carrying capacity depends on:

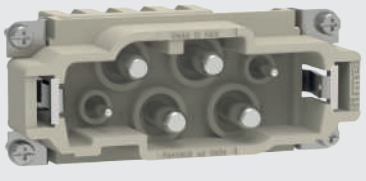
- **the contact size**
  As the mating side (male and female) is standardized, the rear side, consisting of the crimp barrel, is available in four different sizes: 6.0, 10, 16 and 25, and the highest possible working current belongs to the largest contact size and the associated largest conductor cross-sectional area;
- **the target connector insert**
  The higher the number of poles loaded in the same enclosure, i.e. the higher the contact density, the lower the available working current before the upper limiting temperature (ULT) of materials is reached, including that of cable sheathing (that has not to be ignored);
- **the connector polarity**
  In the same series, a lower number of poles yields to a higher possible working current: a single module produces less heat and lower temperature than 6× the same module.

The **70 A** conventional “nickname” of series **CX7** was then attributed based on the worst case where 6× CX 02 7F/ 7M were used in a size “104.27” MIXO frame CX 06 TF/TM.
However, it is possible that the same **CX7** contacts, in a smaller amount than 12 in a “104.27” housing or 8 in a “77.27” housing, are able to carry up to 80 A, as they do in the new connectors **CXC 4/2** (only 4 power poles in a “77.27” connector) and **CXC 4/8** (only 4 power poles + 8 aux poles in a “104.27” insert).

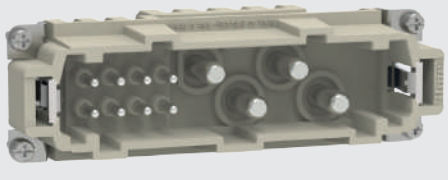
The **80 A** higher current-carrying capacity, based on the derating diagrams, belongs to the larger 16 mm² / 6 AWG and 25 mm² / 4-3 AWG cross-sectional area conductors for the new crimp inserts.

CX7 at 80 A

CXC 4/2



CXC 4/8

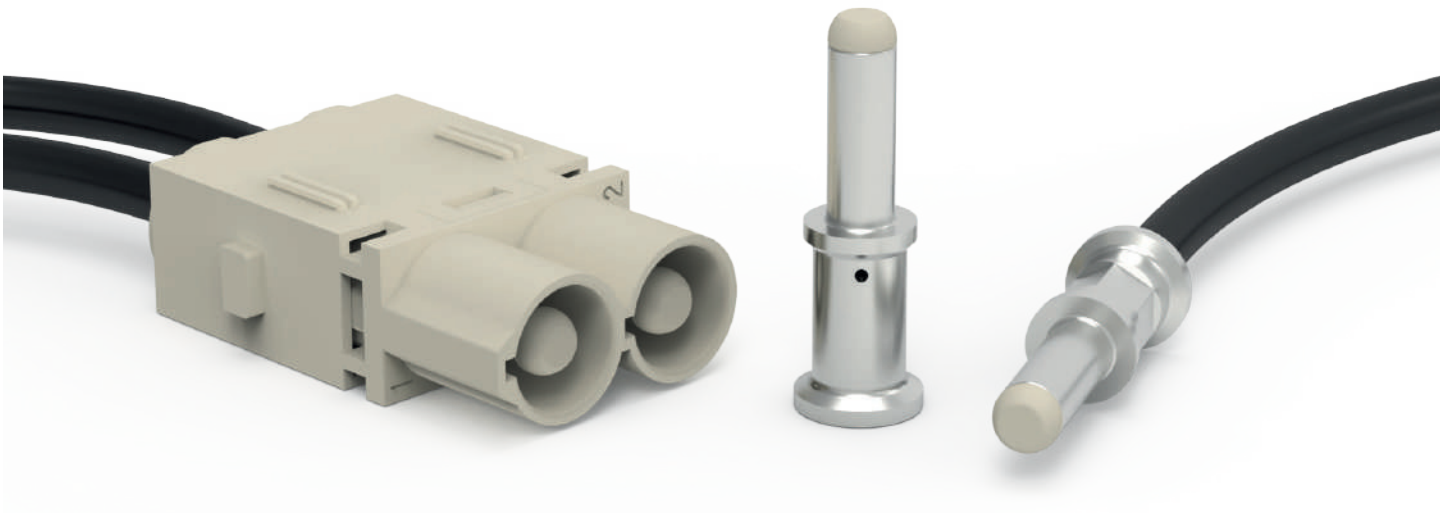


CX7 at 70 A

4× CX 02 7

6× CX 02 7

CX7 SERIES FINGERPROOF MALE CRIMP CONTACTS
CX7MA 6.0 / 10 / 16 / 25 P



CX7 series male crimp contacts,
variants with insulating cap

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

TECHNICAL FEATURES
CX7MA 6.0 / 10 / 16 / 25 P

Watch our technical clip

For the benefit of male MIXO module **CX 02 7M,** the **CX7** series is now expanded by adding a variant of **male contacts with insulating cap** on their tip, likely to determine in combination with this male module the **fingerproof safety** feature.

This feature is particularly advantageous in all applications where male connector inserts feed electric motors equipped with power drives, such drives being often equipped motor side with **capacitors** that may remain charged with hazardous voltage present on the pin contacts of the connector for a few times after switching off the motor and unplugging the connector.

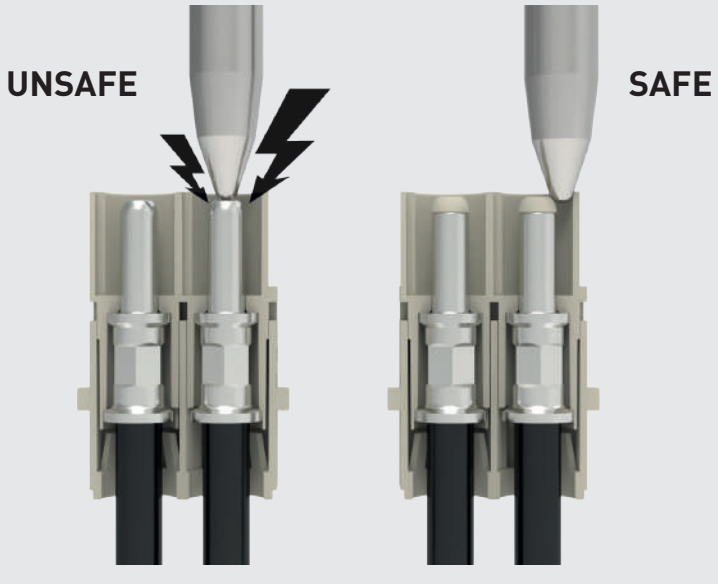
NOTE – The new crimp combined connector inserts **CXM 4/2** and **CXM 4/8** for use with **CX7MA** power male crimp contacts and **CCMA** auxiliary male crimp contacts, cannot take advantage of **CX7MA ... P fingerproof** contacts, in that these inserts, for legacy with the traditional screw-type models, could not be provided with shrouded seats for male contacts as in **MIXO CX 02 7M.**

Tip made by polycarbonate (same as those of the inserts), light grey colour.

All other features are in common with **CX7** contacts (i.e. crimping tools, dimensions, materials, etc.).

RoHS: compliant with exemption **6(c)**.

tip made by polycarbonate light grey colour for fingerproof safety



CX7MA 6.0 / 10 / 16 / 25 P 70 A FINGERPROOF

inserts		page:
MIXO (CX 02 7M)	70 A	**266**

refer to CN.19 pages

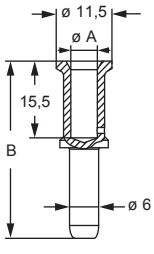
70 A silver plated fingerproof male crimp contacts

description		part No.
70 A male crimp contacts fingerproof		
6 mm²	AWG 10	**CX7MA 6.0 P**
10 mm²	AWG 7	**CX7MA 10 P**
16 mm²	AWG 5	**CX7MA 16 P**
25 mm²	AWG 3	**CX7MA 25 P**

silver plated

- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 70A contacts, CX7MA...P series) on pages 720 - 721 of CN.19 catalogue
- **C7ES** removal tool (see page 720 of CN.19 catalogue)

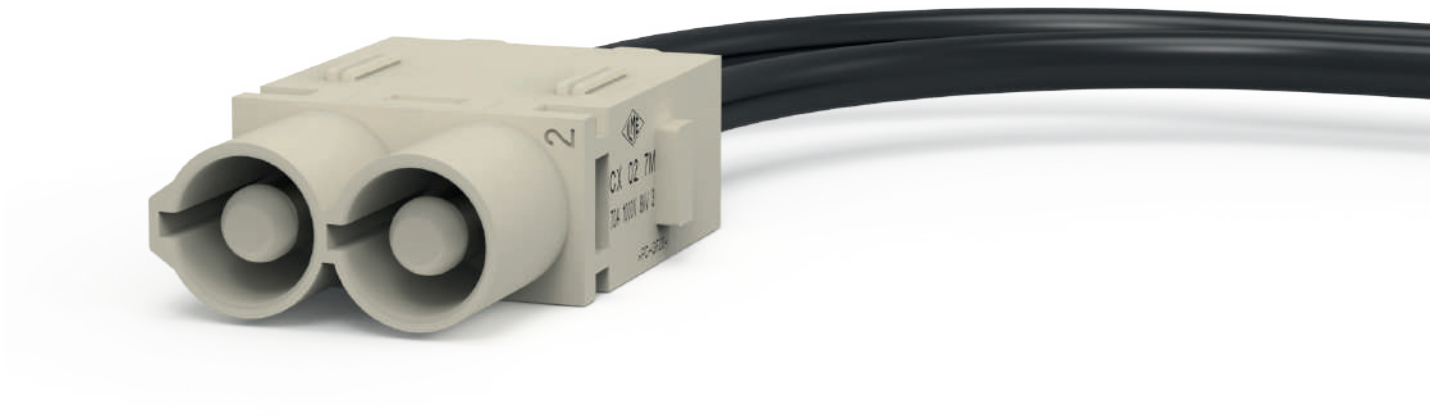
CX7MA .. P



CX7MA .. P contacts

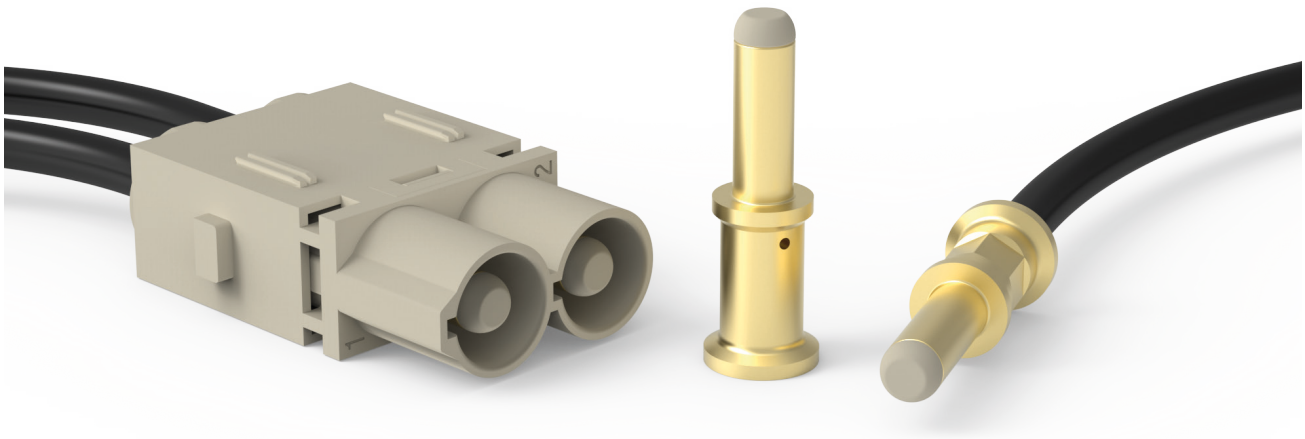
part No.	ø A (mm)	B (mm)	stripping length (mm)
CX7MA 6.0 P	3,5	36,6	15
CX7MA 10 P	4,3	35,8	15
CX7MA 16 P	5,5	35,8	15
CX7MA 25 P	7,0	35,8	15

CX7MA 6.0 / 10 / 16 / 25 P - 70 A FINGERPROOF MALE CRIMP CONTACTS



RX7 SERIES
FINGERPROOF MALE CRIMP CONTACTS

HNM VERSION
WITH INSULATING CAP



MIXO module **CX 02 7M,** when mounted in dedicated HNM MIXO is used in combination with the **RX7 HNM** series of 70 A crimp contacts which is now expanded by adding a variant of **male contacts with insulating cap** on their tip, to determine the **fingerproof safety** (IPXXB or IP20) feature.

This feature is particularly advantageous in all applications where male connector inserts feed electric motors equipped with power drives, such drives being often equipped motor side with **capacitors** that may remain charged with hazardous voltage present on the pin contacts of the connector for a few times after switching off the motor and unplugging the connector.

NOTE – The new **HNM** crimp combined connector inserts **RXM 4/2** and **RXM 4/8** for use with **RX7** power male crimp contacts and **RC** auxiliary male crimp contacts, cannot take advantage of **RX7M2D..P** fingerproof contacts, in that these inserts, for legacy with the traditional screw-type models, could not be provided with shrouded seats for male contacts as in **MIXO CX 02 7M.**

- Tip made by polycarbonate (same as those of the inserts), light grey colour.
- All other features are in common with RX7 contacts (i.e., crimping tools, dimensions, materials, etc.).
- RoHS: compliant with exemption 6(c).

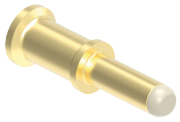
Find out more
www.ilme.com

inserts: **page:**

MIXO (CX 02 7M) **266**

refer to CN.19 pages

70 A HNM gold plated fingerproof male crimp contacts



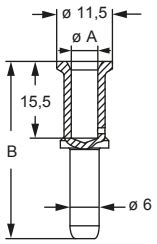
FROM MARCH 2022

removal tools

description	part No.	part No.
70 A HNM fingerproof male crimp contacts		
6 mm² (Class 5) AWG 10	**RX7M2D 6.0 P**	
10 mm² (Class 5) AWG 8 - 7	**RX7M2D 10 P**	
16 mm² (Class 5) AWG 6 - 5	**RX7M2D 16 P**	
16 mm² (Class 6) AWG 6 - 5	**RX7M2D 16XFP**	
25 mm² (Class 5) AWG 4 - 3	**RX7M2D 25 P**	
removal tools for **RC** series contacts		**CX7ES**

gold plated

it is recommended to crimp the contacts with crimping tools homologated by ILME (please see the crimping tool section 70 A contacts, RX7 series) on pages 720 - 721 of CN.19 catalogue



RX7M2D..P contacts

section (mm²)	ø A (mm)	B (mm)	stripping length (mm)
6	3,5	36,6	15
10	4,3	35,8	15
16	5,5	35,8	15
16 (XF)	6,1	35,8	15
25	7,0	35,8	15