Multipole connectors

2022

THE TRADITION
OF INNOVATION SINCE 1945

ILME designs and manufactures complete solutions for industrial connections.
Headquartered in Milan and with subsidiaries in the key countries driving the progress of automation, ILME is an industry leader in the main world markets.
People are vital to success and growth at ILME, sharing a passion for innovation, utmost responsibility and participation.
The Company is committed to developing technology in the areas that most impact the future of the industries it serves: original solutions and safe wiring, research on the most suitable materials, rapid turnaround and readily available services while striving for energy saving and environmental safeguard.

COMMITMENT TO INDUSTRY

Technological innovation is the main pillar of ILME competitiveness.
In the electrical connection sector of industrial automation, characterized by the need for top performance and reliability, ILME is an acknowledged leader with its own patents, and a global benchmark supplier of major companies worldwide.
ILME offers a fully integrated range of high-quality products and services for every type of connection to suit any application requirements.


AUTOMATION


RAILWAY


ENERGY


MARINE


FOOD & BEVERAGE


AGRONOMY


OUTDOOR


TRANSPORT


LIGHT & SOUND


PLASTICS


CHEMICAL


AIRPORT

IMPORTANT NOTES

1 ILME designs and manufactures complete solutions for Heavy Duty electrical power connections.
The connector (although offered to the user as a variety of elements, usually inserts and enclosures, to allow the selection of the ideal combination) has been **designed as a complete connector** and tested to be compliant with the essential safety requirements of the EU Low Voltage Directive 2014/35/EU and in particular the EN 61984 standard. The design of this "whole" system guarantees that every allowed combination of inserts, enclosures and accessories cannot result as improper.

2 The products in this catalogue alone cannot guarantee the best functionality upon installation, as this depends also on their correct **"putting into service"** which must be performed in compliance with the applicable system safety standards and according to the "rule of the art". Therefore the effectiveness of the installation of the connector depends on the choices of the end user who must also take into account the following safety requirements.

3 Connectors must **not be connected or disconnected when live or under load.**

4 After wiring the inserts it is necessary **to verify the continuity of the protective earth connections.**

5 The **correct coupling of the inserts** is guaranteed only if they are installed (with the four fixing screws supplied *) inside the corresponding enclosures or onto compatible accessories in this catalogue. ILME S.p.A. is not responsible for any different application.

6 Wiring of **screw-type terminal connections** must be carried out applying the correct tightening torque in order to avoid false contacts or damage to the conductor, the screw or the terminal.

7 **Crimping tools** and **crimp contacts** used should preferably be supplied by the same manufacturer to avoid difficulties with the insertion and retention or damaging of the contacts themselves.

8 Correct wiring of **spring-clamp connection inserts** is guaranteed only when the correct screwdriver indicated in the specific catalogue, or possibly on the insert, is used **.

9 Avoid forcing the contacts during **connection and disconnection.** Connectors must be coupled and uncoupled in the axial direction with respect to the contacts, without bending and pulling the attached conductor bundles or cables.

10 Installation of two **inserts side by side,** in enclosures with two bays, must respect the polarity drawing marked on the insert (or the contact side view, as shown in this catalogue) to avoid inverted coupling.

11 Installation of two or more identical **connectors side by side** is recommended only with the use of **coding pins** in order to avoid mismatched couplings.

12 In order to keep the declared **degree of protection** (IP code according to EN 60529, or Enclosure Type Rating according to ANSI/UL 50E), enclosures must be completed with cable glands and/or other accessories with at least an equal degree of protection.

13 Moreover, the declared **degree of protection** (IP code according to EN 60529, or Enclosure Type Rating according to ANSI/UL 50E) is guaranteed when the enclosures, complete with inserts, are coupled and locked with their locking levers (or devices).

14 Connector inserts and their enclosures are generally compatible with similar/equivalent products from other manufacturers, according to the last samples tested. Full compatibility cannot be guaranteed in the event of technical changes made by other manufacturers.
In particular, maximum performance of IP68 enclosures (CG-MG, CGK-MGK Series) cannot be guaranteed when coupled with other manufacturers' products.

15 **Spare parts** are supplied in minimum quantities only with the purpose to replace damaged parts. To avoid invalidation of warranty, products should be modified or repaired only by ILME: the integrity of their functionality - e.g. their degree of protection - can no longer be guaranteed if products are modified/repaired by end-users. In any case, the liability for correct choice, assembly and use is totally at charge of the installer and the end-user.

16 ILME S.p.A. takes no responsibility in verifying whether the components herein contained comply with any specific regulations of fields of application.

17 ILME cannot be held responsible for individual components in **uses other than those described in this catalogue.**
ILME cannot be held responsible for **incorrect connector selection** in relation to the environmental conditions of the application (e.g.: influence of ambient temperature, moisture, environmental pollution, etc.).

* Except one fixing screw for size "21.21" inserts, two fixing screws for size "32.13" inserts.
** Except for **SQUICH**® inserts (with spring-clamp terminals with actuator button)

CE MARKING

As from 1st January 1997, in order to make available electrical products on the European market, the manufacturer must ensure that these bear the relevant **CE marking,** in line with the Low Voltage Directive 73/23/ EEC* (implemented in Italy as L. D. 18-10-1977 no. 791) and its modification 93/68/EEC* (implemented in Italy as L.D. 25-11-1996 no. 626/96, published in the supplement to the Gazzetta Ufficiale of 14-12-1996).

The CE marking must be visible on the product or, if this is not possible, on the packaging, the instructions for use or on the warranty certificate. It acts as a declaration by the manufacturer that the product complies with all relevant EU directives regarding its field of application.

ILME products bear the CE marking on the actual product or its packaging.

Almost all ILME products fall within the scope of the Low Voltage Directive. An EU declaration of conformity is required in order to be able to apply the CE marking. This declaration, to which the market is not directly entitled, must be made available to the controlling authorities (in Italy, the Ministry of Economic Development) at all times. In it, the manufacturer declares the technical safety standard(s) followed in the design and manufacture of the product. These standards must be, in decreasing order of preference:

— a European standard (EN prefix)
— a European harmonisation document (HD prefix)
— an international IEC standard
— a national standard
— in the absence of reference standards, the manufacturer's internal specifications guaranteeing compliance with the basic safety requirements of the directive.

Conformity with harmonised technical standards (i.e. ratified by CENELEC) also constitutes presumption of conformity with the basic safety requirements of the directives.

The CE marking of ILME products results from the declaration of conformity of the product to harmonised standards or international IEC standards.

Through the CE marking, ILME declares full compliance, not merely with the directive's basic safety requirements, but also with those international or national standards on which voluntary safety certification markings are based (e.g. IMQ and VDE). In this way, ILME intends to give the CE marking the value of self-certification in terms of safety, given the loss in legal value of voluntary certifications issued by third parties, ratified by directive 93/68/EEC *.

Notwithstanding the above, practically all ILME products still bear voluntary conformity markings.

The above mentioned EU declaration of conformity becomes null and void when the assembly of products includes one or more components not manufactured by ILME and without CE marking.

⚠ **The information contained in this catalogue is not binding and may be changed without notice.**

* **Note:** The subsequent legal reference for the Low Voltage Directive was 2006/95/EC, as consolidation of the original Directive 73/23/EEC + Directive 93/68/EEC. On 29th March 2014, the Official Journal of the European Union published the new Low Voltage directive 2014/35/EU dd. 26th February 2014, a recast version of directive 2006/95/EC, which is in force since 20th April 2016.

UNI EN ISO 9001: 2015
Design, manufacture and distribution
of industrial electrical equipment (IAF 19)
Certificate No. 50 100 11133

Visit ilme.com website to discover all the main features:

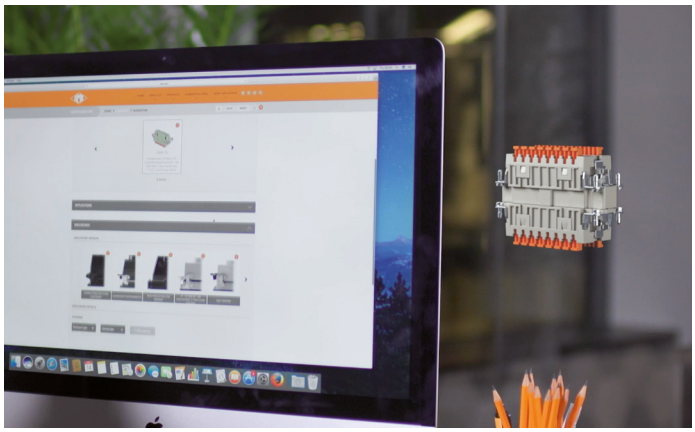
Technical datasheets
to get all the information about our products.

Application pages
to focus on installation locations, field requirements and technical details.

Download Area
to find all the useful files in a click.

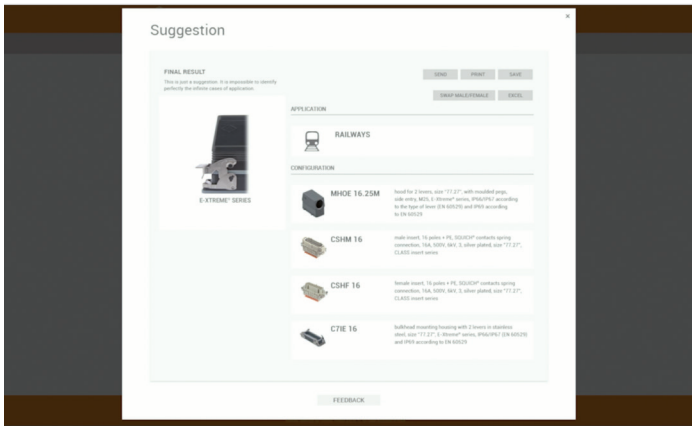
Get into our **Configurator** to easily find the right solution that fits your needs

search



Over 50 million connector combinations.

choose



Easy selection of individual parts for key applications and recommendations for custom environmental conditions.

download

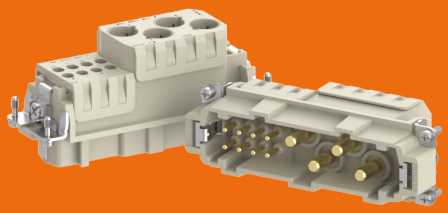
Smart suggestion to get the most suitable configuration.

THE ULTIMATE HYGIENIC EVOLUTION

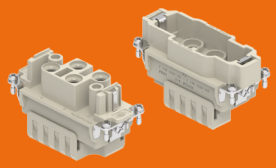
T-TYPE HYGIENIC SERIES
T-TYPE/H ENCLOSURES

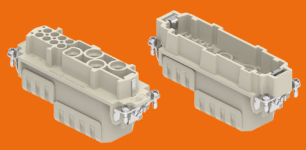
T-TYPE HYGIENIC SERIES
T-TYPE/C ENCLOSURES

HNM RANGE WIDENING



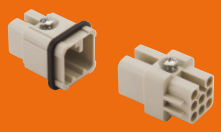
RXC Series
Combined crimp connectors

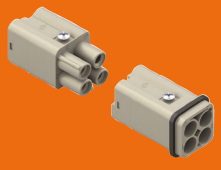




RX7..2D..

RC..2D..

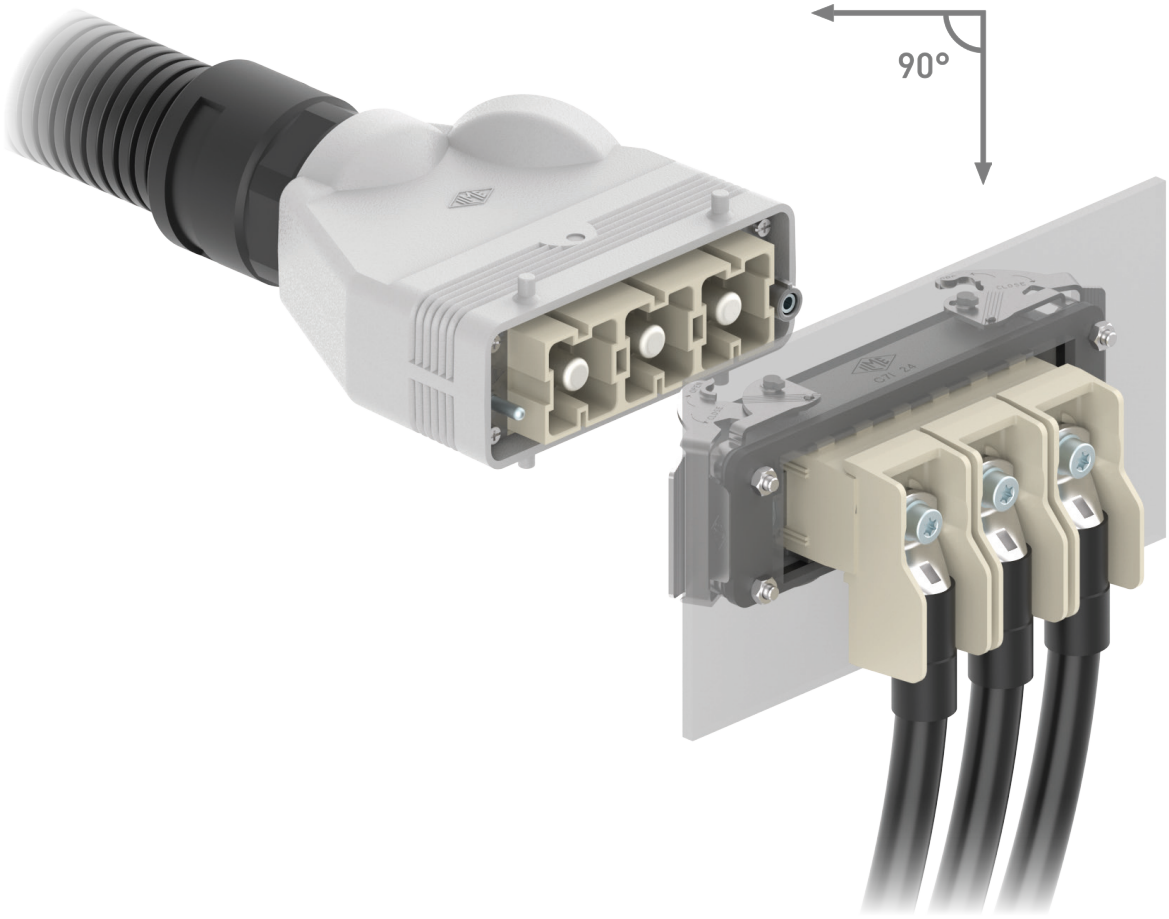




ACCESSORIES 86

MIXO MODULE
CX 01 YAF /YAM

For 90°-angled screw terminal connection



MIXO 200 A

High current module

robust and space-saving

1 P: 200 A 1 000 V 8 kV 3

Find out more
www.ilme.com

TECHNICAL FEATURES

Watch our technical clip

The ILME modular MIXO system offers incredible versatility and freedom of configuration: more than 66 modules are available to realize a connector fitting everyone's needs.

High-power modules in the 70 A - 200 A current range relate to conductors with large wire-cross-section, even up to 70 mm². Such wires are often difficult to handle, having reduced bending radius and requiring an adequate installation room, often not available.

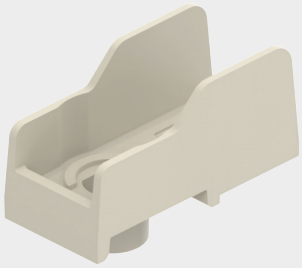
The new **MIXO CX 01 YA** module is the solution introduced by ILME to widen the potential of the MIXO high-current series, a module with the same compatible electrical rating and mating interface of the 200 A crimp version but designed to **minimize its space installation requirements.**

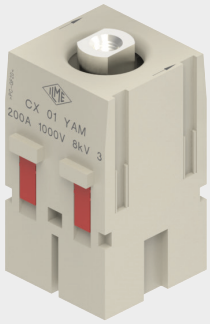
The male and female contacts for the angled 200 A module allow the **connection of DIN 46235** pre-insulated crimp cable lugs (using M6 Torx® T30 screw), available on the market in the dimension for wire cross-sectional area of 10 mm², 16 mm², 25 mm², 35 mm², 50 mm² and 70 mm².

To keep the proper electrical insulation, ILME designed a **special insulating cover plate,** avoiding accidental contact between cable lugs of adjacent modules and saving the **nominal voltage rating of 1000 V** planned for the 200 A modules.

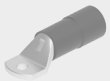
The 200 A angled module can be used inside the ILME bulkhead mounting housings as a natural extension of a busbar connection or for powering control cabinets, HVAC systems and batteries for energy storage backup applications.

- **Original design**
- **Special insulating cover plate avoiding accidental contact between any conductive element (side by side installation)**
- **The insulating cover plate design permits the same voltage and impulse withstand voltage rating as the standard 200 A crimp version module, fulfilling the correct creepage and clearance distances requirements**





- **Suitable for DIN 46235 pre-insulated tubular cable-lugs (not supplied) with wire cross-section: 10 mm² - 70 mm²**



- **M6 x 16 mm Torx® T30 socket bolt to fix the cable lug**

- **M6 elastic washer (under the bolt head)**

- **M6 flat washer (under the lug)**
- **Each cable lug can be disconnected without removing the 200 A contact**

MIXO CX 01 YAF /YAM 1 pole 200 A - 1000 V

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

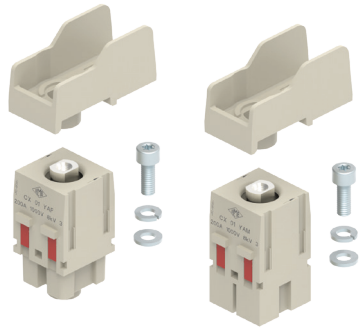
page:

frames for modular units* **317**

*** enclosures: bulkhead mounting housings only**

refer to CN.19 pages

modular units,
screw terminal connection - 90° angled



FROM APRIL 2022

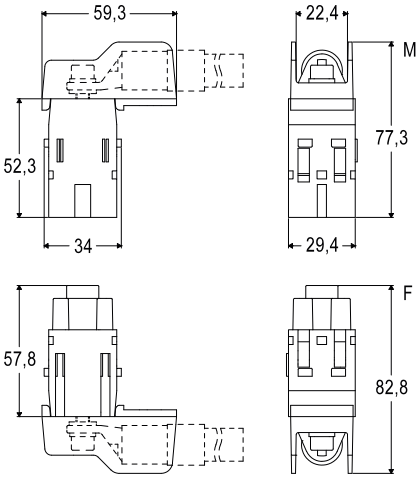
description	part No.
screw terminal connection - 90° angled female insert with female contact male insert with male contact	**CX 01 YAF** **CX 01 YAM**

- characteristics according to EN 61984:
  200 A 1000 V 8 kV 3

- cURus (ECBT2/8 and PVVA2/8) pending
- CSA, CQC, EAC, DNV-GL, BV pending

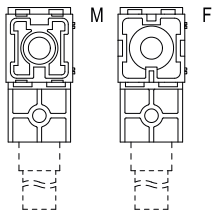
- rated voltage according to UL/CSA: 600 V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 3 mΩ

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



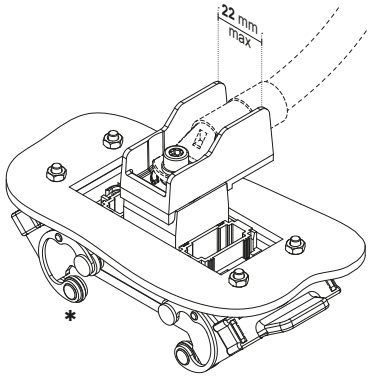
contacts side (front view)

side with reference arrow ▲



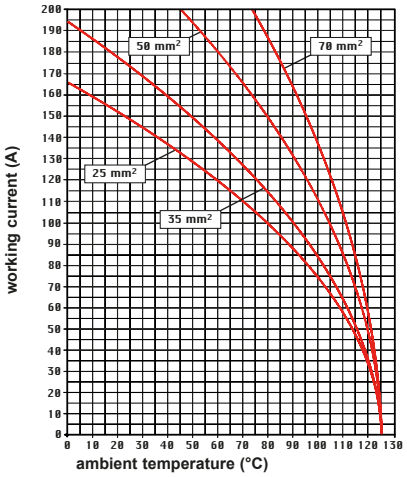
2 frame slots

- Pre-insulated tubular cable lug overall width: 22 mm max.



* Frame size, additional MIXO modules and housing levers may vary from those depicted.

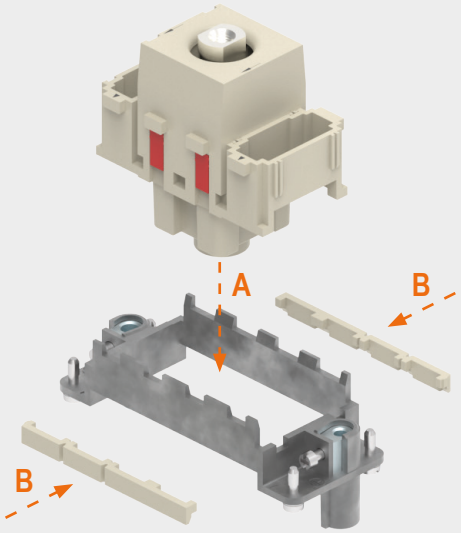
CX 01 YA, 1 pole connector inserts (MIXO 200A)
Maximum current load derating diagram



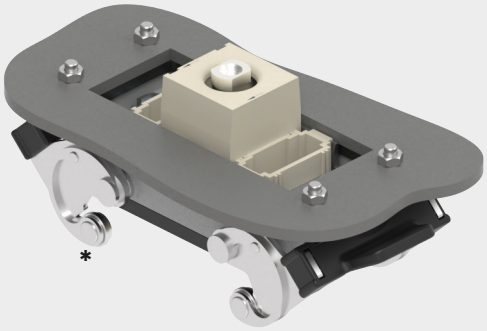
ASSEMBLY INSTRUCTIONS

CX 01 YAF /YAM - MIXO MODULE 200 A 90°-ANGLED SCREW TERMINATION

1

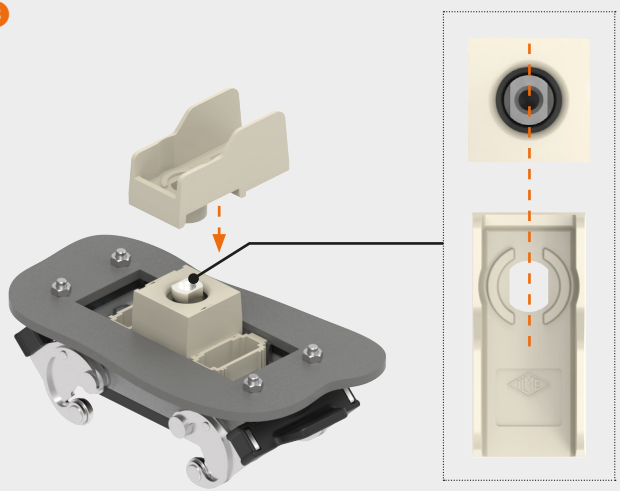


2 For bulkhead mounting housings only

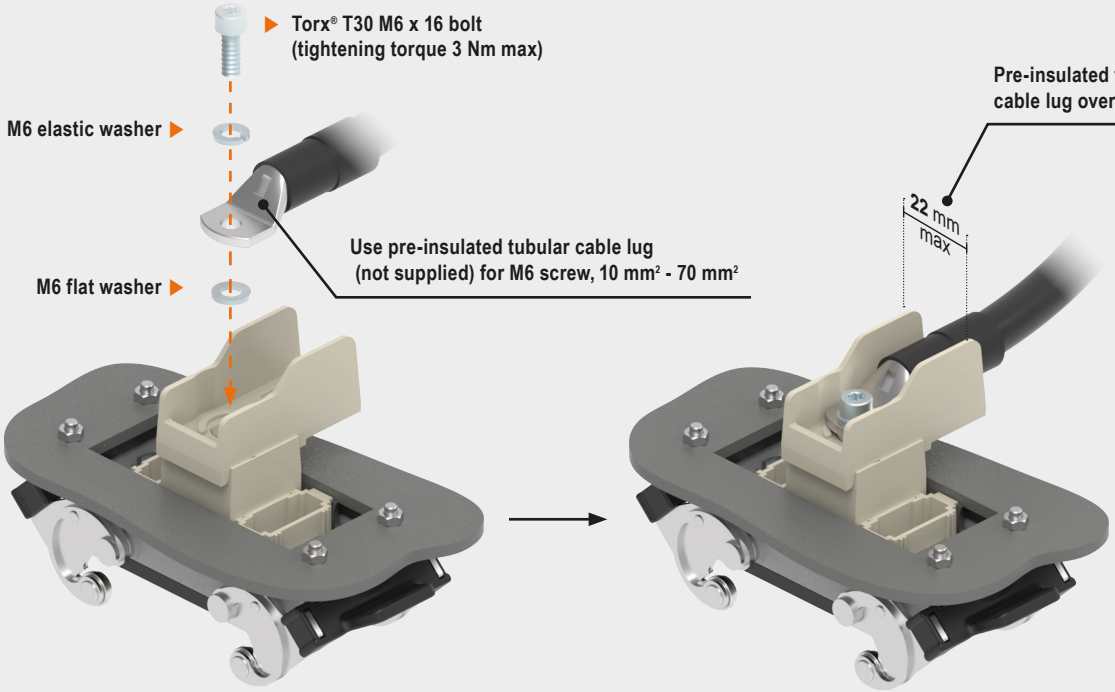


* Frame size, additional MIXO modules and housing levers may vary from those depicted.

3

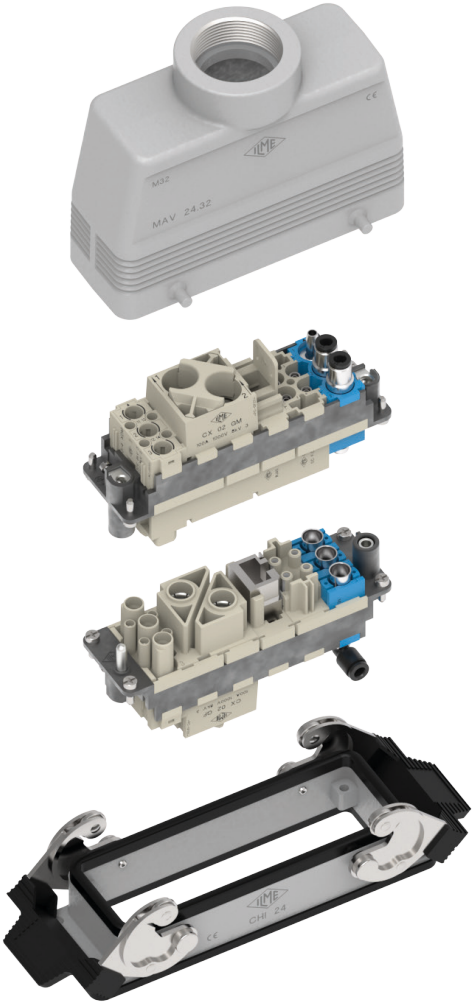


4



MIXO SERIES

GENERAL OVERVIEW



The MIXO series is a system of modular units for special applications that uses the traditional ILME enclosures.
Each enclosure can house different types of connections such as: electric signals and contacts for the conduction of compressed air with pressure values of up to 8 bars.

The inserts are arranged side by side to form a single **compact block** which is inserted into metallic frames with constrained positioning. Once the modules have been inserted and locked with the special tabs, the connector can be placed into the enclosure.

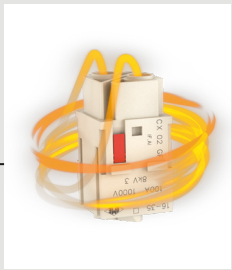
The modular system makes it easy to access a series of contacts inserted in the frame (e.g., for substitution, check or the addition of signals with new inserts for needs not foreseen during the initial installation) without having to disassemble the entire connector.

ILME MIXO series of modular connectors is an open connector system that provides versatile configuration to the users' individual requirements, giving the **freedom to assemble a customized connector** from a range of 66 modules for power electrical, data transmission, optical signals or air. The module range is continuously expanded, allowing new configurations to be realised.

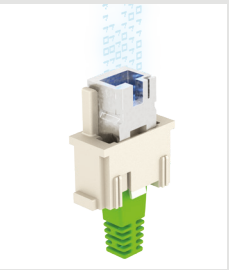
The use of enclosures provides the possibility of innumerable **applications.**

POWER/ SIGNAL

POWER



DATA TRANSMISSION

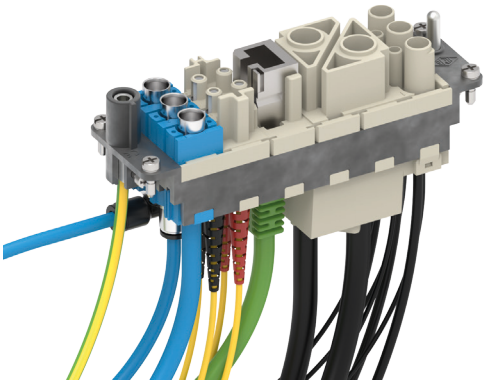


FIBRE OPTIC

PNEUMATIC

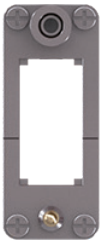
The MIXO series can be used with **5 different frame sizes:**

Frames	one or two-lever metallic enclosures
CX 01 T	size “49.16”
CX 02 TF/ TM	size “44.27”
CX 03 TF/ TM	size “57.27”
CX 04 TF/ TM	size “77.27”
CX 06 TF/ TM	size “104.27”
CX 04 TF/ TM (x 2)	size “77.62”
CX 06 TF/ TM (x 2)	size “104.62”



Single sized modules, where specified, can also be installed directly inside **MIXO ONE** enclosures.

CX 01 T
1 module



CX 02 TF/ TM
2 modules

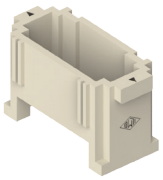
CX 03 TF/ TM
3 modules

CX 04 TF/ TM
4 modules

CX 06 TF/ TM
6 modules

Possibility – to be verified case-by-case – to use the recently added MIXO **HNM frames** (provided with special gold plated PE contacts) together with R series of crimp contacts and the relevant connector hoods and housings, to produce, where required, an **HNM connector** (High Number of Matings, up to 10 000 cycles of operation).

Fill the unused frame slots with CX FM dummy module



In addition, the MIXO series can be used with the **COB series panel supports.**

Frames	COB panel supports part No.	
CX 02 TF/ TM	fixed:	**COB 06 BC** and **COB TCQ**
	mobile:	**COB TSF**, **COB TSFS** and **COB 06 CMS**
CX 03 TF/ TM	fixed:	**COB 10 BC** and **COB TCQ**
	mobile:	**COB TSF**, **COB TSFS** and **COB 10 CMS**

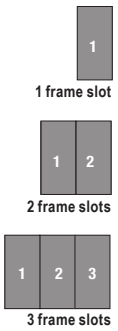
Frames	COB panel supports part No.	
CX 04 TF/ TM	fixed:	**COB 16 BC** and **COB TCQ**
	mobile:	**COB TSF**, **COB TSFS** and **COB 16 CMS**
CX 06 TF/ TM	fixed:	**COB 24 BC** and **COB TCQ**
	mobile:	**COB TSF**, **COB TSFS** and **COB 24 CMS**

THE COMPLETE RANGE

2022 products are marked with the symbol ✚.

Calculate the number of frame slots taken up by the required inserts (frame slot 1, 2 or 3 modules) and select the right frame according to the number of required modules (available 1, 2, 3, 4 and 6 modules).

Single sized modules, where specified, can also be installed directly inside **MIXO ONE** enclosures.

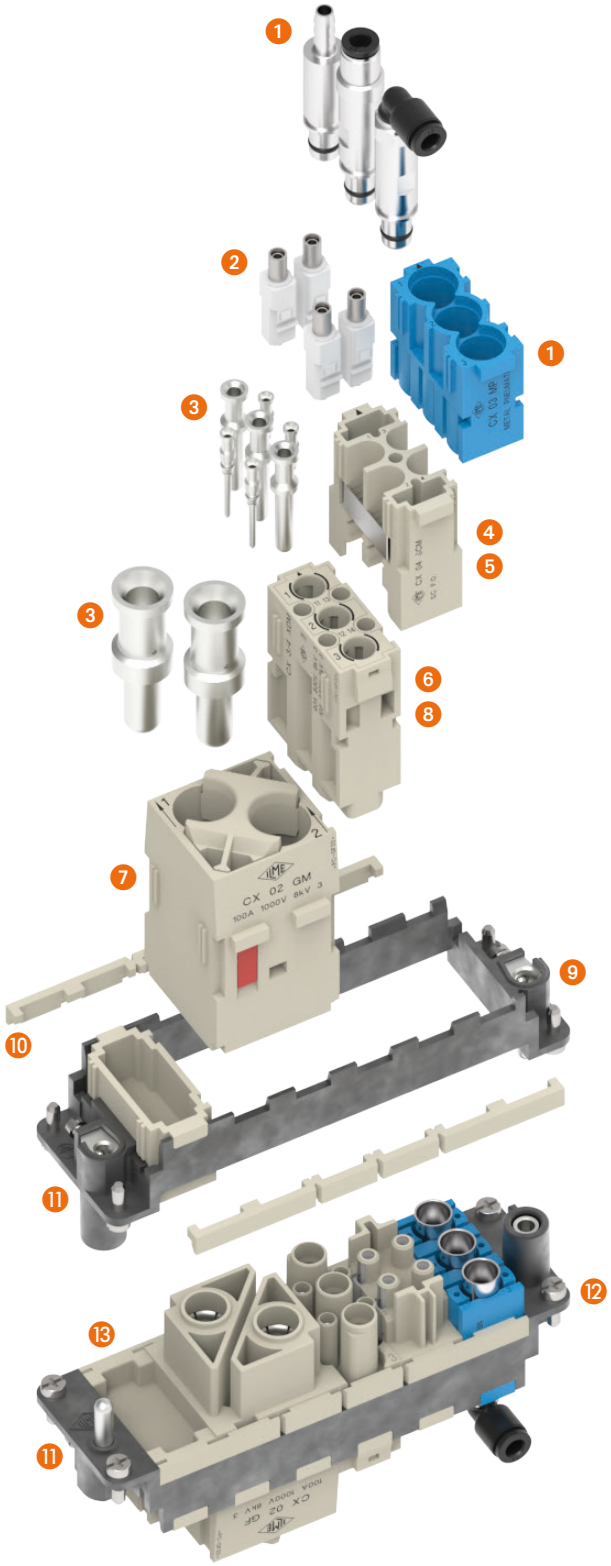


Inserts		Contact type	Signal type	Kind of connection	Rated current (A)	Rated voltage (V)	Number of frame slots
CX 01 YF/M		main	electric	crimp	200	1000	**2**
CX 01 YPEF/M		PE	—	crimp	200	—	**2**
✚ **CX 01 YAF/M**		**main**	**electric**	**90° screw**	**200**	**1000**	**2**
CX 01 GF/M		main	electric	crimp	100	830	**1**
CX 02 GF/M		main	electric	crimp	100	1000	**2**
CX 02 7F/M		main	electric	crimp	70	1000	**1**
CX 02 4AF/M		main	electric	axial screw	40	1000	**1**
CX 02 4BF/M		main	electric	axial screw	40	1000	**1**
CX 02 4F/M		main	electric	crimp	40	1000	**1**
CX 03 4F/M		main	electric	crimp	40	400/690	**1**
CX 03 4BF/BM		main	electric	crimp	40	500	**1**
CX 3/4 XDF/M		main / auxiliary	electric	crimp	40/10	830	**1**
CX 04 XF/M		main	electric	crimp	40	830	**1**
▲ **CX 05 SF/M**		main	electric	spring	16	400	**1**
CX 05 SHF/M		main	electric	SQUICH®-spring	16	400	**1**
CX 06 CF/M		main	electric	crimp	16	500	**1**
CX 06P CF/M		main	electric	crimp	16	830	**1**
CX 08 I6F/M		main + shield	electric	crimp	5	50	**1**
CX 08 I6GF/I6GM		main + shield	electric	crimp	5	50	**1**
RX 08 I6F/M	**HNM**	main + shield	electric	crimp	5	50	**1**
RX 08 I6GF/I6GM	**HNM**	main + shield	electric	crimp	5	50	**1**
CX 08 D5F/F2 M/M2		main + shield	electric	crimp	10	50	**1**
CX 08 D5GF/F2 GM/GM2		main + shield	electric	crimp	10	50	**1**
RX 08 D5F/F2 M/M2	**HNM**	main + shield	electric	crimp	10	50	**1**
RX 08 D5GF/F2 GM/GM2	**HNM**	main + shield	electric	crimp	10	50	**1**
CX 20 CF/M		main	electric	crimp	16	500	**2**
CX 12 DF/M		main / auxiliary	electric	crimp	10	250	**1**
CX 17 DF/M		main / auxiliary	electric	crimp	10	160	**1**
CX 42 DF/M		main / auxiliary	electric	crimp	10	150	**2**
CX 25 IBF/M		main / auxiliary	electric	crimp	4	50	**1**
▲ **CX 25 IF/M**		main / auxiliary	electric	crimp	4	50	**1**
CX 20S IF/M		main / auxiliary + shield	electric	crimp	4	32	**1**
CX 20S IGF/IGM		main / auxiliary + shield	electric	crimp	4	32	**1**
RX 20S IF/M	**HNM**	main / auxiliary + shield	electric	crimp	4	32	**1**
RX 20S IGF/IGM	**HNM**	main / auxiliary + shield	electric	crimp	4	32	**1**
CX 36 IF/M		main / auxiliary	electric	crimp	4	32	**1**
CX 02 CHF/M		main	electric	crimp	16	2500	**1**
CX 02 HF/M		main	electric	crimp	16	2900 / 5000	**2**
CX 02 4HF/M		main	electric	crimp	40	2900 / 5000	**2**
CX 02 BF/M		seat for two shielded connectors (refer to CX 04 B, CX 01 B, CX 01 BC, CX 08 B)					
CX 01 BCF/M		main / auxiliary + shield	electric	crimp	16	50	**—**
CX 01 BF/M		main / auxiliary + shield	electric	crimp	10	50	**—**
CX 04 BF/M		main / auxiliary + shield	electric	crimp	10	50	**—**
CX 08 BF/M		main / auxiliary + shield	electric	crimp	5	50	**—**
CX 03 P		pneumatic plastic Ø 1,6 - 3,0 - 4,0 mm	air	push-in	—	—	**1**
CX 03 MP		pneumatic metal Ø 3,0 - 4,0 - 6,0 mm	air	push-in / quick-fitting	—	—	**1**
CX 02 P		pneumatic plastic Ø 6,0 mm	air	push-in	—	—	**1**
CX FM		none (dummy module)	—	—	—	—	**1**
CX 01 J8F/M/IM		RJ45	electric	crimp / IDC	---	—	**1**
CX 01 J8AIF/BIF/PIF		RJ45 + shield	electric	IDC	1	50	**1**
CX 01 J8UM		RJ45	electric	IDC	—	—	**1**
CX 01 JF/M		RJ45 + auxiliary	electric	crimp	10	250	**2**
CX 02 JF/M		RJ45 + auxiliary	electric	crimp	10	250	**3**
CX 01 UF/M		USB	electric	—	—	—	**1**
CX 01 9VF/M		D-SUB	electric	crimp	5	50	**1**
CX 01 9VF2/M2		D-SUB + shield	electric	crimp	5	50	**1**
CX 01 9VTF		D-SUB	electric	screw	5	50	**1**
CX 01 MIF/MIM		HDMI	electric	—	—	—	**1**
CX 04 LF/M		POF / MOST	optic	crimp	—	—	**1**
CX 04 RF/M		coaxial	electric	crimp	—	—	**1**
CX 04 SCF/M		SC fibre optic	optic	crimp / glue	—	—	**1**

▲ Available upon request

TECHNICAL CHARACTERISTICS

1. Pneumatic contacts in metal (or plastic) with hose barb or quick-fitting connection.
2. Fibre optic contacts SC type.
3. Electric contacts in silver-plated or gold-plated brass with connections to the conductors via crimping, spring clamp or axial screw.
4. Modular inserts of identical size with insertion system for forming the complete module and frame lock tab.
5. Inserts in self-extinguishing thermoplastic material, reinforced with glass fibre, UL 94V-0 approved, with a working temperature range of -40 °C to +125 °C.
6. Inserts in conformance with the requirements of the EN 61984 standard and certified and marked with the UL, CSA, CQC, DNV-GL, BV, EAC marks.
7. Inserts with patented “swallowtails” to prevent incorrect coupling.
8. Position of contacts identified with numbers or codes on both sides of every insert.
9. Male/female module carrier frames with mandatory housings and polarity, in die-cast zinc alloy.
10. Module lock tab, may be divided according to the number of modules used; it guarantees a perfect stability of the modules during wiring and coupling/uncoupling of the connectors.
11. Asymmetric protective earth contacts (two per frame) with wide contact surface to prevent incorrect coupling; when two or more identical connectors of the MIXO series are used, coded pins may prevent incorrect coupling.
12. Captive frame fastening screws, with spring washer.
13. Dummy module for unused frame slots.



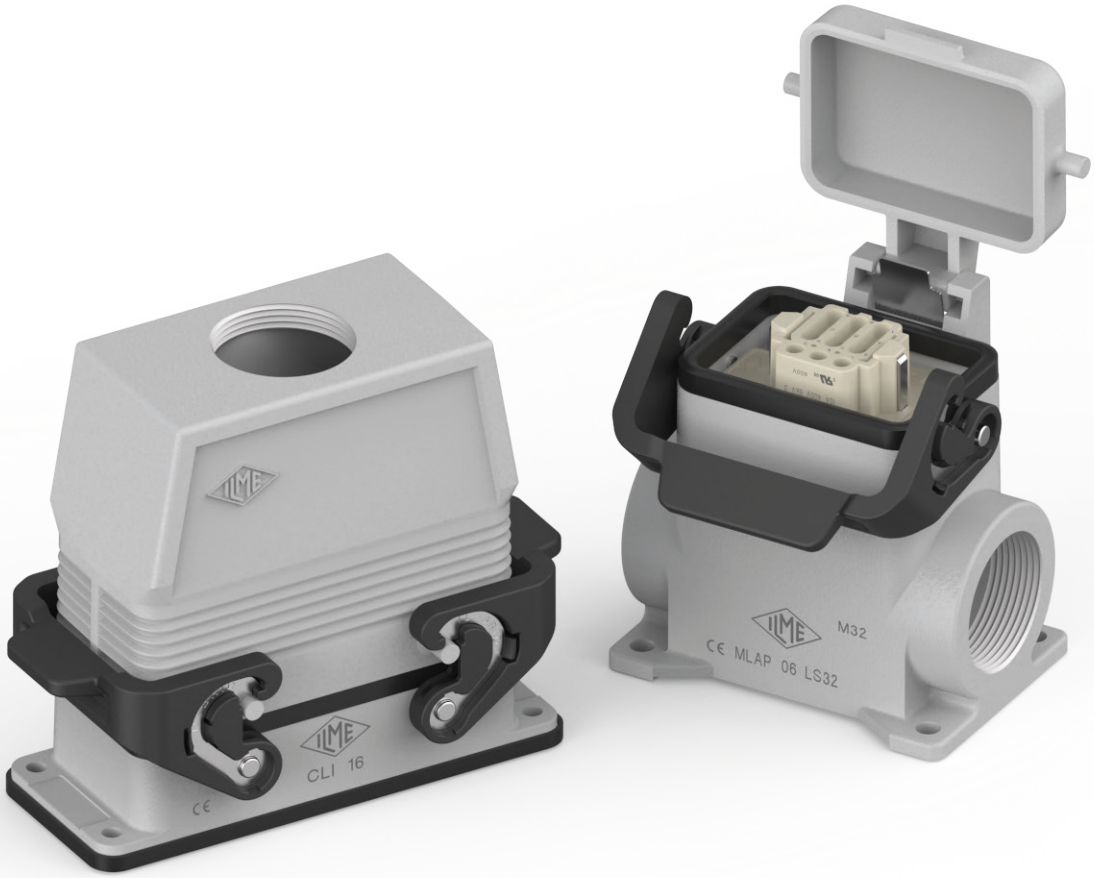
ADVANTAGES

- **Easy and user-friendly assembly of the complete multi-module insert before fixing it on the relevant sized metal frame;**
- **use of proprietary ILME technology providing each module with “swallowtails” (lateral keys/keyways), for reciprocal locking of modules and overall assembly of the insert into rigid (non hinged) frames with snap-in locking strips;**
- **faster and easier assembly compared with competitor solutions (easier handling of modules as a complete block than e.g. 6 independent parts);**
- **intermateability at “complete connector” (modules in frame) with other industry standard products;**
- **robust and long lasting prevailing crimp connection technology (largely preferred over screw type technology in high vibration and shock environments).**

Watch our
MIXO series Video

IL-BRID LOCKING LEVERS
For standard size enclosures

CL – ML



Proprietary design
with embedded stainless steel core
to protect industrial multipole
connections

Find out more
www.ilme.com

TECHNICAL FEATURES

Watch our technical clip

Specific industrial applications demand the design of equally customized connection solutions capable of covering each distinct installation requirement.

Among the enclosures' locking systems introduced by ILME in its product offer, the IL-BRID mechanism, a lever in thermoplastic material with a stainless-steel core, combines the technical characteristics of both these materials for durable but significantly low-wear design.

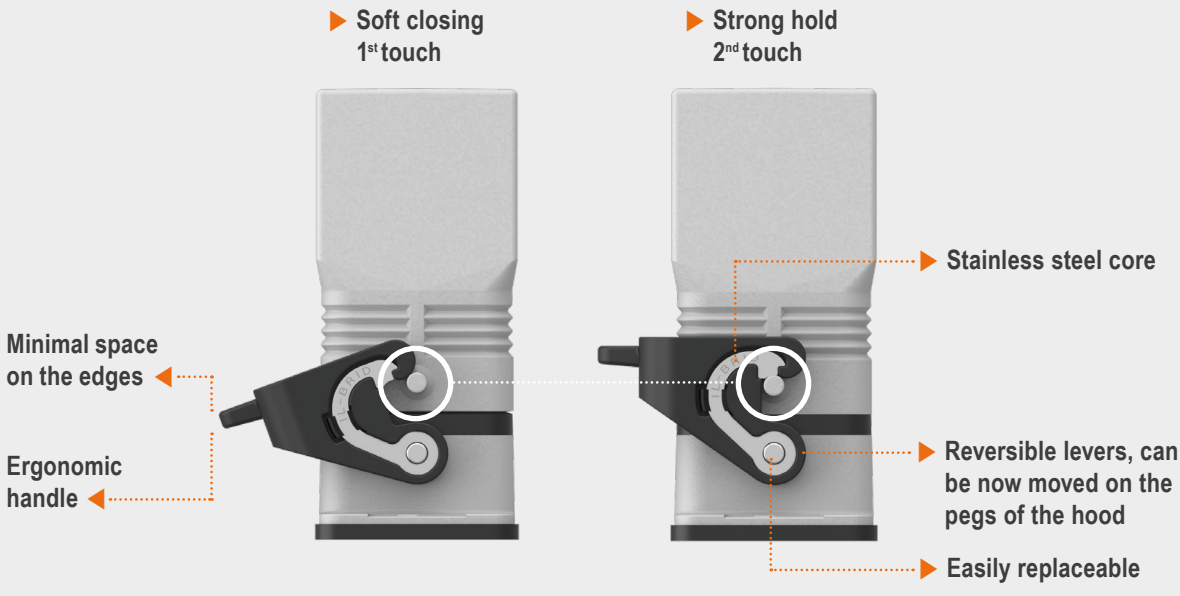
The **IL-BRID locking lever,** already introduced in the compact "CZ" and "MZ" size "49.16" and "66.16" enclosures series, is **now extended** to the whole ILME enclosures range for standard industrial applications, with the designation **"CL"** and **"ML"** in the bulkhead/surface mount housing or hood with lever versions, sizes "44.27", "57.27", "77.27" and "104.27".

The IL-BRID locking lever is **compatible** with the entire range of ILME enclosures with pegs (in single or double-lever configuration), offering an IP65 or IP66/IP69 degree of protection according to model.

The series, with standard metric M cable entries where forseen, is also available, upon request, **with Pg or NPT cable entries** (surface housing or hood with levers).

Main technical and functional characteristics:

- **locking lever** made of self-extinguishing thermoplastic material (UL approved) and stainless-steel core;
- **improved closing mechanism** with reduced wear on the pegs of the enclosure's counterpart;
- **proprietary, ergonomic handles design** for an easy opening and closing operation;
- **IP65 or IP66/IP69** degree of protection according to EN 60529 (depending on model);
- **reduced occupation** of space on the outer edges thanks to a curved design;
- **reversibility of the lever** in the bulkhead housing versions (the locking levers can be mounted on the counterpart hood).



CL – ML Standard version with IL-BRID levers

inserts		page:
CDD	24 poles + ⏚	**76**
CDS	9 poles + ⏚	**-**
CDSH	9 poles + ⏚	**86**
CDSH NC	6 poles + ⏚	**95**
CNE	6 poles + ⏚	**110**
CSE	6 poles + ⏚	**-**
CSH	6 poles + ⏚	**110**
CSH S	6 poles + ⏚	**122**
CCE	6 poles + ⏚	**130**
CSS	6 poles + ⏚	**148**
CT, CTSE (16A)*	6 poles + ⏚	**160**
CQE	10 poles + ⏚	**168**
MIXO	2 modules	**262 - 317**

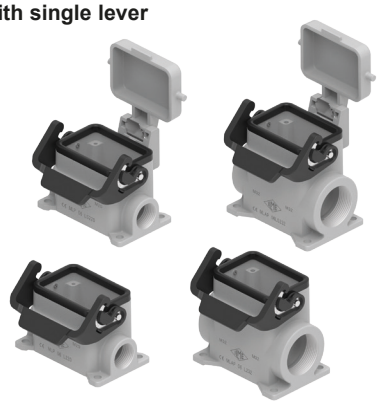
* can be used only in bulkhead mounting housings

refer to CN.19 pages

bulkhead mounting housings with single lever

FROM SEPTEMBER 2022

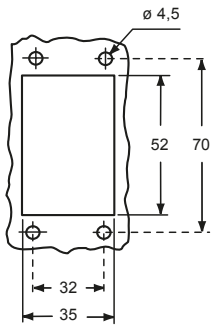
surface mounting housings with single lever



FROM SEPTEMBER 2022

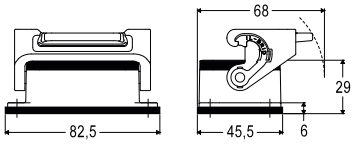
description	part No.	part No.	entry M
with lever	**CLI 06 L**		
with lever and cover	**CLI 06 LS**		
with lever		**MLP 06 L20**	20
with lever		**MLP 06 L220**	20 x 2
with lever, high construction		**MLAP 06 L25**	25
with lever, high construction		**MLAP 06 L225**	25 x 2
with lever, high construction		**MLAP 06 L32**	32
with lever, high construction		**MLAP 06 L232**	32 x 2
with lever, high construction		**MLAP 06 L40**	40
with lever, high construction		**MLAP 06 L240**	40 x 2
with lever and cover		**MLP 06 LS20**	20
with lever and cover		**MLP 06 LS220**	20 x 2
with lever and cover, high construction		**MLAP 06 LS32**	32
with lever and cover, high construction		**MLAP 06LS232**	32 x 2
with lever and cover, high construction		**MLAP 06 LS40**	40
with lever and cover, high construction		**MLAP 06LS240**	40 x 2

panel cut-out for bulkhead mounting housings

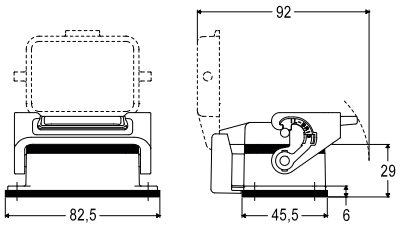


IMPORTANT NOTE: The enclosures ensure IP66/IP69 degree of protection (or IP65 for hinged cover versions) when mated and locked with the closing levers.

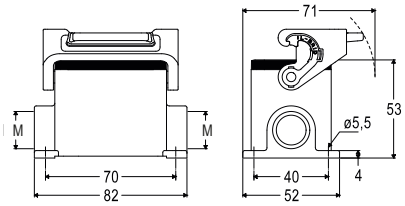
CLI 06 L ▲



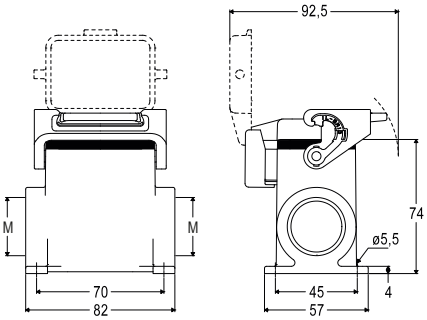
CLI 06 LS ●



MLP 06 L



MLAP 06 LS ●



cURus
Type 4/4X/12 pending
(except enclosures with plastic cover)

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

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

ML – MLA Standard version with IL-BRID levers

inserts		page:
CDD	24 poles + ⏚	76
CDS	9 poles + ⏚	-
CDSH	9 poles + ⏚	86
CDSH NC	6 poles + ⏚	95
CNE	6 poles + ⏚	110
CSE	6 poles + ⏚	-
CSH	6 poles + ⏚	110
CSH S	6 poles + ⏚	122
CCE	6 poles + ⏚	130
CSS	6 poles + ⏚	148
CQE	10 poles + ⏚	168
MIXO	2 modules	262 - 317

refer to CN.19 pages

hoods with 1 lever

FROM SEPTEMBER 2022

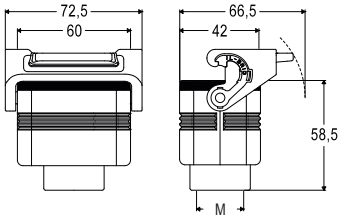
hoods with 1 lever
M40 cable entry with 20 mm thread length

FROM SEPTEMBER 2022

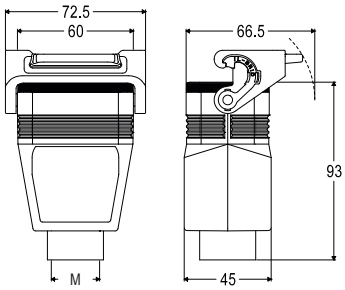
description	part No.	entry M	part No.	entry M
with lever, top entry	**MLV 06 LG25**	25		
with lever, top entry, high construction	**MLAV 06 LG25**	25		
with lever, top entry, high construction	**MLAV 06 LG32**	32		
with lever, side entry, high construction, without adapter [1]			**MLFO 06 LG40**	40
with lever, top entry, high construction, without adapter [1]	**MLFV 06 LG25**	25		
with lever, top entry, high construction, without adapter [1]	**MLFV 06 LG32**	32		
with lever, top entry, high construction, without adapter [1]	**MLFV 06 LG40**	40		

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

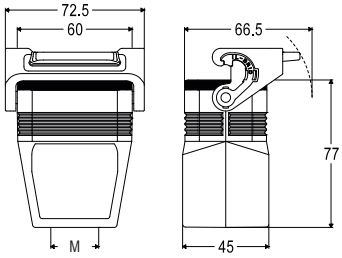
MLV 06 LG



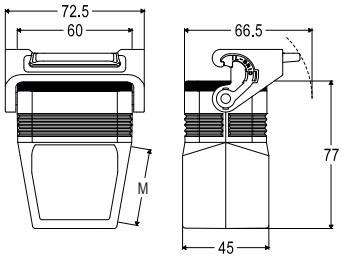
MLAV 06 LG



MLFV 06 LG



MLFO 06 LG



cURus
Type 4/4X/12 pending

IP65 insulating cable gland or fittings without gasket

IP66 IP69 cable gland with O-Ring gasket

CL – ML Standard version with IL-BRID levers

inserts		page:
CDD	42 poles + ⏚	**78**
CDS	18 poles + ⏚	**-**
CDSH	18 poles + ⏚	**87**
CNE	10 poles + ⏚	**111**
CSE	10 poles + ⏚	**-**
CSH	10 poles + ⏚	**111**
CSH S	10 poles + ⏚	**123**
CCE	10 poles + ⏚	**131**
CMSH	3+2 (aux) poles + ⏚	**136**
CMCE	3+2 (aux) poles + ⏚	**137**
CSS	10 poles + ⏚	**149**
CT, CTSE (16A)*	10 poles + ⏚	**161**
CQE	18 poles + ⏚	**169**
CX	8/24 poles + ⏚	**194**
MIXO	3 modules	**262 - 317**

* can be used only in bulkhead mounting housing

refer to CN.19 pages

bulkhead mounting housings with 2 levers

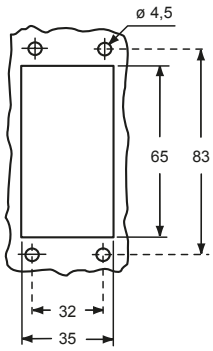
FROM SEPTEMBER 2022

surface mounting housings with 2 levers

FROM SEPTEMBER 2022

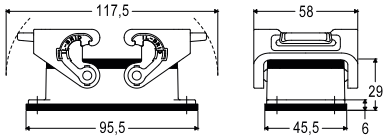
description	part No.	part No.	entry M
with levers	**CLI 10**		
with levers		**MLP 10.20**	20
with levers		**MLP 10.220**	20 x 2
with levers, high construction		**MLAP 10.25**	25
with levers, high construction		**MLAP 10.225**	25 x 2
with levers, high construction		**MLAP 10.32**	32
with levers, high construction		**MLAP 10.232**	32 x 2
with levers, high construction		**MLAP 10.40**	40
with levers, high construction		**MLAP 10.240**	40 x 2

panel cut-out for bulkhead mounting housings

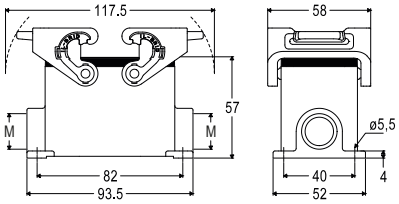


IMPORTANT NOTE: The enclosures ensure IP66/IP69 degree of protection (or IP65 for hinged cover versions) when mated and locked with the closing levers.

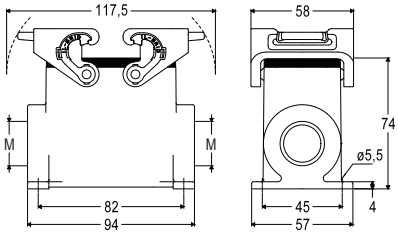
CLI 10 ▲



MLP 10.220



MLAP 10.225



cURus
Type 4/4X/12 pending

IP65 (EN 60529 / IEC 60529) insulating cable gland or fittings without gasket

IP66 IP69 (EN 60529 / IEC 60529) ▲ cable gland with O-Ring gasket

ML – MLA Standard version with IL-BRID levers

inserts		page:
CDD	42 poles + ⏚	**78**
CDS	18 poles + ⏚	**-**
CDSH	18 poles + ⏚	**87**
CNE	10 poles + ⏚	**111**
CSE	10 poles + ⏚	**-**
CSH	10 poles + ⏚	**111**
CSH S	10 poles + ⏚	**123**
CCE	10 poles + ⏚	**131**
CMSH	3+2 (aux) poles + ⏚	**136**
CMCE	3+2 (aux) poles + ⏚	**137**
CSS	10 poles + ⏚	**149**
CQE	18 poles + ⏚	**169**
CX	8/24 poles + ⏚	**194**
MIXO	3 modules	**262 - 317**

refer to CN.19 pages

hoods with 2 levers

FROM SEPTEMBER 2022

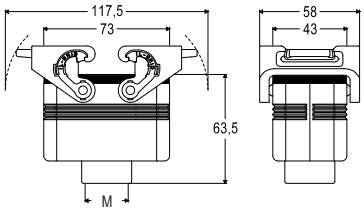
hoods with 2 lever
M40 cable entry with 20 mm thread length

FROM SEPTEMBER 2022

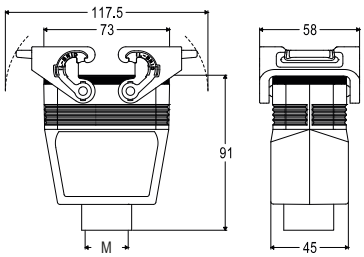
description	part No.	entry M	part No.	entry M
with levers, top entry	**MLV 10 G25**	25		
with levers, top entry, high construction	**MLAV 10 G25**	25		
with levers, top entry, high construction	**MLAV 10 G32**	32		
with levers, top entry, high construction	**MLAV 10 G40**	40		
with levers, side entry, high construction, without adapter [1]			**MLFO 10 G40**	40
with levers, top entry, high construction, without adapter [1]	**MLFV 10 G25**	25		
with levers, top entry, high construction, without adapter [1]	**MLFV 10 G32**	32		
with levers, top entry, high construction, without adapter [1]	**MLFV 10 G40**	40		

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

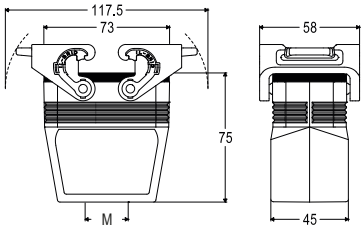
MLV 10 G



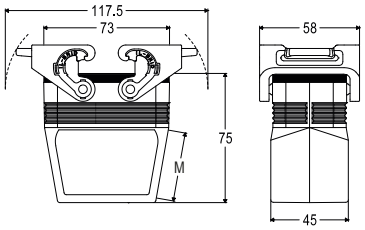
MLAV 10 G



MLFV 10 G



MLFO 10 G



cURus
Type 4/4X/12 pending

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

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

CL – ML Standard version with IL-BRID levers

inserts		page:
CD	40 poles + ⏚	**70**
CDD	72 poles + ⏚	**79**
CDS	27 poles + ⏚	**-**
CDSH	27 poles + ⏚	**88**
CNE	16 poles + ⏚	**112**
CSE	16 poles + ⏚	**-**
CSH	16 poles + ⏚	**112**
CSH S	16 poles + ⏚	**124**
CCE	16 poles + ⏚	**132**
CMSH, CMCE	6+2 (aux) poles + ⏚	**138 - 139**
CSS	16 poles + ⏚	**150**
CT, CTS (10A)*	40 poles + ⏚	**156**
CT, CTSE (16A)*	16 poles + ⏚	**162**
CQE	32 poles + ⏚	**170**
CQEE	40 poles + ⏚	**176**
CP	6 poles + ⏚	**178**
CX	6/12, 6/36 and 12/2 poles + ⏚	**197 - 199**
CX	4/0 and 4/2 poles + ⏚	**200 - 201**
MIXO	4 modules	**262 - 317**

* can be used only in bulkhead mounting housings

refer to CN.19 pages

bulkhead mounting housings with 2 levers

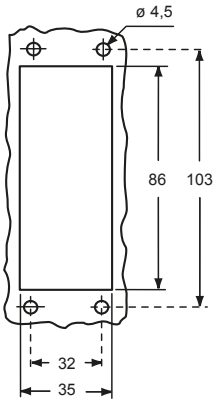
FROM SEPTEMBER 2022

surface mounting housings with 2 levers

FROM SEPTEMBER 2022

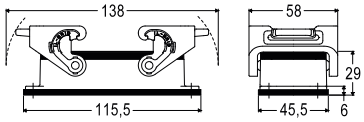
description	part No.	part No.	entry M
with levers	**CLI 16**		
with levers		**MLP 16.25**	25
with levers		**MLP 16.225**	25 x 2
with levers, high construction		**MLAP 16.25**	25
with levers, high construction		**MLAP 16.225**	25 x 2
with levers, high construction		**MLAP 16.32**	32
with levers, high construction		**MLAP 16.232**	32 x 2
with levers, high construction		**MLAP 16.40**	40
with levers, high construction		**MLAP 16.240**	40 x 2

panel cut-out for bulkhead mounting housings

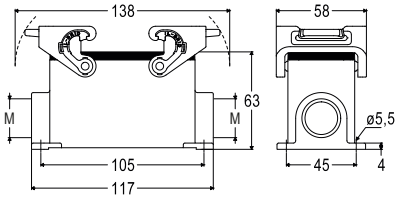


IMPORTANT NOTE: The enclosures ensure IP66/IP69 degree of protection (or IP65 for hinged cover versions) when mated and locked with the closing levers.

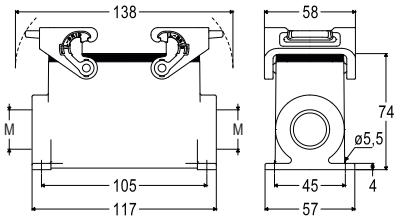
CLI 16 ▲



MLP 16



MLAP 16



cURus
Type 4/4X/12 pending

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

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

ML – MLA Standard version with IL-BRID levers

inserts		page:
CD	40 poles + ⏚	**70**
CDD	72 poles + ⏚	**79**
CDS	27 poles + ⏚	**-**
CDSH	27 poles + ⏚	**88**
CNE	16 poles + ⏚	**112**
CSE	16 poles + ⏚	**-**
CSH	16 poles + ⏚	**112**
CSH S	16 poles + ⏚	**124**
CCE	16 poles + ⏚	**132**
CMSH, CMCE	6+2 (aux) poles + ⏚	**138 - 139**
CSS	16 poles + ⏚	**150**
CQE	32 poles + ⏚	**170**
CQEE	40 poles + ⏚	**176**
CP	6 poles + ⏚	**178**
CX	6/12, 6/36 and 12/2 poles + ⏚	**197 - 199**
CX	4/0 and 4/2 poles + ⏚	**200 - 201**
MIXO	4 modules	**262 - 317**

refer to CN.19 pages

hoods with 2 levers

FROM SEPTEMBER 2022

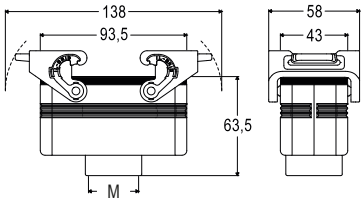
hoods with 2 lever
M40 cable entry with 20 mm thread length

FROM SEPTEMBER 2022

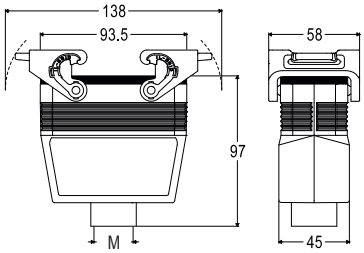
description	part No.	entry M	part No.	entry M
with levers, top entry	**MLV 16 G32**	32		
with levers, top entry, high construction	**MLAV 16 G25**	25		
with levers, top entry, high construction	**MLAV 16 G32**	32		
with levers, top entry, high construction	**MLAV 16 G40**	40		
with levers, side entry, high construction, without adapter [1]			**MLFO 16 G40**	40
with levers, top entry, high construction, without adapter [1]	**MLFV 16 G25**	25		
with levers, top entry, high construction, without adapter [1]	**MLFV 16 G32**	32		
with levers, top entry, high construction, without adapter [1]	**MLFV 16 G40**	40		

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

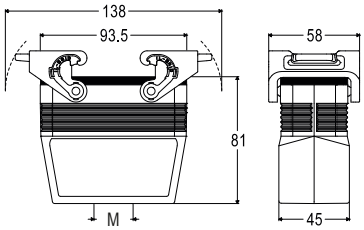
MLV 16 G



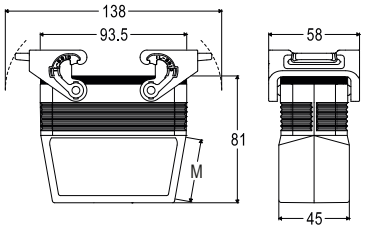
MLAV 16 G



MLFV 16 G



MLFO 16 G



cURus
Type 4/4X/12 pending

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

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

CL – ML Standard version with IL-BRID levers

inserts		page:
CD	64 poles + ⏚	**72**
CDD	108 poles + ⏚	**81**
CDS	42 poles + ⏚	**-**
CDSH	42 poles + ⏚	**89**
CNE	24 poles + ⏚	**113**
CSE	24 poles + ⏚	**-**
CSH	24 poles + ⏚	**113**
CSH S	24 poles + ⏚	**125**
CCE	24 poles + ⏚	**133**
CMSH	10+2 (aux) poles + ⏚	**140**
CMCE	10+2 (aux) poles + ⏚	**141**
CSS	24 poles + ⏚	**151**
CT, CTS (10A)*	64 poles + ⏚	**157**
CT, CTSE (16A)*	24 poles + ⏚	**163**
CQE	46 poles + ⏚	**171**
CQEE	64 poles + ⏚	**177**
CX	4/8 and 6/6 poles + ⏚	**204 and 206**
MIXO	6 modules	**262 - 317**

* can be used only in bulkhead mounting housings

refer to CN.19 pages

bulkhead mounting housings with 2 levers

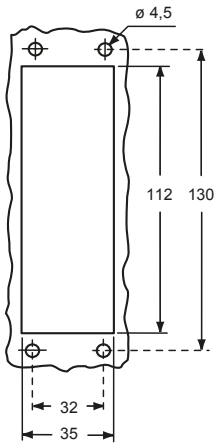
FROM SEPTEMBER 2022

surface mounting housings with 2 levers

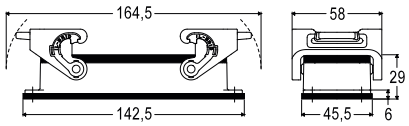
FROM SEPTEMBER 2022

description	part No.	part No.	entry M
with levers	**CLI 24**		
with levers		**MLP 24.25**	25
with levers		**MLP 24.225**	25 x 2
with levers, high construction		**MLAP 24.25**	25
with levers, high construction		**MLAP 24.225**	25 x 2
with levers, high construction		**MLAP 24.32**	32
with levers, high construction		**MLAP 24.232**	32 x 2
with levers, high construction		**MLAP 24.40**	40
with levers, high construction		**MLAP 24.240**	40 x 2

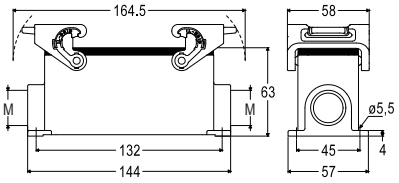
panel cut-out for bulkhead mounting housings



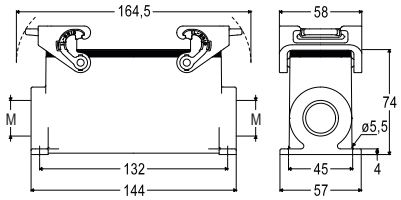
CLI 24 ▲



MLP 24



MLAP 24



IMPORTANT NOTE: The enclosures ensure IP66/IP69 degree of protection (or IP65 for hinged cover versions) when mated and locked with the closing levers.

cURus
Type 4/4X/12 pending

IP65 — insulating cable gland or fittings without gasket

IP66 IP69 ▲ — cable gland with O-Ring gasket

dimensions shown in mm are not binding and may be changed without notice

ML – MLA Standard version with IL-BRID levers

inserts		page:
CD	64 poles + ⏚	72
CDD	108 poles + ⏚	81
CDS	42 poles + ⏚	-
CDSH	42 poles + ⏚	89
CNE	24 poles + ⏚	113
CSE	24 poles + ⏚	-
CSH	24 poles + ⏚	113
CSH S	24 poles + ⏚	125
CCE	24 poles + ⏚	133
CMSH	10+2 (aux) poles + ⏚	140
CMCE	10+2 (aux) poles + ⏚	141
CSS	24 poles + ⏚	151
CQE	46 poles + ⏚	171
CQEE	64 poles + ⏚	177
CX	4/8 and 6/6 poles + ⏚	204 and 206
MIXO	6 modules	262 - 317

refer to CN.19 pages

hoods with 2 levers

FROM SEPTEMBER 2022

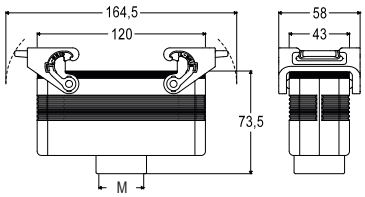
hoods with 2 lever
M40 cable entry with 20 mm thread length

FROM SEPTEMBER 2022

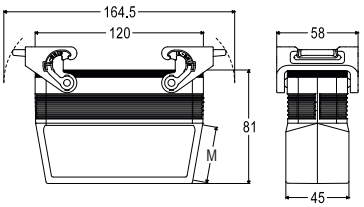
description	part No.	entry M	part No.	entry M
with levers, top entry	**MLV 24 G32**	32		
with levers, top entry, high construction	**MLAV 24 G25**	25		
with levers, top entry, high construction	**MLAV 24 G32**	32		
with levers, top entry, high construction	**MLAV 24 G40**	40		
with levers, side entry, high construction, without adapter [1]			**MLFO 24 G40**	40
with levers, top entry, high construction, without adapter [1]	**MLFV 24 G25**	25		
with levers, top entry, high construction, without adapter [1]	**MLFV 24 G32**	32		
with levers, top entry, high construction, without adapter [1]	**MLFV 24 G40**	40		

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

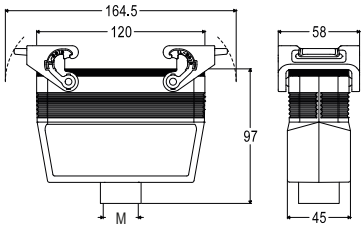
MLV 24 G



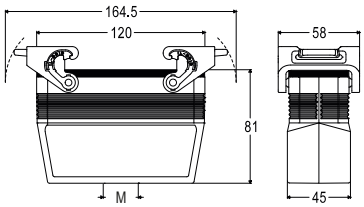
MLFO 24 G



MLAV 24 G



MLFV 24 G



cURus
Type 4/4X/12 pending

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

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

T-TYPE HYGIENIC

New, improved design for smoother locking levers and cleanproof logo

▶ New ILME-striped logo in high relief 0,15 mm thickness and rounded edges

▶ Levers with rounded edges, more compact design, improved ergonomics

Safety, detectability and cleaning for food contamination prevention

Find out more
www.ilme.com

TECHNICAL FEATURES

Watch our technical clip

The **T-TYPE HYGIENIC** series (T-TYPE /H and T-TYPE /C) enclosures have been **improved** in their design to enhance their cleanability, thus reducing the likeliness of providing seat for dirt.

This has been achieved by a overhaul design of their locking levers, keeping its **sturdiness** and impeccable **locking function,** still made with blue coloured thermoplastic insulating material qualified for contact with food and resistant to the most popular cleaning agents, now also **metal-detectable**, in the remote event - frankly quite unlikely - of loss of parts of said levers in the food.

The **new design** of the T-TYPE HYGIENIC locking levers is characterized by:

- a **"family air"** shared with the new IL-BRID locking levers for standard metallic connector enclosures (see previous pages);
- the **smoothening** of any recess;
- the **remodelling** of any part possibly retaining dirt;
- the keeping of utmost **ergonomics;**
- the achieving of significant **reduction** in footprint, during movement, particularly on the angles.

Additionally, the ILME-striped logo, signature trait of the T-TYPE series hoods, has become a **smoothed, only slightly high relief and clean proof sign,** guaranteeing an even more cleanable surface compared to the previous bas-relief version.

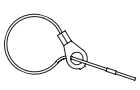
The ILME logo improvement regards all T-TYPE variants, including the standard type and the T-TYPE /W, all sharing the same hoods. **Part numbers remain unchanged.** Zip code will be announced by a dedicated Product Info (also for standard T-TYPE and T-TYPE /W).

In addition to the models described in detail in the following pages, all **surface mounting housings with both M cable entries opened** and all hoods and **housings with preassembled CR ... BPE protective earth jumpers** are available. See Table below for all part Nos.

Variants with preassembled **CR ... BPE** protective earth jumpers are available for **all series T-TYPE** hoods and housings, **including also standard types and T-TYPE /W**. Their part number is the same of base model plus **letter B** at the end, as shown – for T-TYPE HYGIENIC models only – in the table below.

			T-TYPE HYGIENIC /H		T-TYPE HYGIENIC Cold /C	
Size	**Cable outlet**	**Locking lever**	**part No.**	**part No.***	**part No.**	**part No.***
44.27	-	single	THIH 06 L	THIH 06 LB	THIC 06 L	THIC 06 LB
57.27	-	double	THIH 10	THIH 10 B	THIC 10	THIC 10 B
77.27	-		THIH 16	THIH 16 B	THIC 16	THIC 16 B
104.27	-		THIH 24	THIH 24 B	THIC 24	THIC 24 B
44.27	M25	single	TAPH 06 L25	TAPH 06L25B	TAPC 06 L25	TAPC 06L25B
	M32		TAPH 06 L32	TAPH 06L32B	TAPC 06 L32	TAPC 06L32B
	2xM25		TAPH 06 L225	TAPH06L225B	TAPC 06 L225	TAPC06L225B
	2xM32		TAPH 06 L232	TAPH06L232B	TAPC 06 L232	TAPC06L232B
57.27	M25	double	TAPH 10.25	TAPH 10.25B	TAPC 10.25	TAPC 10.25B
	M32		TAPH 10.32	TAPH 10.32B	TAPC 10.32	TAPC 10.32B
	2xM25		TAPH 10.225	TAPH10.225B	TAPC 10.225	TAPC10.225B
	2xM32		TAPH 10.232	TAPH10.232B	TAPC 10.232	TAPC10.232B
77.27	M32		TAPH 16.32	TAPH 16.32B	TAPC 16.32	TAPC 16.32B
	M40		TAPH 16.40	TAPH 16.40B	TAPC 16.40	TAPC 16.40B
	2xM32		TAPH 16.232	TAPH16.232B	TAPC 16.232	TAPC16.232B
	2xM40		TAPH 16.240	TAPH16.240B	TAPC 16.240	TAPC16.240B
104.27	M32		TAPH 24.32	TAPH 24.32B	TAPC 24.32	TAPC 24.32B
	M40		TAPH 24.40	TAPH 24.40B	TAPC 24.40	TAPC 24.40B
	2xM32		TAPH 24.232	TAPH24.232B	TAPC 24.232	TAPC24.232B
	2xM40		TAPH 24.240	TAPH24.240B	TAPC 24.240	TAPC24.240B
44.27	M25	single	TAVH 06 LG25	TAVH06LG25B	TAVC 06 LG25	TAVC06LG25B
	M32		TAVH 06 LG32	TAVH06LG32B	TAVC 06 LG32	TAVC06LG32B
57.27	M25	double	TAVH 10 G25	TAVH 10G25B	TAVC 10 G25	TAVC 10G25B
	M32		TAVH 10 G32	TAVH 10G32B	TAVC 10 G32	TAVC 10G32B
77.27	M32		TAVH 16 G32	TAVH 16G32B	TAVC 16 G32	TAVC 16G32B
	M40		TAVH 16 G40	TAVH 16G40B	TAVC 16 G40	TAVC 16G40B
104.27	M32		TAVH 24 G32	TAVH 24G32B	TAVC 24 G32	TAVC 24G32B
	M40		TAVH 24 G40	TAVH 24G40B	TAVC 24 G40	TAVC 24G40B

* Enclosures with protective earth jumpers CR...BPE preassembled with part No. of base model plus **letter B** at the end.

			Covers for T-TYPE HYGIENIC	Covers for T-TYPE HYGIENIC Cold
Size	**With loop**	**Locking lever**	**part No.**	**part No.**
44.27		single	THCH 06 LG	THCC 06 LG
57.27		double	THCH 10 G	THCC 10 G
77.27			THCH 16 G	THCC 16 G
104.27			THCH 24 G	THCC 24 G

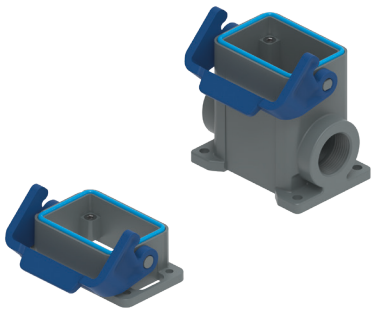
T-TYPE / H for production lines HYGIENIC SERIES

inserts		page:
CDD	24 poles + ⏚	**76**
CDS	9 poles + ⏚	**-**
CDSH	9 poles + ⏚	**86**
CDSH NC	6 poles + ⏚	**95**
CNE	6 poles + ⏚	**110**
CSE	6 poles + ⏚	**-**
CSH	6 poles + ⏚	**110**
CSH S	6 poles + ⏚	**122**
CCE	6 poles + ⏚	**130**
CSS	6 poles + ⏚	**148**
CT, CTSE (16 A)*	6 poles + ⏚	**160**
CQE	10 poles + ⏚	**168**
MIXO	2 modules	**262 - 317**

* only for standard insulating version THIH

refer to CN.19 pages

housings with single lever
HNBR gasket



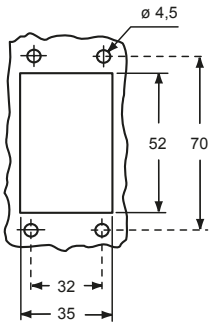
FROM JULY 2022

hoods with 2 pegs

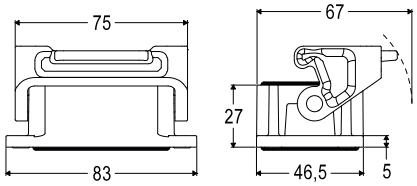
FROM JULY 2022

description	part No.	entry M	part No.	entry M
bulkhead mounting housing with thermoplastic lever	**THIH 06 L**			
surface mounting housing with thermoplastic lever, high construction	**TAPH 06 L25**	25		
surface mounting housing with thermoplastic lever, high construction	**TAPH 06 L32**	32		
with pegs, side entry, high construction			**TMAO 06 L25**	25
with pegs, side entry, high construction			**TMAO 06 L32**	32
with pegs, top entry, high construction			**TMAV 06 L25**	25
with pegs, top entry, high construction			**TMAV 06 L32**	32

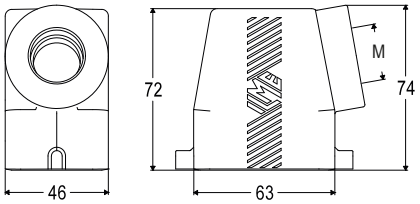
panel cut-out for bulkhead mounting housings



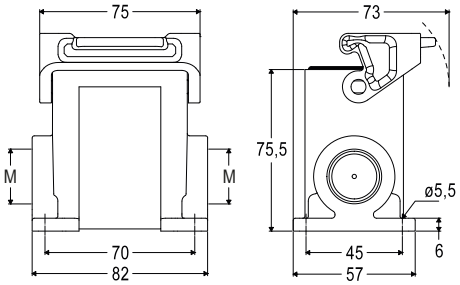
THIH L



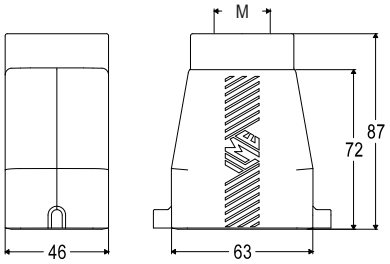
TMAO L



TAPH L



TMAV L



(•) The surface mounting, high construction housings are supplied with an open threaded entry (•) and diametrically opposite a closed threaded entry which can be opened by the user if required (with suitable tool).

cURus
Type 12 pending

EN 60529 IP66 IP69 IEC 60529 ambient temperature limits -40 °C / +70 °C

T-TYPE / H for production lines HYGIENIC SERIES

inserts		page:
CDD	24 poles + ⏚	**76**
CDS	9 poles + ⏚	**-**
CDSH	9 poles + ⏚	**86**
CDSH NC	6 poles + ⏚	**95**
CNE	6 poles + ⏚	**110**
CSE	6 poles + ⏚	**-**
CSH	6 poles + ⏚	**110**
CSH S	6 poles + ⏚	**122**
CCE	6 poles + ⏚	**130**
CSS	6 poles + ⏚	**148**
CT, CTSE (16 A)*	6 poles + ⏚	**160**
CQE	10 poles + ⏚	**168**
MIXO	2 modules	**262 - 317**

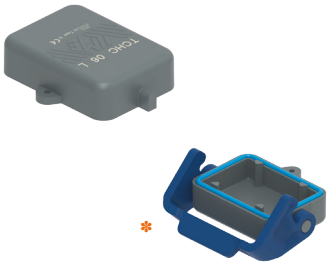
* only for standard insulating version TCHC

refer to CN.19 pages

hoods with single lever top entry, HNBR gasket

FROM JULY 2022

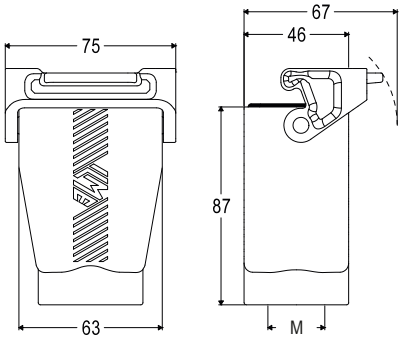
covers HNBR gasket



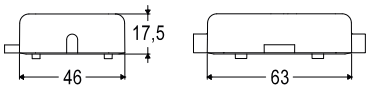
FROM JULY 2022*

description	part No.	entry M	part No. (with eyelet)	part No. (with loop)
with thermoplastic lever and gasket, high construction	**TAVH 06 LG25**	25		
with thermoplastic lever and gasket, high construction	**TAVH 06 LG32**	32		
with pegs			**TCHC 06 L**	**TCHC 06 SL**
with thermoplastic lever and gasket				**THCH 06 LG** *

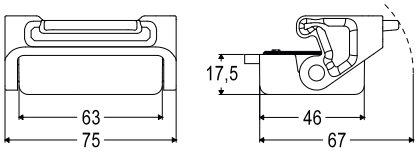
TAVH LG



TCHC L (SL)

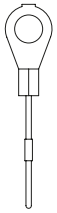


THCH LG



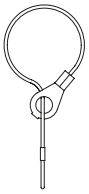
For fixing on housings

eyelet



For fixing on hoods

loop



cURus
Type 12 pending

IP66 IP69 EN 60529 IEC 60529 ambient temperature limits -40 °C / +70 °C

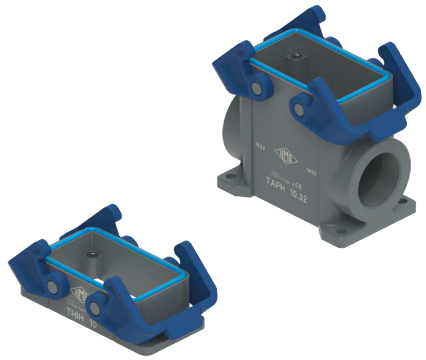
T-TYPE / H for production lines HYGIENIC SERIES

inserts		page:
CDD	42 poles + ⏚	**78**
CDS	18 poles + ⏚	**-**
CDSH	18 poles + ⏚	**87**
CNE	10 poles + ⏚	**111**
CSE	10 poles + ⏚	**-**
CSH	10 poles + ⏚	**111**
CSH S	10 poles + ⏚	**123**
CCE	10 poles + ⏚	**131**
CMSH	3+2 (aux) poles + ⏚	**136**
CMCE	3+2 (aux) poles + ⏚	**137**
CSS	10 poles + ⏚	**149**
CT, CTSE (16 A)*	10 poles + ⏚	**161**
CQE	18 poles + ⏚	**169**
CX	8/24 poles + ⏚	**194**
MIXO	3 modules	**262 - 317**

* only for standard insulating version THIH

refer to CN.19 pages

housings with 2 levers
HNBR gasket



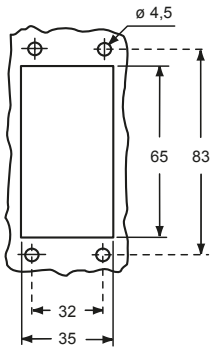
FROM JULY 2022

hoods with 4 pegs

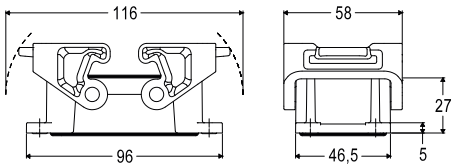
FROM JULY 2022

description	part No.	entry M	part No.	entry M
bulkhead mounting housing with thermoplastic levers	**THIH 10**			
surface mounting housing, thermoplastic levers, high construction	**TAPH 10.25**	25		
surface mounting housing, thermoplastic levers, high construction	**TAPH 10.32**	32		
with pegs, side entry, high construction			**TMAO 10.25**	25
with pegs, side entry, high construction			**TMAO 10.32**	32
with pegs, top entry, high construction			**TMAV 10.25**	25
with pegs, top entry, high construction			**TMAV 10.32**	32

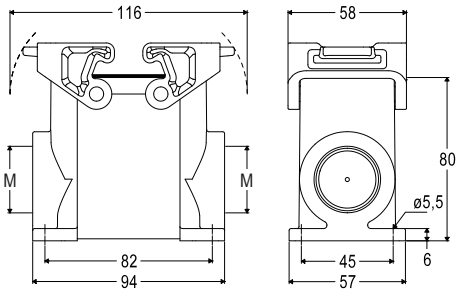
panel cut-out for bulkhead mounting housings



THIH

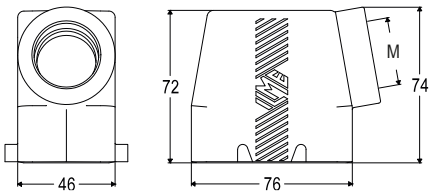


TAPH

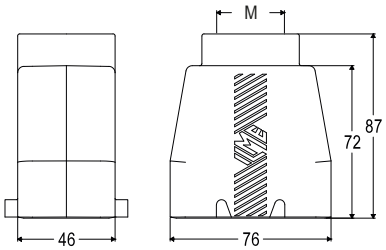


The surface mounting, high construction housings are supplied with an open threaded entry and diametrically opposite a closed threaded entry which can be opened by the user if required (with suitable tool).

TMAO



TMAV



cURus
Type 12 pending

IP66 IP69 EN 60529 IEC 60529 ambient temperature limits -40 °C / +70 °C

T-TYPE / H for production lines HYGIENIC SERIES

inserts		page:
CDD	42 poles + ⏚	**78**
CDS	18 poles + ⏚	**-**
CDSH	18 poles + ⏚	**87**
CNE	10 poles + ⏚	**111**
CSE	10 poles + ⏚	**-**
CSH	10 poles + ⏚	**111**
CSH S	10 poles + ⏚	**123**
CCE	10 poles + ⏚	**131**
CMSH	3+2 (aux) poles + ⏚	**136**
CMCE	3+2 (aux) poles + ⏚	**137**
CSS	10 poles + ⏚	**149**
CT, CTSE (16 A)*	10 poles + ⏚	**161**
CQE	18 poles + ⏚	**169**
CX	8/24 poles + ⏚	**194**
MIXO	3 modules	**262 - 317**

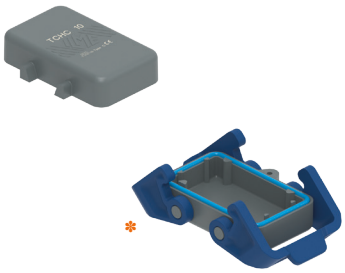
* only for standard insulating version TCHC

refer to CN.19 pages

hoods with 2 levers
top entry, HNBR gasket

FROM JULY 2022

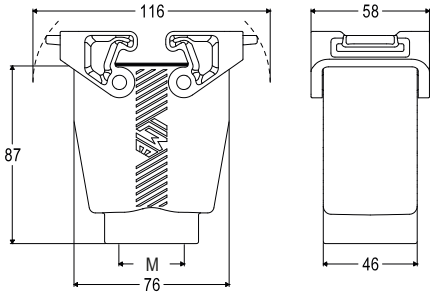
covers
HNBR gasket



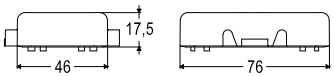
FROM JULY 2022*

description	part No.	entry M	part No. (with eyelet)	part No. (with loop)
with thermoplastic levers and gasket, high construction	**TAVH 10 G25**	25		
with thermoplastic levers and gasket, high construction	**TAVH 10 G32**	32		
with 4 pegs			**TCHC 10**	**TCHC 10 S**
with 2 thermoplastic levers and gasket				**THCH 10 G** *

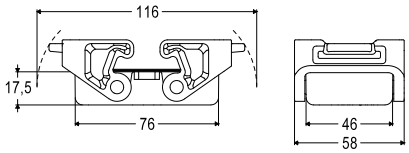
TAVH G



TCHC (S)



THCH G

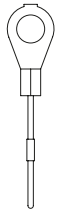


cURus
Type 12 pending

ambient temperature limits -40 °C / +70 °C

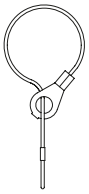
For fixing on housings

eyelet



For fixing on hoods

loop



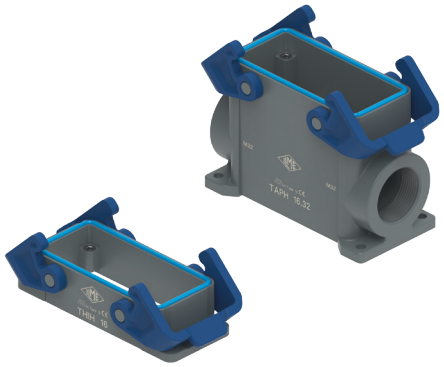
T-TYPE / H for production lines HYGIENIC SERIES

inserts		page:
CD	40 poles + ⏚	**70**
CDD	72 poles + ⏚	**79**
CDS	27 poles + ⏚	**-**
CDSH	27 poles + ⏚	**88**
CNE	16 poles + ⏚	**112**
CSE	16 poles + ⏚	**-**
CSH	16 poles + ⏚	**112**
CSH S	16 poles + ⏚	**124**
CCE	16 poles + ⏚	**132**
CMSH, CMCE	6+2 (aux) poles + ⏚	**138 - 139**
CSS	16 poles + ⏚	**150**
CT, CTSE (16 A)*	16 poles + ⏚	**162**
CQE	32 poles + ⏚	**170**
CQEE	40 poles + ⏚	**176**
CP	6 poles + ⏚	**178**
CX	6/12, 6/36 and 12/2 poles + ⏚	**197 - 199**
CX	4/0 and 4/2 poles + ⏚	**200 - 201**

* only for standard insulating version THIH

refer to CN.19 pages

housings with 2 levers
HNBR gasket



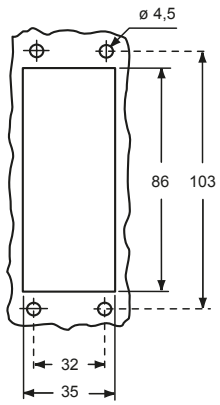
FROM JULY 2022

hoods with 4 pegs

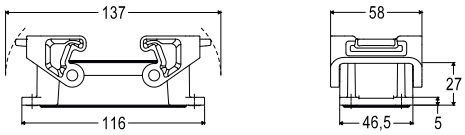
FROM JULY 2022

description	part No.	entry M	part No.	entry M
bulkhead mounting housing with thermoplastic levers	**THIH 16**			
surface mounting housing, thermoplastic levers, high construction	**TAPH 16.32**	32		
surface mounting housing, thermoplastic levers, high construction	**TAPH 16.40**	40		
with pegs, side entry, high construction			**TMAO 16.32**	32
with pegs, side entry, high construction			**TMAO 16.40**	40
with pegs, top entry, high construction			**TMAV 16.32**	32
with pegs, top entry, high construction			**TMAV 16.40**	40

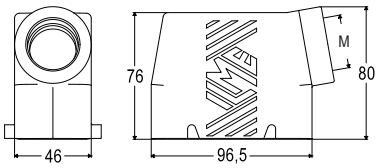
panel cut-out for bulkhead mounting housings



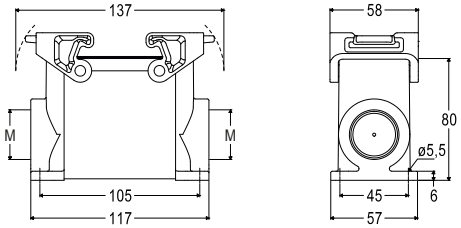
THIH



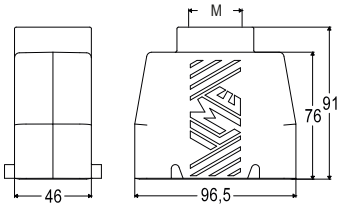
TMAO



TAPH



TMAV



The surface mounting, high construction housings are supplied with an open threaded entry and diametrically opposite a closed threaded entry which can be opened by the user if required (with suitable tool).

cURus
Type 12 pending

EN 60529 IP66 IP69 IEC 60529 ambient temperature limits -40 °C / +70 °C

T-TYPE / H for production lines HYGIENIC SERIES

inserts		page:
CD	40 poles + ⏚	**70**
CDD	72 poles + ⏚	**79**
CDS	27 poles + ⏚	**-**
CDSH	27 poles + ⏚	**88**
CNE	16 poles + ⏚	**112**
CSE	16 poles + ⏚	**-**
CSH	16 poles + ⏚	**112**
CSH S	16 poles + ⏚	**124**
CCE	16 poles + ⏚	**132**
CMSH, CMCE	6+2 (aux) poles + ⏚	**138 - 139**
CSS	16 poles + ⏚	**150**
CT, CTSE (16 A)*	16 poles + ⏚	**162**
CQE	32 poles + ⏚	**170**
CQEE	40 poles + ⏚	**176**
CP	6 poles + ⏚	**178**
CX	6/12, 6/36 and 12/2 poles + ⏚	**197 - 199**
CX	4/0 and 4/2 poles + ⏚	**200 - 201**

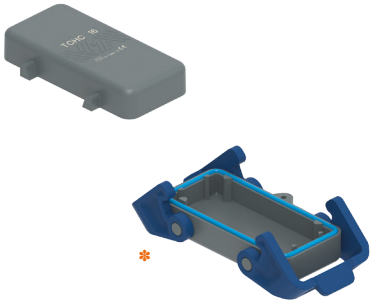
* only for standard insulating version TCHc

refer to CN.19 pages

hoods with 2 levers
top entry, HNBR gasket

FROM JULY 2022

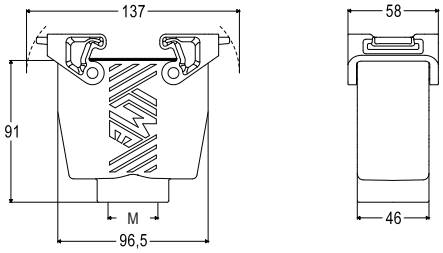
covers
HNBR gasket



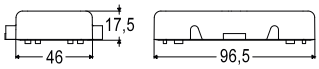
FROM JULY 2022*

description	part No.	entry M	part No. (with eyelet)	part No. (with loop)
with thermoplastic levers and gasket, high construction	**TAVH 16 G32**	32		
with thermoplastic levers and gasket, high construction	**TAVH 16 G40**	40		
with 4 pegs			**TCHC 16**	**TCHC 16 S**
with 2 thermoplastic levers and gasket				**THCH 16 G** *

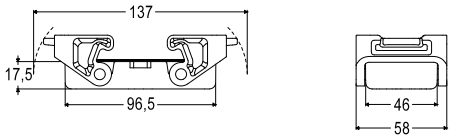
TAVH G



TCHC (S)

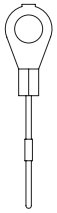


THCH G



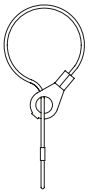
For fixing on housings

eyelet



For fixing on hoods

loop



cURus
Type 12 pending

IP66 IP69 EN 60529 IEC 60529 ambient temperature limits -40 °C / +70 °C

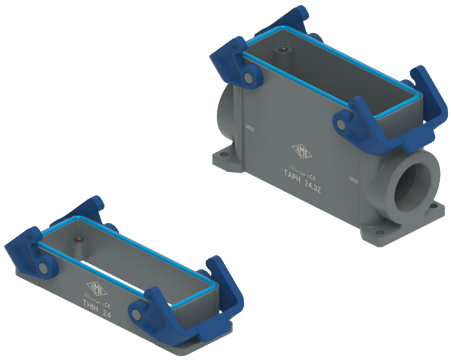
T-TYPE / H for production lines HYGIENIC SERIES

inserts		page:
CD	64 poles + ⏚	**72**
CDD	108 poles + ⏚	**81**
CDS	42 poles + ⏚	**-**
CDSH	42 poles + ⏚	**89**
CNE	24 poles + ⏚	**113**
CSE	24 poles + ⏚	**-**
CSH	24 poles + ⏚	**113**
CSH S	24 poles + ⏚	**125**
CCE	24 poles + ⏚	**133**
CMSH	10+2 (aux) poles + ⏚	**140**
CMCE	10+2 (aux) poles + ⏚	**141**
CSS	24 poles + ⏚	**151**
CT, CTSE (16 A)*	24 poles + ⏚	**163**
CQE	46 poles + ⏚	**171**
CQEE	64 poles + ⏚	**177**
CX	4/8 and 6/6 poles + ⏚	**204, 206**
MIXO	6 modules	**262 - 317**

* only for standard insulating version THIH

refer to CN.19 pages

housings with 2 levers
HNBR gasket



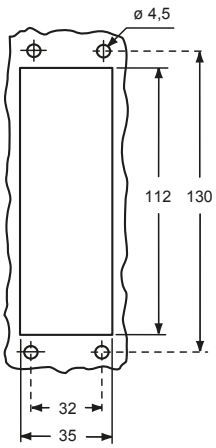
FROM JULY 2022

hoods with 4 pegs

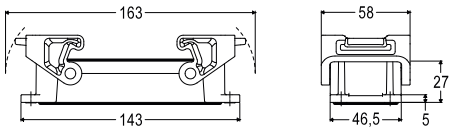
FROM JULY 2022

description	part No.	entry M	part No.	entry M
bulkhead mounting housing with thermoplastic levers	**THIH 24**			
surface mounting housing, thermoplastic levers, high construction	**TAPH 24.32**	32		
surface mounting housing, thermoplastic levers, high construction	**TAPH 24.40**	40		
with pegs, side entry, high construction			**TMAO 24.32**	32
with pegs, side entry, high construction			**TMAO 24.40**	40
with pegs, top entry, high construction			**TMAV 24.32**	32
with pegs, top entry, high construction			**TMAV 24.40**	40

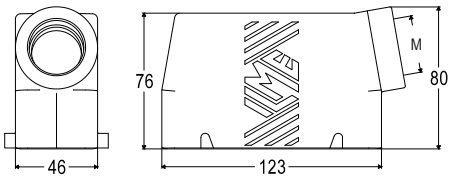
panel cut-out for bulkhead mounting housings



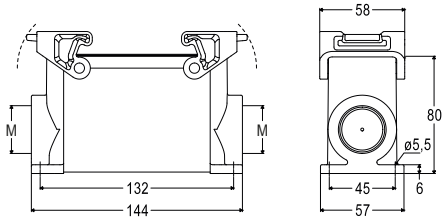
THIH



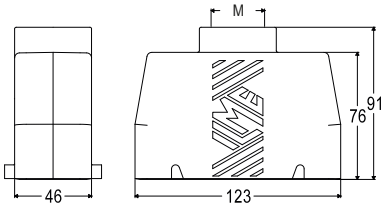
TMAO



TAPH



TMAV



The surface mounting, high construction housings are supplied with an open threaded entry and diametrically opposite a closed threaded entry which can be opened by the user if required (with suitable tool).

cURus
Type 12 pending

IP66 IP69 EN 60529 IEC 60529 ambient temperature limits -40 °C / +70 °C

T-TYPE / H for production lines HYGIENIC SERIES

inserts		page:
CD	64 poles + ⏚	**72**
CDD	108 poles + ⏚	**81**
CDS	42 poles + ⏚	**-**
CDSH	42 poles + ⏚	**89**
CNE	24 poles + ⏚	**113**
CSE	24 poles + ⏚	**-**
CSH	24 poles + ⏚	**113**
CSH S	24 poles + ⏚	**125**
CCE	24 poles + ⏚	**133**
CMSH	10+2 (aux) poles + ⏚	**140**
CMCE	10+2 (aux) poles + ⏚	**141**
CSS	24 poles + ⏚	**151**
CT, CTSE (16 A)*	24 poles + ⏚	**163**
CQE	46 poles + ⏚	**171**
CQEE	64 poles + ⏚	**177**
CX	4/8 and 6/6 poles + ⏚	**204, 206**
MIXO	6 modules	**262 - 317**

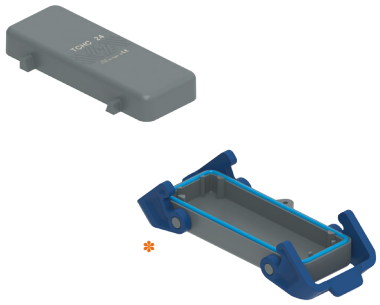
* only for standard insulating version TCHC

refer to CN.19 pages

hoods with 2 levers
top entry, HNBR gasket

FROM JULY 2022

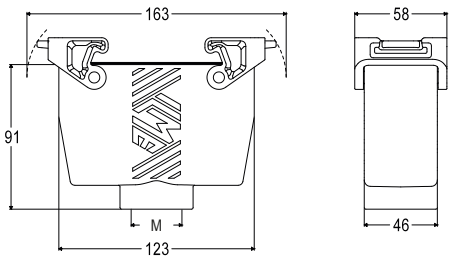
covers
HNBR gasket



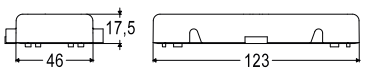
FROM JULY 2022*

description	part No.	entry M	part No. (with eyelet)	part No. (with loop)
with thermoplastic levers and gasket, high construction	**TAVH 24 G32**	32		
with thermoplastic levers and gasket, high construction	**TAVH 24 G40**	40		
with 4 pegs			**TCHC 24**	**TCHC 24 S**
with 2 thermoplastic levers and gasket				**THCH 24 G** *

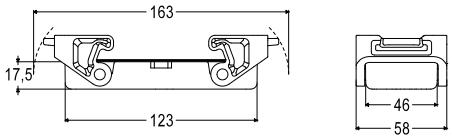
TAVH G



TCHC (S)



THCH G

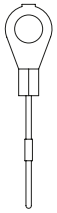


cURus
Type 12 pending

ambient temperature limits -40 °C / +70 °C

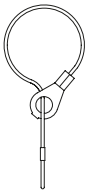
For fixing on housings

eyelet



For fixing on hoods

loop



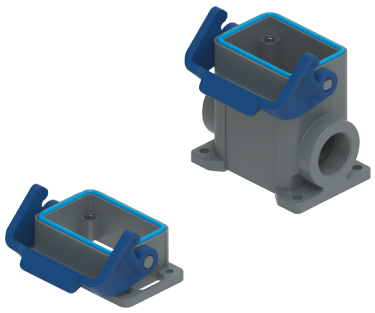
T-TYPE / C for low-temperature HYGIENIC SERIES

inserts		page:
CDD	24 poles + ⏚	**76**
CDS	9 poles + ⏚	**-**
CDSH	9 poles + ⏚	**86**
CDSH NC	6 poles + ⏚	**95**
CNE	6 poles + ⏚	**110**
CSE	6 poles + ⏚	**-**
CSH	6 poles + ⏚	**110**
CSH S	6 poles + ⏚	**122**
CCE	6 poles + ⏚	**130**
CSS	6 poles + ⏚	**148**
CT, CTSE (16 A)*	6 poles + ⏚	**160**
CQE	10 poles + ⏚	**168**
MIXO	2 modules	**262 - 317**

* only for standard insulating version THIH

refer to CN.19 pages

housings with 2 levers
SILICONE gasket



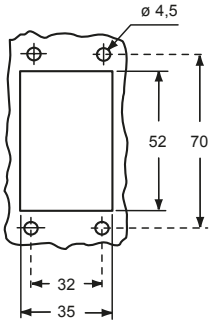
FROM JULY 2022

hoods with 4 pegs

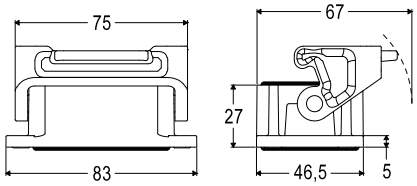
FROM JULY 2022

description	part No.	entry M	part No.	entry M
bulkhead mounting housing with thermoplastic lever	**THIC 06 L**			
surface mounting housing with thermoplastic lever, high construction	**TAPC 06 L25**	25		
surface mounting housing with thermoplastic lever, high construction	**TAPC 06 L32**	32		
with pegs, side entry, high construction			**TMAO 06 L25**	25
with pegs, side entry, high construction			**TMAO 06 L32**	32
with pegs, top entry, high construction			**TMAV 06 L25**	25
with pegs, top entry, high construction			**TMAV 06 L32**	32

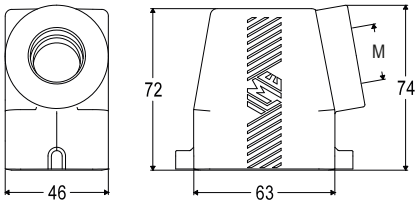
panel cut-out for bulkhead mounting housings



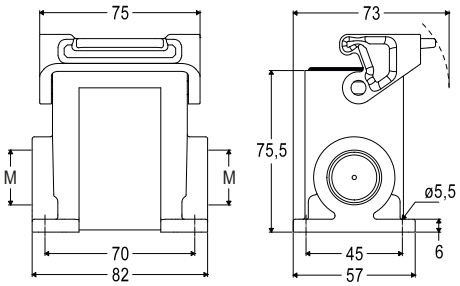
THIC L



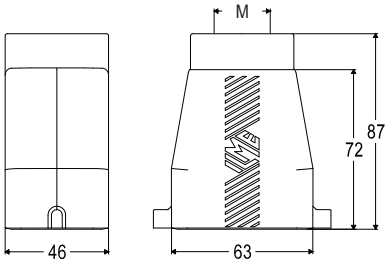
TMAO L



TAPC L



TMAV L



(•) The surface mounting, high construction housings are supplied with an open threaded entry (•) and diametrically opposite a closed threaded entry which can be opened by the user if required (with suitable tool).

cURus
Type 12 pending

EN 60529 IP66 IP69 IEC 60529 ambient temperature limits -50 °C / +70 °C

T-TYPE / C for low-temperature HYGIENIC SERIES

inserts		page:
CDD	24 poles + ⏚	**76**
CDS	9 poles + ⏚	**-**
CDSH	9 poles + ⏚	**86**
CDSH NC	6 poles + ⏚	**95**
CNE	6 poles + ⏚	**110**
CSE	6 poles + ⏚	**-**
CSH	6 poles + ⏚	**110**
CSH S	6 poles + ⏚	**122**
CCE	6 poles + ⏚	**130**
CSS	6 poles + ⏚	**148**
CT, CTSE (16 A)*	6 poles + ⏚	**160**
CQE	10 poles + ⏚	**168**
MIXO	2 modules	**262 - 317**

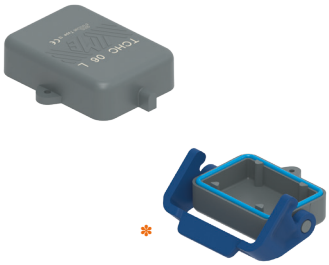
* only for standard insulating version TCHC

refer to CN.19 pages

hoods with 2 levers, top entry
SILICONE gasket

FROM JULY 2022

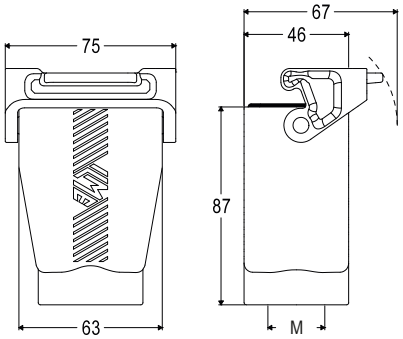
covers
SILICONE gasket



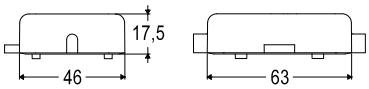
FROM JULY 2022*

description	part No.	entry M	part No. (with eyelet)	part No. (with loop)
with thermoplastic lever and gasket, high construction	**TAVC 06 LG25**	25		
with thermoplastic lever and gasket, high construction	**TAVC 06 LG32**	32		
with pegs			**TCHC 06 L**	**TCHC 06 SL**
with thermoplastic lever and gasket				**THCC 06 LG** *

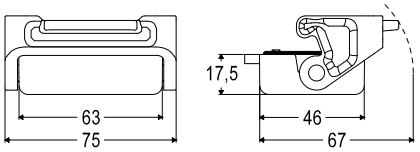
TAVC LG



TCHC L (SL)

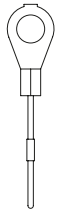


THCC LG



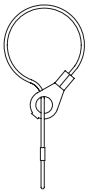
For fixing on housings

eyelet



For fixing on hoods

loop



cURus
Type 12 pending

IP66 IP69 EN 60529 IEC 60529 ambient temperature limits -50 °C / +70 °C

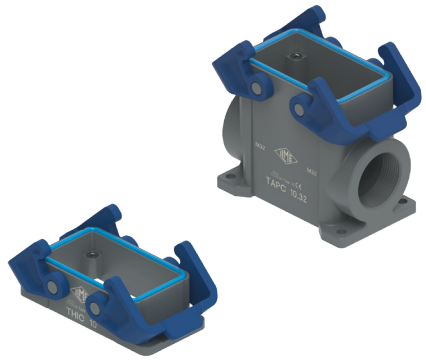
T-TYPE / C for low-temperature HYGIENIC SERIES

inserts		page:
CDD	42 poles + ⏚	**78**
CDS	18 poles + ⏚	**-**
CDSH	18 poles + ⏚	**87**
CNE	10 poles + ⏚	**111**
CSE	10 poles + ⏚	**-**
CSH	10 poles + ⏚	**111**
CSH S	10 poles + ⏚	**123**
CCE	10 poles + ⏚	**131**
CMSH	3+2 (aux) poles + ⏚	**136**
CMCE	3+2 (aux) poles + ⏚	**137**
CSS	10 poles + ⏚	**149**
CT, CTSE (16 A)*	10 poles + ⏚	**161**
CQE	18 poles + ⏚	**169**
CX	8/24 poles + ⏚	**194**
MIXO	3 modules	**262 - 317**

* only for standard insulating version THIH

refer to CN.19 pages

housings with 2 levers
SILICONE gasket



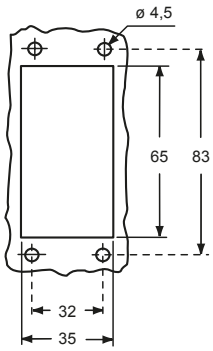
FROM JULY 2022

hoods with 4 pegs

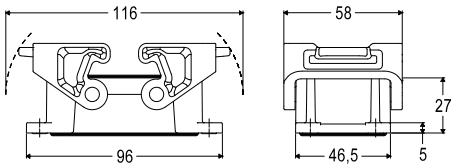
FROM JULY 2022

description	part No.	entry M	part No.	entry M
bulkhead mounting housing with thermoplastic levers	**THIC 10**			
surface mounting housing, thermoplastic levers, high construction	**TAPC 10.25**	25		
surface mounting housing, thermoplastic levers, high construction	**TAPC 10.32**	32		
with pegs, side entry, high construction			**TMAO 10.25**	25
with pegs, side entry, high construction			**TMAO 10.32**	32
with pegs, top entry, high construction			**TMAV 10.25**	25
with pegs, top entry, high construction			**TMAV 10.32**	32

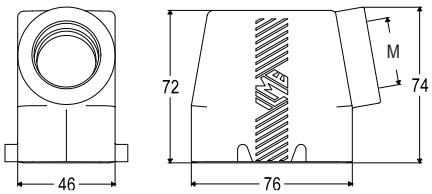
panel cut-out for bulkhead mounting housings



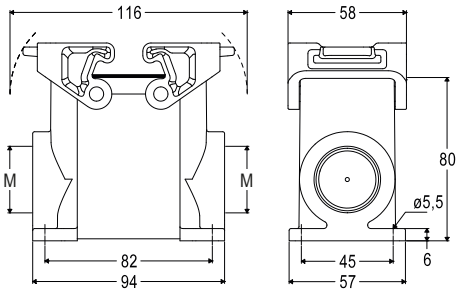
THIC



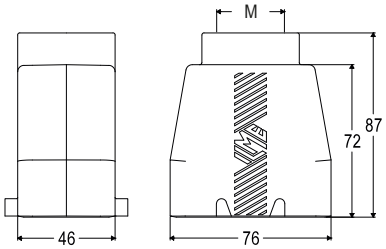
TMAO



TAPC



TMAV



The surface mounting, high construction housings are supplied with an open threaded entry and diametrically opposite a closed threaded entry which can be opened by the user if required (with suitable tool).

cURus
Type 12 pending

IP66 IP69 EN 60529 IEC 60529 ambient temperature limits -50 °C / +70 °C

T-TYPE / C for low-temperature HYGIENIC SERIES

inserts		page:
CDD	42 poles + ⏚	**78**
CDS	18 poles + ⏚	**-**
CDSH	18 poles + ⏚	**87**
CNE	10 poles + ⏚	**111**
CSE	10 poles + ⏚	**-**
CSH	10 poles + ⏚	**111**
CSH S	10 poles + ⏚	**123**
CCE	10 poles + ⏚	**131**
CMSH	3+2 (aux) poles + ⏚	**136**
CMCE	3+2 (aux) poles + ⏚	**137**
CSS	10 poles + ⏚	**149**
CT, CTSE (16 A)*	10 poles + ⏚	**161**
CQE	18 poles + ⏚	**169**
CX	8/24 poles + ⏚	**194**
MIXO	3 modules	**262 - 317**

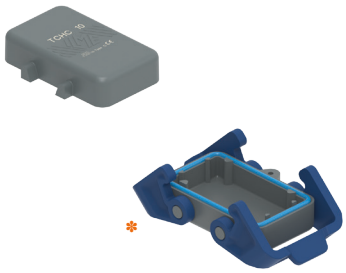
* only for standard insulating version TCHC

refer to CN.19 pages

hoods with 2 levers, top entry
SILICONE gasket

FROM JULY 2022

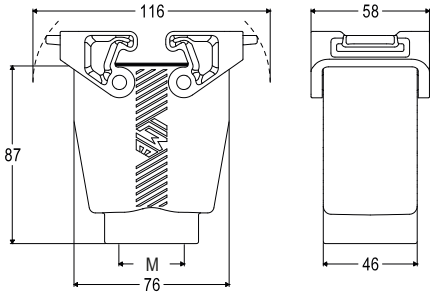
covers
SILICONE gasket



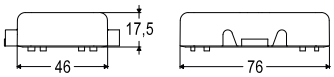
FROM JULY 2022*

description	part No.	entry M	part No. (with eyelet)	part No. (with loop)
with thermoplastic levers and gasket, high construction	**TAVC 10 G25**	25		
with thermoplastic levers and gasket, high construction	**TAVC 10 G32**	32		
with 4 pegs			**TCHC 10**	**TCHC 10 S**
with 2 thermoplastic levers and gasket				**THCC 10 G** *

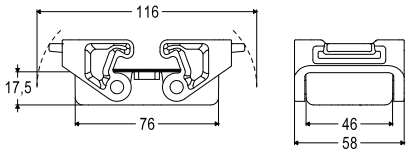
TAVC G



TCHC (S)

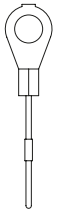


THCC G



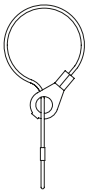
For fixing on housings

eyelet



For fixing on hoods

loop



cURus
Type 12 pending

IP66 IP69 EN 60529 IEC 60529 ambient temperature limits -50 °C / +70 °C

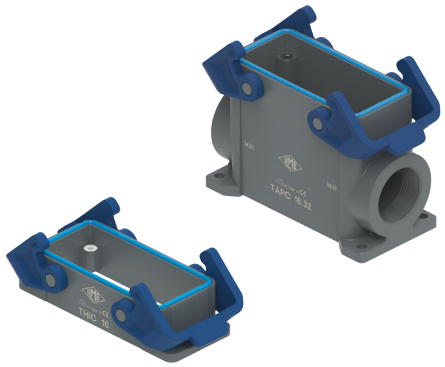
T-TYPE / C for low-temperature HYGIENIC SERIES

inserts		page:
CD	40 poles + ⏚	**70**
CDD	72 poles + ⏚	**79**
CDS	27 poles + ⏚	**-**
CDSH	27 poles + ⏚	**88**
CNE	16 poles + ⏚	**112**
CSE	16 poles + ⏚	**-**
CSH	16 poles + ⏚	**112**
CSH S	16 poles + ⏚	**124**
CCE	16 poles + ⏚	**132**
CMSH, CMCE	6+2 (aux) poles + ⏚	**138 - 139**
CSS	16 poles + ⏚	**150**
CT, CTSE (16 A)*	16 poles + ⏚	**162**
CQE	32 poles + ⏚	**170**
CQEE	40 poles + ⏚	**176**
CP	6 poles + ⏚	**178**
CX	6/12, 6/36 and 12/2 poles + ⏚	**197 - 199**
CX	4/0 and 4/2 poles + ⏚	**200 - 201**

* only for standard insulating version THIH

refer to CN.19 pages

housings with 2 levers
SILICONE gasket



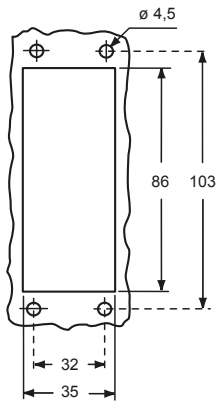
FROM JULY 2022

hoods with 4 pegs

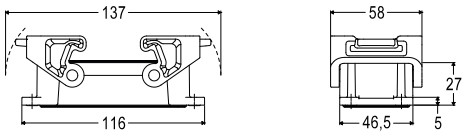
FROM JULY 2022

description	part No.	entry M	part No.	entry M
bulkhead mounting housing with thermoplastic levers	**THIC 16**			
surface mounting housing, thermoplastic levers, high construction	**TAPC 16.32**	32		
surface mounting housing, thermoplastic levers, high construction	**TAPC 16.40**	40		
with pegs, side entry, high construction			**TMAO 16.32**	32
with pegs, side entry, high construction			**TMAO 16.40**	40
with pegs, top entry, high construction			**TMAV 16.32**	32
with pegs, top entry, high construction			**TMAV 16.40**	40

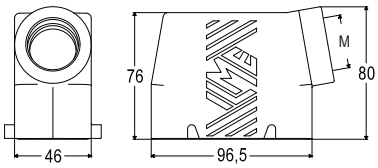
panel cut-out for bulkhead mounting housings



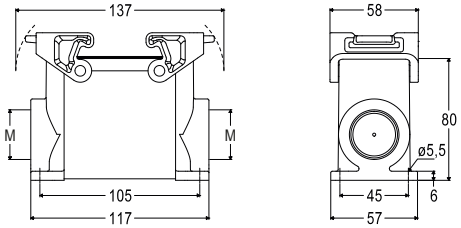
THIC



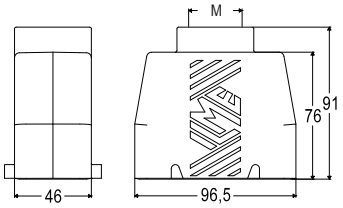
TMAO



TAPC



TMAV



The surface mounting, high construction housings are supplied with an open threaded entry and diametrically opposite a closed threaded entry which can be opened by the user if required (with suitable tool).

cURus
Type 12 pending

EN 60529 IP66 IP69 IEC 60529 ambient temperature limits -50 °C / +70 °C

T-TYPE / C for low-temperature HYGIENIC SERIES

inserts		page:
CD	40 poles + ⏚	**70**
CDD	72 poles + ⏚	**79**
CDS	27 poles + ⏚	**-**
CDSH	27 poles + ⏚	**88**
CNE	16 poles + ⏚	**112**
CSE	16 poles + ⏚	**-**
CSH	16 poles + ⏚	**112**
CSH S	16 poles + ⏚	**124**
CCE	16 poles + ⏚	**132**
CMSH, CMCE	6+2 (aux) poles + ⏚	**138 - 139**
CSS	16 poles + ⏚	**150**
CT, CTSE (16 A)*	16 poles + ⏚	**162**
CQE	32 poles + ⏚	**170**
CQEE	40 poles + ⏚	**176**
CP	6 poles + ⏚	**178**
CX	6/12, 6/36 and 12/2 poles + ⏚	**197 - 199**
CX	4/0 and 4/2 poles + ⏚	**200 - 201**

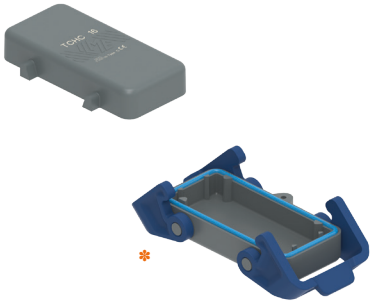
* only for standard insulating version THCH

refer to CN.19 pages

hoods with 2 levers, top entry
SILICONE gasket

FROM JULY 2022

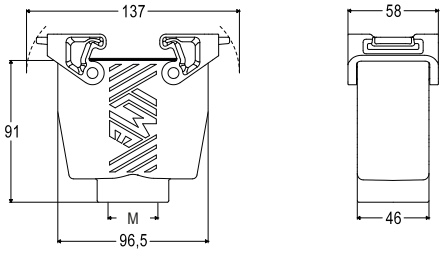
covers
SILICONE gasket



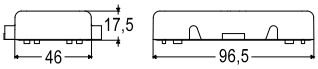
FROM JULY 2022*

description	part No.	entry M	part No. (with eyelet)	part No. (with loop)
with thermoplastic levers and gasket, high construction	**TAVC 16 G32**	32		
with thermoplastic levers and gasket, high construction	**TAVC 16 G40**	40		
with 4 pegs			**TCHC 16**	**TCHC 16 S**
with 2 thermoplastic levers and gasket				**THCC 16 G** *

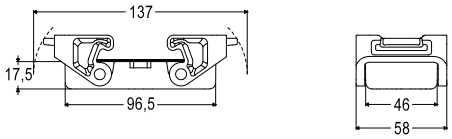
TAVC G



TCHC (S)

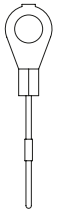


THCC G



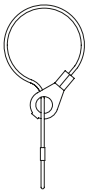
For fixing on housings

eyelet



For fixing on hoods

loop



cURus
Type 12 pending

IP66 IP69 EN 60529 IEC 60529 ambient temperature limits -50 °C / +70 °C

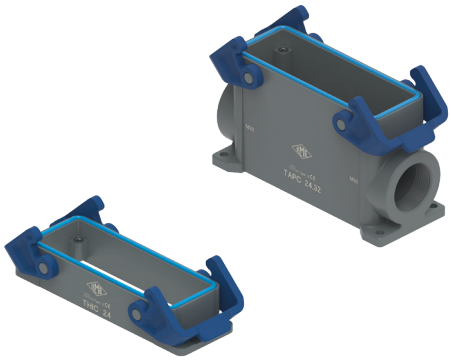
T-TYPE / C for low-temperature HYGIENIC SERIES

inserts		page:
CD	64 poles + ⏚	**72**
CDD	108 poles + ⏚	**81**
CDS	42 poles + ⏚	**-**
CDSH	42 poles + ⏚	**89**
CNE	24 poles + ⏚	**113**
CSE	24 poles + ⏚	**-**
CSH	24 poles + ⏚	**113**
CSH S	24 poles + ⏚	**125**
CCE	24 poles + ⏚	**133**
CMSH	10+2 (aux) poles + ⏚	**140**
CMCE	10+2 (aux) poles + ⏚	**141**
CSS	24 poles + ⏚	**151**
CT, CTSE (16 A)*	24 poles + ⏚	**163**
CQE	46 poles + ⏚	**171**
CQEE	64 poles + ⏚	**177**
CX	4/8 and 6/6 poles + ⏚	**204, 206**
MIXO	6 modules	**262 - 317**

* only for standard insulating version THIH

refer to CN.19 pages

housings with 2 levers
SILICONE gasket



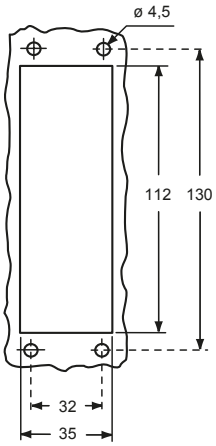
FROM JULY 2022

hoods with 4 pegs

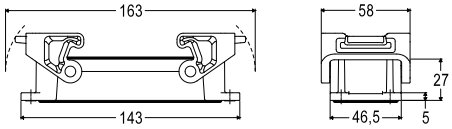
FROM JULY 2022

description	part No.	entry M	part No.	entry M
bulkhead mounting housing with thermoplastic levers	**THIC 24**			
surface mounting housing, thermoplastic levers, high construction	**TAPC 24.32**	32		
surface mounting housing, thermoplastic levers, high construction	**TAPC 24.40**	40		
with pegs, side entry, high construction			**TMAO 24.32**	32
with pegs, side entry, high construction			**TMAO 24.40**	40
with pegs, top entry, high construction			**TMAV 24.32**	32
with pegs, top entry, high construction			**TMAV 24.40**	40

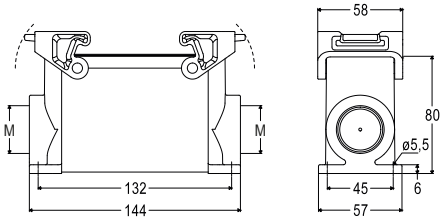
panel cut-out for bulkhead mounting housings



THIC

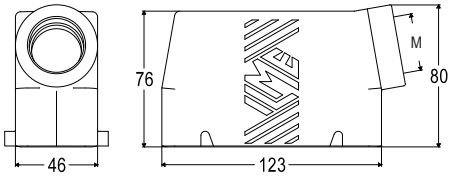


TAPC

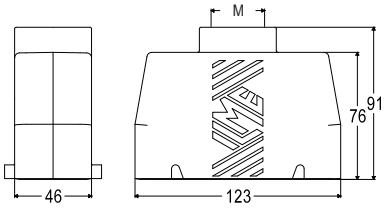


The surface mounting, high construction housings are supplied with an open threaded entry and diametrically opposite a closed threaded entry which can be opened by the user if required (with suitable tool).

TMAO



TMAV



cURus
Type 12 pending

ambient temperature limits -50 °C / +70 °C

T-TYPE / C for low-temperature HYGIENIC SERIES

inserts		page:
CD	64 poles + ⏚	**72**
CDD	108 poles + ⏚	**81**
CDS	42 poles + ⏚	**-**
CDSH	42 poles + ⏚	**89**
CNE	24 poles + ⏚	**113**
CSE	24 poles + ⏚	**-**
CSH	24 poles + ⏚	**113**
CSH S	24 poles + ⏚	**125**
CCE	24 poles + ⏚	**133**
CMSH	10+2 (aux) poles + ⏚	**140**
CMCE	10+2 (aux) poles + ⏚	**141**
CSS	24 poles + ⏚	**151**
CT, CTSE (16 A)*	24 poles + ⏚	**163**
CQE	46 poles + ⏚	**171**
CQEE	64 poles + ⏚	**177**
CX	4/8 and 6/6 poles + ⏚	**204, 206**
MIXO	6 modules	**262 - 317**

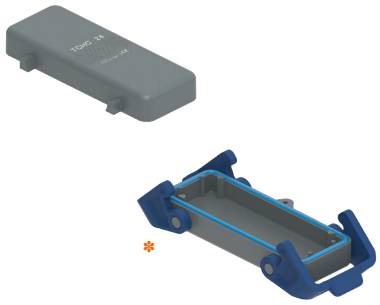
* only for standard insulating version TCHC

refer to CN.19 pages

hoods with 2 levers, top entry
SILICONE gasket

FROM JULY 2022

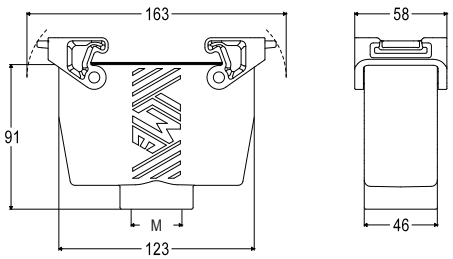
covers
SILICONE gasket



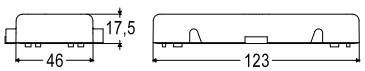
FROM JULY 2022*

description	part No.	entry M	part No. (with eyelet)	part No. (with loop)
with thermoplastic levers and gasket, high construction	**TAVC 24 G32**	32		
with thermoplastic levers and gasket, high construction	**TAVC 24 G40**	40		
with 4 pegs			**TCHC 24**	**TCHC 24 S**
with 2 thermoplastic levers and gasket				**THCC 24 G** *

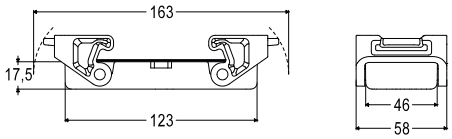
TAVC G



TCHC (S)

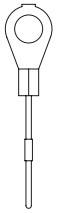


THCC G



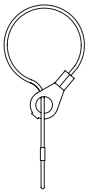
For fixing on housings

eyelet



For fixing on hoods

loop

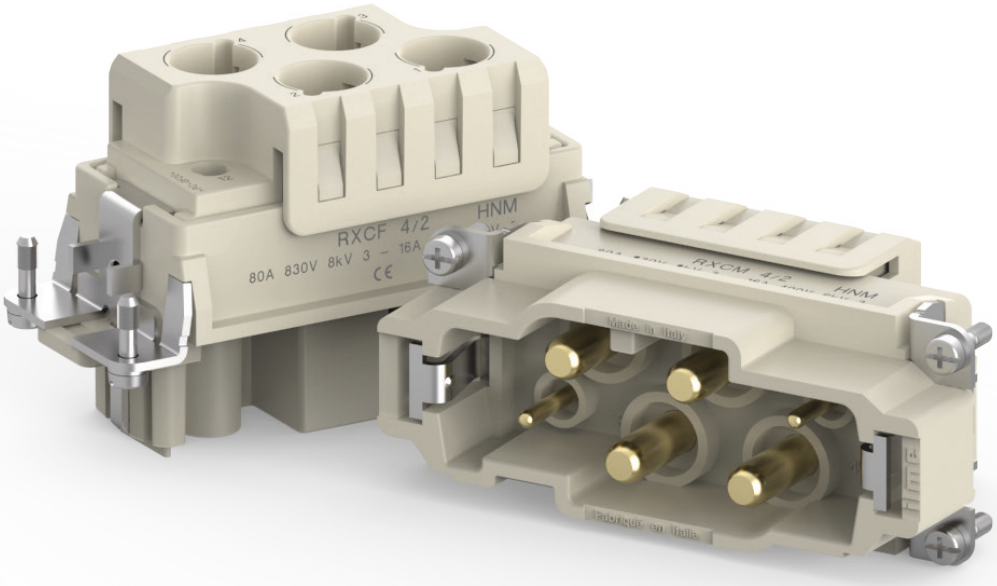


cURus
Type 12 pending

IP66 IP69 EN 60529 IEC 60529 ambient temperature limits -50 °C / +70 °C

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

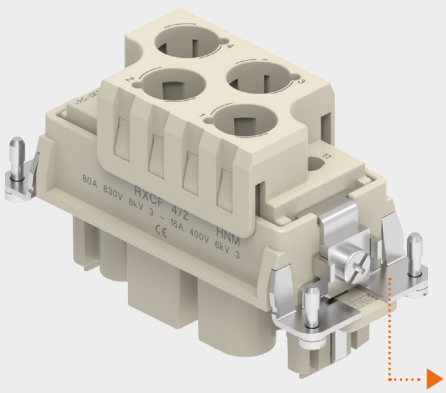
Find out more
www.ilme.com

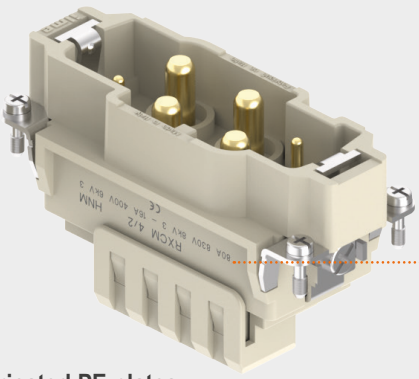
TECHNICAL FEATURES

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)

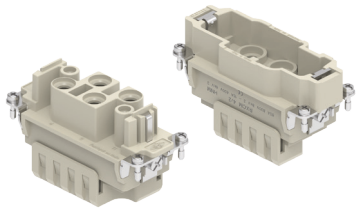
enclosures:
size "77.27" **page:**

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**

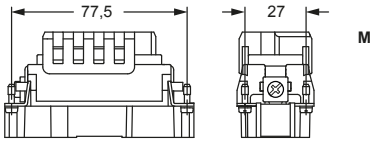
gold plated

- 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)

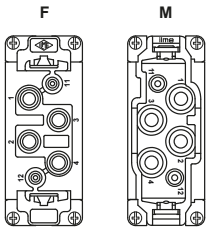
- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 70 A contacts RX7F2D and RX7M2D series and 16 A contacts RCF2D, RCM2D series, on pages 708 - 741 of CN.19 catalogue)

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

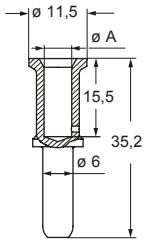
RXC 4/2

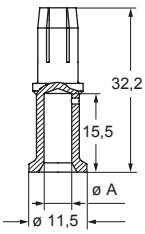


contacts side (front view)



RX7F2D, RX7M2D and RX7F2D 16 XF, RX7M2D 16 XF

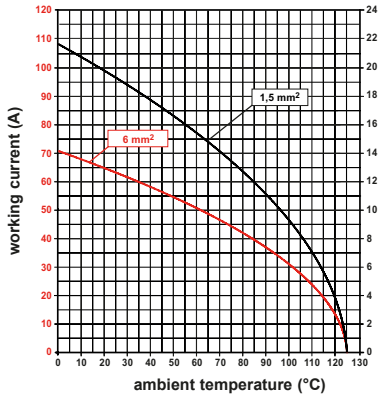


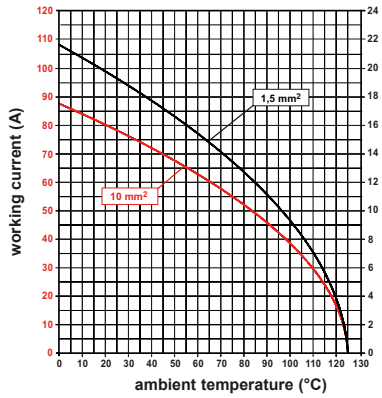


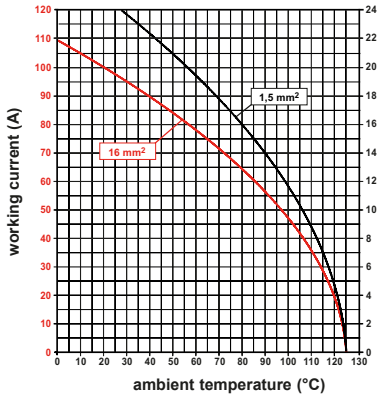
RX7F2D and RX7M2D contacts

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







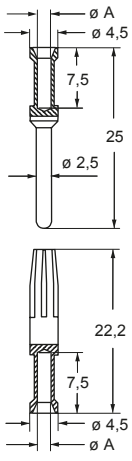
16 A HNM crimp contacts gold plated

removal tools

description	part No.	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**	
removal tools		
for **RX7F2D** and **RX7M2D** series contacts		**CX7ES**
for **RCF2D** and **RCM2D** series contacts		**CQES**

gold plated

RCF2D and RCM2D

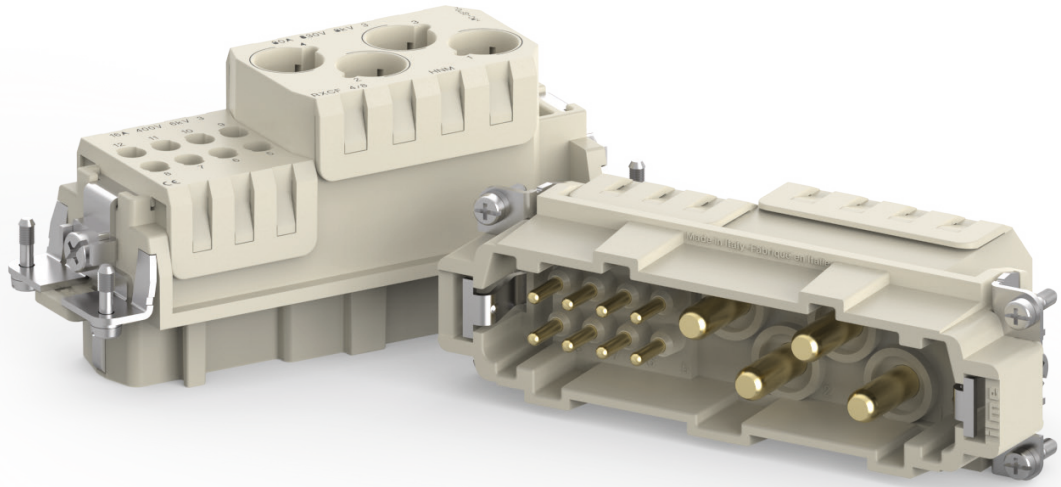


RCF2D and RCM2D contacts

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

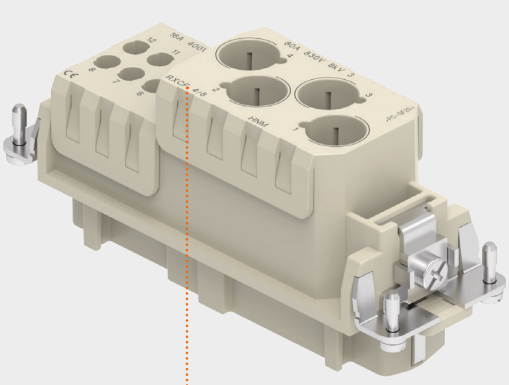
Find out more
www.ilme.com

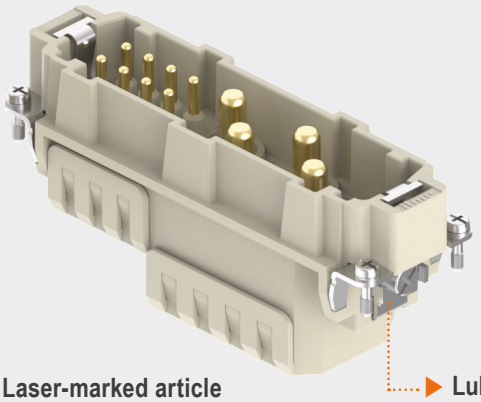
TECHNICAL FEATURES

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)

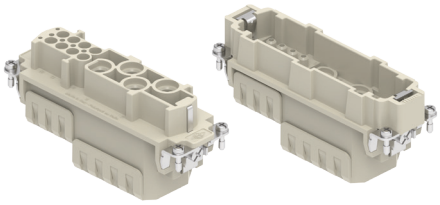
enclosures:
size "104.27" **page:**

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**

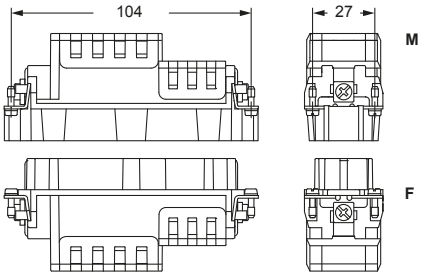
gold plated

- 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)

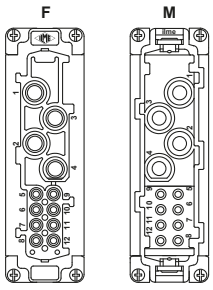
- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 70 A contacts RX7F2D and RX7M2D series and 16 A contacts RCF2D, RCM2D series, on pages 708 - 741 of CN.19 catalogue)

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

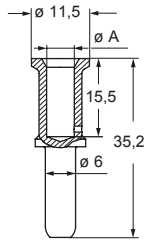
RXC 4/8

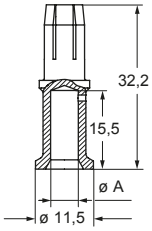


contacts side (front view)

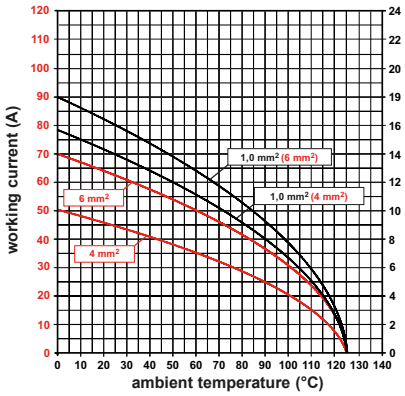


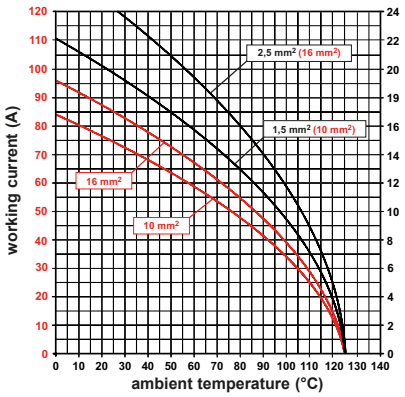
RX7F2D, RX7M2D and RX7F2D 16 XF, RX7M2D 16 XF





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

16 A HNM crimp contacts gold plated

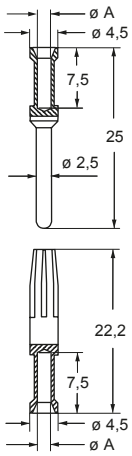
removal tools

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	
for **RX7F2D** and **RX7M2D** series contacts	**CX7ES**
for **RCF2D** and **RCM2D** series contacts	**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

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**

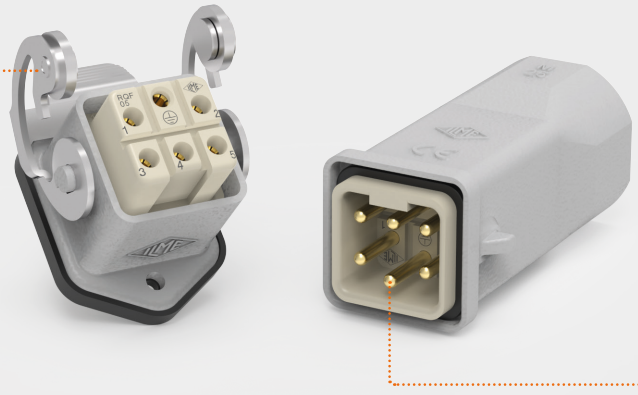
NOTE – Series CKSH (SQUICH®), as well as all MIXO BUS multi-axial and coaxial inserts for use within the size "21.21" CX 1/2 BDF /BDM adapter are not foreseen in HNM version. For requests of other size "21.21" connector inserts in HNM version (e.g.: RK, RQ 12, RQ 07), please contact ILME Commercial Offices.

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**

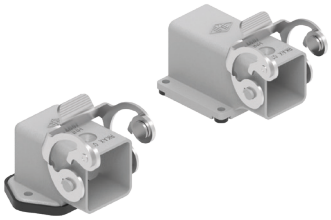
RKAX 03 HNM (High Number of Matings)

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



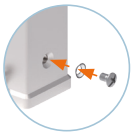
FROM JUNE 2022

description	part No.	part No.
with stainless steel lever	**RKAX 03 I**	
without cable entry [1] without cable entry, fixing by 4 screws		**RKAX 03 IA** **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**

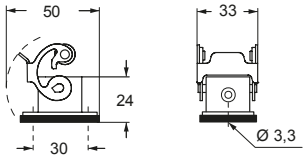
[1] Not suitable for CQ4 series inserts

[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).

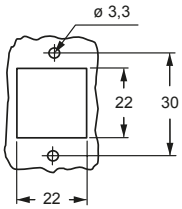
NOTE: The enclosure shown here is an example. The screw and sealing gasket kit can be used with all enclosures' part nos. in this page.



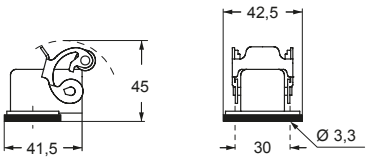
RKAX 03 I



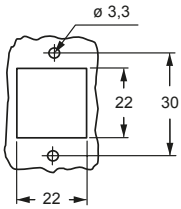
panel cut-out for enclosures



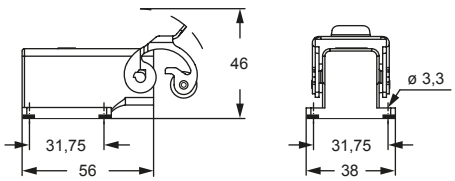
RKAX 03 IA



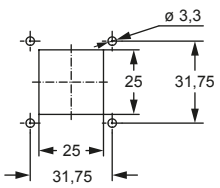
panel cut-out for enclosures



RKAX 03 IA4



panel cut-out for enclosures



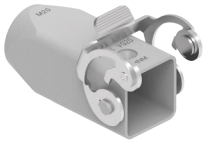
cURus
Type 12 pending
Type 4/4X only with CKR 65 (D) pending

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

RKAX VG HNM (High Number of Matings)

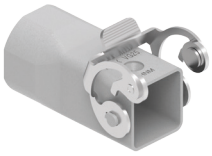
inserts		page:
CQ	21 poles	**82**
CD	8 poles	**83**
RQ	5 poles + ⏚	**84**
CQ4 03	3 poles + ⏚	**85**

hoods
stainless steel lever



FROM JUNE 2022

hoods
stainless steel lever



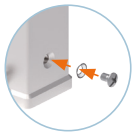
FROM JUNE 2022

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**

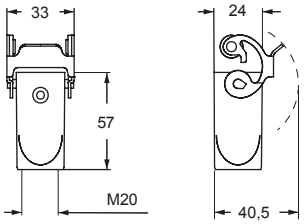
[1] Not suitable for CQ4 series inserts

[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).

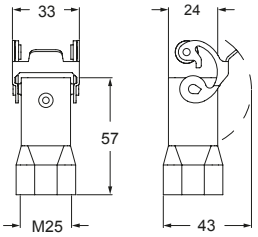
NOTE: The enclosure shown here is an example. The screw and sealing gasket kit can be used with all enclosures' part nos. in this page.



RKAX VG20



RKAX VG25



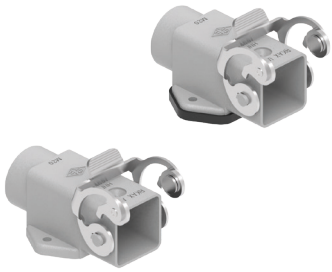
cURus
Type 12 pending
Type 4/4X only with CKR 65 (D) pending

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

RKAX AP – IAP HNM (High Number of Matings)

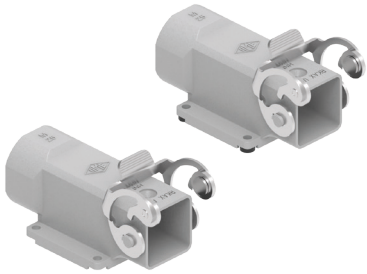
inserts		page:
CQ	21 poles	**82**
CD	8 poles	**83**
RQ	5 poles + ⏚	**84**
CQ4 03	3 poles + ⏚	**85**

bulkhead mounting housings straight and angled, stainless steel lever



FROM JUNE 2022

angled surface mounting housings stainless steel lever



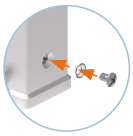
FROM JUNE 2022

description	part No. (entry M20)	part No. (entry M25)
with cable entry [1] with cable entry, bulkhead hole closed, without gasket [1]	**RKAX IAP20** **RKAX AP20**	
with cable entry, fixing by 4 screws with cable entry, fixing by 4 screws, bulkhead hole closed, without gasket		**RKAX IAP25** **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).

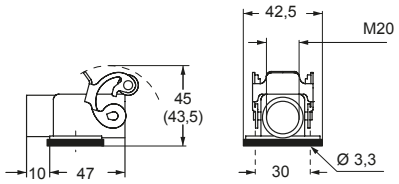
NOTE: The enclosure shown here is an example. The screw and sealing gasket kit can be used with all enclosures' part nos. in this page.



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

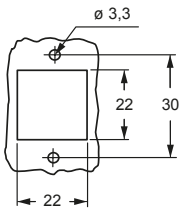
IP44 IP66 with CKR 65 (D) [2]

RKAX IAP20 (RKAX AP20*)

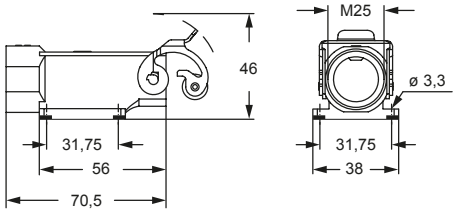


***AP...** without gasket

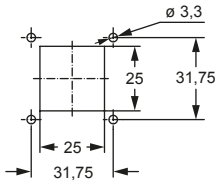
panel cut-out for enclosures



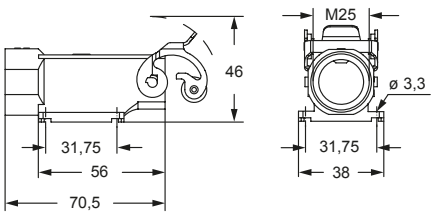
RKAX IAP25



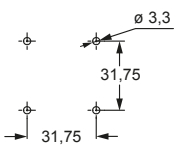
panel cut-out for enclosures



RKAX AP25



panel cut-out for enclosures



dimensions shown in mm are not binding and may be changed without notice

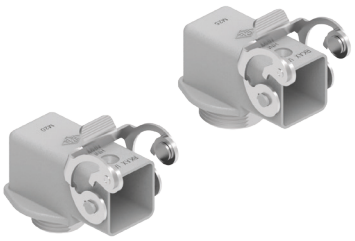
RKAX IF – IAF HNM (High Number of Matings)

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

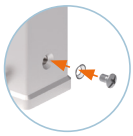


FROM JUNE 2022

description	part No.	entry M	part No.	entry M
with O-ring gasket [1] [•] with flange gasket [1]	**RKAX IF** **RKAX IFC**	32 32		
with O-ring gasket [1] [2] [•] with O-ring gasket [1] [2] [•]			**RKAX IAF20** **RKAX IAF25**	20 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



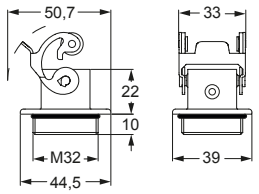
[2] Not suitable for CQ4 series inserts

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

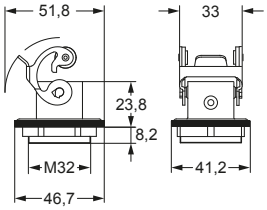
cURus
Type 12 pending
Type 4/4X only with CKR 65 (D) pending

IP66 with CKR 65 (D) [2]

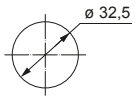
RKAX IF



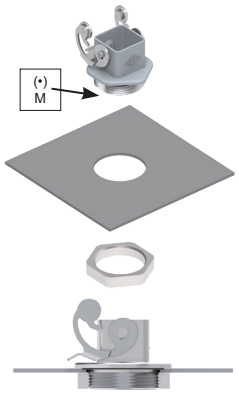
RKAX IFC



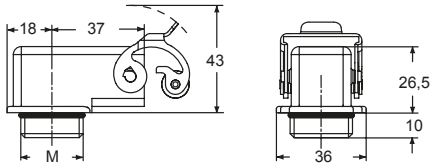
panel cut-out for enclosures



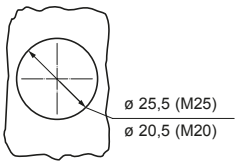
USE OF THE LOCKNUT



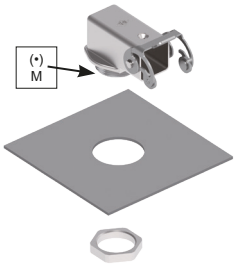
MKAX IAF



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**

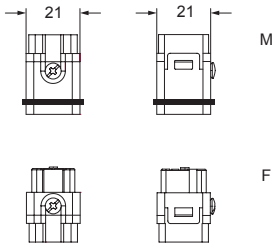
gold plated

- 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

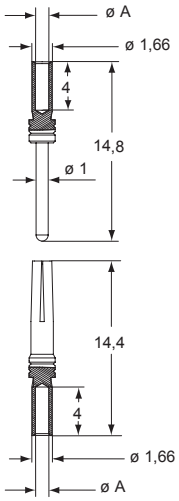
- rated voltage according to UL/CSA: 250V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 5 000 cycles
- contact resistance: ≤ 4 mΩ
- seat of contact #9 on both inserts set forward to obtain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



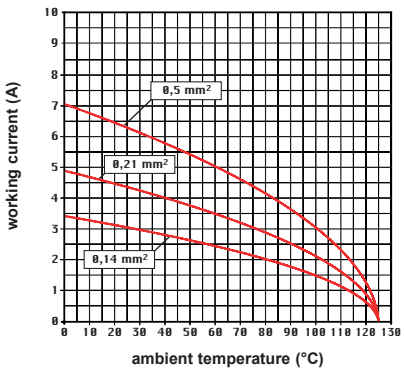
contacts side (front view)



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

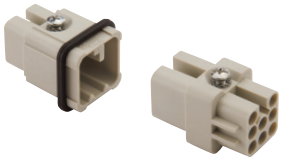
CQ 21 poles connector inserts
Maximum current load derating diagram



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

HNM **78 - 81**

inserts, crimp connections



10 A HNM crimp contacts gold plated

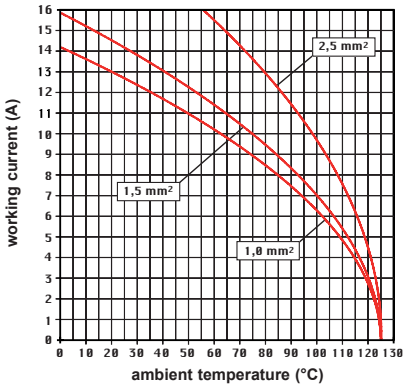
description	part No.	part No..
without contacts (to be ordered separately)		
female insert for female contacts [1]	**CDF 08**	
male insert for male contacts	**CDM 08**	
10 A female contacts		
0,14-0,37 mm² AWG 26-22 identification No. 1		**RDF2D 0.3**
0,5 mm² AWG 20 identification No. 2		**RDF2D 0.5**
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**

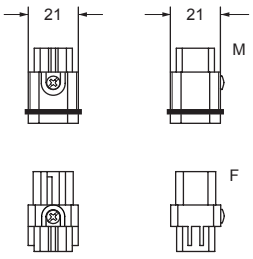
gold plated

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

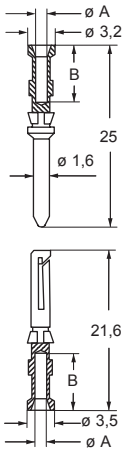
CD 08 poles connector inserts
Maximum current load derating diagram





contacts side (front view)

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



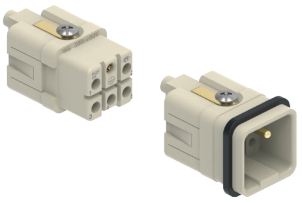
RDF2D and RDM2D contacts

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

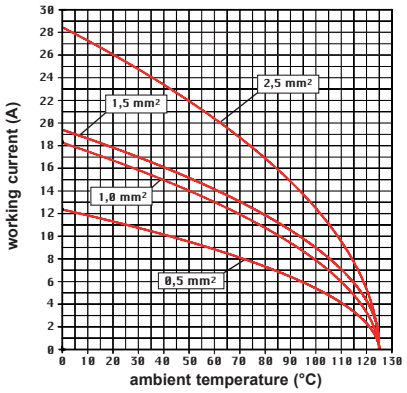
16 A HNM crimp contacts gold plated

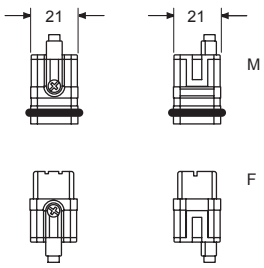
description	part No.	part No.
without contacts (to be ordered separately)		
female insert for female contacts	**RQF 05**	
male insert for male contacts	**RQM 05**	
16 A female contacts		
0,14-0,37 mm² AWG 26-22 one groove		**RCF2D 0.3**
0,5 mm² AWG 20 with no grooves		**RCF2D 0.5**
0,75 mm² AWG 18 one 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

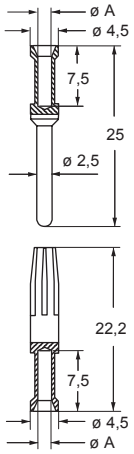




contacts side (front view)

NOTE: PE screw connection for unprepared wires only

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



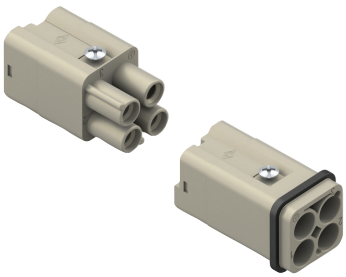
RCF2D and RCM2D contacts

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

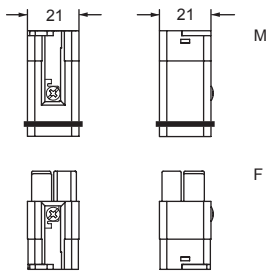
✎ the female insert **CQ4F 03** is finger proof (IP2X or IPXXB) even if not coupled, while the male insert **CQ4M 03** in this circumstance is protected from access with the back of the hand (IP1X or IPXXA)

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

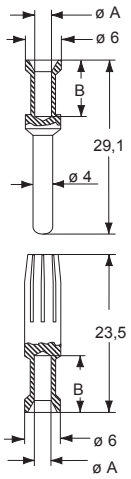
- characteristics according to EN 61984:
  40 A 400 V 6 kV 3
- c UL us (UL for USA and Canada), DNV·GL BUREAU VERITAS EAC certified
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 5 000 cycles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



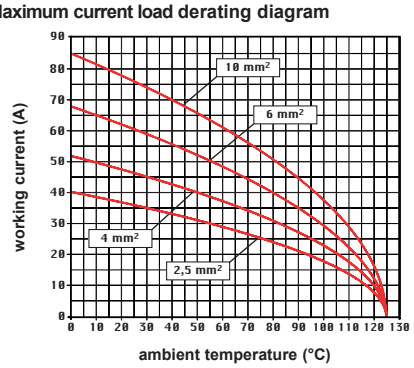
contacts side (front view)



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)

T-TYPE ENCLOSURES SERIES

DUST PROTECTION COVER SIZE “44.27”

The protection of connectors also includes accessories.

In order **to protect wired T-TYPE hoods from dust and particles** which may deposit during transportation, **the new TCP 06 size “44.27” dust protection cover** is now available.

This new disposable plastic cover joins the already existing, but more expensive, regular T-TYPE covers TCHC 06 L (eyelet cord) / SL (loop cord) and TCHC 06 LG (with lever and gasket).

NOTE – For other sizes, only for consistently large quantities, please contact ILME Commercial Offices.

- This cover serves both hoods and housings of the same size of series T-TYPE (any kind, including standard T-TYPE, T-TYPE /W, T-TYPE Hygienic, either /H or /C).
- Made by **recyclable polypropylene** (>PP< symbol on the piece), it fits with slight friction around the perimeter of the hood. Fixing around the hood is achievable by means of a plastic cable tie (not provided), for which suitable holding seats are provided centrally along long sides.

Find out more
www.ilme.com

T-TYPE DUST PROTECTION COVER SIZE "44.27"

enclosures:
size "44.27" **page:**

refer to CN.19 pages

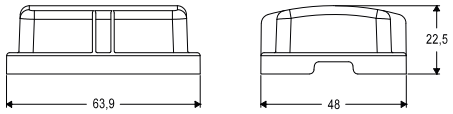
Dust protection cover size "44.27"

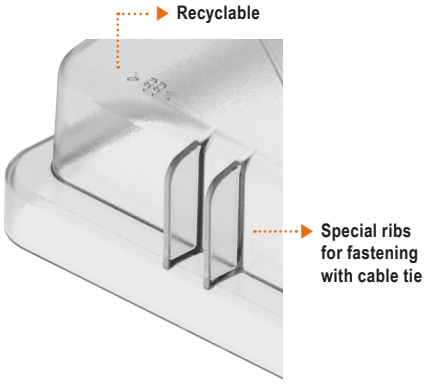
FROM MARCH 2022

description	part No.
Plastic transparent dust protection cover	**TCP 06**

- disposable plastic cover to avoid dust deposits during transportation/idle time
- made of transparent >PP< (marked on the inside for recycling purposes
- cheaper than standard cover
- special ribs for fastening with cable tie (not provided)

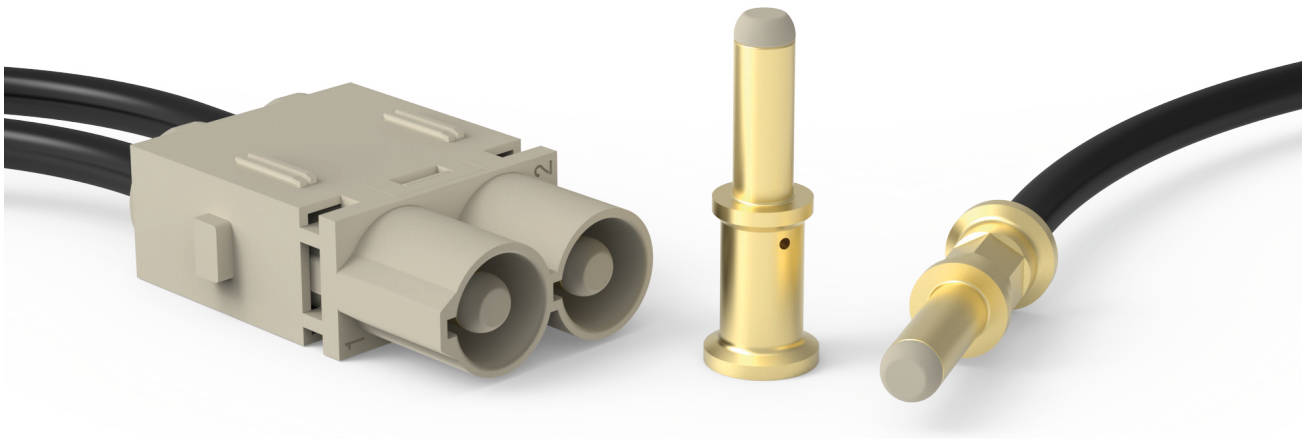
NOTE: to be used with T-TYPE enclosures size "44.27" only.





RX7 SERIES
FINGERPROOF MALE CRIMP CONTACTS

HNM VERSION
WITH INSULATING CAP



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

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

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

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

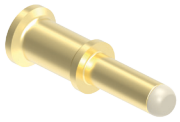
Find out more
www.ilme.com

inserts: **page:**

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

refer to CN.19 pages

70 A HNM gold plated fingerproof male crimp contacts



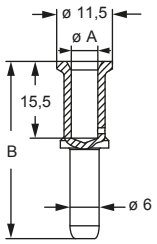
FROM MARCH 2022

removal tools

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

gold plated

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



RX7M2D..P contacts

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