# HNM series

## In and out

**Housings** (bulkhead-mount or surface mount) equipped with **V-TYPE single locking lever** with special **anti-friction treatment**

*to be mated to*

**Hoods** with **riveted anti-friction pegs**, that facilitate the frequent opening and closing.

This **HNM** series of connector enclosures has been developed to be used in combination with the **HNM** series of multipole connector inserts equipped with relevant **HNM** series of removable crimp contacts, to provide the same reliable protection of the standard series but for a consistently extended, **high number of matings.**

When the number of 500 mating cycles guaranteed life of standard connector hoods and housings is insufficient to provide a reasonably long life span in those connector applications that by function are foreseen to be subject to very frequent connections and disconnections, it is necessary to opt for a solution able to increase that guaranteed lifetime.

The **HNM** series of connector enclosures achieves this goal, extending the guaranteed number of matings up to 10.000.
The locking means, comprising both the locking lever and locking pegs are chosen and treated so as to reduce wear due to friction at minimum, thanks to the use of the clever proprietary design of the **V-TYPE locking lever**, that already in standard enclosures is able to provide extremely reduced wear on the corresponding locking pegs, producing a very limited friction, furtherly reduced by the application of a special anti-friction lubrication treatment.

The counterpart hoods for locking on the long side are already provided by riveted anti-friction rolling pegs, as well furtherly improved by the special anti-friction lubrication treatment.

# RV - RVA HNM (High Number of Matings)

| inserts | | page: |
|---|---|---|
| **RDD** | 24 poles + ⏚ | **210** |
| **RCE** | 6 poles + ⏚ | **214** |
| **MIXO HNM** | 2 modules | **321 - 333** |

**bulkhead mounting housings with single lever in stainless steel**

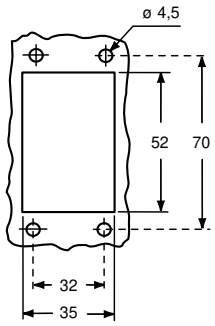
**10.000 MATINGS WITH HNM INSERTS**

**surface mounting housings with single lever in stainless steel**

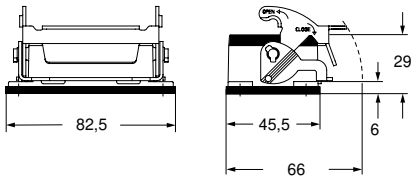
**10.000 MATINGS WITH HNM INSERTS**

| description | part No. | part No. | entry M |
|---|---|---|---|
| with lever and gasket, size “44.27” | **RVI 06 L** | | |
| with lever, size “44.27” | | **RVP 06 L20** | 20 |
| with lever, size “44.27” | | **RVP 06 L220** | 20 x 2 |
| with lever, high construction, size “44.27” | | **RVAP 06 L32** | 32 |
| with lever, high construction, size “44.27” | | **RVAP 06 L232** | 32 x 2 |

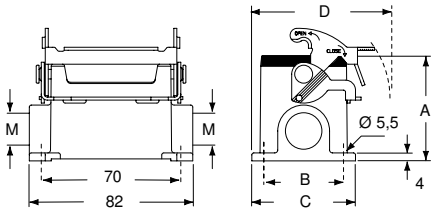
panel cut-out for bulkhead mounting housings




**RVI L**




**RVP L - RVAP L**




| type | A | B | C | D |
|---|---|---|---|---|
| **RVP 06 L** | 53 | 40 | 52 | 70 |
| **RVAP 06 L** | 74 | 45 | 57 | 72,5 |

Type 4/4X/12

IP65 insulating cable gland or fittings without gasket

IP66 IP67 IP69 cable gland with O-Ring gasket

# RH - RF HNM (High Number of Matings)

| inserts | | page: |
|---|---|---|
| **RDD** | 24 poles + ⏚ | **210** |
| **RCE** | 6 poles + ⏚ | **214** |
| **MIXO HNM** | 2 modules | **321 - 333** |

**hoods with 2 pegs**

**10.000 MATINGS WITH HNM INSERTS**

**hoods with 2 pegs**

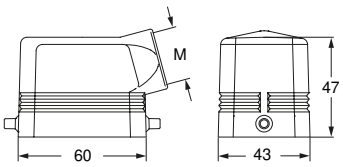
**10.000 MATINGS WITH HNM INSERTS**

| description | part No. | entry M | part No. | entry M |
|---|---|---|---|---|
| with pegs, side entry | **RHO 06 L25** | 25 | | |
| with pegs, top entry [1] | **RHV 06 L25** | 25 | | |
| with pegs, side entry, high construction, without adapter [2] | | | **RFO 06 L32** | 32 |
| with pegs, top entry, high construction, without adapter [2] | | | **RFV 06 L32** | 32 |

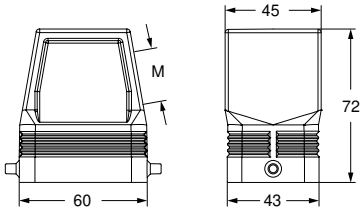
[1] cannot be used with MIXO series.

[2] enclosure without adapter, threaded on the body, to be used only with a complete cable gland.

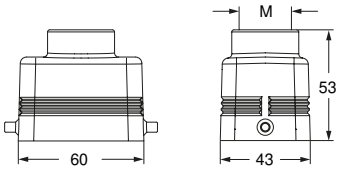
**RHO L**



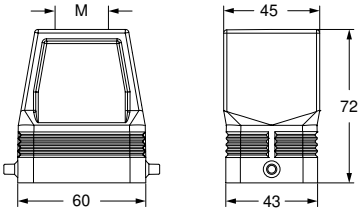

**RFO L**




**RHV L**




**RFV L**




Type 4/4X/12

insulating cable gland or fittings without gasket

cable gland with O-Ring gasket

# RV - RVA HNM (High Number of Matings)

| inserts | | page: |
|---|---|---|
| **RDD** | 42 poles + ⏚ | **211** |
| **RCE** | 10 poles + ⏚ | **215** |
| **MIXO HNM** | 3 modules | **321 - 333** |

**bulkhead mounting housings with single lever in stainless steel**

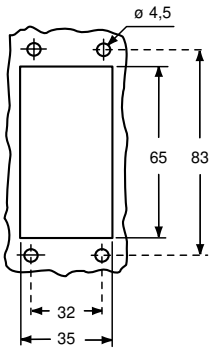
**10.000 MATINGS WITH HNM INSERTS**

**surface mounting housings with single lever in stainless steel**

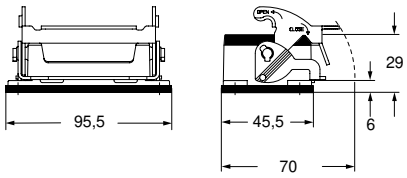
**10.000 MATINGS WITH HNM INSERTS**

| description | part No. | part No. | entry M |
|---|---|---|---|
| with lever, size “57.27” | **RVI 10 L** | | |
| with lever, size “57.27” | | **RVP 10 L20** | 20 |
| with lever, size “57.27” | | **RVP 10 L220** | 20 x 2 |
| with lever, high construction, size “57.27” | | **RVAP 10 L32** | 32 |
| with lever, high construction, size “57.27” | | **RVAP 10 L232** | 32 x 2 |

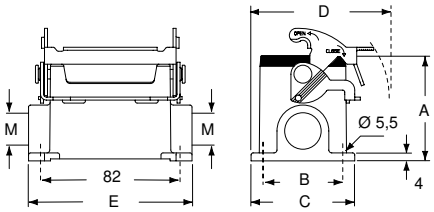
panel cut-out for bulkhead mounting housings




**RVI L**




**RVP L - RVAP L**




| type | A | B | C | D | E |
|---|---|---|---|---|---|
| **RVP 10 L** | 57 | 40 | 52 | 73 | 93,5 |
| **RVAP 10 L** | 74 | 45 | 57 | 75,5 | 94 |

HNM

c UL us Type 4/4X/12

EN 60529 IP65 IEC 60529 insulating cable gland or fittings without gasket

EN 60529 IP66 IP67 IP69 IEC 60529 cable gland with O-Ring gasket

# RH - RF HNM (High Number of Matings)

| inserts | | page: |
|---|---|---|
| **RDD** | 42 poles + ⏚ | **211** |
| **RCE** | 10 poles + ⏚ | **215** |
| **MIXO HNM** | 3 modules | **321 - 333** |

**hoods with 2 pegs**

**10.000 MATINGS WITH HNM INSERTS**

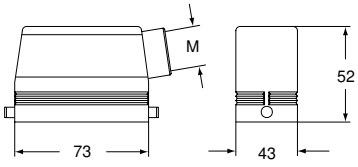
**hoods with 2 pegs**

**10.000 MATINGS WITH HNM INSERTS**

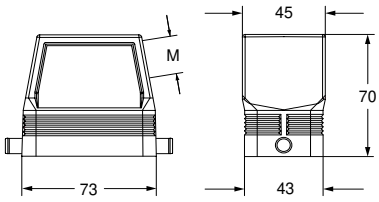
| description | part No. | entry M | part No. | entry M |
|---|---|---|---|---|
| with pegs, side entry | **RHO 10 L25** | 25 | | |
| with pegs, top entry | **RHV 10 L25** | 25 | | |
| with pegs, side entry, high construction, without adapter [1] | | | **RFO 10 L32** | 32 |
| with pegs, top entry, high construction, without adapter [1] | | | **RFV 10 L32** | 32 |

[1] enclosure without adapter, threaded on the body, to be used only with a complete cable gland.

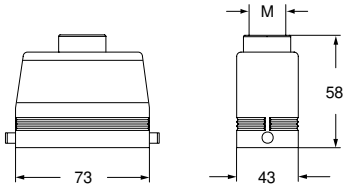
**RHO L**



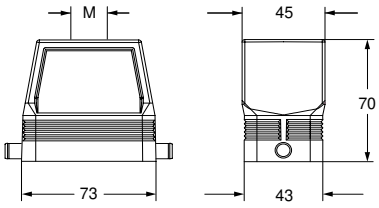

**RFO L**




**RHV L**




**RFV L**




Type 4/4X/12

insulating cable gland or fittings without gasket

cable gland with O-Ring gasket

# RV - RVA HNM (High Number of Matings)

| inserts | | page: |
|---|---|---|
| **RD** | 40 poles + ⏚ | **208** |
| **RDD** | 72 poles + ⏚ | **212** |
| **RCE** | 16 poles + ⏚ | **216** |
| **RQEE** | 40 poles + ⏚ | **218** |
| **RX** | 12 poles + 2 poles + ⏚ | **221** |
| **MIXO HNM** | 4 modules | **321 - 333** |

**bulkhead mounting housings with single lever in stainless steel**

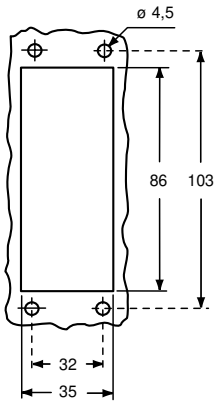
**10.000 MATINGS WITH HNM INSERTS**

**surface mounting housings with single lever in stainless steel**

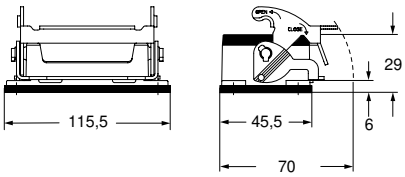
**10.000 MATINGS WITH HNM INSERTS**

| description | part No. | part No. | entry M |
|---|---|---|---|
| with lever, size “77.27” | **RVI 16 L** | | |
| with lever, size “77.27” | | **RVP 16 L25** | 25 |
| with lever, size “77.27” | | **RVP 16 L225** | 25 x 2 |
| with lever, high construction, size “77.27” | | **RVAP 16 L32** | 32 |
| with lever, high construction, size “77.27” | | **RVAP 16 L232** | 32 x 2 |

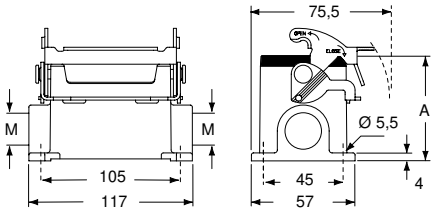
panel cut-out for bulkhead mounting housings




**RVI L**




**RVP L - RVAP L**




| type | **A** |
|---|---|
| **RVP 16 L** | 63 |
| **RVAP 16 L** | 81 |

Type 4/4X/12

insulating cable gland or fittings without gasket

cable gland with O-Ring gasket

# RH - RF HNM (High Number of Matings)

| inserts | | page: |
|---|---|---|
| **RD** | 40 poles + ⏚ | **208** |
| **RDD** | 72 poles + ⏚ | **212** |
| **RCE** | 16 poles + ⏚ | **216** |
| **RQEE** | 40 poles + ⏚ | **218** |
| **RX** | 12 poles + 2 poles + ⏚ | **221** |
| **MIXO HNM** | 4 modules | **321 - 333** |

**hoods with 2 pegs**

**10.000 MATINGS WITH HNM INSERTS**

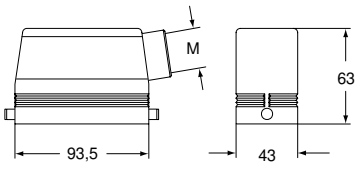
**hoods with 2 pegs**

**10.000 MATINGS WITH HNM INSERTS**

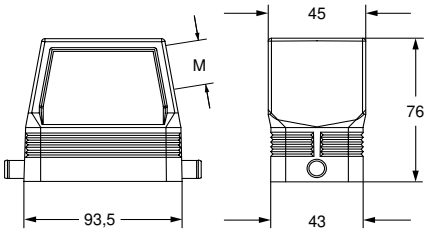
| description | part No. | entry M | part No. | entry M |
|---|---|---|---|---|
| with pegs, side entry | **RHO 16 L32** | 32 | | |
| with pegs, top entry | **RHV 16 L32** | 32 | | |
| with pegs, side entry, high construction, without adapter [1] | | | **RFO 16 L32** | 32 |
| with pegs, top entry, high construction, without adapter [1] | | | **RFV 16 L32** | 32 |

[1] enclosure without adapter, threaded on the body, to be used only with a complete cable gland.

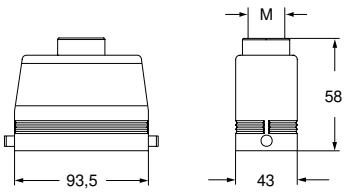
**RHO L**



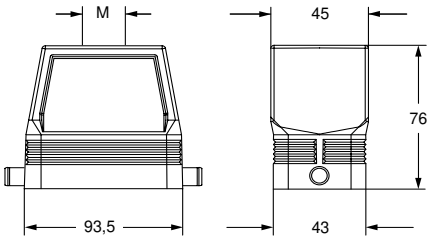

**RFO L**




**RHV L**




**RFV L**




HNM

Type 4/4X/12

insulating cable gland or fittings without gasket

cable gland with O-Ring gasket

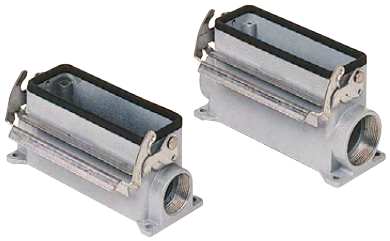
# RV - RVA HNM (High Number of Matings)

| inserts | | page: |
|---|---|---|
| **RD** | 64 poles + ⏚ | **209** |
| **RDD** | 108 poles + ⏚ | **213** |
| **RCE** | 24 poles + ⏚ | **217** |
| **RQEE** | 64 poles + ⏚ | **219** |
| **MIXO HNM** | 6 modules | **321 - 333** |

**bulkhead mounting housings with single lever in stainless steel**

**10.000 MATINGS WITH HNM INSERTS**

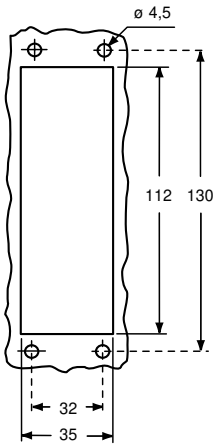
**surface mounting housings with single lever in stainless steel**



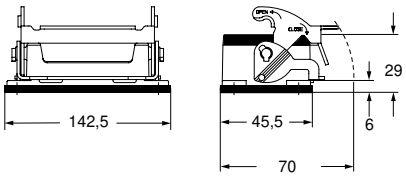
**10.000 MATINGS WITH HNM INSERTS**

| description | part No. | part No. | entry M |
|---|---|---|---|
| with lever, size “104.27” | **RVI 24 L** | | |
| with lever, size “104.27” | | **RVP 24 L25** | 25 |
| with lever, size “104.27” | | **RVP 24 L225** | 25 x 2 |
| with lever, high construction, size “104.27” | | **RVAP 24 L32** | 32 |
| with lever, high construction, size “104.27” | | **RVAP 24 L232** | 32 x 2 |

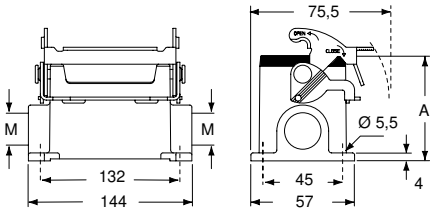
panel cut-out for bulkhead mounting housings




**RVI L**




**RVP L - RVAP L**




| type | **A** |
|---|---|
| **RVP 24 L** | 63 |
| **RVAP 24 L** | 81 |

Type 4/4X/12

insulating cable gland or fittings without gasket

cable gland with O-Ring gasket

# RH - RF HNM (High Number of Matings)

| inserts | | page: |
|---|---|---|
| **RD** | 64 poles + ⏚ | **209** |
| **RDD** | 108 poles + ⏚ | **213** |
| **RCE** | 24 poles + ⏚ | **217** |
| **RQEE** | 64 poles + ⏚ | **219** |
| **MIXO HNM** | 6 modules | **321 - 333** |

**hoods with 2 pegs**

**10.000 MATINGS WITH HNM INSERTS**

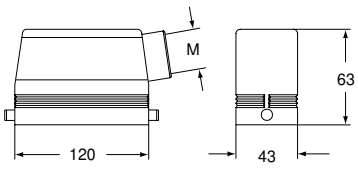
**hoods with 2 pegs**

**10.000 MATINGS WITH HNM INSERTS**

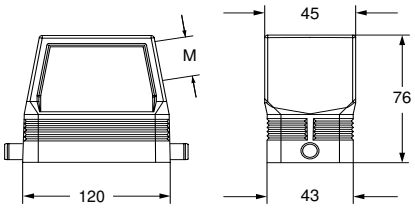
| description | part No. | entry M | part No. | entry M |
|---|---|---|---|---|
| with pegs, side entry | **RHO 24 L32** | 32 | | |
| with pegs, top entry | **RHV 24 L32** | 32 | | |
| with pegs, side entry, high construction, without adapter [1] | | | **RFO 24 L40** | 40 |
| with pegs, top entry, high construction, without adapter [1] | | | **RFV 24 L40** | 40 |

[1] enclosure without adapter, threaded on the body, to be used only with a complete cable gland.

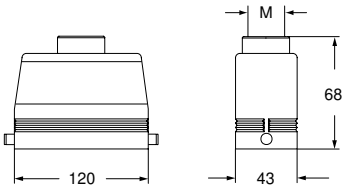
**RHO L**



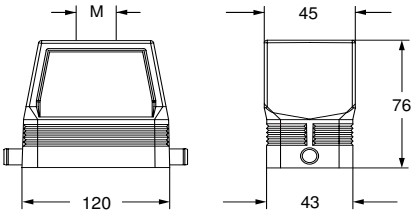

**RFO L**




**RHV L**




**RFV L**




Type 4/4X/12

IP65 insulating cable gland or fittings without gasket

IP66 IP69 cable gland with O-Ring gasket

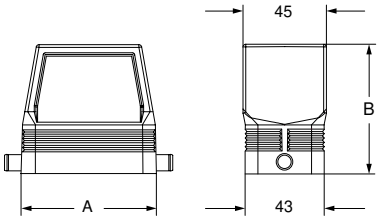
# RAC dummy hoods HNM (High Number of Matings)

| enclosures | page: |
|---|---|
| size “44.27” | 592 - 593 |
| size “57.27” | 594 - 595 |
| size “77.27” | 596 - 597 |
| size “104.27” | 598 - 599 |

**hoods without entry, to be pierced**

**10.000 MATINGS WITH HNM INSERTS**

| description | part No. with 2 pegs |
|---|---|
| with pegs for levers | |
| used with enclosures size “44.27” | **RAC 06 L** |
| used with enclosures size “57.27” | **RAC 10 L** |
| used with enclosures size “77.27” | **RAC 16 L** |
| used with enclosures size “104.27” | **RAC 24 L** |




| part No. | A | B |
|---|---|---|
| **RAC 06 L** | 60 | 72 |
| **RAC 10 L** | 73 | 70 |
| **RAC 16 L** | 93,5 | 76 |
| **RAC 24 L** | 120 | 76 |

HNM

Type 4/4X/12

IP65 insulating cable gland or fittings without gasket

IP66 IP69 cable gland with O-Ring gasket

**CAUTION:** As the frames are floating, **the PE earthing connection of the metal surfaces on which they are mounted** (mounting bases) **must be performed separately** and cannot be done by connecting the PE earthing contact to the corresponding connector inserts.

**NOTE:** The supply includes 1 frame and 4 shoulder screws with cylindrical head and notch to fix the frame in place.

For use with MIXO inserts CX 04 X, please contact ILME S.p.A.

**self-centring floating frame**

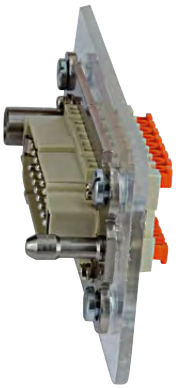
**10.000 MATINGS WITH HNM INSERTS**

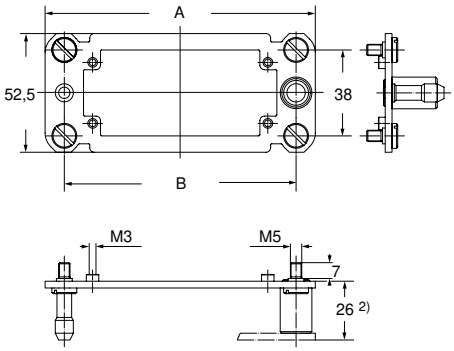
| description | part No. |
|---|---|
| in stainless steel, to be mounted on: | |
| inserts size “44.27” 1) and MIXO frames for 2 inserts | **CR 06 DF** |
| inserts size “57.27” 1) and MIXO frames for 3 inserts | **CR 10 DF** |
| inserts size “77.27” 1) and MIXO frames for 4 inserts | **CR 16 DF** |
| inserts size “104.27” 1) and MIXO frames for 6 inserts | **CR 24 DF** |

1) Except CT, CTS and CTSE

**Technical specifications**
- materials:
  - floating frame, inserts: stainless steel
  - fixing screws: zinc-plated steel
- mechanical endurance: up to 10.000 cycles with HNM inserts
- compensation range:
  - x axis: ± 1,5 mm
  - y axis: ± 1,5 mm

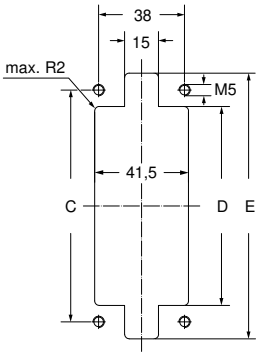
**Characteristics**
- Suitable, depending on size, for all standard and MIXO connector inserts and frames, except series CT, CTS and CTSE.
- Designed to be used in the transportation, printing and power electronic industries (for example boxes for rack cabinets) and in all industrial applications that require, during assembly or maintenance, the connection of connectors without possibility of controlling the alignment.
- Enables the **self-centring coupling of two corresponding** connectors without the use of enclosures; they freely move on their base plate (± 1,5 mm on both axes) ensuring the **alignment of the coupling**.






2) distance for electric and fibre optic contacts: max 27 mm;
distance for pneumatic contacts: max 26,5 mm.

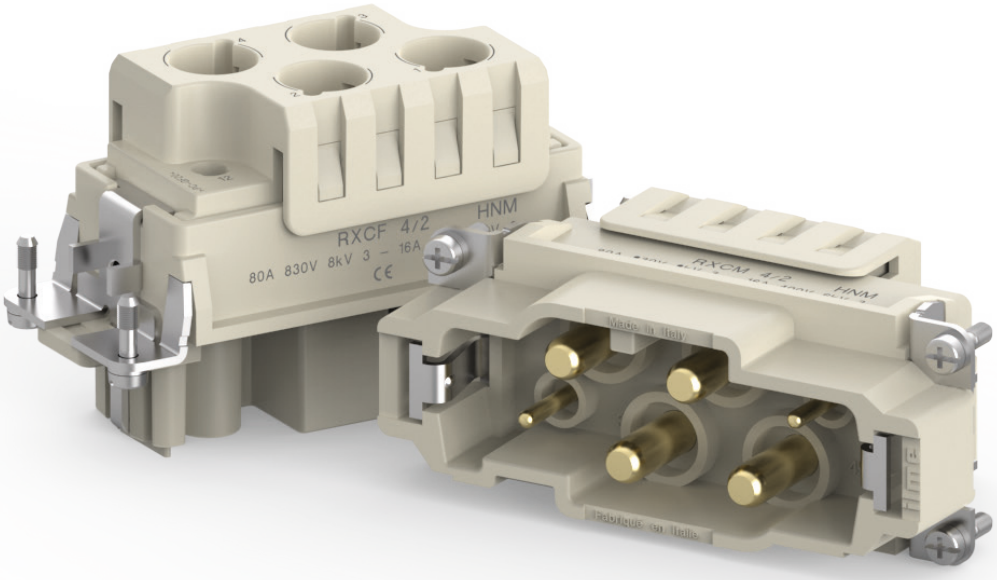
panel cut-out




| part No. | A | B | C | D | E |
|---|---|---|---|---|---|
| **CR 06 DF** | 86 | 69 | 69 | 54,5 | 84 |
| **CR 10 DF** | 99 | 82 | 82 | 67,5 | 97 |
| **CR 16 DF** | 119,5 | 102,5 | 102,5 | 88 | 117,5 |
| **CR 24 DF** | 146 | 129 | 129 | 114,5 | 144 |

# RXC SERIES
# COMBINED CRIMP CONNECTOR

## HNM VERSION




**RXCF /M 4/2 Combined power/auxiliaries crimp connector**

**(HNM version of CXC)**

**4 P + ⏚:** 80 A 830 V 8 kV 3

**2 P + ⏚:** 16 A 400 V 6 kV 3

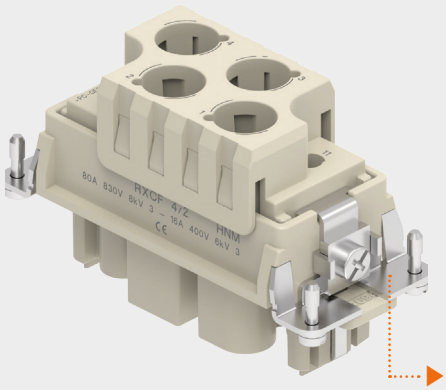
Find out more
www.ilme.com

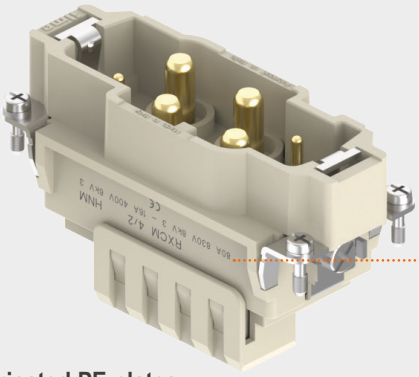
# TECHNICAL FEATURES

The new combined connectors **RXC 4/2** are the **HNM version** of the recently introduced CXC 4/2 inserts with 4× 80 A power crimp contact seats and 2× 16 A auxiliary crimp contact seats.

- Thanks to the **HNM treatment** (PE plates lubrication and RX7..2D and RC..2D HNM series crimp contacts with special gold plating, rated current 80 A and 16 A respectively), the mechanical life, when used in combination with dedicated HNM enclosures, extends from 500 to **10 000 mating cycles** ensuring optimal performance.
- The connectors are ideal for **applications** requiring frequent **disconnection** use: test benches, charging systems, and removable tooling equipment.

**To be used with HNM crimp contacts series RX7 (70 A / 80 A) and RC (16 A) in HNM enclosures, for up to 10 000 matings**





**Laser-marked article part number and HNM indication**

**Lubricated PE plates for HNM purposes**

**HNM crimp contacts RX7 and RC series are separately available**

# RXCF /M 4/2 4 poles (80 A - 830 V) + 2 poles (16 A - 400 V) + ⏚ HNM (High Number of Matings)

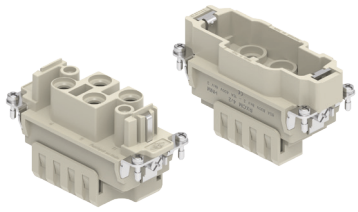
**enclosures:**
**size "77.27"** **page:**

**HNM** **596 - 597**

**Enclosures: bulkhead mounting housings, high construction housings or high construction hoods**

**refer to CN.19 pages**

**HNM inserts, crimp connections**



**10 000 MATINGS WITH HNM ENCLOSURES**

**RATING 830V**

**FROM MARCH 2022**

**80 A HNM crimp contacts gold plated**

**FROM MARCH 2022**

| description | part No. | part No. |
|---|---|---|
| without contacts (to be ordered separately) | | |
| female insert for female contacts | **RXCF 4/2** | |
| male insert for male contacts | **RXCM 4/2** | |
| 80 A female crimp contacts | | |
| 6 mm² (Class 5) AWG 10 | | **RX7F2D 6.0** |
| 10 mm² (Class 5) AWG 8 - 7 | | **RX7F2D 10** |
| 16 mm² (Class 5) AWG 6 - 5 | | **RX7F2D 16** |
| 16 mm² (Class 6) AWG 6 - 5 | | **RX7F2D 16 XF** |
| 25 mm² (Class 5) AWG 4 - 3 | | **RX7F2D 25** |
| 80 A male crimp contacts | | |
| 6 mm² (Class 5) AWG 10 | | **RX7M2D 6.0** |
| 10 mm² (Class 5) AWG 8 - 7 | | **RX7M2D 10** |
| 16 mm² (Class 5) AWG 6 - 5 | | **RX7M2D 16** |
| 16 mm² (Class 6) AWG 6 - 5 | | **RX7M2D 16 XF** |
| 25 mm² (Class 5) AWG 4 - 3 | | **RX7M2D 25** |

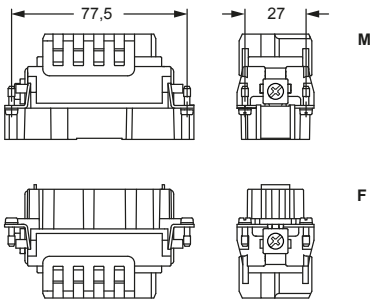
gold plated

- characteristics according to EN/IEC 61984 ratings:
  **80 A 830 V 8 kV 3**
  **16 A 400 V 6 kV 3**
- cURus, CSA, CQC, DNV-GL, BV, EAC pending
- rated voltage according to UL/CSA: 600 V
- insulation resistance: ≥ 10 GΩ
- Lower and Upper Limiting Temperatures (LLT … ULT): -40 °C ... +125 °C
- made by UL 94V-0 glass reinforced polycarbonate, EN 45545-2:2015 compliant
- mechanical life: ≥ 10.000 cycles
- contact resistance: ≤ 0,3 mΩ (4 power poles)
  ≤ 1 mΩ (2 auxiliary poles)

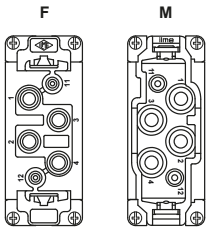
- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 70 A contacts RX7F2D and RX7M2D series and 16 A contacts RCF2D, RCM2D series, on pages 708 - 741 of CN.19 catalogue)

- for max. current load see the connector inserts derating diagrams below; for more information see page 28 of CN.19 catalogue

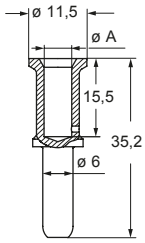
**RXC 4/2**

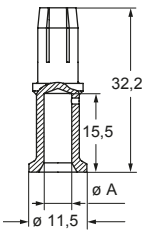



contacts side (front view)




**RX7F2D, RX7M2D and RX7F2D 16 XF, RX7M2D 16 XF**

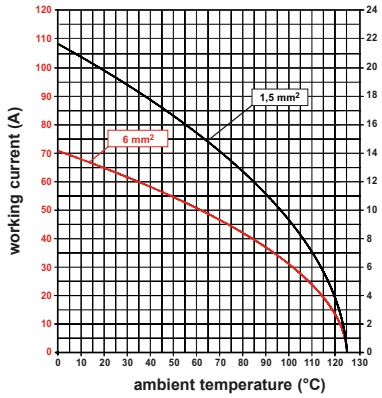


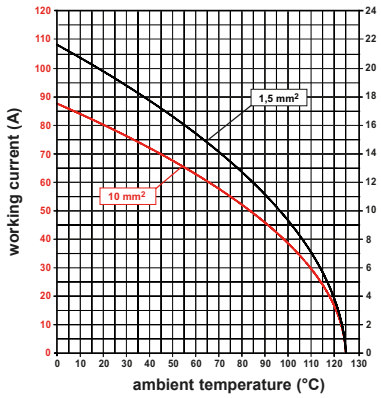



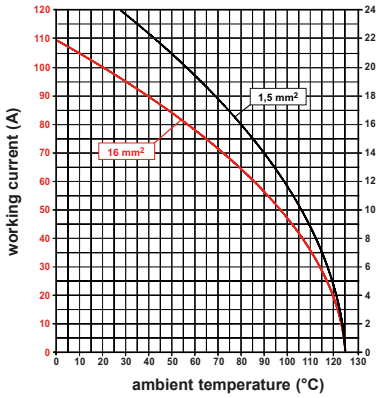

**RX7F2D and RX7M2D contacts**

| conductor section (mm²) | conductor slot ø A (mm) | conductor stripping length (mm) |
|---|---|---|
| 6 | 3,5 | 15 |
| 10 | 4,3 | 15 |
| 16 | 5,5 | 15 |
| 16 (XF) | 6,1 | 15 |
| 25 | 7,0 | 15 |

**RXC 4/2 poles connector inserts**
**Maximum current load derating diagram**



**16 A HNM crimp contacts gold plated**

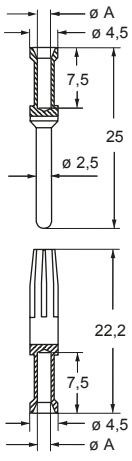
**removal tools**

| description | | | part No. |
|---|---|---|---|
| 16 A female contacts, HNM gold plated | | | |
| 0,14-0,37 mm² | AWG 26-22 | one groove | **RCF2D 0.3** |
| 0,5 mm² | AWG 20 | with no grooves | **RCF2D 0.5** |
| 0,75 mm² | AWG 18 | one groove (back side) | **RCF2D 0.7** |
| 1 mm² | AWG 18 | one groove | **RCF2D 1.0** |
| 1,5 mm² | AWG 16 | two grooves | **RCF2D 1.5** |
| 2,5 mm² | AWG 14 | three grooves | **RCF2D 2.5** |
| 3 mm² | AWG 12 | one wide groove | **RCF2D 3.0** |
| 4 mm² | AWG 12 | with no grooves | **RCF2D 4.0** |
| 16 A male contacts, HNM gold plated | | | |
| 0,14-0,37 mm² | AWG 26-22 | one groove | **RCM2D 0.3** |
| 0,5 mm² | AWG 20 | with no grooves | **RCM2D 0.5** |
| 0,75 mm² | AWG 18 | one groove (back side) | **RCM2D 0.7** |
| 1 mm² | AWG 18 | one groove | **RCM2D 1.0** |
| 1,5 mm² | AWG 16 | two grooves | **RCM2D 1.5** |
| 2,5 mm² | AWG 14 | three grooves | **RCM2D 2.5** |
| 3 mm² | AWG 12 | one wide groove | **RCM2D 3.0** |
| 4 mm² | AWG 12 | with no grooves | **RCM2D 4.0** |

gold plated

| | |
|---|---|
| removal tools<br>for **RX7F2D** and **RX7M2D** series contacts<br>for **RCF2D** and **RCM2D** series contacts | **CX7ES**<br>**CQES** |

**RCF2D and RCM2D**

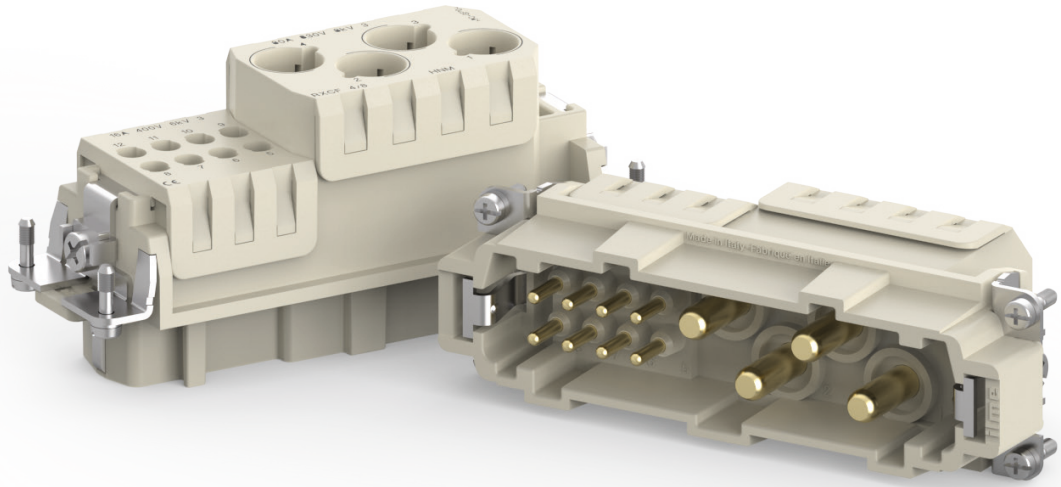



**RCF2D and RCM2D contacts**

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

# RXC SERIES
# COMBINED CRIMP CONNECTOR

## HNM VERSION



**RXCF /M 4/8 Combined power/auxiliaries**

**crimp connector**

**(HNM version of CXC)**

**4 P + ⏚:** 80 A 400 V 6 kV 3

**8 P + ⏚:** 16 A 230/400 V 4 kV 3

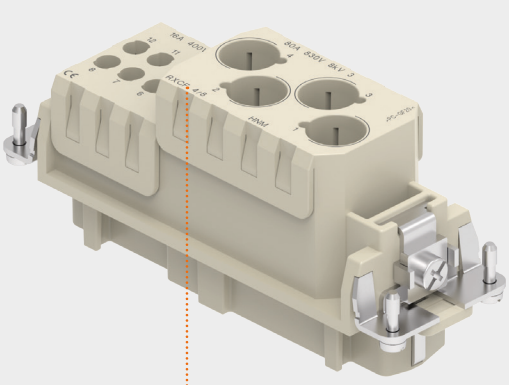
Find out more
www.ilme.com

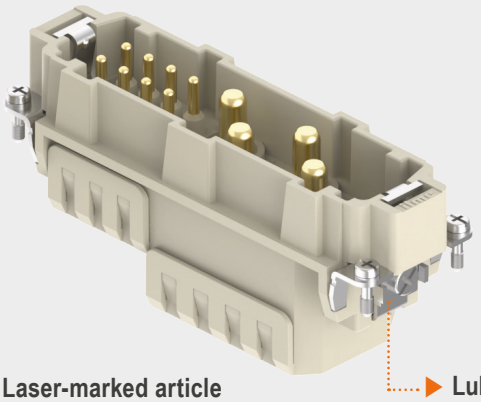
# TECHNICAL FEATURES

The new combined crimp connectors **RXC 4/8** are the **HNM version** of the recently introduced CXC 4/8 inserts with 4× 80 A power crimp contact seats and 8× 16 A auxiliary crimp contact seats.

- Thanks to the **HNM treatment** (PE plates lubrication and RX7..2D and RC..2D HNM series crimp contacts with special gold plating, rated current 80 A and 16 A respectively), the mechanical life, when used in combination with dedicated HNM enclosures, extends from 500 to **10 000 mating cycles** ensuring optimal performance.
- The connectors are ideal for **applications** requiring frequent **disconnection** use: test benches, charging systems, and removable tooling equipment.

**To be used with HNM crimp contacts series RX7 (70 A / 80 A) and RC (16 A) in HNM enclosures, for up to 10 000 matings**





**Laser-marked article part number and HNM indication**

**Lubricated PE plates for HNM purposes**

**HNM crimp contacts RX7 and RC series are separately available**

# CXCF /M 4/8 4 poles (80 A - 400 V) + 8 poles (16 A - 230/400 V) + ⏚ HNM (High Number of Matings)

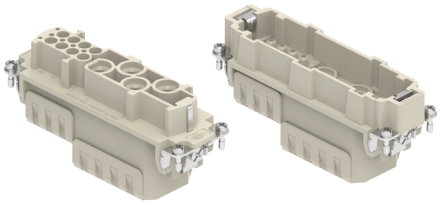
**enclosures:**
**size "104.27"** **page:**

**HNM** **598 - 599**

**Enclosures: bulkhead mounting housings, high construction housings or high construction hoods**

**refer to CN.19 pages**

**HNM inserts, crimp connections**



**10 000 MATINGS WITH HNM ENCLOSURES**

**RATING 830V**

**FROM MARCH 2022**

**80 A HNM crimp contacts gold plated**

**FROM MARCH 2022**

| description | part No. | part No. |
|---|---|---|
| without contacts (to be ordered separately) | | |
| female inserts for female contacts | **RXCF 4/8** | |
| male inserts for male contacts | **RXCM 4/8** | |
| 80 A female crimp contacts | | |
| 6 mm² (Class 5) AWG 10 | | **RX7F2D 6.0** |
| 10 mm² (Class 5) AWG 8 - 7 | | **RX7F2D 10** |
| 16 mm² (Class 5) AWG 6 - 5 | | **RX7F2D 16** |
| 16 mm² (Class 6) AWG 6 - 5 | | **RX7F2D 16 XF** |
| 25 mm² (Class 5) AWG 4 - 3 | | **RX7F2D 25** |
| 80 A male crimp contacts | | |
| 6 mm² (Class 5) AWG 10 | | **RX7M2D 6.0** |
| 10 mm² (Class 5) AWG 8 - 7 | | **RX7M2D 10** |
| 16 mm² (Class 5) AWG 6 - 5 | | **RX7M2D 16** |
| 16 mm² (Class 6) AWG 6 - 5 | | **RX7M2D 16 XF** |
| 25 mm² (Class 5) AWG 4 - 3 | | **RX7M2D 25** |

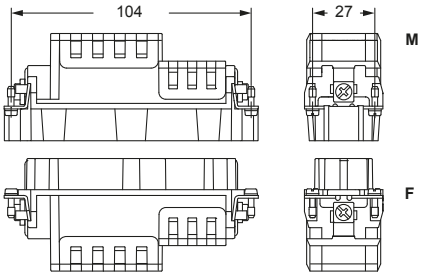
**gold plated**

- characteristics according to EN/IEC 61984 ratings:
  **80 A 400 V 6 kV 3**
  **16 A 230/400 V 4 kV 3**
- cURus, CSA, CQC, DNV-GL, BV, EAC pending
- rated voltage according to UL/CSA: 600 V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made by UL 94V-0 glass reinforced polycarbonate, EN 45545-2:2015 compliant
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 0,3 mΩ (4 power poles)
  ≤ 1 mΩ (8 auxiliary poles)

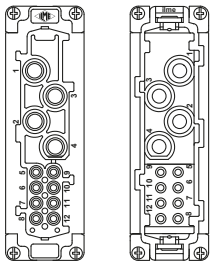
- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 70 A contacts RX7F2D and RX7M2D series and 16 A contacts RCF2D, RCM2D series, on pages 708 - 741 of CN.19 catalogue)

- for max. current load see the connector inserts derating diagrams below; for more information see page 28 of CN.19 catalogue

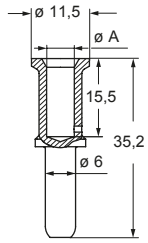
**RXC 4/8**

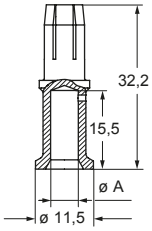



contacts side (front view)

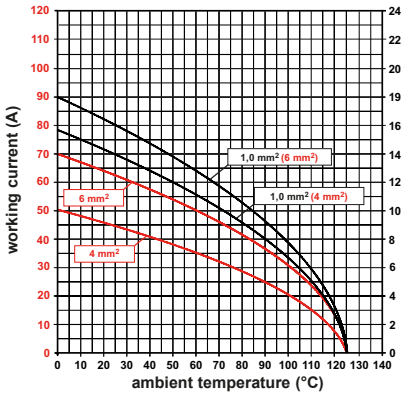


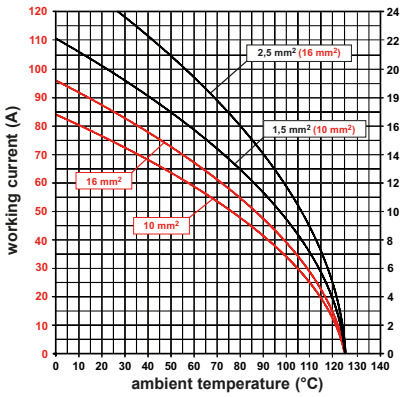

**RX7F2D, RX7M2D and RX7F2D 16 XF, RX7M2D 16 XF**




**RXC 4/8 poles connector inserts**
**Maximum current load derating diagram**




**RX7F2D and RX7M2D contacts**

| conductor section (mm²) | conductor slot ø A (mm) | conductor stripping length (mm) |
|---|---|---|
| 6 | 3,5 | 15 |
| 10 | 4,3 | 15 |
| 16 | 5,5 | 15 |
| 16 (XF) | 6,1 | 15 |
| 25 | 7,0 | 15 |

# SIZE “21.21” ENCLOSURES

## HNM VERSION

**Size “21.21” metallic housings**
**(bulkhead and surface mounting)**
**and hoods with CLASS lever,**
**suitable for up to 5 000 mating cycles**

Find out more
www.ilme.com

# TECHNICAL FEATURES

**Housings** (bulkhead-mounting or surface mounting) size "21.21" equipped with **CLASS single locking lever,** made by stainless-steel with sintered stainless-steel rolls with special **anti-friction treatment**

Q *to be mated to* standard **hoods** "size 21.21".

This **HNM** series of connector housings has been developed to be used in combination with the **HNM** series of size "21.21" multipole connector inserts, equipped with the relevant **HNM** series of removable crimp contacts, to provide the same reliable protection of the standard series but for a consistently extended, **high number of matings.**

The CLASS locking lever has been chosen and treated so as to reduce wear due to friction at minimum.

Even mated on standard hoods, it is able to provide extremely reduced wear on the corresponding locking pegs, producing virtually no friction by the application of special lubrication on the hinged rolls.

The counterpart hoods are therefore standard metallic types, with fused pegs.

Currently (see next pages) the **suitable HNM inserts size "21.21"** for these new HNM housings are:

Q **CQF /M 21** inserts
with **5 A HNM** crimp contacts series **RI**

Q **CDF /M 08** inserts
with **10 A HNM** crimp contacts series **RD**

Q **New RQF /M 05** inserts,
special **HNM** screw-type PE terminal,
with **16 A HNM** crimp contacts series **RC**

Q **CQ4F /M 03**
with **40 A HNM** crimp contacts series **RX**

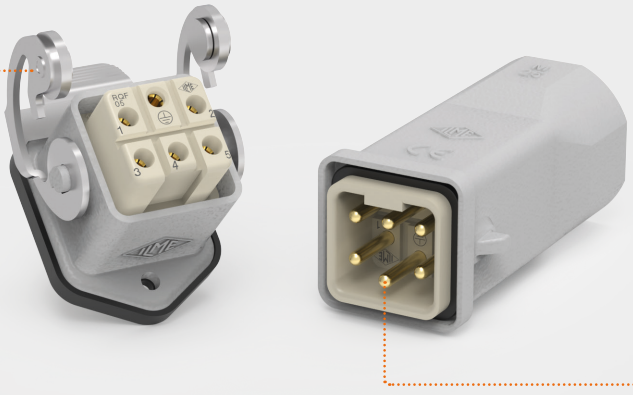
NOTE – Series CKSH (SQUICH®), as well as all MIXO BUS multi-axial and coaxial inserts for use within the size "21.21" CX 1/2 BDF /BDM adapter are not foreseen in HNM version. For requests of other size "21.21" connector inserts in HNM version (e.g.: RK, RQ 12, RQ 07), please contact ILME Commercial Offices.

When the number of 500 mating cycles guaranteed life of standard connector hoods and housings is insufficient to provide a reasonably long lifespan in those connector applications that by inherent function are foreseen to be subject to very frequent connections and disconnections, it is necessary to opt for a solution able to increase that guaranteed lifetime.

Q The **HNM size "21.21"** series of connector enclosures achieves this goal, extending the guaranteed number of matings **up to 5 000.**

▶ **Original design, ILME exclusive in the market for rectangular connectors**

**Special lubrication of the lever rolls**



▶ **Special gold plating and lubrication to reduce the wear of the contacts during frequently repeated mating/unmating operations**

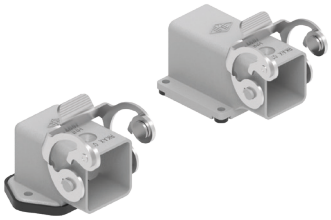
# RKAX 03 HNM (High Number of Matings)

| inserts | | page: |
|---|---|---|
| **CQ** | 21 poles | **82** |
| **CD** | 8 poles | **83** |
| **RQ** | 5 poles + ⏚ | **84** |
| **CQ4 03** | 3 poles + ⏚ | **85** |

**bulkhead mounting housings straigh, stainless steel lever**

**FROM JUNE 2022**

**bulkhead mounting housings angled, stainless steel lever**



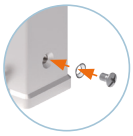
**FROM JUNE 2022**

| description | part No. | part No. |
|---|---|---|
| with stainless steel lever | **RKAX 03 I** | |
| without cable entry [1]<br>without cable entry, fixing by 4 screws | | **RKAX 03 IA**<br>**RKAX 03 IA4** |
| gasket and screw kit for IP66 [2] | **CKR 65** | **CKR 65** |
| gasket and screw kit for IP66 [2] specific for CD 07/08 inserts | **CKR 65 D** | **CKR 65 D** |

[1] Not suitable for CQ4 series inserts

[2] To obtain the IP66 degree of protection it is necessary to replace the fixing screw supplied with the above listed inserts, with the one with gasket included in the kit (to be purchased separately).

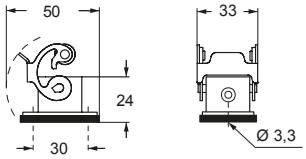
**NOTE:** The enclosure shown here is an example. The screw and sealing gasket kit can be used with all enclosures' part nos. in this page.



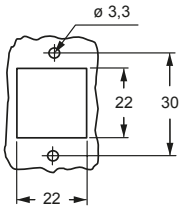
cURus
Type 12 pending
Type 4/4X only with CKR 65 (D) pending

IP66 with CKR 65 (D) [2]

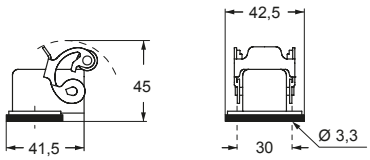
**RKAX 03 I**



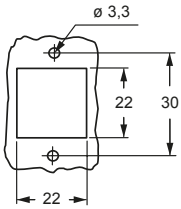

panel cut-out for enclosures



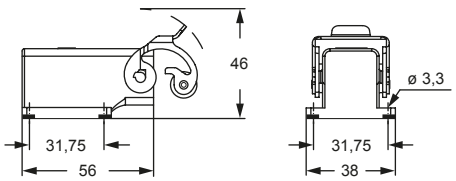

**RKAX 03 IA**



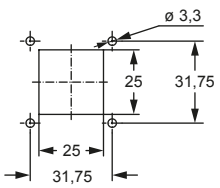

panel cut-out for enclosures




**RKAX 03 IA4**



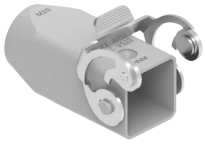

panel cut-out for enclosures



# RKAX VG HNM (High Number of Matings)

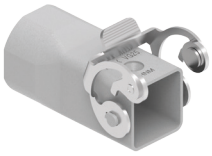
| inserts | | page: |
|---|---|---|
| **CQ** | 21 poles | **82** |
| **CD** | 8 poles | **83** |
| **RQ** | 5 poles + ⏚ | **84** |
| **CQ4 03** | 3 poles + ⏚ | **85** |

**hoods**
**stainless steel lever**



**FROM JUNE 2022**

**hoods**
**stainless steel lever**



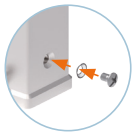
**FROM JUNE 2022**

| description | part No. (entry M20) | part No. (entry M25) |
|---|---|---|
| top entry [1] | **RKAX VG20** | |
| top entry | | **RKAX VG25** |
| gasket and screw kit for IP66 [2] | **CKR 65** | **CKR 65** |
| gasket and screw kit for IP66 [2] specific for CD 08 inserts | **CKR 65 D** | **CKR 65 D** |

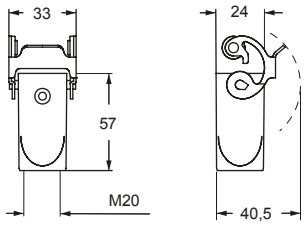
[1] Not suitable for CQ4 series inserts

[2] To obtain the IP66 degree of protection it is necessary to replace the fixing screw supplied with the above listed inserts, with the one with gasket included in the kit (to be purchased separately).

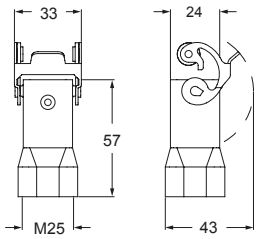
**NOTE:** The enclosure shown here is an example. The screw and sealing gasket kit can be used with all enclosures' part nos. in this page.



**RKAX VG20**




**RKAX VG25**



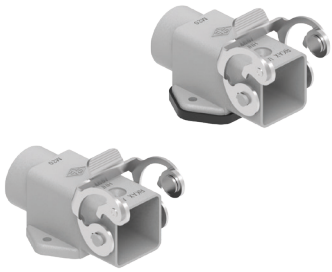

cURus
Type 12 pending
Type 4/4X only with CKR 65 (D) pending

EN 60529 IP44 IEC 60529 IP66 with CKR 65 (D) [2]

# RKAX AP – IAP HNM (High Number of Matings)

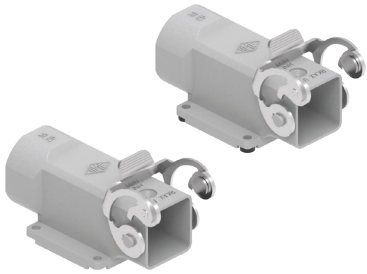
| inserts | | page: |
|---|---|---|
| **CQ** | 21 poles | **82** |
| **CD** | 8 poles | **83** |
| **RQ** | 5 poles + ⏚ | **84** |
| **CQ4 03** | 3 poles + ⏚ | **85** |

## bulkhead mounting housings straight and angled, stainless steel lever



**FROM JUNE 2022**

## angled surface mounting housings stainless steel lever



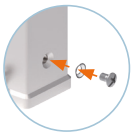
**FROM JUNE 2022**

| description | part No. (entry M20) | part No. (entry M25) |
|---|---|---|
| with cable entry [1]<br>with cable entry, bulkhead hole closed, without gasket [1] | **RKAX IAP20**<br>**RKAX AP20** | |
| with cable entry, fixing by 4 screws<br>with cable entry, fixing by 4 screws, bulkhead hole closed, without gasket | | **RKAX IAP25**<br>**RKAX AP25** |
| gasket and screw kit for IP66 [2] | **CKR 65** | **CKR 65** |
| gasket and screw kit for IP66 [2] specific for CD 07/08 inserts | **CKR 65 D** | **CKR 65 D** |

[1] Not suitable for CQ4 series inserts

[2] To obtain the IP66 degree of protection it is necessary to replace the fixing screw supplied with the above listed inserts, with the one with gasket included in the kit (to be purchased separately).

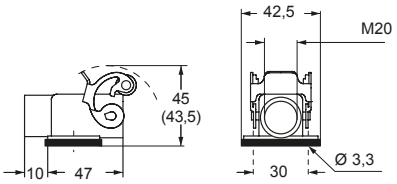
**NOTE:** The enclosure shown here is an example. The screw and sealing gasket kit can be used with all enclosures' part nos. in this page.



cURus
Type 12 pending
Type 4/4X only with CKR 65 (D) pending

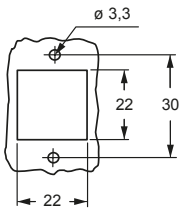
IP44 IP66 with CKR 65 (D) [2]

### RKAX IAP20 (RKAX AP20*)

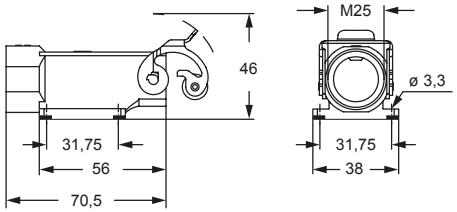



***AP...** without gasket

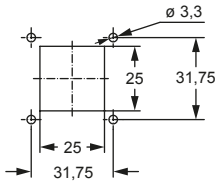
panel cut-out for enclosures



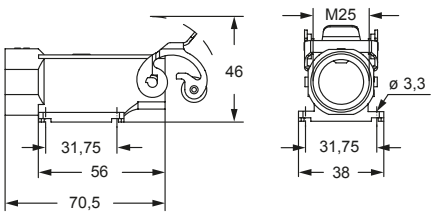

### RKAX IAP25



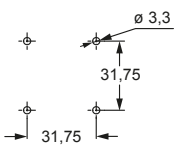

panel cut-out for enclosures




### RKAX AP25




panel cut-out for enclosures



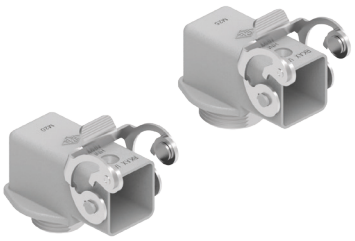
# RKAX IF – IAF HNM (High Number of Matings)

| inserts | | page: |
|---|---|---|
| **CQ** | 21 poles | **82** |
| **CD** | 8 poles | **83** |
| **RQ** | 5 poles + ⏚ | **84** |
| **CQ4 03** | 3 poles + ⏚ | **85** |

## bulkhead mounting housings stainless steel lever

**FROM JUNE 2022**

## angled bulkhead mounting housings stainless steel lever

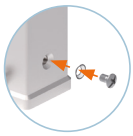


**FROM JUNE 2022**

| description | part No. | entry M | part No. | entry M |
|---|---|---|---|---|
| with O-ring gasket [1] [•]<br>with flange gasket [1] | **RKAX IF**<br>**RKAX IFC** | 32<br>32 | | |
| with O-ring gasket [1] [2] [•]<br>with O-ring gasket [1] [2] [•] | | | **RKAX IAF20**<br>**RKAX IAF25** | 20<br>25 |
| gasket and screw kit for IP66 [2] | **CKR 65** | | **CKR 65** | |
| gasket and screw kit for IP66 [2] specific for CD 07/08 inserts | **CKR 65 D** | | **CKR 65 D** | |

[1] To obtain the IP66 degree of protection it is necessary to replace the fixing screw supplied with the above listed inserts, with the one with gasket included in the kit (to be purchased separately).

**NOTE:** The enclosure shown here is an example. The screw and sealing gasket kit can be used with all enclosures' part nos. in this page



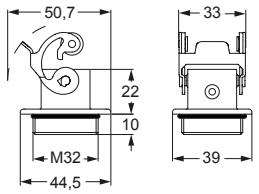
[2] Not suitable for CQ4 series inserts

[•] Locknut supplied on request, see Cable glands catalogue (article AS M32N metallic).

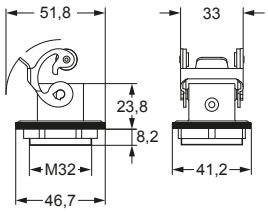
cURus
Type 12 pending
Type 4/4X only with CKR 65 (D) pending

IP66 with CKR 65 (D) [2]

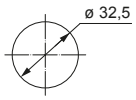
**RKAX IF**



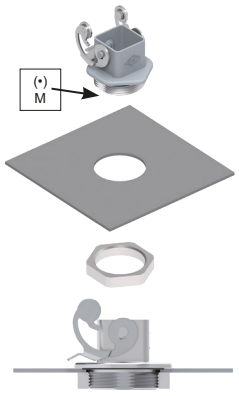

**RKAX IFC**



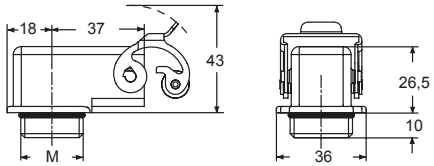

panel cut-out for enclosures



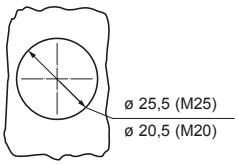

**USE OF THE LOCKNUT**



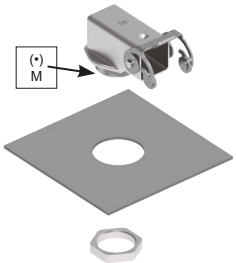

**MKAX IAF**




panel cut-out




**USE OF THE LOCKNUT**



**enclosures:**
**size "21.21"** **page:**

**HNM** **78 - 81**

**inserts, crimp connections**

**5 A HNM crimp contacts**
**gold plated**

| description | part No. | part No. |
|---|---|---|
| without contacts (to be ordered separately) | | |
| female insert for female contacts | **CQF 21** | |
| male insert for male contacts | **CQM 21** | |
| 5 A female crimp contacts | | |
| 0,08-0,21 mm² AWG 28-24 | | **RIFD 0.2** |
| 0,13-0,33 mm² AWG 26-22 | | **RIFD 0.3** |
| 0,33-0,52 mm² AWG 22-20 | | **RIFD 0.5** |
| 5 A male crimp contacts | | |
| 0,08-0,21 mm² AWG 28-24 | | **RIMD 0.2** |
| 0,13-0,33 mm² AWG 26-22 | | **RIMD 0.3** |
| 0,33-0,52 mm² AWG 22-20 | | **RIMD 0.5** |

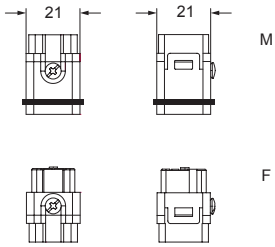
gold plated

- characteristics according to EN 61984:
  **6,5 A 50 Vac / 120 Vdc 0,8 kV 3**
- c UL us (UL for USA and Canada),
  DNV·GL BUREAU VERITAS certified

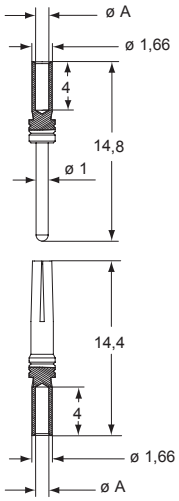
- rated voltage according to UL/CSA: 250V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 5 000 cycles
- contact resistance: ≤ 4 mΩ
- seat of contact #9 on both inserts set forward to obtain pre-leading contact (e.g. for FE functional earth)

- for crimp contacts RI series use, see pages 716 - 719 on CN.19 catalogue
  **CIPZ D** crimping tool
  **CITP D** turret head
  **CIES** insertion / removal tool

- for max. current load see the connector inserts derating diagram below; for more information **see page 28** of CN.19 catalogue



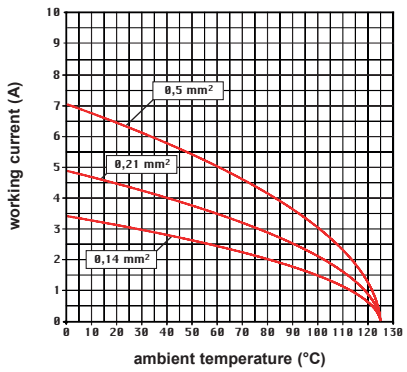

contacts side (front view)


**RIF and RIM contacts**

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

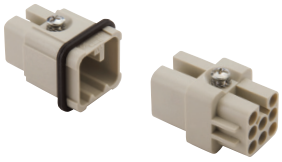
**CQ 21 poles connector inserts**
**Maximum current load derating diagram**



**enclosures:**
**size "21.21"** **page:**

**HNM** **78 - 81**

**inserts, crimp connections**



**10 A HNM crimp contacts gold plated**

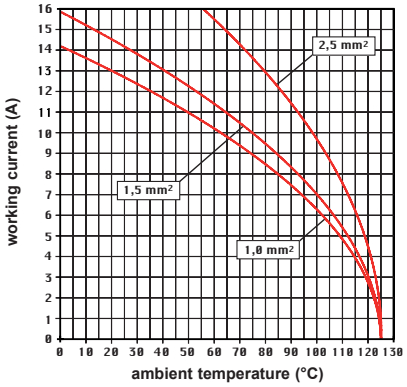
| description | part No. | part No.. |
|---|---|---|
| without contacts (to be ordered separately) | | |
| female insert for female contacts [1] | **CDF 08** | |
| male insert for male contacts | **CDM 08** | |
| 10 A female contacts | | |
| 0,14-0,37 mm² AWG 26-22 identification No. 1 | | **RDF2D 0.3** |
| 0,5 mm² AWG 20 identification No. 2 | | **RDF2D 0.5** |
| 0,75 mm² AWG 18 identification No. ② | | **RDF2D 0.7** |
| 1 mm² AWG 18 identification No. 3 | | **RDF2D 1.0** |
| 1,5 mm² AWG 16 identification No. 4 | | **RDF2D 1.5** |
| 2,5 mm² AWG 14 identification No. 5 | | **RDF2D 2.5** |
| 10 A male contacts | | |
| 0,14-0,37 mm² AWG 26-22 identification No. 1 | | **RDM2D 0.3** |
| 0,5 mm² AWG 20 identification No. 2 | | **RDM2D 0.5** |
| 0,75 mm² AWG 18 identification No. ② | | **RDM2D 0.7** |
| 1 mm² AWG 18 identification No. 3 | | **RDM2D 1.0** |
| 1,5 mm² AWG 16 identification No. 4 | | **RDM2D 1.5** |
| 2,5 mm² AWG 14 identification No. 5 | | **RDM2D 2.5** |

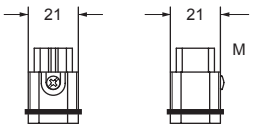
gold plated

1) the female inserts can be mounted into the straight bulkhead housings CK I from the rear

- characteristics according to EN 61984:
  **10A 50 Vac / 120 Vdc 0,8 kV 3**
- cULus (UL for USA and Canada), CSA, CQC, DNV·GL, BUREAU VERITAS, EAC certified
- rated voltage according to UL/CSA: 50V ac / 120V dc
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 5 000 cycles
- contact resistance: ≤ 3 mΩ
- for applications requiring higher voltages, please see the special voltage application section refer to C.19 catalogue on page 65
- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 10 A contacts, CDF and CDM series see pages 708 - 741 on CN.19)
- for max. current load see the connector inserts derating diagram below; for more information **see page 28** of CN.19 catalogue

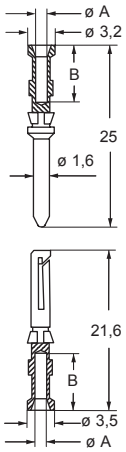
**CD 08 poles connector inserts**
**Maximum current load derating diagram**




contacts side (front view)


**CR CP coding pin with loss of one contact (refer to CN.19, page 689)**



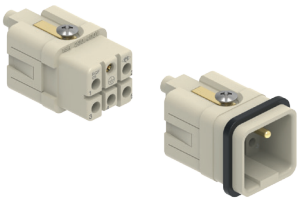

**RDF2D and RDM2D contacts**

| conductor section mm² | conductor slot ø A (mm) | conductors stripping length B (mm) |
|---|---|---|
| 0,14-0,37 | 0,9 | 8 |
| 0,5 | 1,1 | 8 |
| 0,75 | 1,3 | 8 |
| 1,0 | 1,45 | 8 |
| 1,5 | 1,8 | 8 |
| 2,5 | 2,2 | 6 |

**enclosures:**
**size "21.21"** **page:**

**HNM** **78 - 81**

**HNM inserts, crimp connections**



**FROM JUNE 2022**

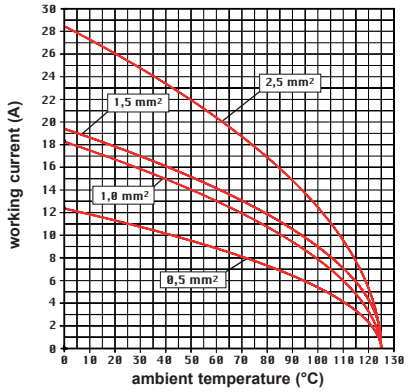
**16 A HNM crimp contacts gold plated**

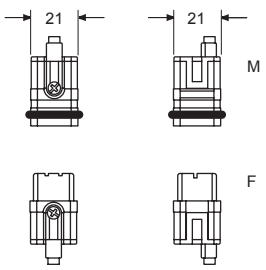
| description | part No. | part No. |
|---|---|---|
| without contacts (to be ordered separately) | | |
| female insert for female contacts | **RQF 05** | |
| male insert for male contacts | **RQM 05** | |
| 16 A female contacts | | |
| 0,14-0,37 mm² AWG 26-22 one groove | | **RCF2D 0.3** |
| 0,5 mm² AWG 20 with no grooves | | **RCF2D 0.5** |
| 0,75 mm² AWG 18 one groove (back side) | | **RCF2D 0.7** |
| 1 mm² AWG 18 one groove | | **RCF2D 1.0** |
| 1,5 mm² AWG 16 two grooves | | **RCF2D 1.5** |
| 2,5 mm² AWG 14 three grooves | | **RCF2D 2.5** |
| 3 mm² AWG 12 one wide groove | | **RCF2D 3.0** |
| 4 mm² AWG 12 with no grooves | | **RCF2D 4.0** |
| 16 A male contacts | | |
| 0,14-0,37 mm² AWG 26-22 one groove | | **RCM2D 0.3** |
| 0,5 mm² AWG 20 with no grooves | | **RCM2D 0.5** |
| 0,75 mm² AWG 18 one groove (back side) | | **RCM2D 0.7** |
| 1 mm² AWG 18 one groove | | **RCM2D 1.0** |
| 1,5 mm² AWG 16 two grooves | | **RCM2D 1.5** |
| 2,5 mm² AWG 14 three grooves | | **RCM2D 2.5** |
| 3 mm² AWG 12 one wide groove | | **RCM2D 3.0** |
| 4 mm² AWG 12 with no grooves | | **RCM2D 4.0** |

gold plated

- characteristics according to EN 61984:
  **16 A 230/400 V 4 kV 3**
  **16 A 320/500 V 4 kV 2**
- cURus (UL for USA and Canada) pending
- CQC, DNV-GL, BV, EAC will follow
- 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: ≥ 5 000 cycles
- contact resistance: ≤ 1 mΩ
- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 16 A contacts, RC series see pages 708 - 741 on CN.19 catalogue)
- can also be used partially fitted with 4 mm² section contacts
- for max. current load see the connector inserts derating diagram below; for more information **see page 28** of CN.19 catalogue

**RQ 05 poles connector inserts**
**Maximum current load derating diagram**

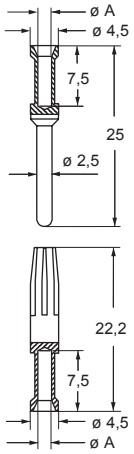



contacts side (front view)


**NOTE:** PE screw connection for unprepared wires only

**Coding pins**
**CR CPQ**
**(refer to CN.19, page 689)**



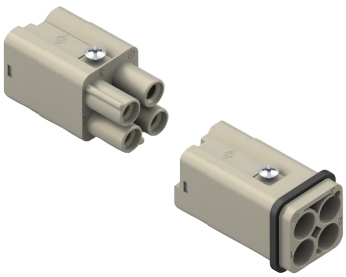

**RCF2D and RCM2D contacts**

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

**enclosures:**
**size "21.21"** **page:**

**HNM** **78 - 81**

**HNM inserts, crimp connections**



**40 A HNM crimp contacts gold plated**

| description | part No. | part No. |
|---|---|---|
| without contacts (to be ordered separately) | | |
| female inserts for female contacts * | **CQ4F 03** | |
| male inserts for male contacts * | **CQ4M 03** | |
| 40 A female crimp contacts | | |
| 1,5 mm² AWG 16 | | **RXF2D 1.5** |
| 2,5 mm² AWG 14 | | **RXF2D 2.5** |
| 4 mm² AWG 12 | | **RXF2D 4.0** |
| 6 mm² AWG 10 | | **RXF2D 6.0** |
| 40 A male crimp contacts | | |
| 1,5 mm² AWG 16 | | **RXM2D 1.5** |
| 2,5 mm₂ AWG 14 | | **RXM2D 2.5** |
| 4 mm² AWG 12 | | **RXM2D 4.0** |
| 6 mm² AWG 10 | | **RXM2D 6.0** |

gold plated

* wire diameter: up to 7,5 mm, contact section: up to 10 mm²

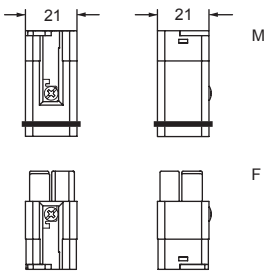
✎ the female insert **CQ4F 03** is finger proof (IP2X or IPXXB) even if not coupled, while the male insert **CQ4M 03** in this circumstance is protected from access with the back of the hand (IP1X or IPXXA)

✎ cannot be used in angled enclosures (IA/IAP/VA version)

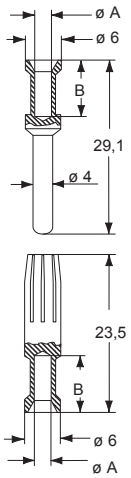
- characteristics according to EN 61984:
  **40 A 400 V 6 kV 3**
- c UL us (UL for USA and Canada), DNV·GL BUREAU VERITAS EAC certified
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 5 000 cycles
- contact resistance: ≤ 0,3 mΩ

- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 40 A contacts RX series, pages 708 - 741 on CN.19 catalogue)

- for max. current load see the connector inserts derating diagram below; for more information **see page 28** of CN.19 catalogue



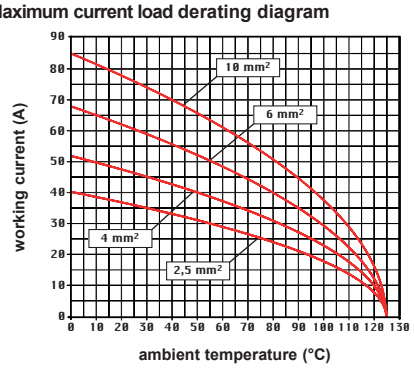

contacts side (front view)


**RXF2D and RXM2D contacts**

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

**CQ4 03 poles connector inserts**
**Maximum current load derating diagram**




**Coding pins CR Q03, 4 possible positions (refer to CN.19, page 692)**