

## MODULES FOR HIGH NUMBER OF MATINGS

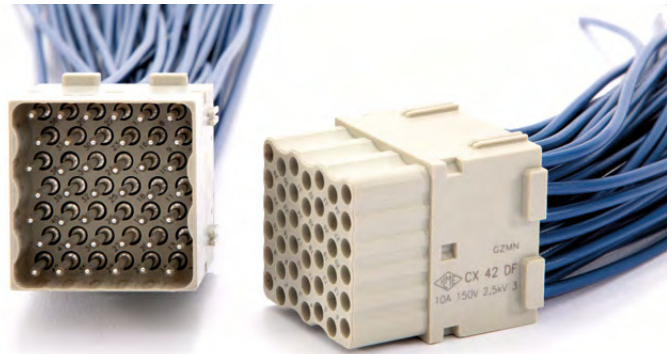
Within the range of **series HNM**, for High Number of Matings, all MIXO modules for crimp contacts 40A, 16A and/or 10A, combined with the use of especially high thickness gold-plated/lubricated crimp contacts of:

- series **RX** (40A HNM variant of series CX),
- series **RC** (16A HNM variant of series CC), and
- series **RD** (10A HNM variant of series CD)

mounted in the dedicated **MIXO HNM frames** cat. nos. **RX 02 /03 /04 /06 TF /TM**, also employing especially gold-plated PE contacts, allow the creation of **HNM** modular connector inserts.

The connector modules of series MIXO that by using HNM 40A contacts series **RX**, HNM 16A contacts series **RC** and/or HNM 10A contacts series **RD** together with **MIXO HNM frames** RX 02...06 TF/M can create MIXO HNM modular connector inserts are:

- **CX 02 4F/M, CX 03 4F/M, CX 03 4BF/M** and **CX 04 XF/XM** (with **RX** HNM contacts)
- **CX 3/4 XDF/M** (with **RX** and **RD** HNM contacts)
- **CX 06 CF/M, CX 06P CF/M, CX 08 CF/M** and **CX 20 CF/M** (with **RC** HNM contacts)
- **CX 12 DF/M, CX 17 DF/M** and **CX 42 DF/M** (with **RD** HNM contacts)



### SUM UP

- 🔖 Up to 10.000 matings in combination with HNM enclosures
- 🔖 Up to 5.000 matings with standard hoods with single lever



The modular inserts must be installed in suitable frames, which are then mounted in traditional enclosures\* or in COB panel supports.

frames for modular units\*

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

modular units, crimp connections



Q 10.000 MATINGS WITH HNM FRAMES AND HNM ENCLOSURES

Q 5.000 MATINGS WITH HNM FRAMES AND STANDARD ENCLOSURES, SINGLE LEVER

40A crimp contacts gold plated



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

without contacts (to be ordered separately)  
female inserts for female contacts <sup>1)</sup>  
male inserts for male contacts <sup>1)</sup>

CX 02 4F  
CX 02 4M

40A female crimp contacts  
1,5 mm<sup>2</sup> AWG 16  
2,5 mm<sup>2</sup> AWG 14  
4 mm<sup>2</sup> AWG 12  
6 mm<sup>2</sup> AWG 10  
10 mm<sup>2</sup> AWG 8

40A male crimp contacts  
1,5 mm<sup>2</sup> AWG 16  
2,5 mm<sup>2</sup> AWG 14  
4 mm<sup>2</sup> AWG 12  
6 mm<sup>2</sup> AWG 10  
10 mm<sup>2</sup> AWG 8

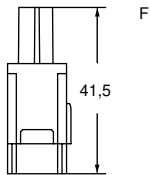
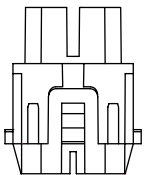
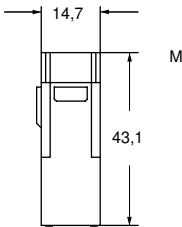
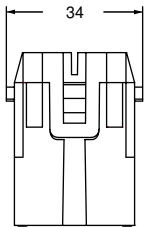
RXF2D 1.5  
RXF2D 2.5  
RXF2D 4.0  
RXF2D 6.0  
RXF2D 10

gold plated

RXM2D 1.5  
RXM2D 2.5  
RXM2D 4.0  
RXM2D 6.0  
RXM2D 10

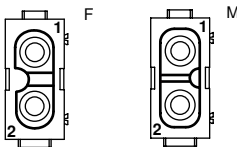
<sup>1)</sup> cable diameter up to 7,5 mm  
contact size up to 10 mm<sup>2</sup>

- characteristics according to EN 61984:  
**40A 1000V 8kV 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: ≥ 10.000 cycles
- contact resistance: ≤ 0,3 mΩ
- can be mated with CX 02 A/B modules
- **it is recommended to crimp the contacts** (1,5 - 10 mm<sup>2</sup>), **with crimping tools homologated by ILME** (please see the crimping tool section 40A contacts, RXF2D and RXM2D series) on pages 708 - 741
- for max. current load see the connector inserts derating diagram below; for more information see page 28

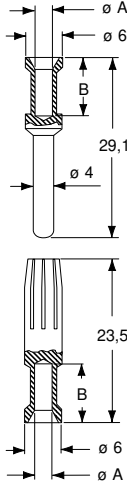


contacts side (front view)

side with reference arrow ▲



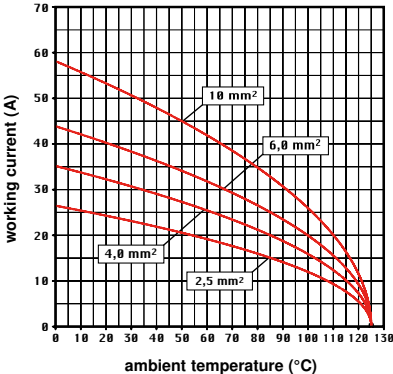
- 1 frame slot



RXF2D and RXM2D contacts

| conductor section (mm <sup>2</sup> ) | 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                               |
| 10                                   | 4,3                     | 15                                |

CX 02 4, 2 poles connector inserts  
Maximum current load derating diagram

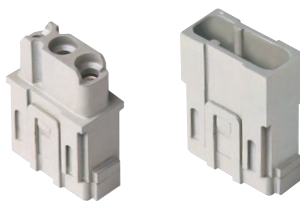


The modular inserts must be installed in suitable frames, which are then mounted in traditional enclosures or in COB panel supports.

frames for modular units

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modular units, crimp connections



**Q 10.000 MATINGS WITH HNM FRAMES AND HNM ENCLOSURES**

**Q 5.000 MATINGS WITH HNM FRAMES AND STANDARD ENCLOSURES, SINGLE LEVER**

40A crimp contacts  
gold plated



description

part No.

part No

without contacts (to be ordered separately)

female inserts for female contacts <sup>1)</sup>

male inserts for male contacts <sup>1)</sup>

CX 03 4F

CX 03 4M

40A female crimp contacts

1,5 mm<sup>2</sup> AWG 16

2,5 mm<sup>2</sup> AWG 14

4 mm<sup>2</sup> AWG 12

6 mm<sup>2</sup> AWG 10

40A male crimp contacts

1,5 mm<sup>2</sup> AWG 16

2,5 mm<sup>2</sup> AWG 14

4 mm<sup>2</sup> AWG 12

6 mm<sup>2</sup> AWG 10

RXF2D 1.5

RXF2D 2.5

RXF2D 4.0

RXF2D 6.0

RXM2D 1.5

RXM2D 2.5

RXM2D 4.0

RXM2D 6.0

gold plated

<sup>1)</sup> cable diameter up to 5 mm

- characteristics according to EN 61984:

**40A 400/690V 6kV 3**

- cULus (UL for USA and Canada), SR, CEC, DNV-GL

BUREAU VERITAS ENEC certified

- rated voltage according to UL/CSA: 600V

- insulation resistance:  $\geq 10$  G $\Omega$

- ambient temperature limit: -40 °C ... +125 °C

- made of self-extinguishing thermoplastic resin  
UL 94V-0

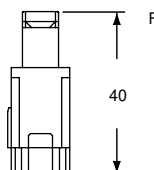
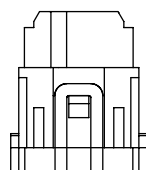
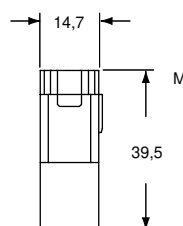
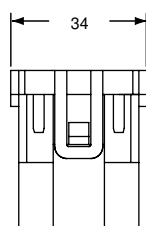
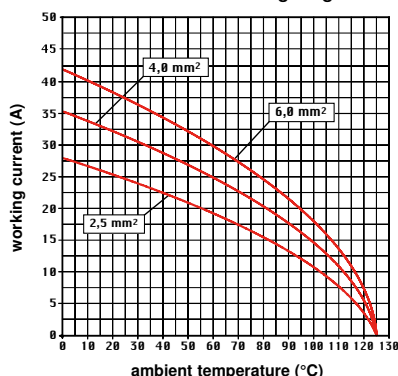
- mechanical life:  $\geq 10.000$  cycles

- contact resistance:  $\leq 0,3$  m $\Omega$

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

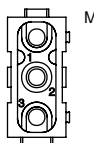
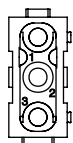
- for max. current load see the connector inserts derating diagram below; for more information see page 28

**CX 03 poles connector inserts**  
**Maximum current load derating diagram**

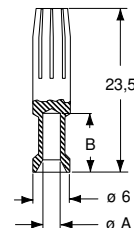
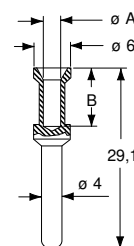


contacts side (front view)

side with reference arrow ▲



- 1 frame slot



**RXF2D and RXM2D contacts**

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



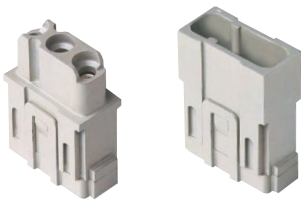
The modular inserts must be installed in suitable frames, which are then mounted in traditional enclosures\* or in COB panel supports.

frames for modular units\*

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

modular units, crimp connections



Q 10.000 MATINGS WITH HNM FRAMES AND HNM ENCLOSURES

Q 5.000 MATINGS WITH HNM FRAMES AND STANDARD ENCLOSURES, SINGLE LEVER

40A crimp contacts gold plated



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

without contacts (to be ordered separately)  
female inserts for female contacts <sup>1)</sup>  
male inserts for male contacts <sup>1)</sup>

CX 03 4BF  
CX 03 4BM

40A female crimp contacts  
1,5 mm<sup>2</sup> AWG 16  
2,5 mm<sup>2</sup> AWG 14  
4 mm<sup>2</sup> AWG 12  
6 mm<sup>2</sup> AWG 10  
10 mm<sup>2</sup> AWG 8

40A male crimp contacts  
1,5 mm<sup>2</sup> AWG 16  
2,5 mm<sup>2</sup> AWG 14  
4 mm<sup>2</sup> AWG 12  
6 mm<sup>2</sup> AWG 10  
10 mm<sup>2</sup> AWG 8

RXF2D 1.5  
RXF2D 2.5  
RXF2D 4.0  
RXF2D 6.0  
RXF2D 10

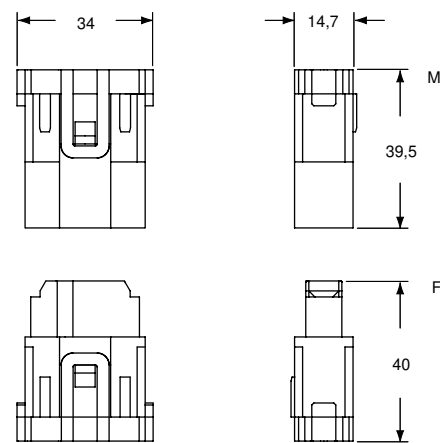
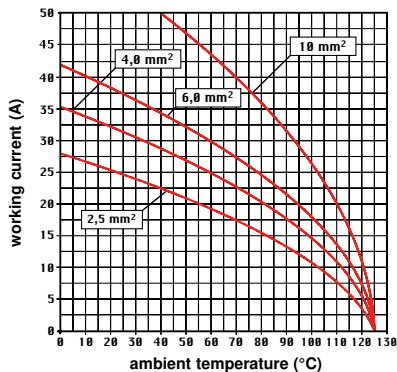
gold plated

RXM2D 1.5  
RXM2D 2.5  
RXM2D 4.0  
RXM2D 6.0  
RXM2D 10

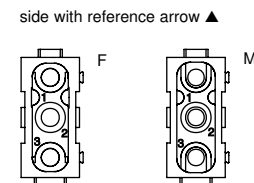
<sup>1)</sup> cable diameter up to 7,5 mm  
contact size up to 10 mm<sup>2</sup>

- characteristics according to EN 61984:  
**40A 500V 6kV 3**
- cULus (UL for USA and Canada),
- 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: ≥ 10.000 cycles
- contact resistance: ≤ 0,3 mΩ
- can be mated with CX 02 A/B modules
- **it is recommended to crimp the contacts**  
(1,5 - 10 mm<sup>2</sup>), **with crimping tools homologated by ILME** (please see the crimping tool section 40A contacts, RXF2D and RXM2D series) on pages 708 - 741
- for max. current load see the connector inserts derating diagram below; for more information see page 28

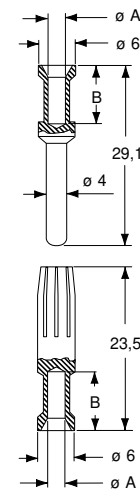
CX 03 4B, 3 poles connector inserts  
Maximum current load derating diagram



contacts side (front view)



- 1 frame slot



RXF2D and RXM2D contacts

| conductor section (mm <sup>2</sup> ) | 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                               |
| 10                                   | 4,3                     | 15                                |

# CX 3/4 XDF/M 3 p (40A - 830V) + 4 p (10A - 830V) HNM (High Number of Matings)

The modular inserts must be installed in suitable frames, which are then mounted in traditional enclosures or in COB panel supports.

frames for modular units

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- male and female contacts finger proof
- their key characteristic lies in the fact that they **guarantee maximum safety even in case of accidental contact with fingers (IP2X or IPXXB)**. Safety is guaranteed as standard on female contacts, but also on male contacts. This feature is important as it ensures full compliance with the recent safety standard **EN 60204-1**, concerning electric equipment fitted on machines and in particular with the requirements of Article 6.2.4 concerning protection against residual voltage. **In the case of plugs or similar devices, the withdrawal of which results in the exposure of conductors (for example pins), the discharge time shall not exceed 1 s, otherwise such conductors shall be protected against direct contact to at least an IP2X or IPXXB.**

modular units, crimp connections



**Q 10.000 MATINGS WITH HNM FRAMES AND HNM ENCLOSURES**

**Q 5.000 MATINGS WITH HNM FRAMES AND STANDARD ENCLOSURES, SINGLE LEVER**

40A and 10A crimp contacts gold plated



description

part No.

part No

without contacts (to be ordered separately)

female inserts for female contacts

male inserts for male contacts

CX 3/4 XDF  
CX 3/4 XDM

40A female crimp contacts

|                     |        |
|---------------------|--------|
| 1,5 mm <sup>2</sup> | AWG 16 |
| 2,5 mm <sup>2</sup> | AWG 14 |
| 4 mm <sup>2</sup>   | AWG 12 |
| 6 mm <sup>2</sup>   | AWG 10 |

40A male crimp contacts

|                     |        |
|---------------------|--------|
| 1,5 mm <sup>2</sup> | AWG 16 |
| 2,5 mm <sup>2</sup> | AWG 14 |
| 4 mm <sup>2</sup>   | AWG 12 |
| 6 mm <sup>2</sup>   | AWG 10 |

10A female crimp contacts

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

10A male crimp contacts

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

RXF2D 1.5  
RXF2D 2.5  
RXF2D 4.0  
RXF2D 6.0

RXM2D 1.5  
RXM2D 2.5  
RXM2D 4.0  
RXM2D 6.0

RDF2D 0.3  
RDF2D 0.5  
RDF2D 0.7  
RDF2D 1.0  
RDF2D 1.5  
RDF2D 2.5

RDM2D 0.3  
RDM2D 0.5  
RDM2D 0.7  
RDM2D 1.0  
RDM2D 1.5  
RDM2D 2.5

gold plated

- characteristics according to EN 61984:

**3 poles 40A 830V 8kV 3****4 poles 10A 830V 8kV 3**

- cULus (UL for USA and Canada),

- **ERC** certified

- rated voltage according to UL/CSA: 600V

- insulation resistance:  $\geq 10$  G $\Omega$ 

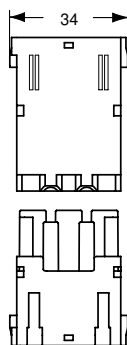
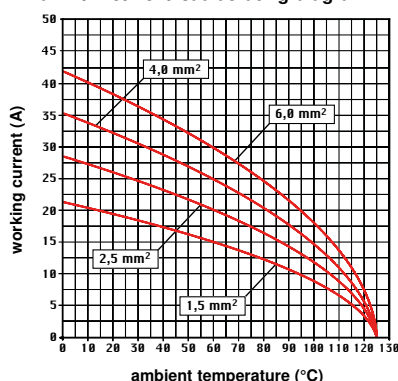
- ambient temperature limit: -40 °C ... +125 °C

- made of self-extinguishing thermoplastic resin UL 94V-0

- mechanical life:  $\geq 10.000$  cycles- contact resistance:  $\leq 0,3$  m $\Omega$  (3 poles),  $\leq 3$  m $\Omega$  (4 poles)

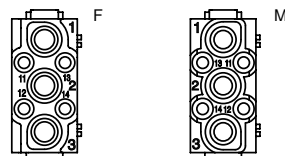
- for max. current load see the connector inserts derating diagram below; for more information see page 28

**CX 3/4 poles connector inserts**  
**Maximum current load derating diagram**



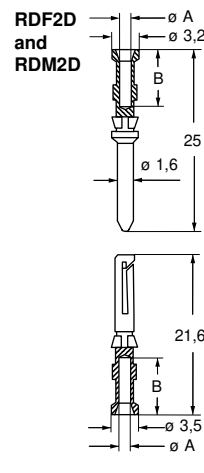
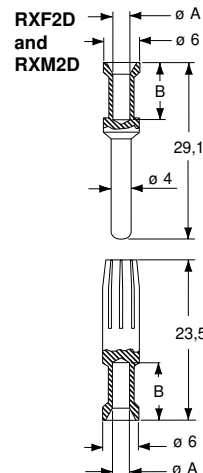
contacts side (front view)

side with reference arrow ▲



- 1 frame slot

- 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 contacts**

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

**RDF2D and RDM2D contacts**

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



The modular inserts must be installed in suitable frames, which are then mounted in traditional enclosures\* or in COB panel supports.

frames for modular units\*

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

modular units, crimp connections with red lock-in tab (included)



Q 10.000 MATINGS WITH HNM FRAMES AND HNM ENCLOSURES

Q 5.000 MATINGS WITH HNM FRAMES AND STANDARD ENCLOSURES, SINGLE LEVER

40A crimp contacts gold plated



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

without contacts (to be ordered separately)  
(module red lock-in tab included)  
female inserts for female contacts  
male inserts for male contacts

CX 04 XF  
CX 04 XM

40A female crimp contacts  
1,5 mm<sup>2</sup> AWG 16  
2,5 mm<sup>2</sup> AWG 14  
4 mm<sup>2</sup> AWG 12  
6 mm<sup>2</sup> AWG 10

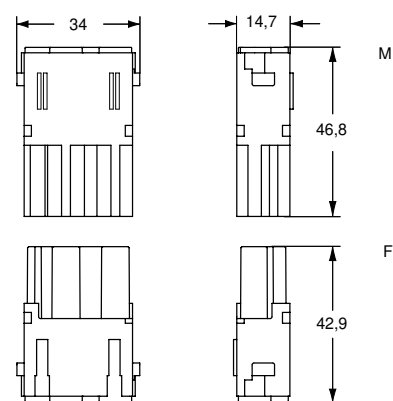
40A male crimp contacts  
1,5 mm<sup>2</sup> AWG 16  
2,5 mm<sup>2</sup> AWG 14  
4 mm<sup>2</sup> AWG 12  
6 mm<sup>2</sup> AWG 10

RXF2D 1.5  
RXF2D 2.5  
RXF2D 4.0  
RXF2D 6.0

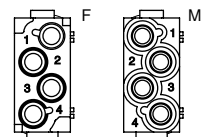
gold plated

RXM2D 1.5  
RXM2D 2.5  
RXM2D 4.0  
RXM2D 6.0

- characteristics according to EN 61984:  
**40A 830V 8kV 3**  
**40A 1000V 8kV 2**
- cULus (UL for USA and Canada),
- BUREAU VERITAS ENEC certified
- rated voltage according to UL/CSA: 600V
- insulation resistance:  $\geq 10\text{ G}\Omega$
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life:  $\geq 10.000$  cycles
- contact resistance:  $\leq 0,3\text{ m}\Omega$
- for spare lock-in tab **CX CFMX** see SPARE SPARTS catalogue
- it is recommended to crimp the contacts with crimping tools homologated by ILME (please see the crimping tool section 40A contacts, RXF2D and RXM2D series) on pages 708 - 741
- for max. current load see the connector inserts derating diagram below; for more information see page 28

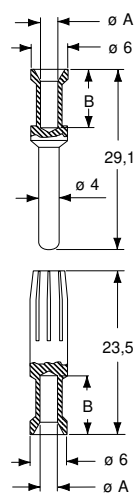
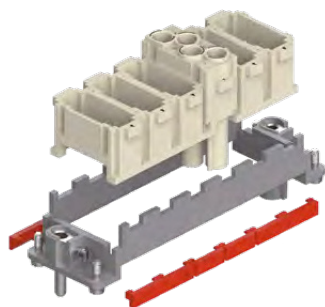


contacts side (front view)  
side with reference arrow ▲



- 1 frame slot

Female inserts are supplied with two red lock tab that must be used instead of those supplied with the frames.

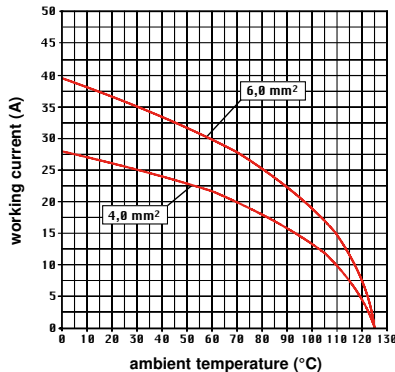


RXF2D and RXM2D contacts

| conductor section (mm <sup>2</sup> ) | conductor slot $\varnothing A$ (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                               |

- male and female contacts finger proof
- their key characteristic lies in the fact that they guarantee maximum safety even in case of accidental contact with fingers (IP2X or IPXXB). Safety is guaranteed as standard on female contacts, but also on male contacts. This feature is important as it ensures full compliance with the recent safety standard EN 60204-1, concerning electric equipment fitted on machines and in particular with the requirements of Article 6.2.4 concerning protection against residual voltage. In the case of plugs or similar devices, the withdrawal of which results in the exposure of conductors (for example pins), the discharge time shall not exceed 1 s, otherwise such conductors shall be protected against direct contact to at least an IP2X or IPXXB.

CX 04 poles connector inserts  
Maximum current load derating diagram



The modular inserts must be installed in suitable frames, which are then mounted in traditional enclosures or in COB panel supports.

frames for modular units

page:  
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modular units, crimp connections



### RATING 830V

**Q 10.000 MATINGS WITH HNM FRAMES AND HNM ENCLOSURES**

**Q 5.000 MATINGS WITH HNM FRAMES AND STANDARD ENCLOSURES, SINGLE LEVER**

16A crimp contacts gold plated



description

part No.

part No.

without contacts (to be ordered separately)

female inserts for female contacts

male inserts for male contacts

**CX 06P CF**  
**CX 06P CM**

16A female contacts

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

16A male contacts

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

**RCF2D 0.3**  
**RCF2D 0.5**  
**RCF2D 0.7**  
**RCF2D 1.0**  
**RCF2D 1.5**  
**RCF2D 2.5**  
**RCF2D 3.0**  
**RCF2D 4.0**

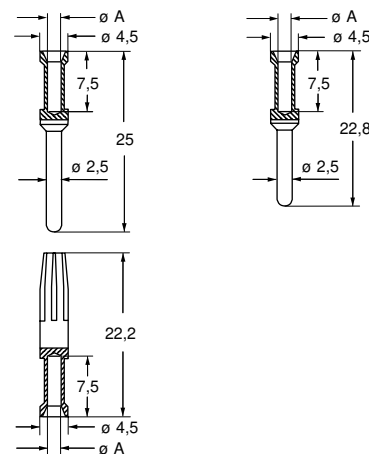
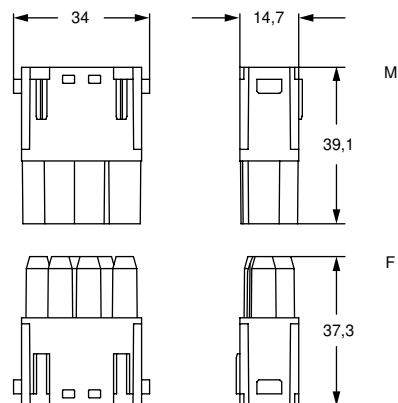
gold plated

**RCM2D 0.3**  
**RCM2D 0.5**  
**RCM2D 0.7**  
**RCM2D 1.0**  
**RCM2D 1.5**  
**RCM2D 2.5**  
**RCM2D 3.0**  
**RCM2D 4.0**

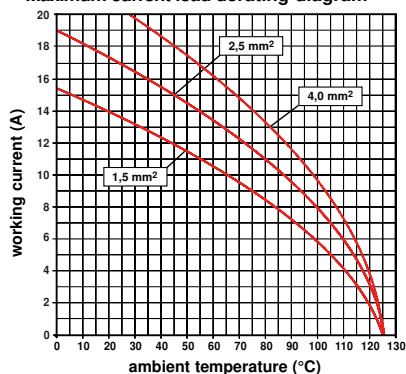
- characteristics according to EN 61984:

**16A 830V 8kV 3**

- certified
- rated voltage according to UL/CSA: 600V
- insulation resistance:  $\geq 10 \text{ G}\Omega$
- ambient temperature limit:  $-40^\circ\text{C} \dots +125^\circ\text{C}$
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life:  $\geq 10.000$  cycles
- contact resistance:  $\leq 1 \text{ m}\Omega$
- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 16A contacts, RCF2D and RCM2D series) on pages 708 - 741
- for max. current load see the connector inserts derating diagram below; for more information see page 28

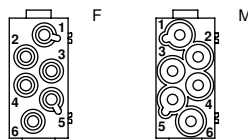


**CX 06 poles connector inserts**  
**Maximum current load derating diagram**



contacts side (front view)

side with reference arrow ▲



- 1 frame slot

**RCF2D and RCM2D contacts**

| conductor section (mm <sup>2</sup> ) | conductor slot $\phi A$ (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                              |

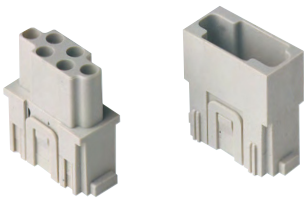


The modular inserts must be installed in suitable frames, which are then mounted in traditional enclosures or in COB panel supports.

frames for modular units

page:  
333

modular units, crimp connections



Q 10.000 MATINGS WITH HNM FRAMES AND HNM ENCLOSURES

Q 5.000 MATINGS WITH HNM FRAMES AND STANDARD ENCLOSURES, SINGLE LEVER

16A crimp contacts gold plated



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

without contacts (to be ordered separately)  
female inserts for female contacts  
male inserts for male contacts

CX 06 CF  
CX 06 CM

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

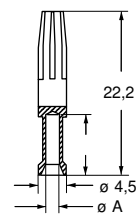
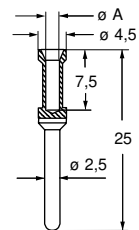
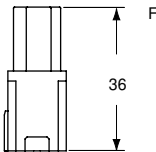
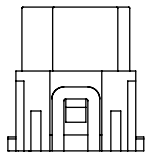
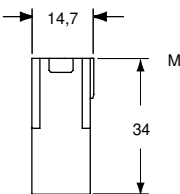
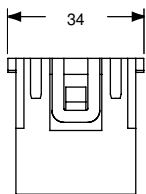
|                           |           |                        |
|---------------------------|-----------|------------------------|
| 16A male contacts         |           |                        |
| 0,14-0,37 mm <sup>2</sup> | AWG 26-22 | one groove             |
| 0,5 mm <sup>2</sup>       | AWG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

RCF2D 0.3  
RCF2D 0.5  
RCF2D 0.7  
RCF2D 1.0  
RCF2D 1.5  
RCF2D 2.5  
RCF2D 3.0  
RCF2D 4.0

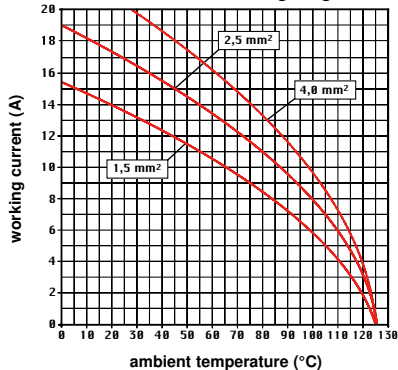
gold plated

RCM2D 0.3  
RCM2D 0.5  
RCM2D 0.7  
RCM2D 1.0  
RCM2D 1.5  
RCM2D 2.5  
RCM2D 3.0  
RCM2D 4.0

- characteristics according to EN 61984:  
**16A 500V 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: ≥ 10.000 cycles
- contact resistance: ≤ 1 mΩ
- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 16A contacts, RCF2D and RCM2D series) on pages 708 - 741
- for max. current load see the connector inserts derating diagram below; for more information see page 28

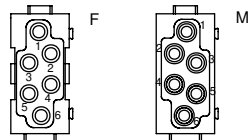


CX 06 poles connector inserts  
Maximum current load derating diagram



contacts side (front view)

side with reference arrow ▲



- 1 frame slot

RCF2D and RCM2D contacts

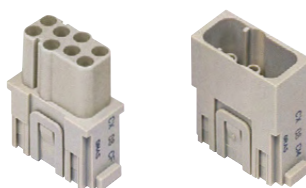
| conductor section mm <sup>2</sup> | conductor slot ø A (mm) | conductors stripping length (mm) |
|-----------------------------------|-------------------------|----------------------------------|
| 0,14-0,37                         | 0,9                     | 7,5                              |
| 0,5                               | 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                              |

The modular inserts must be installed in suitable frames, which are then mounted in traditional enclosures or in COB panel supports.

frames for modular units

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modular units, crimp connections



**Q 10.000 MATINGS WITH HNM FRAMES AND HNM ENCLOSURES**

**Q 5.000 MATINGS WITH HNM FRAMES AND STANDARD ENCLOSURES, SINGLE LEVER**

16A crimp contacts gold plated



description

part No.

part No

without contacts (to be ordered separately)

female inserts for female contacts

male inserts for male contacts

CX 08 CF  
CX 08 CM

16A female contacts

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

16A male contacts

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

RCF2D 0.3  
RCF2D 0.5  
RCF2D 0.7  
RCF2D 1.0  
RCF2D 1.5  
RCF2D 2.5  
RCF2D 3.0  
RCF2D 4.0

gold plated

RCM2D 0.3  
RCM2D 0.5  
RCM2D 0.7  
RCM2D 1.0  
RCM2D 1.5  
RCM2D 2.5  
RCM2D 3.0  
RCM2D 4.0

- characteristics according to EN 61984:

16A 500V 6kV 3

16A 400/690V 6kV 2

- certified

- rated voltage according to UL/CSA: 600V

- insulation resistance:  $\geq 10 \text{ G}\Omega$ 

- ambient temperature limit: -40 °C ... +125 °C

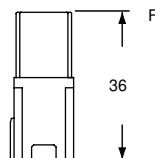
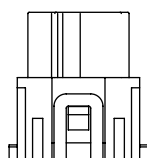
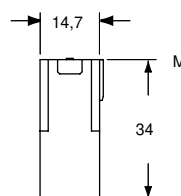
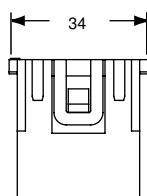
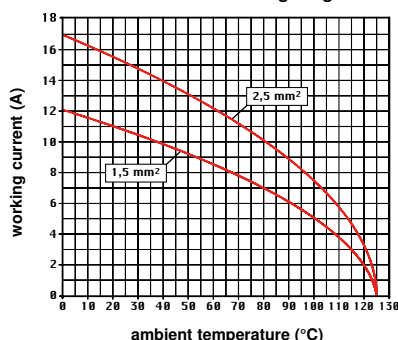
- made of self-extinguishing thermoplastic resin UL 94V-0

- mechanical life:  $\geq 10.000$  cycles- contact resistance:  $\leq 1 \text{ m}\Omega$ 

- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 16A contacts, RCF2D and RCM2D series) on pages 708 - 741

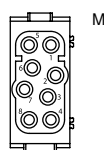
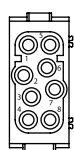
- for max. current load see the connector inserts derating diagram below; for more information see page 28

**CX 08 poles connector inserts**  
**Maximum current load derating diagram**

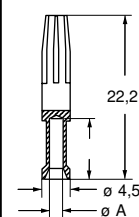
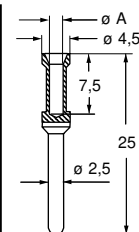


contacts side (front view)

side with reference arrow ▲



- 1 frame slot

**RCF2D and RCM2D contacts**

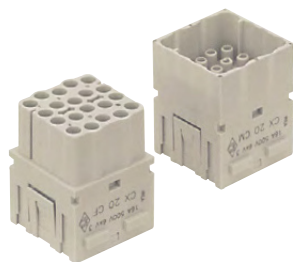
| conductor section mm <sup>2</sup> | conductor slot $\phi A$ (mm) | conductors stripping length (mm) |
|-----------------------------------|------------------------------|----------------------------------|
| 0,14-0,37                         | 0,9                          | 7,5                              |
| 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                              |

**The modular inserts must be installed in suitable frames, which are then mounted in traditional enclosures or in COB panel supports.**

frames for modular units

page:  
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**modular units, crimp connections**



**Q 10.000 MATINGS WITH HNM FRAMES AND HNM ENCLOSURES**

**Q 5.000 MATINGS WITH HNM FRAMES AND STANDARD ENCLOSURES, SINGLE LEVER**

**16A crimp contacts  
gold plated**



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

without contacts (to be ordered separately)

female inserts for female contacts 1)

male inserts for male contacts <sup>1)</sup>

CX 20 CF  
CX 20 CM

16A female contacts

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

16A male contacts

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

RCF2D 0.3  
RCF2D 0.5  
RCF2D 0.7  
RCF2D 1.0  
RCF2D 1.5  
RCF2D 2.5  
RCF2D 3.0  
RCF2D 4.0

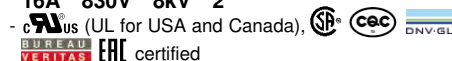
gold plated

RCM2D 0.3  
RCM2D 0.5  
RCM2D 0.7  
RCM2D 1.0  
RCM2D 1.5  
RCM2D 2.5  
RCM2D 3.0  
RCM2D 4.0

<sup>1)</sup> on request, version with 3 fastened CX 20 CF/CM inserts with poles numbered from 1 – 60  
references: **CX 60 CF, CX 60 CM**

- characteristics according to EN 61984:

| Characteristics | accelerating voltage | beam current | exposure rate |
|-----------------|----------------------|--------------|---------------|
| 16A             | 500V                 | 6kV          | 3             |
| 16A             | 830V                 | 8kV          | 2             |



**BUREAU VERITAS** EAC certified

- rated voltage according to UL/CSA: 600V

- insulation resistance:  $\geq 10 \text{ G}\Omega$

- ambient temperature limit: -40 °C ... +125 °C

- made of self-extinguishing thermoplastic resin  
UL 94V-0

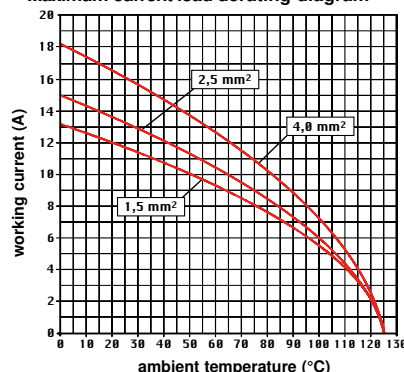
- mechanical life:  $\geq 10.000$  cycles

- contact resistance:  $\leq 1 \text{ m}\Omega$

- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 16A contacts, RCF2D and RCM2D series) on pages 708 - 741

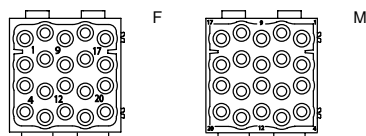
- for max. current load see the connector inserts derating diagram below; for more information see page 28

**CX20 poles connector inserts**  
**Maximum current load derating diagram**

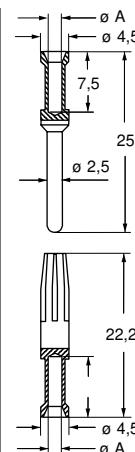


contacts side (front view)

side with reference arrow ▲



- 2 frame slots



### RCF2D and RCM2D contacts

| conductor<br>section<br>mm <sup>2</sup> | conductor<br>slot<br>ø A (mm) | conductors<br>stripping length<br>(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                                    |

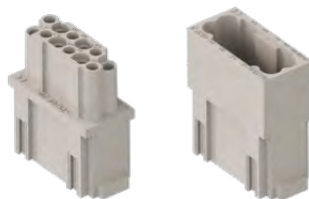
The modular inserts must be installed in suitable frames, which are then mounted in traditional enclosures\* or in COB panel supports.

frames for modular units\*

page:  
333

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

modular units, crimp connections



**RATING 250V**

**Q 10.000 MATINGS WITH HNM FRAMES AND HNM ENCLOSURES**

**Q 5.000 MATINGS WITH HNM FRAMES AND STANDARD ENCLOSURES, SINGLE LEVER**

10A crimp contacts  
gold plated



description

part No.

part No

without contacts (to be ordered separately)

female inserts for female contacts

male inserts for male contacts

**CX 12 DF**  
**CX 12 DM**

10A female contacts

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

10A male contacts

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

**RDF2D 0.3**  
**RDF2D 0.5**  
**RDF2D 0.7**  
**RDF2D 1.0**  
**RDF2D 1.5**  
**RDF2D 2.5**

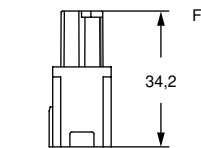
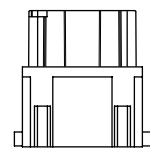
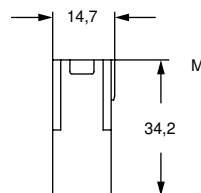
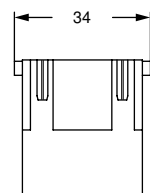
gold plated

**RDM2D 0.3**  
**RDM2D 0.5**  
**RDM2D 0.7**  
**RDM2D 1.0**  
**RDM2D 1.5**  
**RDM2D 2.5**

- characteristics according to EN 61984:

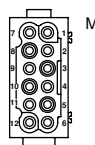
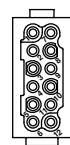
**10A 250V 4kV 3**

- certified
- rated voltage according to UL/CSA: 600V
- insulation resistance:  $\geq 10$  G $\Omega$
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life:  $\geq 10.000$  cycles
- contact resistance:  $\leq 3$  m $\Omega$
- PCBs interface, refer to article CIF 2.4 on page 670
- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 10A contacts, RDF2D and RDM2D series) on pages 708 - 741
- for max. current load see the connector inserts derating diagram below; for more information see page 28

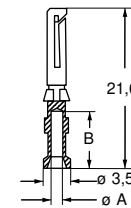
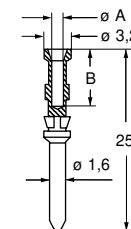


contacts side (front view)

side with reference arrow ▲



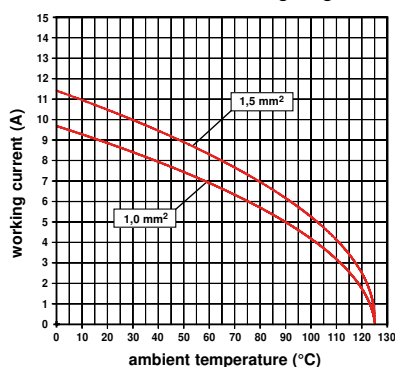
- 1 frame slot



**RDF2D and RDM2D contacts**

| conductor section mm <sup>2</sup> | conductor slot $\phi$ 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                                  |

**CX 12 poles connector inserts**  
**Maximum current load derating diagram**





The modular inserts must be installed in suitable frames, which are then mounted in traditional enclosures or in COB panel supports.

frames for modular units

page:  
333

modular units, crimp connections



Q 10.000 MATINGS WITH HNM FRAMES AND HNM ENCLOSURES

Q 5.000 MATINGS WITH HNM FRAMES AND STANDARD ENCLOSURES, SINGLE LEVER

10A crimp contacts, gold plated



description

part No.

part No

without contacts (to be ordered separately)  
female inserts for female contacts  
male inserts for male contacts

CX 17 DF  
CX 17 DM

10A female contacts

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

RDF2D 0.3  
RDF2D 0.5  
RDF2D 0.7  
RDF2D 1.0  
RDF2D 1.5  
RDF2D 2.5

gold plated

10A male contacts

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

RDM2D 0.3  
RDM2D 0.5  
RDM2D 0.7  
RDM2D 1.0  
RDM2D 1.5  
RDM2D 2.5

- characteristics according to EN 61984:

**10A 160V 2,5kV 3**  
**10A 250V 4kV 2**

- cULus (UL for USA and Canada),

- EAC certified

- rated voltage according to UL/CSA: 250V

- insulation resistance:  $\geq 10\text{ G}\Omega$

- ambient temperature limit: -40 °C ... +125 °C

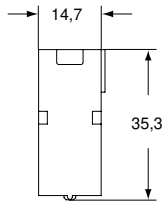
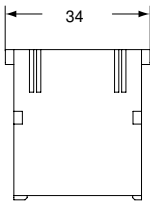
- made of self-extinguishing thermoplastic resin  
UL 94V-0

- mechanical life:  $\geq 10.000$  cycles

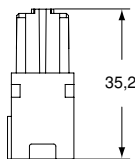
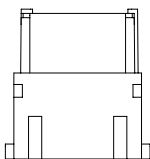
- contact resistance:  $\leq 3\text{ m}\Omega$

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

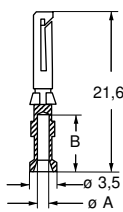
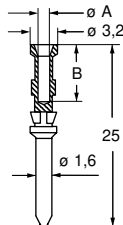
- for max. current load see the connector inserts derating diagram below; for more information see page 28



M

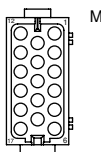
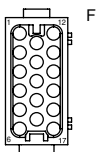


F



contacts side (front view)

side with reference arrow ▲

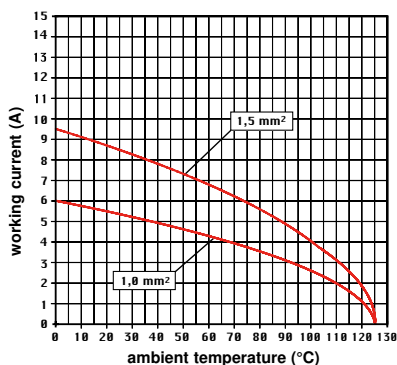


- 1 frame slot

RDF2D and RDM2D contacts

| conductor section mm <sup>2</sup> | conductor slot $\phi A$ (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                                  |

CX 17 poles connector inserts  
Maximum current load derating diagram

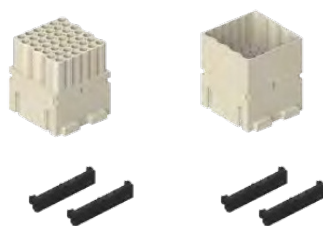


The modular inserts must be installed in suitable frames, which are then mounted in traditional enclosures\* or in COB panel supports.

frames for modular units\*

page:  
333

modular units,  
crimp connections



**Q 10.000 MATINGS WITH HNM FRAMES  
AND HNM ENCLOSURES**

**Q 5.000 MATINGS WITH HNM FRAMES AND  
STANDARD ENCLOSURES, SINGLE LEVER**

10A crimp contacts  
gold plated



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

description

part No.

part No.

without contacts (to be ordered separately), supplied with 2 dedicated black coloured 2-slot sized lock-in tab female inserts for female contacts male inserts for male contacts

**CX 42 DF**  
**CX 42 DM**

10A female contacts

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

10A male contacts

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

**RDF2D 0.3**  
**RDF2D 0.5**  
**RDF2D 0.7**  
**RDF2D 1.0**  
**RDF2D 1.5**  
**RDF2D 2.5**

gold plated

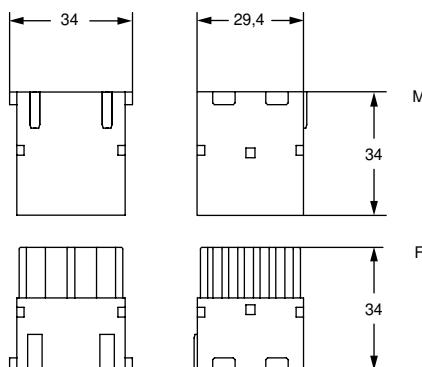
**RDM2D 0.3**  
**RDM2D 0.5**  
**RDM2D 0.7**  
**RDM2D 1.0**  
**RDM2D 1.5**  
**RDM2D 2.5**

- characteristics according to EN 61984:

**10A 150V 2,5kV 3**

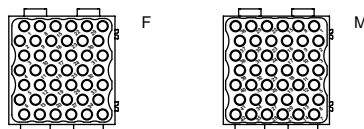
- cURus, CSA, CQC, DNV-GL, BV, EAC pending
- rated voltage according to UL/CSA: 250V
- insulation resistance:  $\geq 10 \text{ G}\Omega$
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life:  $\geq 10.000$  cycles
- contact resistance:  $\leq 3 \text{ m}\Omega$
- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 10A contacts, RDF2D and RDM2D series) on pages 708 - 741

- supplied with dedicated black coloured 2-slot sized lock-in tab (2, one per each side).
- for spare lock-in tab **CX CFMD** see SPARE SPARTS catalogue

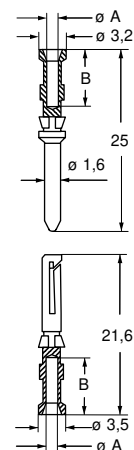


contacts side (front view)

rear view, side with reference arrow ▲



- 2 frame slots



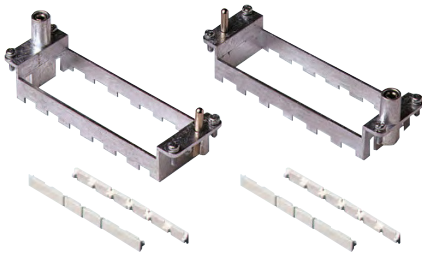
**RDF2D and RDM2D contacts**

| conductor cross-sectional area mm <sup>2</sup> | conductor slot ø A (mm) | conductor stripping length B (mm) |
|------------------------------------------------|-------------------------|-----------------------------------|
| 0,14-0,37                                      | 0,9                     | 8                                 |
| 0,5                                            | 1,1                     | 8                                 |
| 0,75                                           | 1,3                     | 8                                 |
| 1,0                                            | 1,45                    | 8                                 |
| 1,5                                            | 1,8                     | 8                                 |
| 2,5                                            | 2,2                     | 6                                 |

| enclosures size:                        | page:                     |
|-----------------------------------------|---------------------------|
| "44.27" HNM                             | 592 - 593                 |
| C-TYPE IP65/IP66, single lever          | 387 - 392                 |
| V-TYPE IP65/IP66, single lever          | 444 - 447                 |
| E-Xtreme® corrosion proof               | 530-531, 542, 550-551     |
| "57.27" HNM                             | 594 - 595                 |
| C-TYPE IP65/IP66, single lever          | 393 - 401                 |
| V-TYPE IP65/IP66, single lever          | 448 - 453                 |
| E-Xtreme® corrosion proof               | 532 - 533, 543, 552 - 553 |
| "77.27" HNM                             | 596 - 597                 |
| C-TYPE IP65/IP66, single lever          | 402 - 411                 |
| V-TYPE IP65/IP66, single lever          | 454 - 458                 |
| E-Xtreme® corrosion proof               | 534 - 535, 544, 554 - 555 |
| "104.27" HNM                            | 598 - 599                 |
| C-TYPE IP65/IP66, single lever          | 412 - 423                 |
| V-TYPE IP65/IP66, single lever          | 459 - 463                 |
| E-Xtreme® corrosion proof               | 536 - 537, 545, 556 - 557 |
| "77.62" C-TYPE IP65/IP66, single lever  | 424 - 429                 |
| E-Xtreme® corrosion proof               | 546                       |
| "104.62" C-TYPE IP65/IP66, single lever | 430                       |
| E-Xtreme® corrosion proof               | 547                       |

C-TYPE and V-TYPE 2-lever versions cannot be used to reach 5.000 matings.

frames for modular units  
with lock-in tab (included)



- Q 10.000 MATINGS WITH HNM FRAMES AND HNM ENCLOSURES
- Q 5.000 MATINGS WITH HNM FRAMES AND STANDARD ENCLOSURES, SINGLE LEVER

description

part No.

- frames for modular units with lock-in tab included
- for 2 modular units - for housing size 44.27
- for 3 modular units - for housing size 57.27
- for 4 modular units - for housing size 77.27 and 77.62
- for 6 modular units - for housing size 104.27 and 104.62

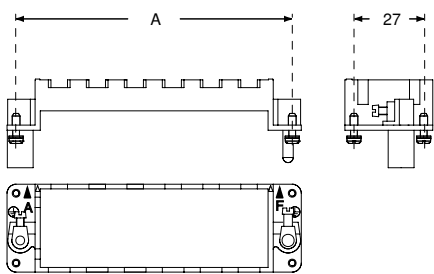
type for hoods

type for housings

|          |          |
|----------|----------|
| RX 02 TM | RX 02 TF |
| RX 03 TM | RX 03 TF |
| RX 04 TM | RX 04 TF |
| RX 06 TM | RX 06 TF |

- die-cast zinc alloy frames
- protective earth (PE)
- possibility of mounting female and male modular units on the same frame
- frames supplied with lock-in tab to attach units
- polarisation on frames
- coding pins **CR..CX**
- for spare lock-in tab **CX CFM** see SPARE SPARTS catalogue

RX TM / TF



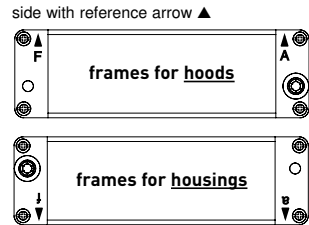
| part No.      | A (mm) | for housings size |
|---------------|--------|-------------------|
| RX 02 TM / TF | 44     | 44.27             |
| RX 03 TM / TF | 57     | 57.27             |
| RX 04 TM / TF | 77,5   | 77.27 and 77.62   |
| RX 06 TM / TF | 104    | 104.27 and 104.62 |

Earth terminal

- large: for cables from 4-6 mm<sup>2</sup>, AWG 12-10
- small: for cables from 1-2,5 mm<sup>2</sup>, AWG 18-14

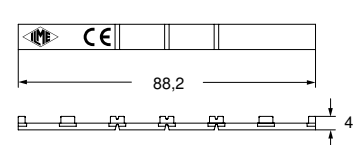
☒ In order to accomodate larger PE conductor cross-sectional area, use CGT PE adapters, see page 319.

position of modules (contact side view)



side with reference arrow ▲

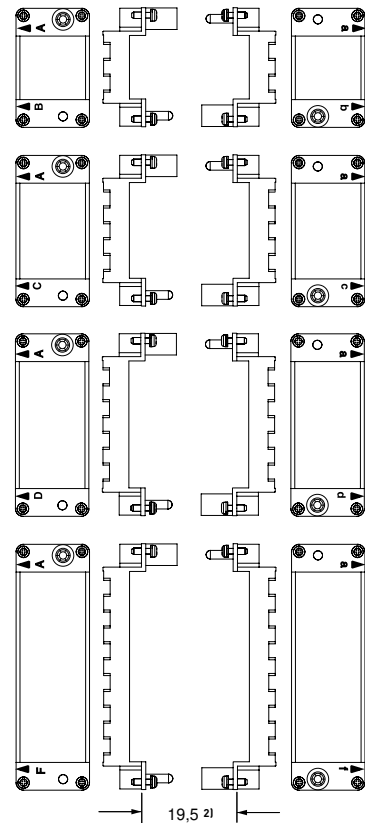
CX CFM (lock-in tab)



Polarisation of frames with relative identification letters and couplings

frame for hoods 1)

frames for housings 1)



1) Warning:

- The module support frames are marked:
- FOR HOODS: **upper-case A-B, A-C, A-D and A-F**
- FOR HOUSINGS: **lower-case a-b, a-c, a-d and a-f**

Positioning the modules in the frames according to the respective letters is ensuring the specular assembly of modules, for which the hood will be coupled correctly to the housing.

2) Distance for:

- electric and fibre optic contacts: max 21 mm
- pneumatic contacts: max 20,5 mm

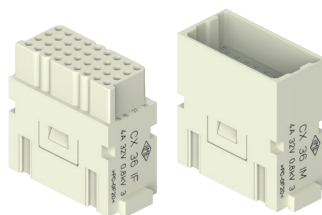
The modular inserts must be installed in suitable frames which are then mounted in HNM enclosures.

**modular units,  
crimp connections**

**RI (4 A) crimp contacts  
gold plated**

frames for modular units

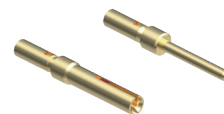
page:  
33



**Q 10.000 MATINGS WITH HNM FRAMES AND HNM ENCLOSURES**

**Q 5.000 MATINGS WITH HNM FRAMES AND STANDARD ENCLOSURES, SINGLE LEVER**

FROM FEBRUARY 2020



 **FROM MAY 2020**

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

without contacts (to be ordered separately)  
female inserts for female contacts  
male inserts for male contacts

CX 36 IF  
CX 36 IM

|                                |           |
|--------------------------------|-----------|
| RI (4 A) female crimp contacts |           |
| 0,08-0,21 mm <sup>2</sup>      | AWG 28-24 |
| 0,13-0,33 mm <sup>2</sup>      | AWG 26-22 |
| 0,33-0,52 mm <sup>2</sup>      | AWG 22-20 |

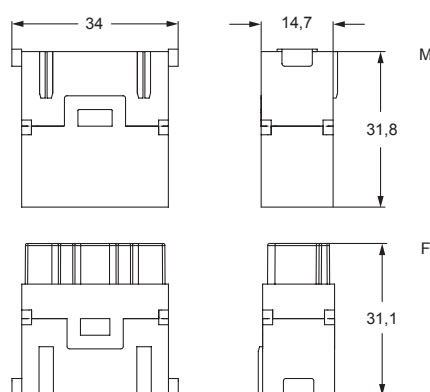
RI (4 A) male crimp contacts  
0,08-0,21 mm<sup>2</sup> AWG 28-24  
0,13-0,33 mm<sup>2</sup> AWG 26-22  
0,33-0,52 mm<sup>2</sup> AWG 22-20

RIFD 0.2  
RIFD 0.3  
RIFD 0.5

RIMD 0.2  
RIMD 0.3  
RIMD 0.5

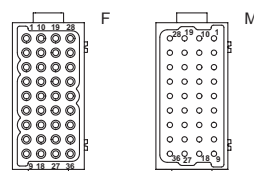
gold plated

- characteristics according to EN/IEC 61984 ratings:  
**4 A 32 V 0,8 kV 3**
- cUL (UL for USA and Canada), CSA, DNV-GL, BV pending
- rated voltage according to UL/CSA: 30 V
- insulation resistance:  $\geq 10 \text{ G}\Omega$
- Lower and Upper Limiting Temperatures (LLT ... ULT):  
-40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin  
UL 94V-0
- mechanical life:  $\geq 10.000$  cycles
- contact resistance:  $\leq 4 \text{ m}\Omega$
- for crimp contacts RI series use:  
**CIPZ D** crimping tool  
**CIPZP D** pneumatic crimping tool (see page 144)  
**CITP D** turret head  
**CIES** insertion / removal tool for contacts 0,2 - 0,5 mm<sup>2</sup>  
(see pages 716 - 719 of CN.19 catalogue)
- for max. current load see the connector inserts derating diagrams **under construction**.

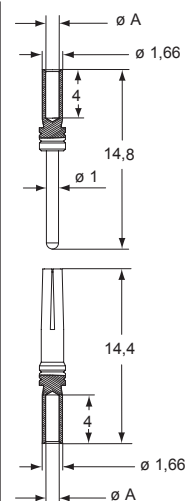


contacts side (front view)

side with reference arrow ▲



- 1 frame slot



### RIF and RIM contacts

| conductor<br>section<br>(mm <sup>2</sup> ) | conductor<br>slot<br>Ø A (mm) | conductors<br>stripping length<br>(mm) |
|--------------------------------------------|-------------------------------|----------------------------------------|
| 0,08-0,21                                  | 0,64                          | 4                                      |
| 0,13-0,33                                  | 0,90                          | 4                                      |
| 0,33-0,52                                  | 1,12                          | 4                                      |

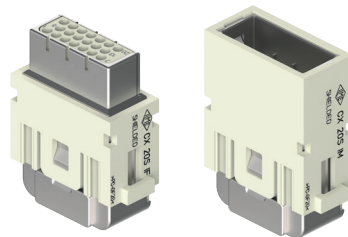
The modular inserts must be installed in suitable frames which are then mounted in HNM enclosures.

frames for modular units

page:  
39

- we recommend the use of CRF / CRM code pins together with relevant MIXO frame

modular units,  
crimp connection



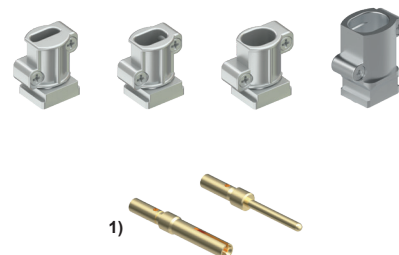
**Q 10.000 MATINGS WITH HNM FRAMES AND HNM ENCLOSURES**

**Q 5.000 MATINGS WITH HNM FRAMES AND STANDARD ENCLOSURES, SINGLE LEVER**

**FROM NOVEMBER 2020**

cable clamp

RI (4 A) crimp contacts, gold plated



**FROM MAY 2020 <sup>1)</sup>**

description

part No.

part No.

without contacts (to be ordered separately)  
female inserts for female contacts  
male inserts for male contacts

RX 20S IF  
RX 20S IM

cable clamp for 5-7 mm cable diameter  
cable clamp for 7-10 mm cable diameter  
cable clamp for 10-12 mm cable diameter  
cable clamp for 11-14 mm cable diameter

CX 5/7 CA  
CX 7/10 CA  
CX 10/12 CA  
CX 11/14 CA

RI (4A) female crimp contacts  
0,08-0,21 mm<sup>2</sup> AWG 28-24  
0,13-0,33 mm<sup>2</sup> AWG 26-22  
0,33-0,52 mm<sup>2</sup> AWG 22-20

RIFD 0.2  
RIFD 0.3  
RIFD 0.5

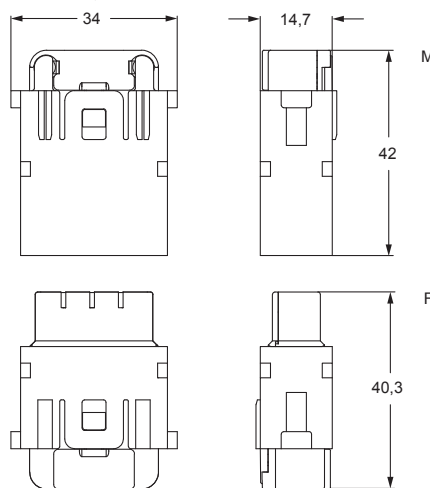
RI (4A) male crimp contacts  
0,08-0,21 mm<sup>2</sup> AWG 28-24  
0,13-0,33 mm<sup>2</sup> AWG 26-22  
0,33-0,52 mm<sup>2</sup> AWG 22-20

RIMD 0.2  
RIMD 0.3  
RIMD 0.5

gold plated

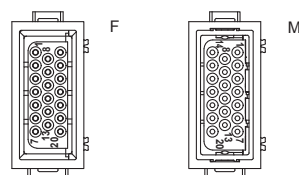
- characteristics according to EN/IEC 61984 ratings:  
**4 A 32 V 0,8 kV 3**
- cUL (UL for USA and Canada), CSA, DNV-GL, BV pending
- rated voltage according to UL/CSA: 32 V
- insulation resistance:  $\geq 10$  G $\Omega$
- Lower and Upper Limiting Temperatures (LLT ... ULT):  
-40 °C ... +85 °C
- shield electrically separated from the PE of the housings
- made of self-extinguishing thermoplastic resin  
UL 94V-0
- mechanical life:  $\geq 10.000$  cycles
- contact resistance:  $\leq 4$  m $\Omega$
- for crimp contacts RI series use:  
**CIPZ D** crimping tool  
**CIPZP D** pneumatic crimping tool (see page 144)  
**CITP D** turret head  
(see pages 716 - 719 of CN.19 catalogue)
- for max. current load see the connector inserts derating diagrams **under construction**.

RX 20S IF, RX 20S IM



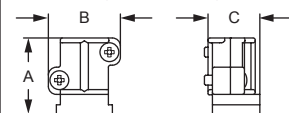
contacts side (front view)

side with reference arrow ▲

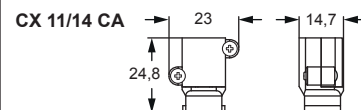


- 1 frame slot

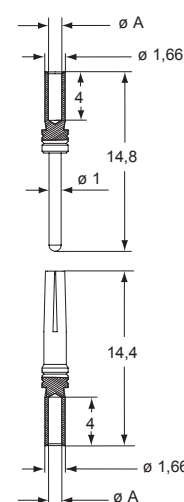
CX 5/7 CA, CX 7/10 CA, CX 10/12 CA



| part No.    | A    | B    | C     |
|-------------|------|------|-------|
| CX 5/7 CA   | 19,1 | 18   | 12,95 |
| CX 7/10 CA  | 19,1 | 18   | 12,95 |
| CX 10/12 CA | 19,1 | 20,8 | 12,95 |



RIF and RIM

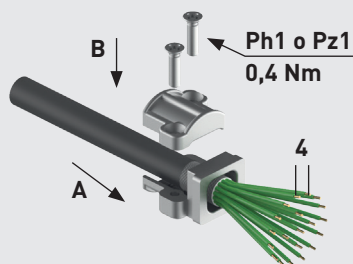
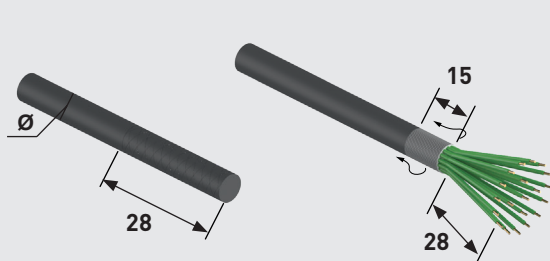


RIF and RIM contacts

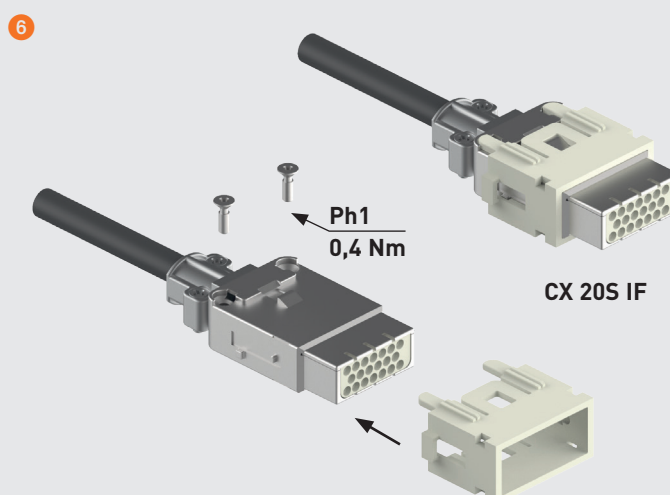
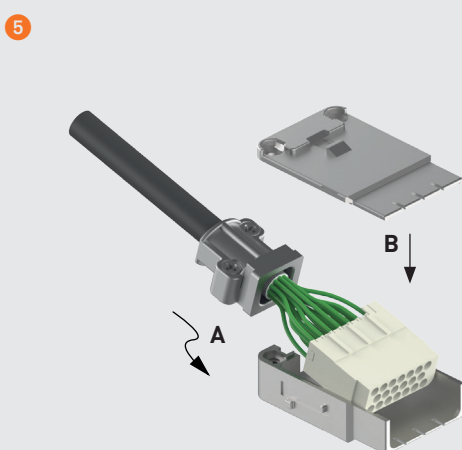
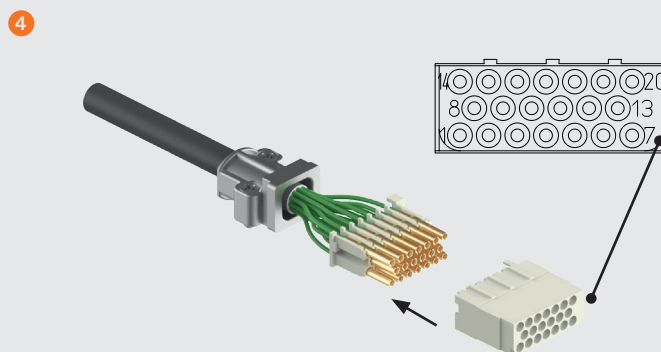
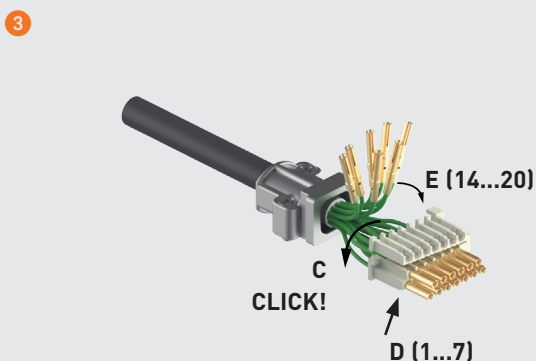
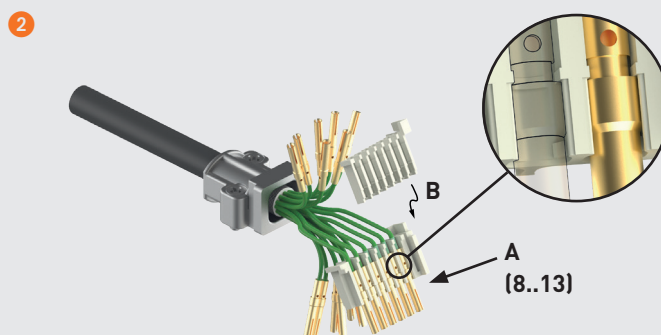
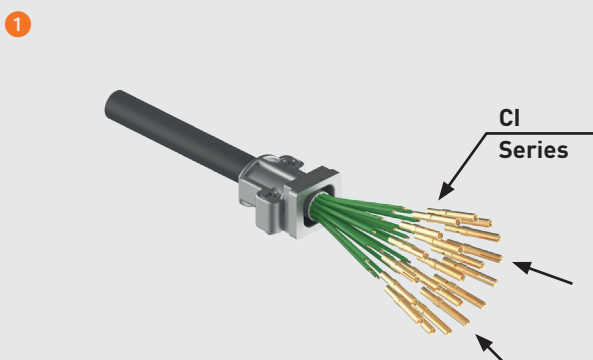
| conductor section (mm <sup>2</sup> ) | conductor slot ø A (mm) | conductors stripping length (mm) |
|--------------------------------------|-------------------------|----------------------------------|
| 0,08-0,21                            | 0,64                    | 4                                |
| 0,13-0,33                            | 0,90                    | 4                                |
| 0,33-0,52                            | 1,12                    | 4                                |

**CX 20S IF/IM 20 poles + shield 4 A module - 32 V****ASSEMBLY INSTRUCTIONS****MIXO SHIELDED CX 20S IF**

Watch  
our online  
tutorial



| Cable clamp<br>part No. | mm<br>Ø | Screw<br>size | Tightening torque<br>(Nm) | Recommended<br>size of screwdriver |
|-------------------------|---------|---------------|---------------------------|------------------------------------|
| CX 5/7 CA               | 5-7     | M 2,5         | 0,4                       | Ph1                                |
| CX 7/10 CA              | 7-10    | M 2,5         | 0,4                       | Ph1                                |
| CX 10/12 CA             | 10-12   | M 2,5         | 0,4                       | Ph1                                |
| CX 11/14 CA             | 11-14   | M 2,5         | 0,4                       | Pz1                                |



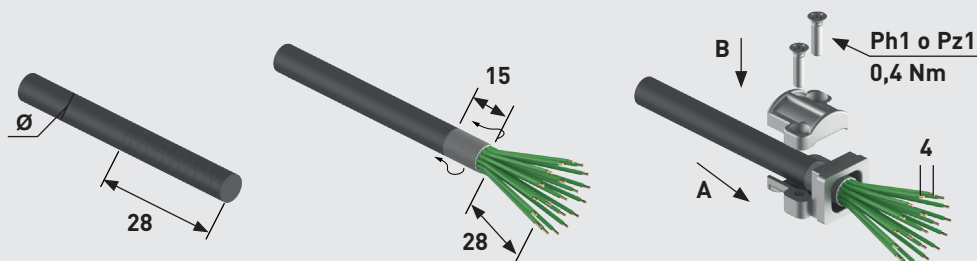
## CX 20S IF/IM 20 poles + shield 4 A module - 32 V

## ASSEMBLY INSTRUCTIONS

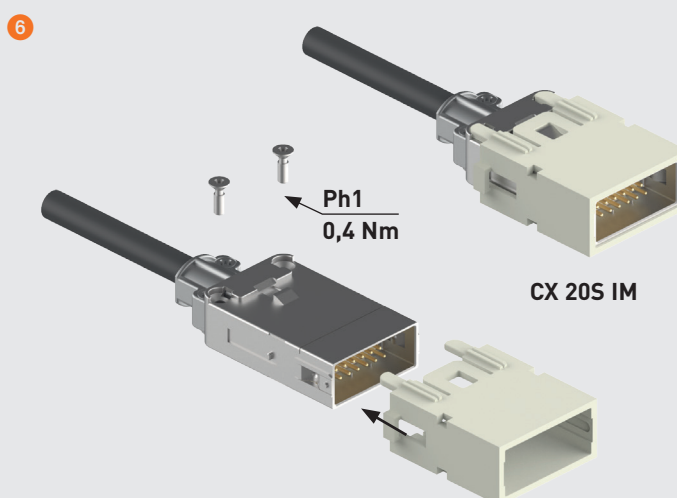
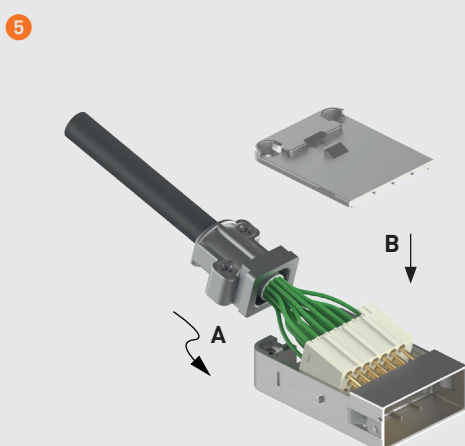
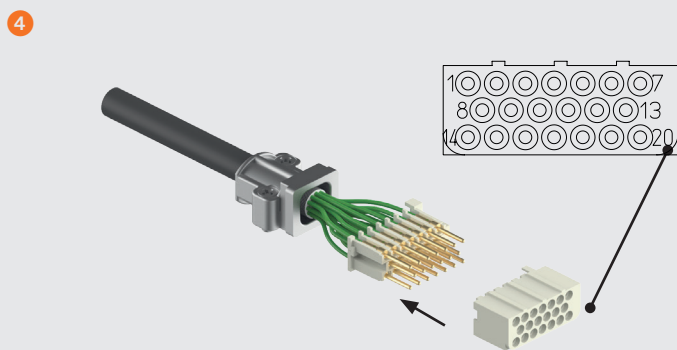
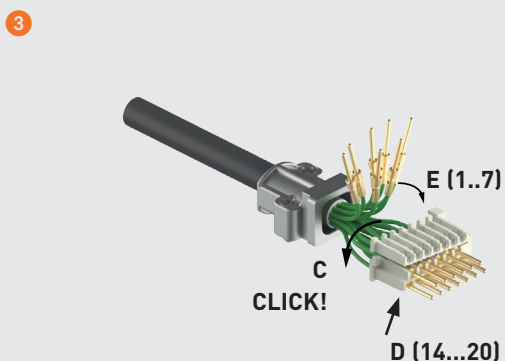
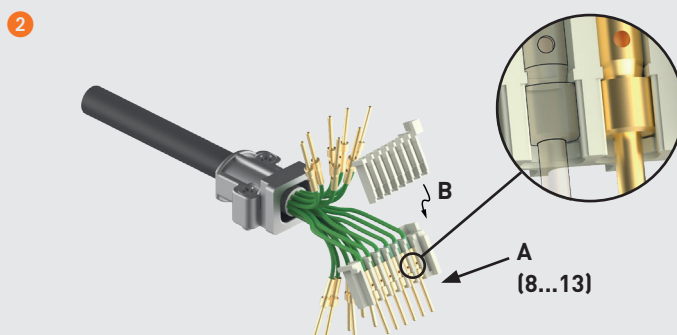
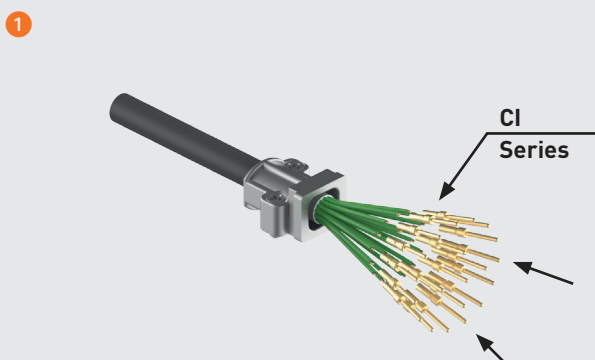
## MIXO SHIELDED CX 20S IM



Watch  
our online  
tutorial



| Cable clamp<br>part No. | mm    | Screw<br>size | Tightening torque<br>(Nm) | Recommended<br>size of screwdriver |
|-------------------------|-------|---------------|---------------------------|------------------------------------|
| CX 5/7 CA               | 5-7   | M 2,5         | 0,4                       | Ph1                                |
| CX 7/10 CA              | 7-10  | M 2,5         | 0,4                       | Ph1                                |
| CX 10/12 CA             | 10-12 | M 2,5         | 0,4                       | Ph1                                |
| CX 11/14 CA             | 11-14 | M 2,5         | 0,4                       | Pz1                                |



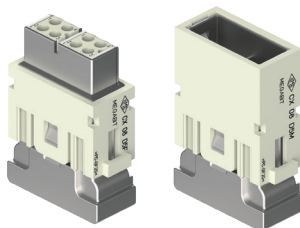
The modular inserts must be installed in suitable frames which are then mounted in HNM enclosures.

frames for modular units

page:  
48

- we recommend the use of CRF / CRM code pins together with relevant MIXO frame

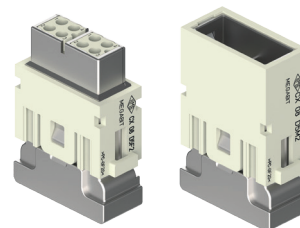
modular units, crimp connection  
single cable entry



Q 10.000 MATINGS WITH HNM FRAMES AND HNM ENCLOSURES  
Q 5.000 MATINGS WITH HNM FRAMES AND STANDARD ENCLOSURES, SINGLE LEVER

FROM NOVEMBER 2020

modular units, crimp connection  
double cable entry



Q 10.000 MATINGS WITH HNM FRAMES AND HNM ENCLOSURES  
Q 5.000 MATINGS WITH HNM FRAMES AND STANDARD ENCLOSURES, SINGLE LEVER

FROM NOVEMBER 2020

description

part No.

part No.

without contacts (to be ordered separately)  
female inserts for female contacts  
male inserts for male contacts

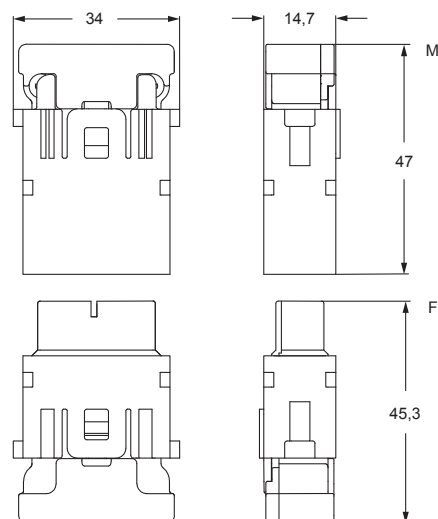
RX 08 D5F  
RX 08 D5M

without contacts (to be ordered separately)  
female inserts for female contacts  
male inserts for male contacts

RX 08 D5F2  
RX 08 D5M2

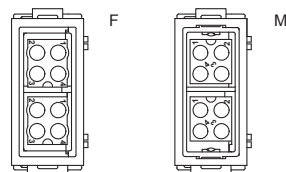
- characteristics according to EN/IEC 61984 ratings:  
**10 A 50 V 0,8 kV 3**
- cUL (UL for USA and Canada), CSA, CQC, DNV-GL, BV pending
- rated voltage according to UL/CSA: 50 V
- insulation resistance:  $\geq 10 \text{ G}\Omega$
- ambient temperature limit:  $-40^\circ\text{C} \dots +85^\circ\text{C}$
- fully shielded connector module for data transmission, Megabit Ethernet Category 5e (5 in the code), Class D, frequencies up to 100 MHz, data rate up to 100 Mbit/s
- shield electrically separated from the PE circuit MIXO frame
- made of self-extinguishing thermoplastic resin UL 94V-0
- shield made by zinc-alloy
- mechanical life:  $\geq 10.000$  cycles
- contact resistance:  $\leq 3 \text{ m}\Omega$
- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 10A contacts CDF, CDM series, pages 708 - 741 of CN.19 catalogue).
- For 10A contacts CDF, CDM series, see also the new pneumatic crimping tool CCPZP RN (see page 145).

RX 08 D5F, RX 08 D5M



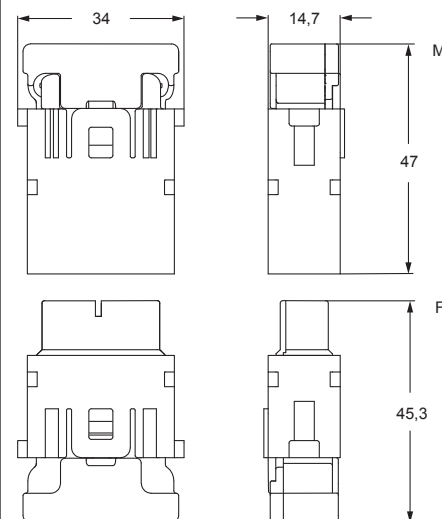
contacts side (front view)

side with reference arrow ▲



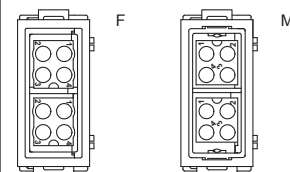
- 1 frame slot

RX 08 D5F2, RX 08 D5M2



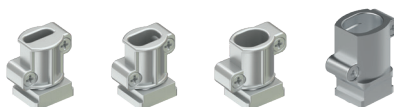
contacts side (front view)

side with reference arrow ▲



- 1 frame slot

## cable clamp



## RD 2D (10 A) crimp contacts gold plated



### description

### part No.

### part No.

cable clamp for 5-7 mm cable diameter  
cable clamp for 7-10 mm cable diameter  
cable clamp for 10-12 mm cable diameter  
cable clamp for 11-14 mm cable diameter \*

**CX 5/7 CA**  
**CX 7/10 CA**  
**CX 10/12 CA**  
**CX 11/14 CA**

### 10 A female contacts

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

**RDF2D 0.3**  
**RDF2D 0.5**  
**RDF2D 0.7**  
**RDF2D 1.0**  
**RDF2D 1.5**  
**RDF2D 2.5**

gold plated

### 10 A male contacts

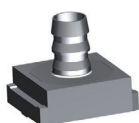
|                           |           |                      |
|---------------------------|-----------|----------------------|
| 0,14-0,37 mm <sup>2</sup> | AWG 26-22 | identification No. 1 |
| 0,5 mm <sup>2</sup>       | AWG 20    | identification No. 2 |
| 0,75 mm <sup>2</sup>      | AWG 18    |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

**RDM2D 0.3**  
**RDM2D 0.5**  
**RDM2D 0.7**  
**RDM2D 1.0**  
**RDM2D 1.5**  
**RDM2D 2.5**

### \* only for single cable entry modules

☑ Upon request we can supply crimp flange and crimp sleeves of different diameters that must be chosen according to the specific cable shield and insulation diameter, please contact ILME Commercial Offices.

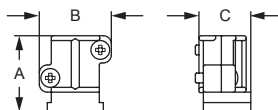
### crimp flange



### crimp sleeves

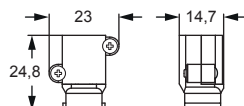


### CX 5/7 CA, CX 7/10 CA, CX 10/12 CA

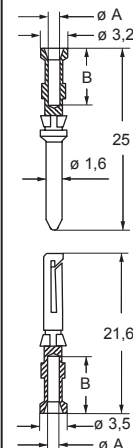


| part No.           | A    | B    | C     |
|--------------------|------|------|-------|
| <b>CX 5/7 CA</b>   | 19,1 | 18   | 12,95 |
| <b>CX 7/10 CA</b>  | 19,1 | 18   | 12,95 |
| <b>CX 10/12 CA</b> | 19,1 | 20,8 | 12,95 |

### CX 11/14 CA



### RDF2D and RDM2D



### RDF2D and RDM2D contacts

| conductor section mm <sup>2</sup> | conductor slot ø A (mm) | conductors stripping length B (mm) |
|-----------------------------------|-------------------------|------------------------------------|
| 0,14-0,37                         | 0,9                     | 8                                  |
| 0,5                               | 1,1                     | 8                                  |
| 0,75                              | 1,3                     | 8                                  |
| 1,0                               | 1,45                    | 8                                  |
| 1,5                               | 1,8                     | 8                                  |
| 2,5                               | 2,2                     | 6                                  |

The modular inserts must be installed in suitable frames which are then mounted in HNM enclosures.

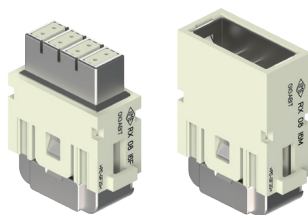
frames for modular units\*

page:  
55

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

- we recommend the use of CRF / CRM code pins together with relevant MIXO frame

modular units,  
crimp connections



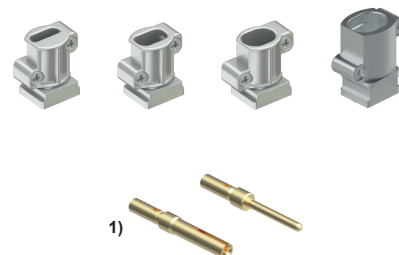
**Q 10.000 MATINGS WITH HNM FRAMES AND HNM ENCLOSURES**

**Q 5.000 MATINGS WITH HNM FRAMES AND STANDARD ENCLOSURES, SINGLE LEVER**

**FROM NOVEMBER 2020**

cable clamp

RI (5 A) crimp contacts, gold plated



**FROM MAY 2020 <sup>1)</sup>**

description

part No.

part No.

without contacts (to be ordered separately)

female insert for female contacts

male insert for male contacts

**RX 08 16F**

**RX 08 16M**

cable clamp for 5-7 mm cable diameter

cable clamp for 7-10 mm cable diameter

cable clamp for 10-12 mm cable diameter

cable clamp for 11-14 mm cable diameter

**CX 5/7 CA**

**CX 7/10 CA**

**CX 10/12 CA**

**CX 11/14 CA**

RI (5 A) female crimp contacts

0,08-0,21 mm<sup>2</sup> AWG 28-24

0,13-0,33 mm<sup>2</sup> AWG 26-22

0,33-0,52 mm<sup>2</sup> AWG 22-20

**RIFD 0.2**

**RIFD 0.3**

**RIFD 0.5**

RI (5 A) male crimp contacts

0,08-0,21 mm<sup>2</sup> AWG 28-24

0,13-0,33 mm<sup>2</sup> AWG 26-22

0,33-0,52 mm<sup>2</sup> AWG 22-20

**RIMD 0.2**

**RIMD 0.3**

**RIMD 0.5**

gold plated

- characteristics according to EN/IEC 61984 ratings:

**5 A 50 V 0,8 kV 3**

- UL, CSA, CQC, DNV-GL, BV pending

- rated voltage according to UL/CSA: 50 V

- insulation resistance:  $\geq 10$  G $\Omega$

- ambient temperature limit: -40 °C ... +85 °C

- suitable for bus signals, in particular for Ethernet

Cat. 6A (Gigabit)

- shield electrically separated from the PE of the housings

- made of self-extinguishing thermoplastic resin

UL 94V-0

- mechanical life:  $\geq 10.000$  cycles

- contact resistance:  $\leq 4$  m $\Omega$

- for crimp contacts RI series use:

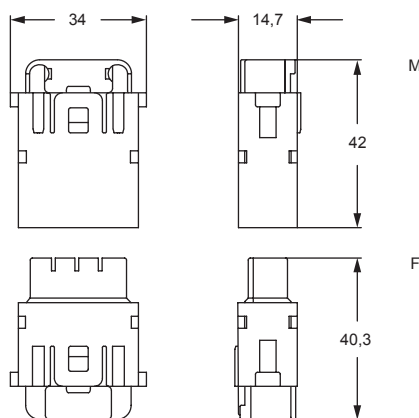
**CIPZ D** crimping tool

**CIPZP D** pneumatic crimping tool (see page 144)

**CITP D** turret head

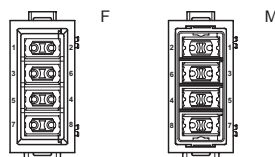
**CIES** insertion / removal tool for contacts 0,2 - 0,5 mm<sup>2</sup> (see pages 716 - 719 of CN.19 catalogue)

**RX 08 16F, RX 08 16M**



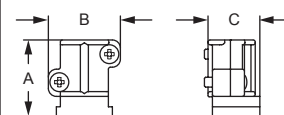
contacts side (front view)

side with reference arrow ▲

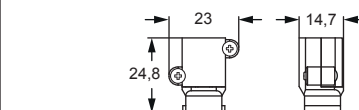


- 1 frame slot

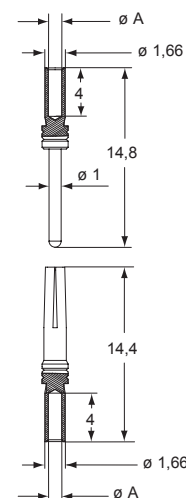
**CX 5/7 CA, CX 7/10 CA, CX 10/12 CA**



| part No.           | A    | B    | C     |
|--------------------|------|------|-------|
| <b>CX 5/7 CA</b>   | 19,1 | 18   | 12,95 |
| <b>CX 7/10 CA</b>  | 19,1 | 18   | 12,95 |
| <b>CX 10/12 CA</b> | 19,1 | 20,8 | 12,95 |



**RIF and RIM**



**RIF and RIM contacts**

| conductor section (mm <sup>2</sup> ) | conductor slot $\phi$ 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                                |

Megabit 8 poles + shield bonding connection 10 A - 50 V HNM (High Number of Matings)

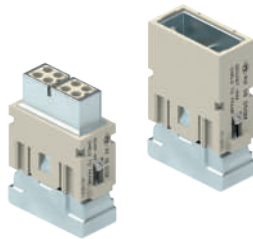
The modular inserts must be installed in suitable frames which are then mounted in HNM enclosures.

page:

frames for modular units

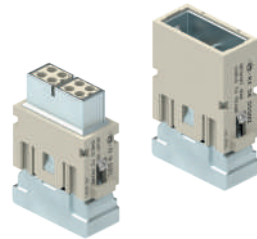
77

modular units,  
crimp connection  
single cable entry



Q 10 000 MATINGS WITH HNM FRAMES  
AND HNM ENCLOSURES

modular units,  
crimp connection  
double cable entry



Q 10 000 MATINGS WITH HNM FRAMES  
AND HNM ENCLOSURES

description

part No.

part No.

without contacts (to be ordered separately)  
female inserts for female contacts  
male inserts for male contacts

RX 08 D5GF  
RX 08 D5GM

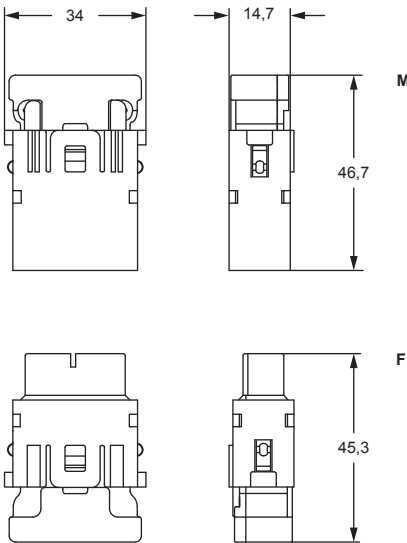
without contacts (to be ordered separately)  
female inserts for female contacts  
male inserts for male contacts

RX 08 D5GF2  
RX 08 D5GM2

- characteristics according to EN/IEC 61984 ratings:  
**10 A 50 V 0,8 kV 3**
- cUL (UL for USA and Canada), CSA, CQC, DNV-GL, BV pending
- rated voltage according to UL/CSA: 50 V
- insulation resistance:  $\geq 10\text{ G}\Omega$
- ambient temperature limit:  $-40\text{ }^{\circ}\text{C} \dots +85\text{ }^{\circ}\text{C}$
- fully shielded connector module for data transmission, Megabit Ethernet Category 5e (5 in the code), Class D, frequencies up to 100 MHz, data rate up to 100 Mbit/s
- made of self-extinguishing thermoplastic resin UL 94V-0
- shield made by zinc-alloy
- mechanical life:  $\geq 10.000$  cycles
- contact resistance:  $\leq 3\text{ m}\Omega$
- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 10 A contacts RDF2D, RDM2D series, pages 708 - 741 of CN.19 catalogue). For 10 A contacts RDF2D, RDM2D series, see also the new pneumatic crimping tool CCPZP RN (see NEWS 2020 page 145).

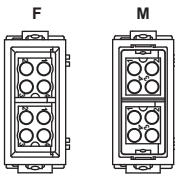
☑ we recommend the use of CRF / CRM coding pins together with relevant MIXO frame

RX 08 D5GF, RX 08 D5GM



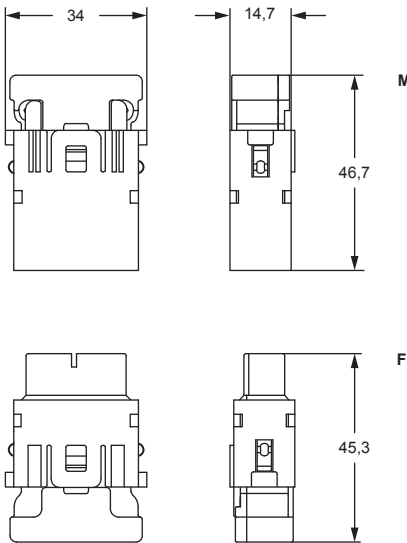
contacts side (front view)

side with reference arrow ▲



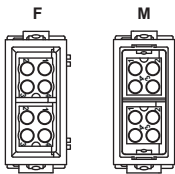
- 1 frame slot

RX 08 D5GF2, RX 08 D5GM2



contacts side (front view)

side with reference arrow ▲



- 1 frame slot

# CX...CA Cable clamp - HNM RD 2D 10 A Crimp contacts

cable clamp



RD 2D (10 A) crimp contacts  
gold plated



description

part No.

part No.

cable clamp for 5-7 mm cable diameter  
cable clamp for 7-10 mm cable diameter  
cable clamp for 10-12 mm cable diameter <sup>1)</sup>

**CX 5/7 CA**  
**CX 7/10 CA**  
**CX 10/12 CA**

10 A female contacts

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

**RDF2D 0.3**  
**RDF2D 0.5**  
**RDF2D 0.7**  
**RDF2D 1.0**  
**RDF2D 1.5**  
**RDF2D 2.5**

gold plated

10 A male contacts

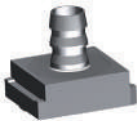
|                           |           |                      |
|---------------------------|-----------|----------------------|
| 0,14-0,37 mm <sup>2</sup> | AWG 26-22 | identification No. 1 |
| 0,5 mm <sup>2</sup>       | AWG 20    | identification No. 2 |
| 0,75 mm <sup>2</sup>      | AWG 18    |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

**RDM2D 0.3**  
**RDM2D 0.5**  
**RDM2D 0.7**  
**RDM2D 1.0**  
**RDM2D 1.5**  
**RDM2D 2.5**

<sup>1)</sup> only for single cable entry modules

☑ Upon request we can supply crimp flange and crimp sleeves of different diameters that must be chosen according to the specific cable shield and insulation diameter, please contact ILME Commercial Offices.

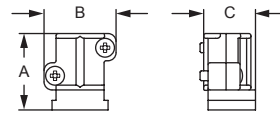
crimp  
flange



crimp  
sleeves

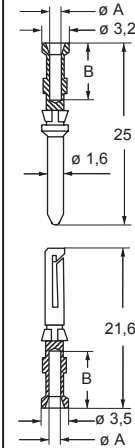


**CX 5/7 CA, CX 7/10 CA, CX 10/12 CA**



| part No.           | A    | B    | C     |
|--------------------|------|------|-------|
| <b>CX 5/7 CA</b>   | 19,1 | 18   | 12,95 |
| <b>CX 7/10 CA</b>  | 19,1 | 18   | 12,95 |
| <b>CX 10/12 CA</b> | 19,1 | 20,8 | 12,95 |

**RDF2D and RDM2D**



**RDF2D and RDM2D contacts**

| conductor<br>section<br>mm <sup>2</sup> | conductor<br>slot<br>ø A (mm) | conductors<br>stripping length<br>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                                        |

The modular inserts must be installed in suitable frames which are then mounted in HNM enclosures.

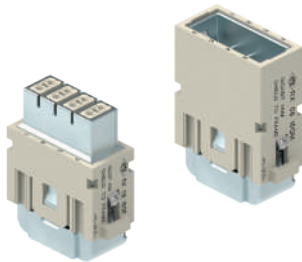
page:

frames for modular units\*

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

modular units,  
crimp connections



**Q 10 000 MATINGS WITH HNM FRAMES  
AND HNM ENCLOSURES**

cable clamp



description

part No.

part No.

without contacts (to be ordered separately)  
female inserts for female contacts  
male inserts for male contacts

**RX 08 I6GF**  
**RX 08 I6GM**

cable clamp for 5-7 mm cable diameter  
cable clamp for 7-10 mm cable diameter  
cable clamp for 10-12 mm cable diameter  
cable clamp for 11-14 mm cable diameter

**CX 5/7 CA**  
**CX 7/10 CA**  
**CX 10/12 CA**  
**CX 11/14 CA**

- characteristics according to EN/IEC 61984 ratings:  
**5 A 50 V 0,8 kV 3**
- UL, CSA, CQC, DNV-GL, BV pending
- rated voltage according to UL/CSA: 50 V
- insulation resistance:  $\geq 10 \text{ G}\Omega$
- ambient temperature limit:  $-40^\circ\text{C} \dots +85^\circ\text{C}$
- suitable for bus signals, in particular for Ethernet Cat. 6A (Gigabit)
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life:  $\geq 10.000$  cycles
- contact resistance:  $\leq 4 \text{ m}\Omega$
- for crimp contacts RI series use:  
**CIPZ D** crimping tool  
**CIPZP D** pneumatic crimping tool (see NEWS 2020 page 144)  
**CITP D** turret head  
**CIES** insertion / removal tool for contacts 0,2 - 0,5 mm<sup>2</sup> (see pages 716 - 719 of CN.19 catalogue)

- ☒ we recommend the use of CRF / CRM coding pins together with relevant MIXO frame
- ☒ Upon request we can supply crimp flange and crimp sleeves of different diameters that must be chosen according to the specific cable shield and insulation diameter, please contact ILME Commercial Offices.

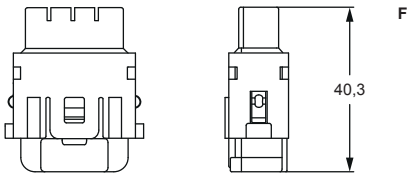
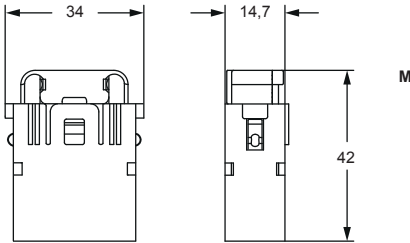
crimp  
flange



crimp  
sleeves

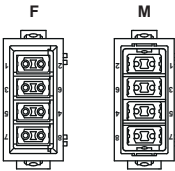


**RX 08 I6GF, RX 08 I6GM**



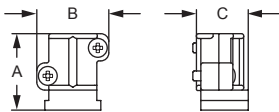
contacts side (front view)

side with reference arrow ▲



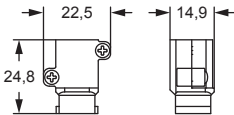
- 1 frame slot

**CX 5/7 CA, CX 7/10 CA, CX 10/12 CA**



| part No.           | A    | B    | C     |
|--------------------|------|------|-------|
| <b>CX 5/7 CA</b>   | 19,1 | 18   | 12,95 |
| <b>CX 7/10 CA</b>  | 19,1 | 18   | 12,95 |
| <b>CX 10/12 CA</b> | 19,1 | 20,8 | 12,95 |

**CX 11/14 CA**



# RI 5 A Crimp contacts

RI (5 A) crimp contacts  
gold plated



description

part No.

RI (5 A) female crimp contacts  
0,08-0,21 mm<sup>2</sup> AWG 28-24  
0,13-0,33 mm<sup>2</sup> AWG 26-22  
0,33-0,52 mm<sup>2</sup> AWG 22-20

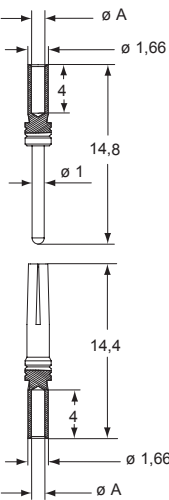
RIFD 0.2  
RIFD 0.3  
RIFD 0.5

gold plated

RI (5 A) male crimp contacts  
0,08-0,21 mm<sup>2</sup> AWG 28-24  
0,13-0,33 mm<sup>2</sup> AWG 26-22  
0,33-0,52 mm<sup>2</sup> AWG 22-20

RIMD 0.2  
RIMD 0.3  
RIMD 0.5

RIF and RIM



RIF and RIM contacts

| conductor<br>section<br>(mm <sup>2</sup> ) | conductor<br>slot<br>$\varnothing A$ (mm) | conductors<br>stripping length<br>(mm) |
|--------------------------------------------|-------------------------------------------|----------------------------------------|
| 0,08-0,21                                  | 0,64                                      | 4                                      |
| 0,13-0,33                                  | 0,90                                      | 4                                      |
| 0,33-0,52                                  | 1,12                                      | 4                                      |

Shielded 20 poles + shield connection 4 A - 32 V HNM (High Number of Matings)

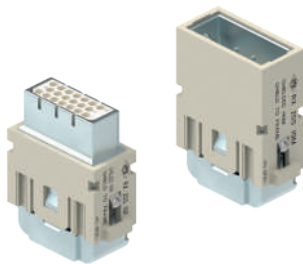
The modular inserts must be installed in suitable frames which are then mounted in HNM enclosures.

page:

frames for modular units\* 77

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

modular units,  
crimp connections



Q 10 000 MATINGS WITH HNM FRAMES  
AND HNM ENCLOSURES

cable clamp



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

without contacts (to be ordered separately)  
female inserts for female contacts  
male inserts for male contacts

RX 20S IGF  
RX 20S IGM

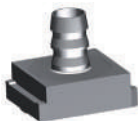
cable clamp for 5-7 mm cable diameter  
cable clamp for 7-10 mm cable diameter  
cable clamp for 10-12 mm cable diameter  
cable clamp for 11-14 mm cable diameter

CX 5/7 CA  
CX 7/10 CA  
CX 10/12 CA  
CX 11/14 CA

- characteristics according to EN/IEC 61984 ratings:  
**4 A 32 V 0,8 kV 3**
- UL, CSA, CQC, DNV-GL, BV pending
- rated voltage according to UL/CSA: 32 V
- insulation resistance:  $\geq 10\text{ G}\Omega$
- Lower and Upper Limiting Temperatures (LLT ... ULT):  
-40 °C ... +85 °C
- made of self-extinguishing thermoplastic resin  
UL 94V-0
- mechanical life:  $\geq 10.000$  cycles
- contact resistance:  $\leq 4\text{ m}\Omega$
- for crimp contacts RI series use:  
**CIPZ D** crimping tool  
**CIPZP D** pneumatic crimping tool (see NEWS 2020  
page 144)  
**CITP D** turret head  
(see pages 716 - 719 of CN.19 catalogue)
- for max. current load see the connector inserts derating  
diagrams **under construction**.

- ☑ we recommend the use of CRF / CRM coding pins  
together with relevant MIXO frame
- ☑ Upon request we can supply crimp flange and crimp  
sleeves of different diameters that must be chosen  
according to the specific cable shield and insulation  
diameter, please contact ILME Commercial Offices.

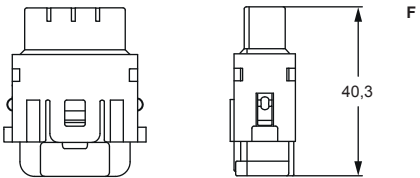
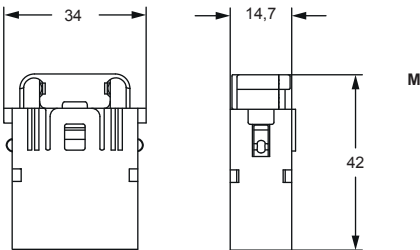
crimp  
flange



crimp  
sleeves

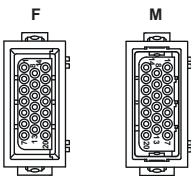


RX 20S IGF, RX 20S IGM



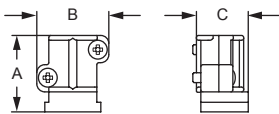
contacts side (front view)

side with reference arrow ▲



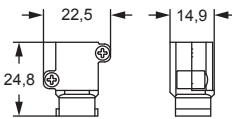
- 1 frame slot

CX 5/7 CA, CX 7/10 CA, CX 10/12 CA



| part No.    | A    | B    | C     |
|-------------|------|------|-------|
| CX 5/7 CA   | 19,1 | 18   | 12,95 |
| CX 7/10 CA  | 19,1 | 18   | 12,95 |
| CX 10/12 CA | 19,1 | 20,8 | 12,95 |

CX 11/14 CA



# RI 4 A Crimp contacts

RI (4 A) crimp contacts  
gold plated



description

part No.

RI (4 A) female crimp contacts  
0,08-0,21 mm<sup>2</sup> AWG 28-24  
0,13-0,33 mm<sup>2</sup> AWG 26-22  
0,33-0,52 mm<sup>2</sup> AWG 22-20

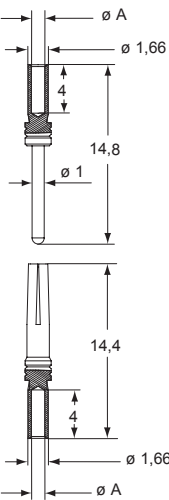
RIFD 0.2  
RIFD 0.3  
RIFD 0.5

gold plated

RI (4 A) male crimp contacts  
0,08-0,21 mm<sup>2</sup> AWG 28-24  
0,13-0,33 mm<sup>2</sup> AWG 26-22  
0,33-0,52 mm<sup>2</sup> AWG 22-20

RIMD 0.2  
RIMD 0.3  
RIMD 0.5

RIF and RIM



RIF and RIM contacts

| conductor<br>section<br>(mm <sup>2</sup> ) | conductor<br>slot<br>$\varnothing A$ (mm) | conductors<br>stripping length<br>(mm) |
|--------------------------------------------|-------------------------------------------|----------------------------------------|
| 0,08-0,21                                  | 0,64                                      | 4                                      |
| 0,13-0,33                                  | 0,90                                      | 4                                      |
| 0,33-0,52                                  | 1,12                                      | 4                                      |