Multipole connectors
New products 2017

News 2017

G - 17

ENGLISH

The Company and the Product

I.L.M.E. SpA - INDUSTRIA LOMBARDA MATERIALE ELETTRICO - has been operating **in Milan since 1938,** in particular in the electrotechnical sector for the manufacturing of equipment for industrial installations.
ILME reflects the traditional **entrepreneurial spirit of Lombardy,** and has enjoyed continuous expansion for over half a century.
The company has carved an important role for itself in the main world markets, also operating directly in the countries that have assumed world leadership in the field of automation, including Germany and Japan.
In the **electrical connection** sector with applications in industrial automation, characterised by **top performance** and utmost **reliability needs,** ILME is today the acknowledged partner of many leading companies worldwide.
The company's fundamental values are:

product innovation, original solutions, excellent **price-quality ratio,** a customer-oriented **sense of service,** ethical behaviour and an environmentally-friendly approach.
To promote the continuing improvement of its **qualitative results,** ILME has always encouraged its collaborators to work with utmost **responsibility and participation.**
The company focuses on a series of benefits to the user, including research into the most suitable materials, high quality and safe cabling, a rapid turnaround and readily available services.

CE marking

As from 1 January 1997, in order to launch electrical products on the European market the manufacturer must ensure these bear the relevant CE marking, in line with the Low Voltage Directive 73/23/EEC * (implemented in Italy as law 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 placed on the product - or, if this is not possible, on the packaging, the instructions for use or the warranty certificate - and acts as a declaration by the manufacturer that the product complies with all relevant EU directives.

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

Almost all ILME products fall within the scope of the Low Voltage Directive. A declaration of compliance is required before applying the CE marking. This document, to which the market is not directly entitled, must be made available to the control authorities (in Italy the Ministry for Industry, Commerce and Handicraft) at all times.
In it, the manufacturer declares the technical safety standard(s) followed to manufacture 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 directive's basic safety requirements.

Compliance with harmonised technical standards (i.e. ratified by the CENELEC) constitutes presumed conformity to the directive's basic safety requirements.
The CE marking of ILME products results from said products' declaration of conformity 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 EU standards on which voluntary safety certification markings are based (e.g. IMQ and VDE).
In this way, ILME intends to award 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.

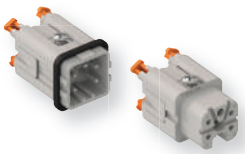
*** Note:**
The next legal reference for the Low Voltage Directive was 2006/95/EC, as consolidation of the original Directive 73/23/EEC + Directive 93/68/EEC.
On 29th March 2014, the Official Journal of the European Union published the new Low Voltage directive 2014/35/EU dd. 26th February 2014, a recast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

New products 2017 - General index

SQUICH® 10A 400V

CKSH 03

CKSH 04



CQ 07 crimp connection
CQ 17 crimp connection
CQ 21 crimp connection

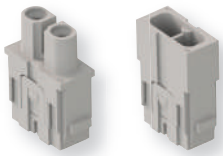
CQ 07

CQ 17

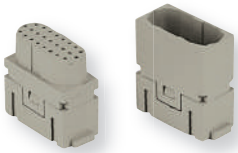
CQ 21

MIXO inserts

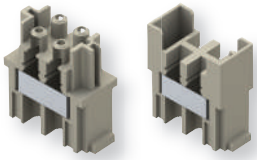
CX 02 4



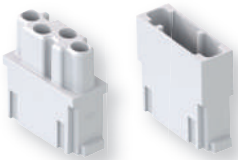
CX 25 IB



CX 04 SC

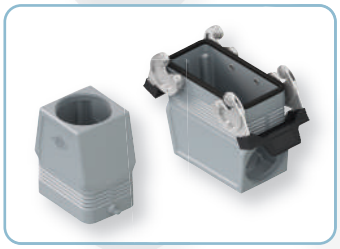


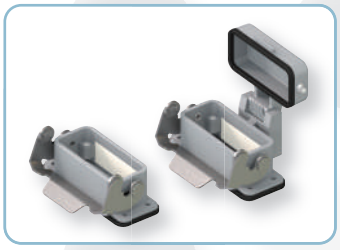
CX 04 R

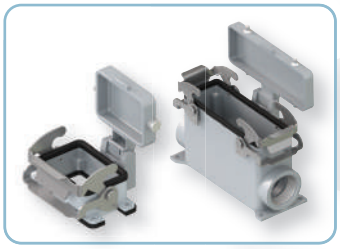


NEW

New products 2017 - General index





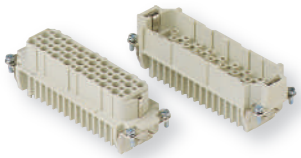


NEW

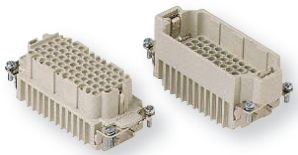
New products 2017 - General index

HNM (High Number of Matings)

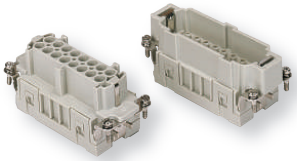
RD 40/64



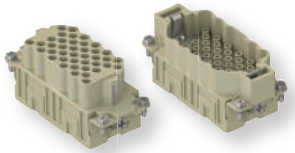
RDD 24/42/72/108



RCE 06/10/16/24

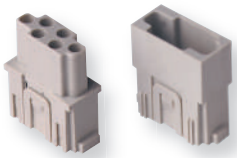


RQEE 40/64

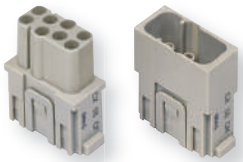


MIXO INSERTS

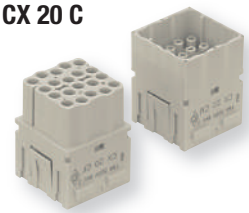
CX 06 C



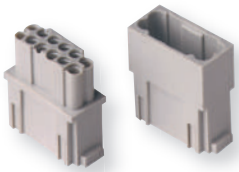
CX 08 C



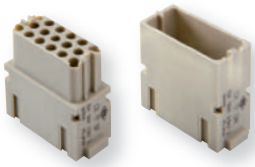
CX 20 C



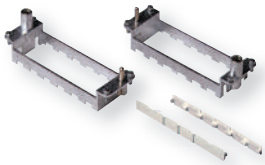
CX 12 D



CX 17 D



Frames for modular units



ENCLOSURES

NEW

New products 2017 - General index

M25 HOOD, size “21.21”
W-TYPE version
EMC version

W-TYPE

EMC

CQAM T1
termination connector
for CQF 12 inserts

SQUICH®
Reopening tool

NEW

CKSH - SQUICH® series

Spring connection contacts with actuator button

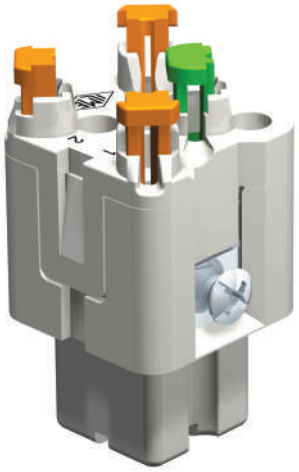
Easy wiring in compact size

CKSH - SQUICH® series

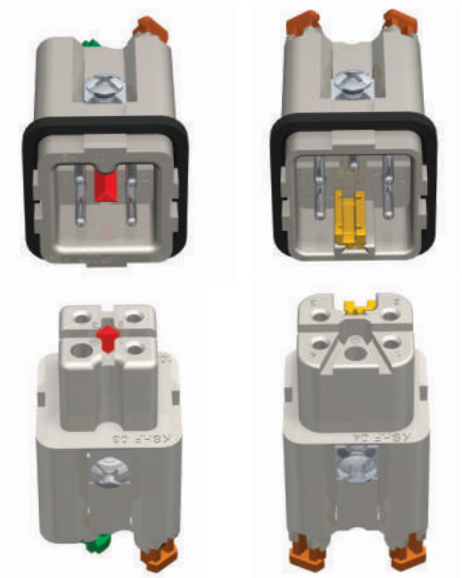
Spring connection contacts with actuator button

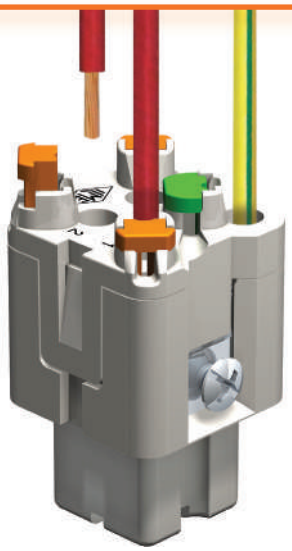
- no need of wiring tool
- already open terminals
- for rigid or flexible wires
- excellent fastening solution
- reduced wiring time
- quick identification of wired terminals
- measuring probe usable
- great resistance to strong vibrations

SAVE TIME IN COMPACT SIZE

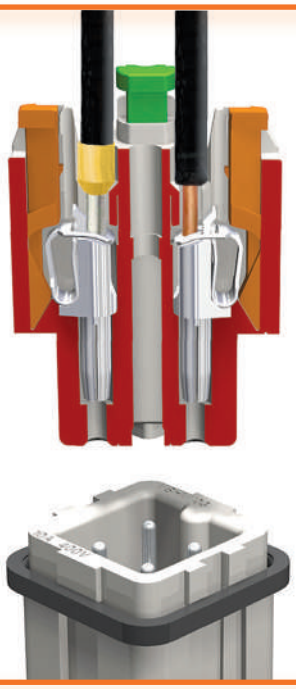


WITH CODING PINS





REAR TOP ENTRY FOR EASIER WIRING



FOR RIGID OR FLEXIBLE WIRES FOR CRIMPED FERRULES

CKSH 3 and 4 poles + ⏚ 10A - 400V SQUICH®

enclosures:
size "21.21" page:

*** refer to catalogue page CN.16**

- can be mated with CK / CKS inserts

inserts, 3 poles + ⏚
spring terminal connection

silver plated contacts

AVAILABLE NOVEMBER 2017

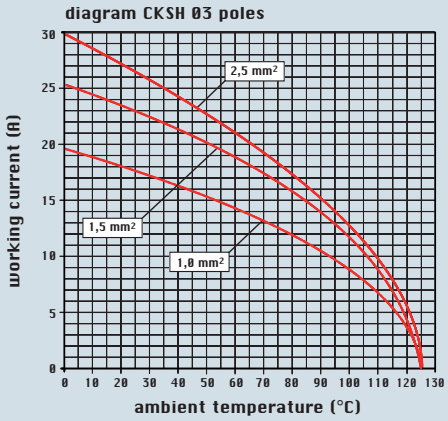
inserts, 4 poles + ⏚
spring terminal connection

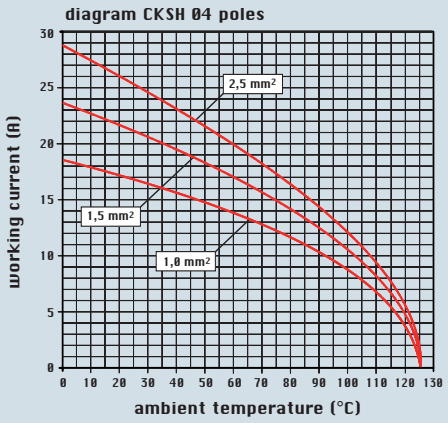
silver plated contacts

AVAILABLE NOVEMBER 2017

description	part No.	part No.
female inserts with female contacts male inserts with male contacts	**CKSHF 03** **CKSHM 03**	
female inserts with female contacts male inserts with male contacts		**CKSHF 04** **CKSHM 04**

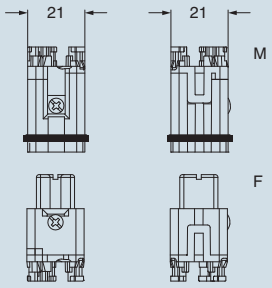
- characteristics according to EN 61984:
  10A 400V 4kV 3
  10A 690V 4kV 2
- insulation resistance: ≥ 10 GΩ
- ambient temperature limits: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 1 mΩ
- for maximum current load see the following connector inserts derating diagrams



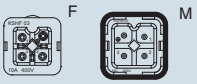


dimensions shown are not binding
and may be changed without notice

dimensions in mm



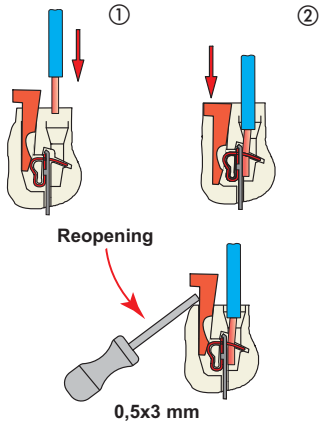
contacts side (front view)



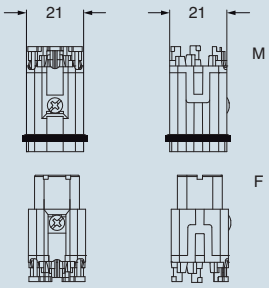
- inserts for wires with the following cross-sectional areas: 0,14 - 2,5 mm² - AWG 26 - 14
  for prepared wires
  useable section: up to 1,5 mm² (AWG 16)
- conductor stripping lenght: 9...11 mm

coding pins:
CR K03 (page 490 catalogue CN.16)

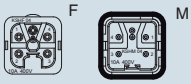
SQUICH® connections



dimensions in mm



contacts side (front view)



- inserts for wires with the following cross-sectional areas: 0,14 - 2,5 mm² - AWG 26 - 14
  for prepared wires
  useable section: up to 1,5 mm² (AWG 16)
- conductor stripping lenght: 9...11 mm

coding pins:
CR K04R and CR K04G (page 490 catalogue CN.16)

Rear top entry of wires for a more easier wiring

CQ 7 poles + ⏚ 10A - 400V

enclosures:
size "21.21" page:

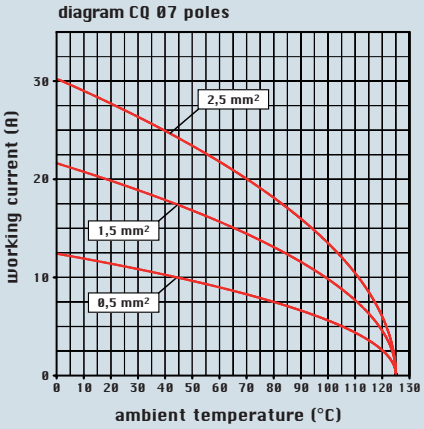
*** refer to catalogue page CN.16**

inserts, crimp connections

10A crimp contacts silver and gold plated

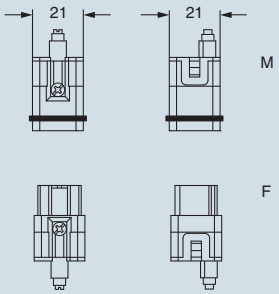
description	part No.	part No.	part No.
without contacts (to be ordered separately) female inserts for female contacts male inserts for male contacts	**CQF 07** **CQM 07**		
10A female contacts 0,14-0,37 mm² AWG 26-22 identification No. 1 0,5 mm² AWG 20 identification No. 2 0,75 mm² AWG 18 identification No. ② 1,mm² AWG 18 identification No. 3 1,5 mm² AWG 16 identification No. 4 2,5 mm² AWG 14 identification No. 5		**CDFA 0.3** **CDFA 0.5** **CDFA 0.7** **CDFA 1.0** **CDFA 1.5** **CDFA 2.5** **silver plated**	**CDFD 0.3** **CDFD 0.5** **CDFD 0.7** **CDFD 1.0** **CDFD 1.5** **CDFD 2.5** **gold plated 1)**
10A male contacts 0,14-0,37 mm² AWG 26-22 identification No. 1 0,5 mm² AWG 20 identification No. 2 0,75 mm² AWG 18 identification No. ② 1,mm² AWG 18 identification No. 3 1,5 mm² AWG 16 identification No. 4 2,5 mm² AWG 14 identification No. 5		**CDMA 0.3** **CDMA 0.5** **CDMA 0.7** **CDMA 1.0** **CDMA 1.5** **CDMA 2.5**	**CDMD 0.3** **CDMD 0.5** **CDMD 0.7** **CDMD 1.0** **CDMD 1.5** **CDMD 2.5**

- characteristics according to EN 61984:
  10A 400V 6kV 3
- 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
- the CQ 07 inserts are already supplied with a mounting screw with sealing, which ensures IP66/IP67 protection rating
- fist-make last-break screw-type PE contact
- for contact crimping instructions, please see the crimping tool section (10A contacts, CDF and CDM series) on pages 531-539 and 544-549 catalogue CN.16
- for maximum current load see the following connector inserts derating diagrams



dimensions shown are not binding
and may be changed without notice

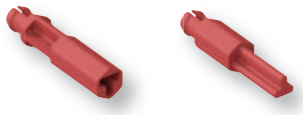
dimensions in mm



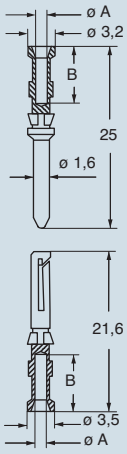
contacts side (front view)

Note:
PE screw connection for unprepared wires only

the **CR QF07** and **CR QM07** coding pins (to be ordered separately), allow the user to create 6 different combinations, according to the diagram shown on page 9



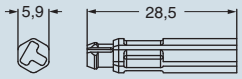
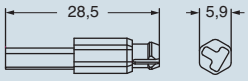
dimensions in mm



CDF and CDM contacts

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

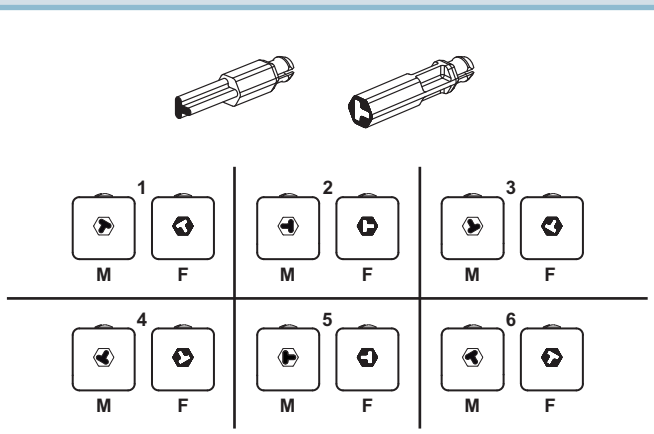
1) basic or high thickness gold plating page 480 catalogue CN.16

	coding pins for CQF 07 inserts	coding pins for CQM 07 inserts
		
description	part No.	part No.
coding pins for CQF 07 inserts	**CR QF07**	
coding pins for CQM 07 inserts		**CR QM07**
	dimensions in mm	dimensions in mm
		

Code pins

Each series of connector inserts is made in such a way as to make incorrect coupling between inserts of different series impossible.
When a number of identical connectors with different functions are mounted closely together these must be selected in such a way as to prevent the coupling of a free part on a non-corresponding fixed part and possible consequent damage and breakdown.

Within this scope, special coding pins have been made available in order to restrict or avoid incorrect mating between multiple identical connectors.



CR QF07 coding pin

CR QM07 coding pin

M = male insert
F = female insert

dimensions shown are not binding
and may be changed without notice

CQ 17 poles + ⏚ 10A - 160V

enclosures:
size "32.13" page:

insulating type ..... 226 - 227
EMC ..... 388 - 389

refer to catalogue page CN.16

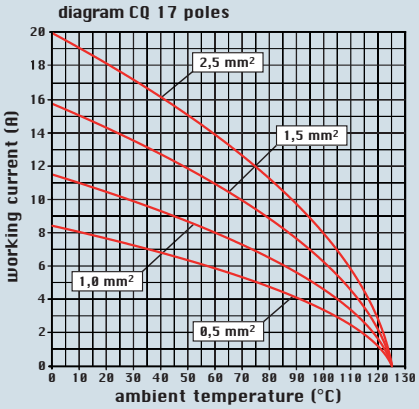
inserts, crimp connections

AVAILABLE NOVEMBER 2017

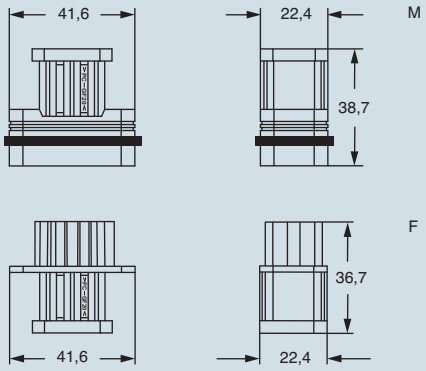
10A crimp contacts silver and gold plated

description	part No.	part No.	part No.
without contacts (to be ordered separately) female inserts for female contacts male inserts for male contacts	**CQF 17** **CQM 17**		
10A female contacts 0,14-0,37 mm² AWG 26-22 identification No. 1 0,5 mm² AWG 20 identification No. 2 0,75 mm² AWG 18 identification No. ② 1,mm² AWG 18 identification No. 3 1,5 mm² AWG 16 identification No. 4 2,5 mm² AWG 14 identification No. 5		**CDFA 0.3** **CDFA 0.5** **CDFA 0.7** **CDFA 1.0** **CDFA 1.5** **CDFA 2.5** **silver plated**	**CDFD 0.3** **CDFD 0.5** **CDFD 0.7** **CDFD 1.0** **CDFD 1.5** **CDFD 2.5** **gold plated 1)**
10A male contacts 0,14-0,37 mm² AWG 26-22 identification No. 1 0,5 mm² AWG 20 identification No. 2 0,75 mm² AWG 18 identification No. ② 1,mm² AWG 18 identification No. 3 1,5 mm² AWG 16 identification No. 4 2,5 mm² AWG 14 identification No. 5		**CDMA 0.3** **CDMA 0.5** **CDMA 0.7** **CDMA 1.0** **CDMA 1.5** **CDMA 2.5**	**CDMD 0.3** **CDMD 0.5** **CDMD 0.7** **CDMD 1.0** **CDMD 1.5** **CDMD 2.5**

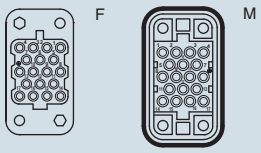
- characteristics according to EN 61984:
  10A 160V 2,5kV 3
  10A 250V 4kV 2
- insulation resistance: ≥ 10 GΩ
- ambient temperature limits: -40 °C ... +125 °C
- are made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 3 mΩ
- one pre-mating contact
- for contact crimping instructions, please see the crimping tool section (10A contacts, CDF and CDM series) on pages 531-539 and 544-549 catalogue CN.16
- for maximum current load see the following connector inserts derating diagrams



dimensions in mm

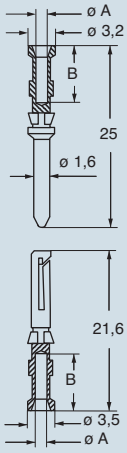


contacts side (front view)



coding pin **CR CP** with loss of one contact, page 491 catalogue CN.16

dimensions in mm



CDF and CDM contacts

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

1) basic or high thickness gold plating page 480 catalogue CN.16

dimensions shown are not binding and may be changed without notice

CQ 21 poles 6,5A - 50V ac / 120V dc

enclosures:
size "21.21" page:

* **refer to catalogue page CN.16**

inserts, crimp connections

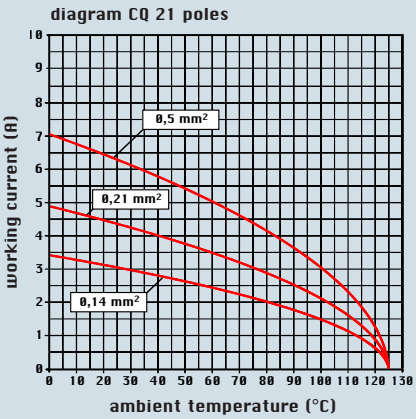
AVAILABLE NOVEMBER 2017

CI crimp contacts silver and gold plated

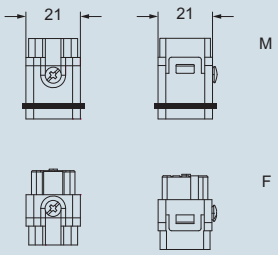
AVAILABLE NOVEMBER 2017

description	part No.	part No.	part No.
without contacts (to be ordered separately) female inserts for female contacts male inserts for male contacts	**CQF 21** **CQM 21**		
CI female crimp contacts 0,08-0,21 mm² AWG 28-24 0,13-0,33 mm² AWG 26-22 0,33-0,52 mm² AWG 22-20 CI male crimp contacts 0,08-0,21 mm² AWG 28-24 0,13-0,33 mm² AWG 26-22 0,33-0,52 mm² AWG 22-20		**CIFA 0.2** **CIFA 0.3** **CIFA 0.5** **CIMA 0.2** **CIMA 0.3** **CIMA 0.5** **silver plated**	**CIFD 0.2** **CIFD 0.3** **CIFD 0.5** **CIMD 0.2** **CIMD 0.3** **CIMD 0.5** **gold plated**

- characteristics according to EN 61984:
  6,5A 50V ac / 120V dc 0,8kV 3
- insulation resistance: ≥ 10 GΩ
- ambient temperature limits: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 4 mΩ
- one pre-mating contact
- for crimp contacts CI series use, see page 540 catalogue CN.16
  CIPZ D crimping tool
  CITP D turret head
  CIES insertion / removal tool
- for maximum current load see the following connector inserts derating diagrams

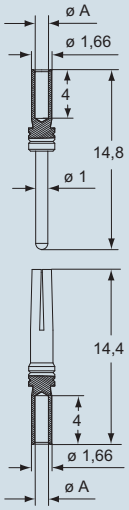


dimensions in mm



contacts side (front view)

dimensions in mm



CIF and CIM 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

max insulation diameter: 1,7 mm

dimensions shown are not binding
and may be changed without notice

The modular inserts must be installed in suitable frames which in turn are installed in traditional housings * or COB panel support.

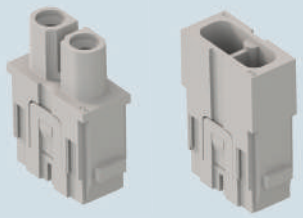
frames for modular units * .. page: 214 - 215

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

refer to catalogue page CN.16

- can be mated with CX 02 A/B modules

modular units, crimp connections



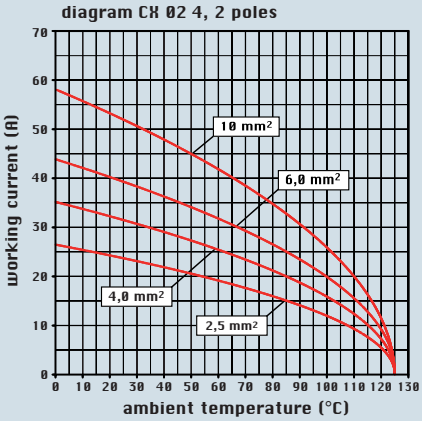
AVAILABLE NOVEMBER 2017

40A crimp contacts silver plated

description	part No.	part No.
without contacts (to be ordered separately) - female inserts for female contacts - male inserts for male contacts	**CX 02 4F *** **CX 02 4M ***	
40A female crimp contacts 1,5 mm² AWG 16 2,5 mm² AWG 14 4 mm² AWG 12 6 mm² AWG 10 10 mm² AWG 8		**CXFA 1.5** **CXFA 2.5** **CXFA 4.0** **CXFA 6.0** **CXFA 10**
40A male crimp contacts 1,5 mm² AWG 16 2,5 mm² AWG 14 4 mm² AWG 12 6 mm² AWG 10 10 mm² AWG 8		**CXMA 1.5** **CXMA 2.5** **CXMA 4.0** **CXMA 6.0** **CXMA 10**

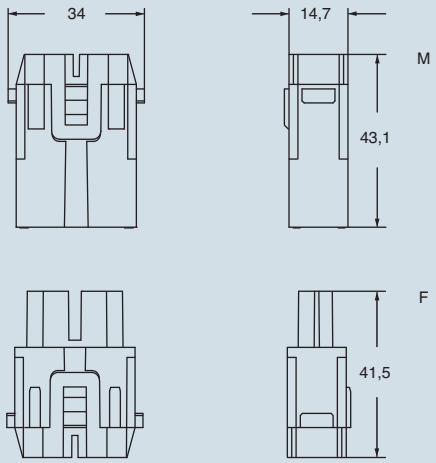
silver plated

- characteristics according to EN 61984:
  40A 1000V 8kV 3
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- are made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 0,3 mΩ
- for contact crimping instructions (1,5 - 10 mm²), please see the crimping tool section (40A contacts, CXF and CXM series) on pages 531-539 and 544-549 catalogue CN.16
- for maximum current load see the following connector inserts derating diagrams



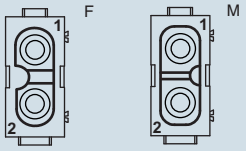
* cable diameter up to 7.5 mm
  contact size up to 10 mm²

dimensions in mm



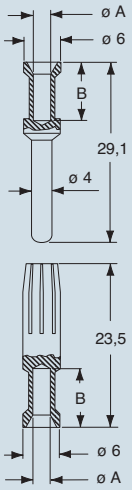
contacts side (front view)

side with reference arrow ▲



- 1 frame slot

dimensions in mm



CXF and CXM contacts

conductor section mm²	conductor slot ø A (mm)	conductors stripping length B (mm)
1,5	1,8	9
2,5	2,2	9
4	2,85	9,6
6	3,5	9,6
10	4,3	15

dimensions shown are not binding and may be changed without notice

MIXO modular units 25 poles 4A - 50V

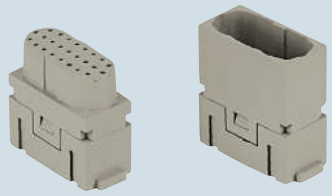
The modular inserts must be installed in suitable frames which are then mounted in traditional housings or COB panel support.

frames for modular units ..... page: 214 - 215

refer to catalogue page CN.16

- max insulating diameter 2,1 mm
- we recommend the use of CRF / CRM code pins

modular units, crimp connections



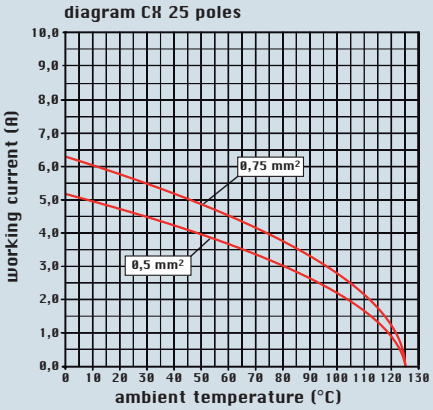
AVAILABLE NOVEMBER 2017

CI crimp contacts silver and gold plated

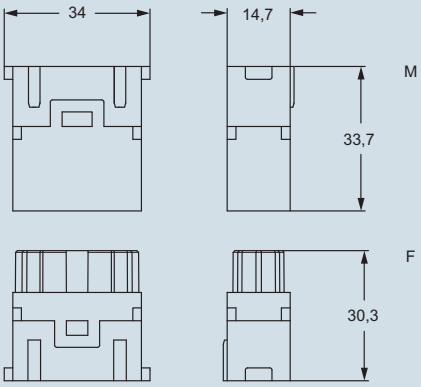
AVAILABLE NOVEMBER 2017

description	part No.	part No.	part No.
without contacts (to be ordered separately) - female inserts for female contacts - male inserts for male contacts	**CX 25 IBF** **CX 25 IBM**		
CI female crimp contacts 0,08-0,21 mm² AWG 28-24 0,13-0,33 mm² AWG 26-22 0,33-0,52 mm² AWG 22-20 0,52-0,75 mm² AWG 20-18		**CIFA 0.2** **CIFA 0.3** **CIFA 0.5** **CIFA 0.7**	**CIFD 0.2** **CIFD 0.3** **CIFD 0.5** **CIFD 0.7**
CI male crimp contacts 0,08-0,21 mm² AWG 28-24 0,13-0,33 mm² AWG 26-22 0,33-0,52 mm² AWG 22-20 0,52-0,75 mm² AWG 20-18		**CIMA 0.2** **CIMA 0.3** **CIMA 0.5** **CIMA 0.7**	**CIMD 0.2** **CIMD 0.3** **CIMD 0.5** **CIMD 0.7**
		silver plated	**gold plated**

- characteristics according to EN 61984:
  4A 50V 0,8kV 3
  4A 160V 2,5kV 2
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- for crimp contacts CI series use, on page 540 catalogue CN.16
  CIPZ D crimping tool
  CITP D turret head
  CIES insertion / removal tool for contacts 0,2 - 0,5 mm²
  CIES B insertion / removal tool for contacts 0,75 mm²
- for maximum current load see the following connector inserts derating diagrams

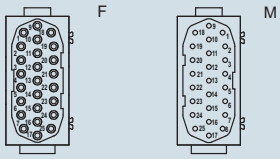


dimensions in mm



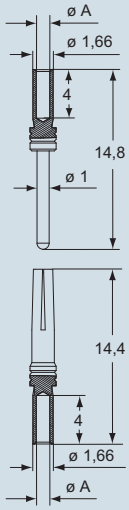
contacts side (front view)

side with reference arrow ▲



- 1 frame slot

dimensions in mm



CIF and CIM contacts

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

dimensions shown are not binding and may be changed without notice

MIXO series

Main features

Inserts CX 04 SC

The new MIXO inserts **CX 04 SC** enable use of **fibre optic SC contacts**, up to 4 SC contacts per connector, for indoor or outdoor heavy duty industrial applications, with ILME connector enclosures.

The female inserts are provided with 4 **ceramic** (zirconia) type **split alignment sleeves**, for minimal insertion loss (e.g. for critical network connections) and are best suitable for single-mode F/O cable connections. As optional accessory, **metallic** (phosphor bronze) **split alignment sleeves** are also available for more durable (less prone to cracking) applications, but less demanding precision alignment, thus most suitable for multi-mode fibre applications.

The **fibre optic SC contacts** (genderless, to be purchased separately) are available both for multi-mode fibres (50/125 µm or 62,5/125 µm) and single-mode fibre (9/125 µm).

The fibre optic SC contacts are also available for the hard-clad silica (HCS® *) or polymer-clad fibre (PCF) 200/230 µm fibre optic cables and for the less demanding, with shorter transmission distance covered, but more cost effective POF Ø 1 mm applications, available with crimp technique version (crimping tool required).

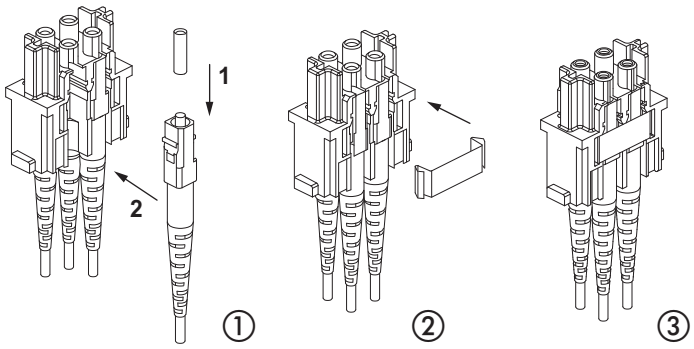
NOTE. Due to the higher skill and training required to produce an effectively performing fibre optic junction for a single-mode type fibre-optic cable than for a multi-mode one, dedicated contacts for single-mode are available only upon request. Contact our Commercial Department for a quotation. It is more practical in such case to equip these MIXO inserts with ready-to-use fibre optic patch cords. Quick assembly technique version (tool-less) for POF Ø 1 mm cables are also available only upon request, please send inquiry to our Commercial Department.

* HCS® is a trademark of Furukawa Electric North America, Inc.

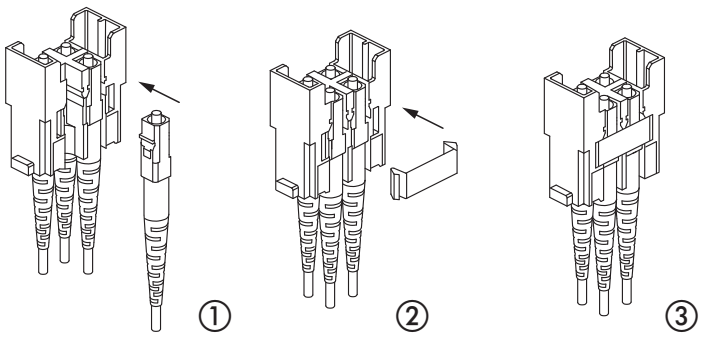
Part No. of inserts		CX 04 SC
No. of seats/poles	seats for optical contacts (SC connectors)	4
ambient temperature limit (°C)	min	-40
	max	+85
degree of protection	with enclosures (according to type)	**IP65**/IP69, **IP66**/IP69, IP66/**IP67**/P69, IP66/**IP68**/P69 (*)
fibre optic connection		glue, crimp
mechanical endurance (mating cycles)		≥ 500
self-extinguishing capacity UL 94		94V-0

(*) The degree of protection marked in **bold** is that under which the enclosure series are commercially known. Their complete degree of protection ("versatile" per IEC/EN 60529 Ed.2.2) is comprehensive of the two or three values divided by slash(es): ILME IP65 and IP66 enclosures are also IP69, ILME IP67 enclosures are also IP66 and IP69, ILME IP68 enclosures are also IP66 and IP69. The complete marking is justified as IPX9 does not cover IPX8, IPX7, IPX6 or IPX5, test for IPX7 does not cover IPX6 or IPX5 and test for IPX8 does not cover IPX6.

CX 04 SCF / CX 04 SCF-H



CX 04 SCM



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

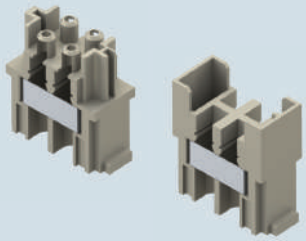
frames for modular units ..... page: 214 - 215

refer to catalogue page CN.16

- insulation resistance: ≥ 10 GΩ
- are made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- temperature range: from -40 °C to +85 °C

WARNING:
inserts can be used on high enclosures or bulkhead housings only.

module adaptor for SC connectors



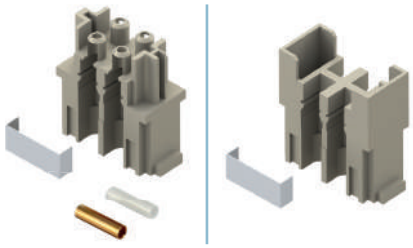
AVAILABLE NOVEMBER 2017

crimp FO contacts

description	part No.	part No.
module insert with seats for 4 SC contacts (metal fixing plate included) - female insert, with ceramic sleeve - female insert, with metallic sleeve - male insert	**CX 04 SCF** **CX 04 SCF-H** **CX 04 SCM**	
SC contact for GI FIBRE 50/125 µm or 62.5/125 µm SC contact for ø POF 1 mm		**CL 125 SC** **CL POF SC**

- adaptor insert fitted with metal plate and sleeve (female only) fixing

CX 04 SC



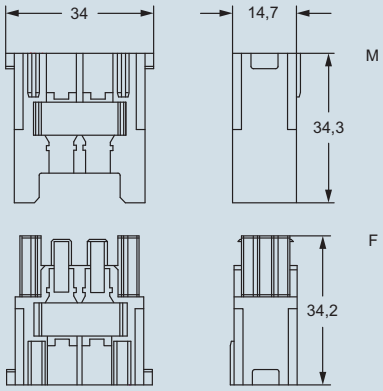
- adaptor insert designed to be used with SC contacts
- SC contact for SI FIBRE (HCS®) 200/230 µm: **CL 230 SC** (on request)
- base equipment for SC contact GI FIBRE: **CLKZ 125 SC**
  If this application is required, please contact ILME SpA.
- supplementary set for POF: **CLKZ POF**
  (to be ordered with CLKZ 125 SC)
  If this application is required, please contact ILME SpA.

SC duplex patch cord

CW SC from page 510 catalogue CN.16

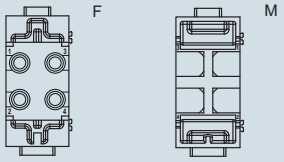
dimensions in mm

CX 04 SCF, CX 04 SCF-H, CX 04 SCM



contacts side (front view)

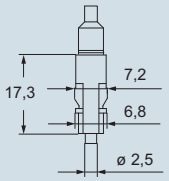
side with reference arrow ▲



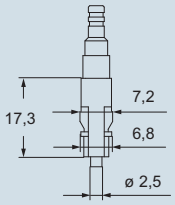
- 1 frame slot

dimensions in mm

CL 125 SC



CL POF SC



dimensions shown are not binding and may be changed without notice

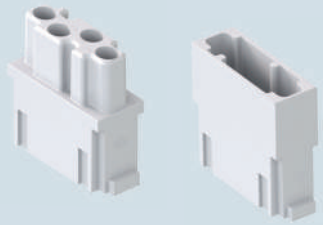
MIXO modular units for coaxial contacts DIN 41626-T2

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

frames for modular units ..... page: 214 - 215

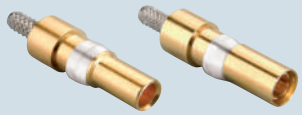
refer to catalogue page CN.16

modular units, crimp connections



AVAILABLE NOVEMBER 2017

crimp coaxial contacts



AVAILABLE NOVEMBER 2017

description	part No.	part No.
without contacts (to be ordered separately) - female inserts for female contacts - male inserts for male contacts	**CX 04 RF** **CX 04 RM**	
female coaxial contacts 50Ω male coaxial contacts 50Ω		**CX 50 RF** **CX 50 RM**
female coaxial contacts 75Ω male coaxial contacts 75Ω		**CX 75 RF** **CX 75 RM**

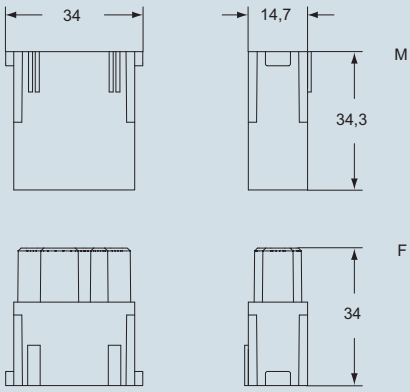
- inserts are made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- in accordance with standard DIN 41626-T2
- finishing: contact surfaces, body, back end and ferrule gold plated
- impedance: 50 Ω
- frequency: DC to 6 GHz
- return loss: ≥ 21 dB, DC to 2 GHz
  ≥ 19 dB, 2 to 6 GHz
- insertion loss: ≤ 0,1 x $\sqrt{f(GHz)}$ dB
- center contact resistance: ≤ 10 mΩ
- outer contact resistance: ≤ 3 mΩ
- test voltage: 750V rms
- working voltage: 250V rms
- RF-leakage: ≥ 80 dB up to 0,5 GHz
  ≥ 65 dB up to 1,5 GHz
- to crimp contacts CX 50 RM/RF, CX 75 RM/RF use tool COPZ R (see the crimping tool section on page 552 catalogue CN.16)

Warnings:
We recommend the use of code pins **CRF CX** / **CRM CX**.

dimensions shown are not binding and may be changed without notice

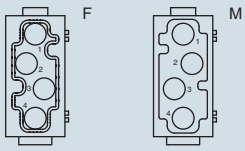
dimensions in mm

CX 04 RF / RM



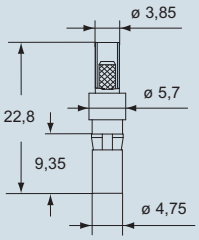
contacts side (front view)

side with reference arrow ▲

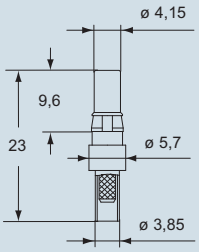


- 1 frame slot

dimensions in mm

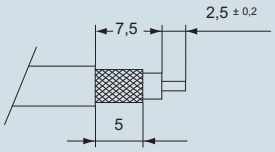


M (**CX 50 RM / CX 75 RM**)



F (**CX 50 RF / CX 75 RF**)

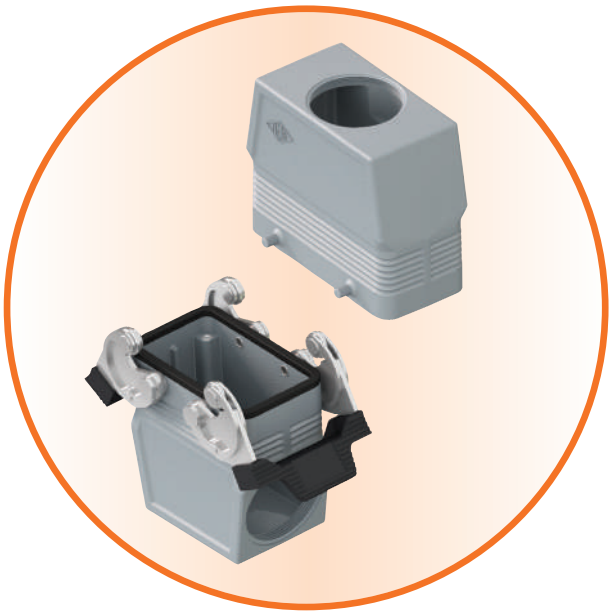
conductor stripping



coaxial contacts	for cables	ø external	part No.
50Ω	RG 316/U RG 174 A/U RG 188 A/U	2,49 ±0,1 2,79 ±0,127 2,79 max	CX 50 RF CX 50 RM
75Ω	RG 179 B/U RG 187 A/U TZC 75 101	2,54 ±0,127 2,79 max 2,79 max	CX 75 RF CX 75 RM

C-TYPE series

M40 cable entry, without adaptor - hoods with pegs or levers



M40

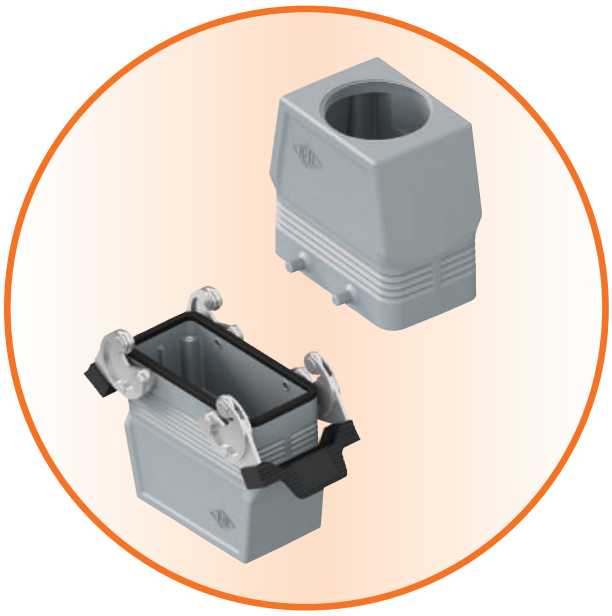
TOP OR SIDE

CABLE ENTRY

FOR CABLE GLANDS

WITH LONG

THREAD

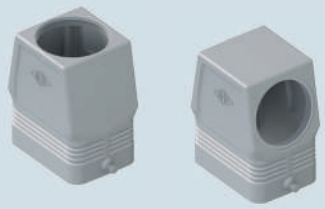


inserts:		page:
CDD	24 poles + ⏚	67 *
CDS	9 poles + ⏚	78 *
CDSH	9 poles + ⏚	9 **
CDSH NC	6 poles + ⏚	19 **
CSH	6 poles + ⏚	91 *
CNE, CSE	6 poles + ⏚	104 *
CCE	6 poles + ⏚	110 *
CSS	6 poles + ⏚	122 *
CQE	10 poles + ⏚	138 *
MIXO	2 modules	179 - 215 *

*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

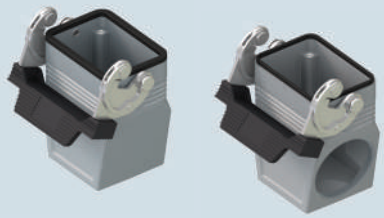
insert centre distance:
44 x 27 mm

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



AVAILABLE NOVEMBER 2017

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



AVAILABLE NOVEMBER 2017

description	part No.	entry M	part No.	entry M
with pegs, side entry, high construction, without adaptor *	**MFO 06 L40**	40		
with pegs, top entry, high construction, without adaptor *	**MFV 06 L40**	40		
with lever, side entry, high construction, without adaptor *			**MFO 06 LG40**	40
with lever, top entry, high construction, without adaptor *			**MFV 06 LG40**	40

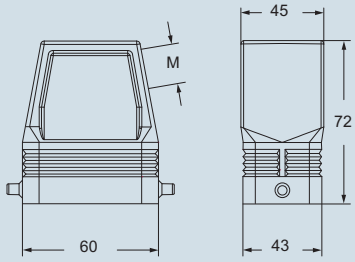
* enclosure without adaptor, threaded on the body, to be used only with a complete cable gland.

dimensions in mm

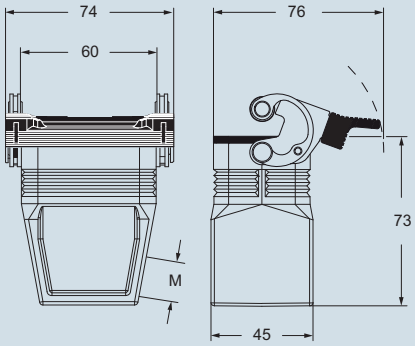
dimensions in mm

alternatively, hoods with pegs are coupled with fixed enclosures:
- C-TYPE, IP65/IP66 stainless steel lever, from page 240 to page 243 catalogue CN.16
- C7, IP67 stainless steel lever, page 274 catalogue CN.16
- CV, IP66 stainless steel lever, page 280 and 284 catalogue CN.16

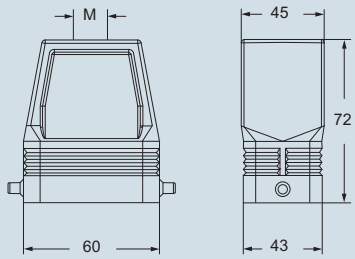
MFO L



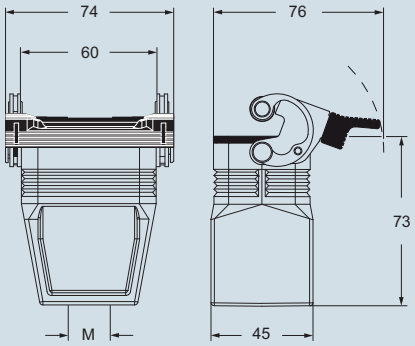
MFO LG



MFV L



MFV LG



IP degrees are according to the type of lever and:

EN 60529 IP65 IEC 60529 — cable gland without O-Ring gasket

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

dimensions shown are not binding
and may be changed without notice

inserts:		page:
CDD 24	poles + ⏚	67 *
CDS 9	poles + ⏚	78 *
CDSH 9	poles + ⏚	9 **
CDSH NC 6	poles + ⏚	19 **
CSH 6	poles + ⏚	91 *
CNE, CSE 6	poles + ⏚	104 *
CCE 6	poles + ⏚	110 *
CSS 6	poles + ⏚	122 *
CQE 10	poles + ⏚	138 *
MIXO 2	modules	179 - 215 *

*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert centre distance:
44 x 27 mm

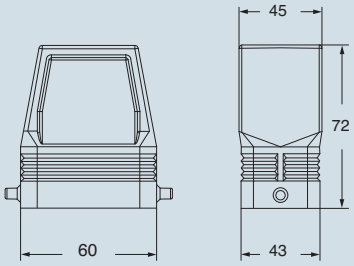
hoods without entry, to be drilled

AVAILABLE NOVEMBER 2017

description	part No. with 2 pegs
with pegs, high construction	**CAC 06 L**

alternatively, hoods with pegs are coupled with fixed enclosures:
- C-TYPE, IP65/IP66 stainless steel lever, from page 240 to page 243 catalogue CN.16
- C7, IP67 stainless steel lever, page 274 catalogue CN.16
- CV, IP66 stainless steel lever, page 280 and 284 catalogue CN.16

dimensions in mm



IP degrees are according to the type of lever and:

EN 60529 IP65 IEC 60529 — cable gland without O-Ring gasket

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

dimensions shown are not binding and may be changed without notice

inserts:		page:
CDD	42 poles + ⏚	69 *
CDS	18 poles + ⏚	79 *
CDSH	18 poles + ⏚	10 **
CSH	10 poles + ⏚	92 *
CNE, CSE	10 poles + ⏚	105 *
CCE	10 poles + ⏚	111 *
CSS	10 poles + ⏚	123 *
CQE	18 poles + ⏚	139 *
CMCE	3+2 (aux) poles + ⏚	148 *
CMSH	3+2 (aux) poles + ⏚	149 *
CX	8/24 poles + ⏚	169 *
MIXO	3 modules	179 - 215 *

*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert centre distance:
57 x 27 mm

hoods with 4 pegs
M40 cable entry with 20 mm thread length

AVAILABLE NOVEMBER 2017

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

AVAILABLE NOVEMBER 2017

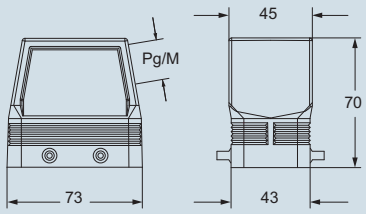
description	part No.	entry Pg	part No.	entry M	part No.	entry Pg	part No.	entry M
with pegs, side entry, high construction, without adaptor *	**CFO 10.21**	21	**MFO 10.32**	32	**CFO 10 L21**	21	**MFO 10 L32**	32
with pegs, side entry, high construction, without adaptor *	**CFO 10.29**	29	**MFO 10.40**	40	**CFO 10 L29**	29	**MFO 10 L40**	40
with pegs, top entry, high construction, without adaptor *	**CFV 10.21**	21	**MFV 10.32**	32	**CFV 10 L21**	21	**MFV 10 L32**	32
with pegs, top entry, high construction, without adaptor *	**CFV 10.29**	29	**MFV 10.40**	40	**CFV 10 L29**	29	**MFV 10 L40**	40

* enclosure without adaptor, threaded on the body, to be used only with a complete cable gland.

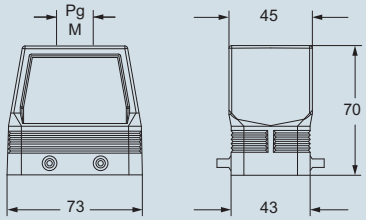
alternatively, hoods with pegs are coupled with fixed enclosures:
- C-TYPE, IP65/IP66 stainless steel lever, from page 244 to page 249 catalogue CN.16
- C7, IP67 stainless steel lever, page 275 catalogue CN.16
- CV, IP66 stainless steel lever, page 281 and 288 catalogue CN.16

dimensions in mm

CFO and **MFO**

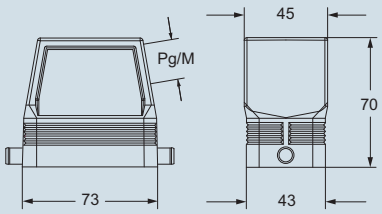


CFV and **MFV**

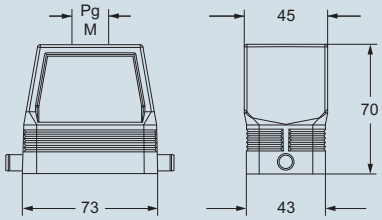


dimensions in mm

CFO L and **MFO L**



CFV L and **MFV L**



IP degrees are according to the type of lever and:

EN 60529 IP65 IEC 60529 — cable gland without O-Ring gasket

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

dimensions shown are not binding and may be changed without notice

inserts:		page:
CDD	42 poles + ⏚	69 *
CDS	18 poles + ⏚	79 *
CDSH	18 poles + ⏚	10 **
CSH	10 poles + ⏚	92 *
CNE, CSE	10 poles + ⏚	105 *
CCE	10 poles + ⏚	111 *
CSS	10 poles + ⏚	123 *
CQE	18 poles + ⏚	139 *
CMCE	3+2 (aux) poles + ⏚	148 *
CMSH	3+2 (aux) poles + ⏚	149 *
CX	8/24 poles + ⏚	169 *
MIXO	3 modules	179 - 215 *

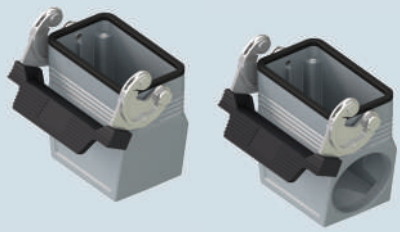
*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert centre distance:
57 x 27 mm

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

AVAILABLE NOVEMBER 2017

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



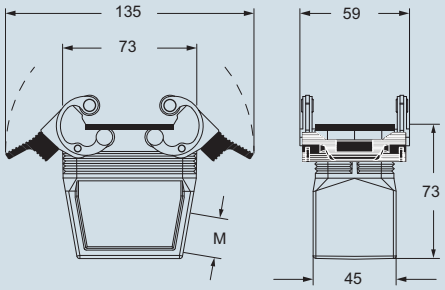
AVAILABLE NOVEMBER 2017

description	part No.	entry M	part No.	entry M
with levers and gasket, side entry, high construction, without adaptor *	**MFO 10 G40**	40	**MFO 10 LG40**	40
with levers and gasket, top entry, high construction, without adaptor *	**MFV 10 G40**	40	**MFV 10 LG40**	40

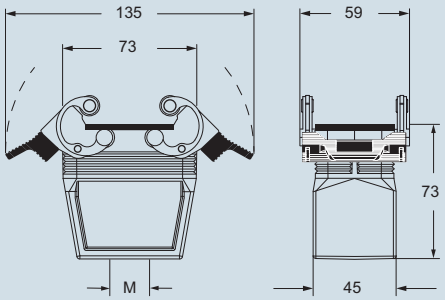
* enclosure without adaptor, threaded on the body, to be used only with a complete cable gland.

dimensions in mm

MFO G

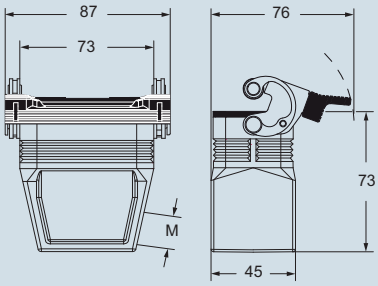


MFV G

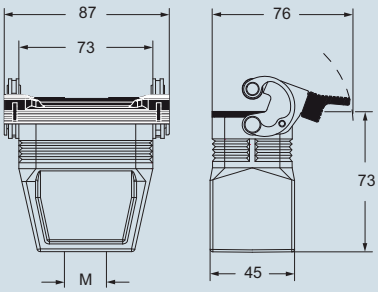


dimensions in mm

MFO LG



MFV LG



IP degrees are according to the type of lever and:

EN 60529 IP65 IEC 60529 — cable gland without O-Ring gasket

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

dimensions shown are not binding
and may be changed without notice

inserts: page:

CDD	42	poles + ⏚	69 *
CDS	18	poles + ⏚	79 *
CDSH	18	poles + ⏚	10 **
CSH	10	poles + ⏚	92 *
CNE, CSE	10	poles + ⏚	105 *
CCE	10	poles + ⏚	111 *
CSS	10	poles + ⏚	123 *
CQE	18	poles + ⏚	139 *
CMCE	3+2 (aux)	poles + ⏚	148 *
CMSH	3+2 (aux)	poles + ⏚	149 *
CX	8/24	poles + ⏚	169 *
MIXO	3	modules	179 - 215 *

*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert centre distance:
57 x 27 mm

hoods without entry, to be drilled

AVAILABLE NOVEMBER 2017

hoods without entry, to be drilled

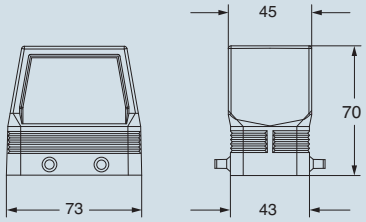
AVAILABLE NOVEMBER 2017

description	part No. with 4 pegs	part No. with 2 pegs
with pegs, high construction	**CAC 10**	**CAC 10 L**

alternatively, hoods with pegs are coupled with fixed enclosures:
- C-TYPE, IP65/IP66 stainless steel lever, from page 244 to page 249 catalogue CN.16
- C7, IP67 stainless steel lever, page 275 catalogue CN.16
- CV, IP66 stainless steel lever, page 281 and 288 catalogue CN.16

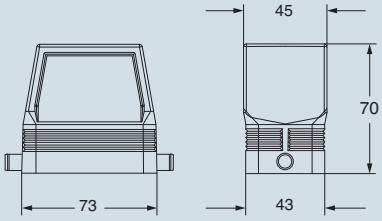
dimensions in mm

CAC



dimensions in mm

CAC L



IP degrees are according to the type of lever and:

EN 60529 IP65 IEC 60529 — cable gland without O-Ring gasket

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

dimensions shown are not binding and may be changed without notice

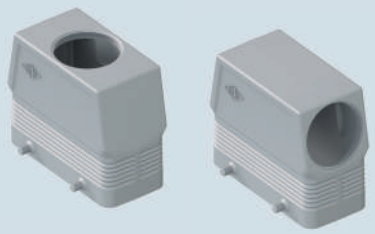
inserts: page:

CD	40	poles + ⏚	57 *
CDD	72	poles + ⏚	70 *
CDS	27	poles + ⏚	80 *
CDSH	27	poles + ⏚	11 **
CSH	16	poles + ⏚	93 *
CNE, CSE	16	poles + ⏚	106 *
CCE	16	poles + ⏚	112 *
CSS	16	poles + ⏚	124 *
CQE	32	poles + ⏚	140 *
CQEE	40	poles + ⏚	146 *
CMCE, CMSH	6+2 (aux)	poles + ⏚	150-151 *
CP	6	poles + ⏚	162 *
CX	6/12	poles + ⏚	21 **
CX	6/36 and 12/2	poles + ⏚	170-171 *
CX	4/0 and 4/2	poles + ⏚	172 *
MIXO	4	modules	179-215 *

*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

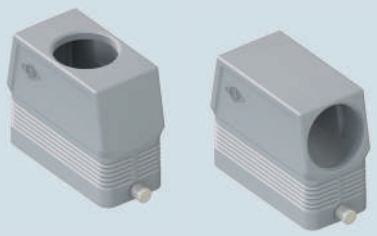
insert centre distance: **77,5 x 27 mm**

hoods with 4 pegs
M40 cable entry with 20 mm thread length



AVAILABLE NOVEMBER 2017

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



AVAILABLE NOVEMBER 2017

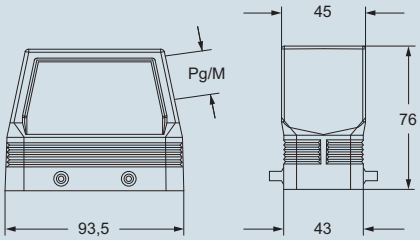
description	part No.	entry Pg	part No.	entry M	part No.	entry Pg	part No.	entry M
with pegs, side entry, high construction, without adaptor *	**CFO 16.21**	21	**MFO 16.32**	32	**CFO 16 L21**	21	**MFO 16 L32**	32
with pegs, side entry, high construction, without adaptor *	**CFO 16.29**	29	**MFO 16.40**	40	**CFO 16 L29**	29	**MFO 16 L40**	40
with pegs, top entry, high construction, without adaptor *	**CFV 16.21**	21	**MFV 16.32**	32	**CFV 16 L21**	21	**MFV 16 L32**	32
with pegs, top entry, high construction, without adaptor *	**CFV 16.29**	29	**MFV 16.40**	40	**CFV 16 L29**	29	**MFV 16 L40**	40

* enclosure without adaptor, threaded on the body, to be used only with a complete cable gland.

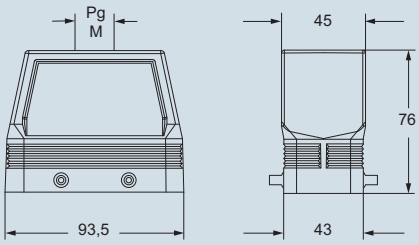
alternatively, hoods with pegs are coupled with fixed enclosures:
- C-TYPE, IP65/IP66 stainless steel lever, from page 250 to page 256 catalogue CN.16
- C7, IP67 stainless steel lever, page 276 catalogue CN.16
- CV, IP66 stainless steel lever, page 282 and 292 catalogue CN.16

dimensions in mm

CFO and **MFO**

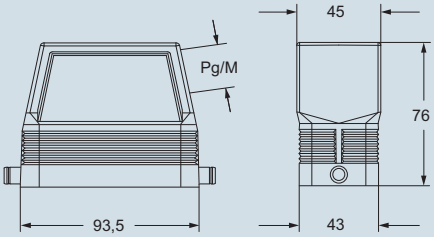


CFV and **MFV**

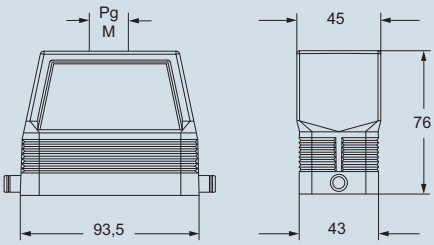


dimensions in mm

CFO L and **MFO L**



CFV L and **MFV L**



IP degrees are according to the type of lever and:

EN 60529 IP65 IEC 60529 — cable gland without O-Ring gasket

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

dimensions shown are not binding and may be changed without notice

inserts: page:

CD	40	poles + ⏚	57 *
CDD	72	poles + ⏚	70 *
CDS	27	poles + ⏚	80 *
CDSH	27	poles + ⏚	11 **
CSH	16	poles + ⏚	93 *
CNE, CSE	16	poles + ⏚	106 *
CCE	16	poles + ⏚	112 *
CSS	16	poles + ⏚	124 *
CQE	32	poles + ⏚	140 *
CQEE	40	poles + ⏚	146 *
CMCE, CMSH	6+2 (aux)	poles + ⏚	150-151 *
CP	6	poles + ⏚	162 *
CX	6/12	poles + ⏚	21 **
CX	6/36 and 12/2	poles + ⏚	170-171 *
CX	4/0 and 4/2	poles + ⏚	172 *
MIXO	4	modules	179-215 *

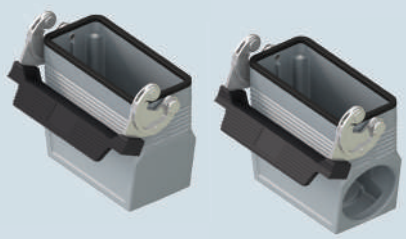
*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert centre distance: **77,5 x 27 mm**

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

AVAILABLE NOVEMBER 2017

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



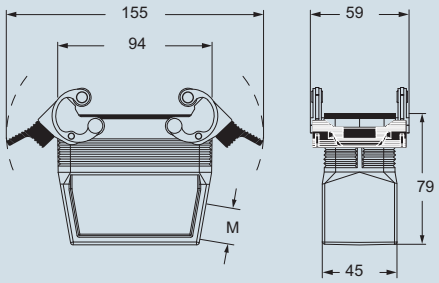
AVAILABLE NOVEMBER 2017

description	part No.	entry M	part No.	entry M
with levers and gasket, side entry, high construction, without adapter *	**MFO 16 G40**	40	**MFO 16 LG40**	40
with levers and gasket, top entry, high construction, without adapter *	**MFV 16 G40**	40	**MFV 16 LG40**	40

* enclosure without adaptor, threaded on the body, to be used only with a complete cable gland.

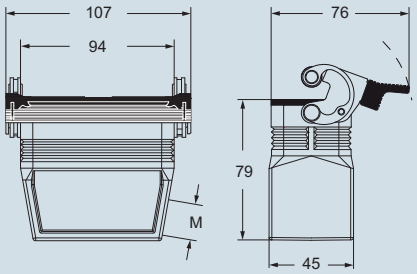
dimensions in mm

MFO G

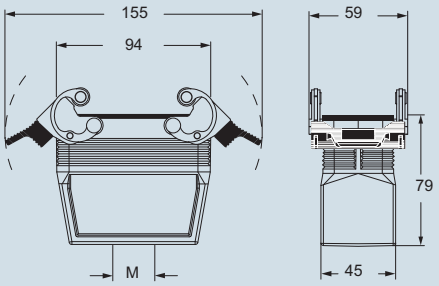


dimensions in mm

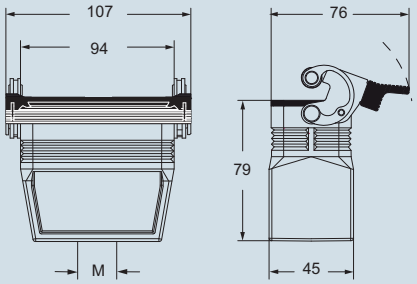
MFO LG



MFV G



MFV LG



IP degrees are according to the type of lever and:

cable gland
without O-Ring gasket

cable gland
equipped with O-Ring gasket

dimensions shown are not binding
and may be changed without notice

inserts: page:

CD	40	poles + ⏚	57 *
CDD	72	poles + ⏚	70 *
CDS	27	poles + ⏚	80 *
CDSH	27	poles + ⏚	11 **
CSH	16	poles + ⏚	93 *
CNE, CSE	16	poles + ⏚	106 *
CCE	16	poles + ⏚	112 *
CSS	16	poles + ⏚	124 *
CQE	32	poles + ⏚	140 *
CQEE	40	poles + ⏚	146 *
CMCE, CMSH	6+2 (aux)	poles + ⏚	150-151 *
CP	6	poles + ⏚	162 *
CX	6/12	poles + ⏚	21 **
CX	6/36 and 12/2	poles + ⏚	170-171 *
CX	4/0 and 4/2	poles + ⏚	172 *
MIXO	4	modules	179-215 *

*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert centre distance: **77,5 x 27 mm**

hoods without entry, to be drilled

AVAILABLE NOVEMBER 2017

hoods without entry, to be drilled

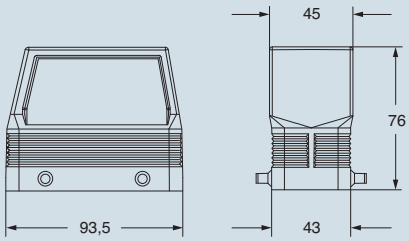
AVAILABLE NOVEMBER 2017

description	part No. with 4 pegs	part No. with 2 pegs
with pegs, high construction	**CAC 16**	**CAC 16 L**

alternatively, hoods with pegs are coupled with fixed enclosures:
- C-TYPE, IP65/IP66 stainless steel lever, from page 250 to page 256 catalogue CN.16
- C7, IP67 stainless steel lever, page 276 catalogue CN.16
- CV, IP66 stainless steel lever, page 282 and 292 catalogue CN.16

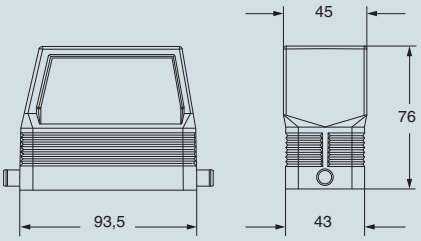
dimensions in mm

CAC



dimensions in mm

CAC L



IP degrees are according to the type of lever and:

EN 60529 IP65 IEC 60529 — cable gland without O-Ring gasket

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

dimensions shown are not binding and may be changed without notice

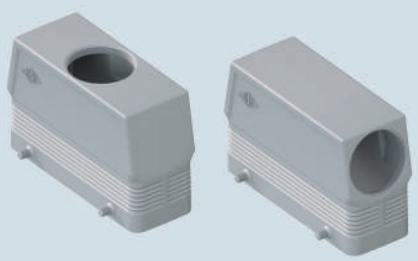
inserts: page:

CD	64	poles + ⏚	59 *
CDD	108	poles + ⏚	72 *
CDS	42	poles + ⏚	81 *
CDSH	42	poles + ⏚	12 **
CSH	24	poles + ⏚	94 *
CNE, CSE	24	poles + ⏚	107 *
CCE	24	poles + ⏚	113 *
CSS	24	poles + ⏚	125 *
CQE	46	poles + ⏚	141 *
CQEE	64	poles + ⏚	147 *
CMCE	10+2 (aux)	poles + ⏚	152 *
CMSH	10+2 (aux)	poles + ⏚	153 *
CX	4/8 and 6/6	poles + ⏚	173 and 175 *
MIXO	6	modules	179-215 *

*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

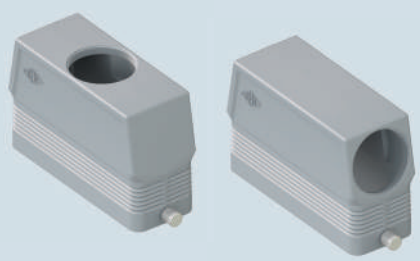
insert centre distance: **104 x 27 mm**

hoods with 4 pegs
M40 cable entry with 20 mm thread length



AVAILABLE NOVEMBER 2017

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



AVAILABLE NOVEMBER 2017

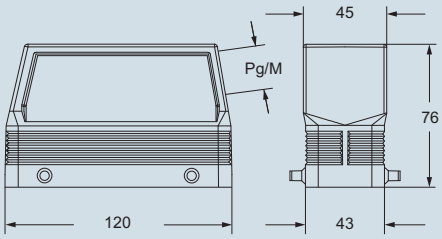
description	part No.	entry Pg	part No.	entry M	part No.	entry Pg	part No.	entry M
with pegs, side entry, high construction, without adaptor *	**CFO 24.21**	21	**MFO 24.32**	32	**CFO 24 L21**	21	**MFO 24 L32**	32
with pegs, side entry, high construction, without adaptor *	**CFO 24.29**	29	**MFO 24.40**	40	**CFO 24 L29**	29	**MFO 24 L40**	40
with pegs, top entry, high construction, without adaptor *	**CFV 24.21**	21	**MFV 24.32**	32	**CFV 24 L21**	21	**MFV 24 L32**	32
with pegs, top entry, high construction, without adaptor *	**CFV 24.29**	29	**MFV 24.40**	40	**CFV 24 L29**	29	**MFV 24 L40**	40

* enclosure without adaptor, threaded on the body, to be used only with a complete cable gland.

alternatively, hoods with pegs are coupled with fixed enclosures:
- C-TYPE, IP65/IP66 stainless steel lever, from page 258 to page 266 catalogue CN.16
- C7, IP67 stainless steel lever, page 277 catalogue CN.16
- CV, IP66 stainless steel lever, page 283 and 296 catalogue CN.16

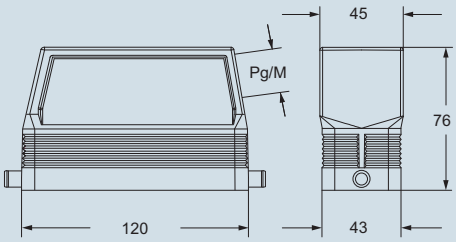
dimensions in mm

CFO and **MFO**

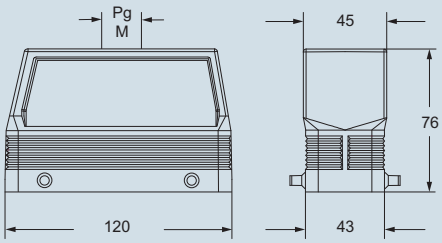


dimensions in mm

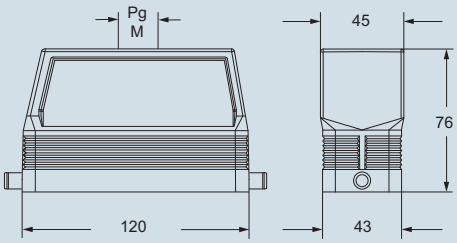
CFO L and **MFO L**



CFV and **MFV**



CFV L and **MFV L**



IP degrees are according to the type of lever and:

EN 60529 IP65 IEC 60529 — cable gland without O-Ring gasket

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

dimensions shown are not binding and may be changed without notice

inserts: page:

CD	64	poles + ⏚	59 *
CDD	108	poles + ⏚	72 *
CDS	42	poles + ⏚	81 *
CDSH	42	poles + ⏚	12 **
CSH	24	poles + ⏚	94 *
CNE, CSE	24	poles + ⏚	107 *
CCE	24	poles + ⏚	113 *
CSS	24	poles + ⏚	125 *
CQE	46	poles + ⏚	141 *
CQEE	64	poles + ⏚	147 *
CMCE	10+2 (aux)	poles + ⏚	152 *
CMSH	10+2 (aux)	poles + ⏚	153 *
CX	4/8 and 6/6	poles + ⏚	173 and 175 *
MIXO	6	modules	179-215 *

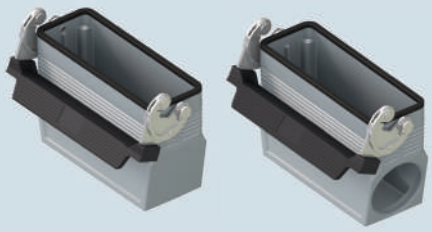
*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert centre distance: **104 x 27 mm**

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

AVAILABLE NOVEMBER 2017

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



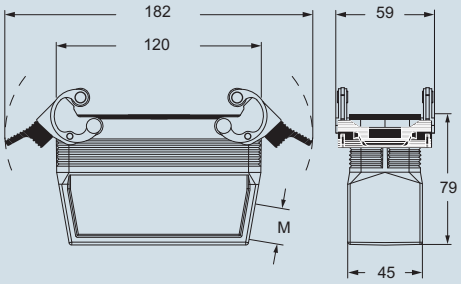
AVAILABLE NOVEMBER 2017

description	part No.	entry M	part No.	entry M
with levers and gasket, side entry, high construction, without adapter *	**MFO 24 G40**	40	**MFO 24 LG40**	40
with levers and gasket, top entry, high, without adaptor * without adapter *	**MFV 24 G40**	40	**MFV 24 LG40**	40

* enclosure without adaptor, threaded on the body, to be used only with a complete cable gland.

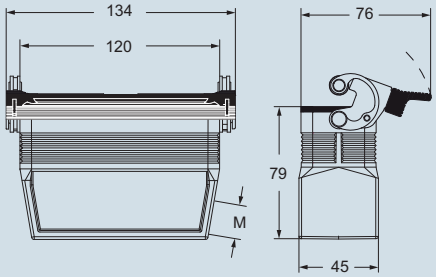
dimensions in mm

MFO G

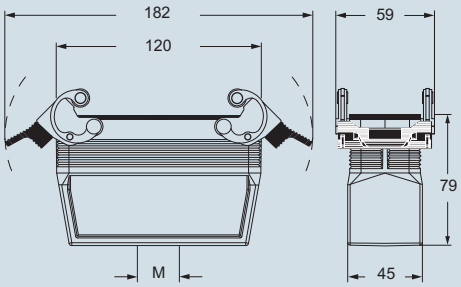


dimensions in mm

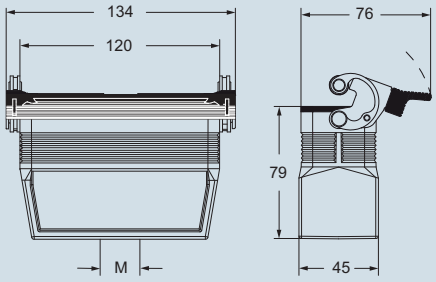
MFO LG



MFV G



MFV LG



IP degrees are according to the type of lever and:

EN 60529 IP65 IEC 60529 — cable gland without O-Ring gasket

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

dimensions shown are not binding and may be changed without notice

inserts: page:

CD	64	poles + ⏚	59 *
CDD	108	poles + ⏚	72 *
CDS	42	poles + ⏚	81 *
CDSH	42	poles + ⏚	12 **
CSH	24	poles + ⏚	94 *
CNE, CSE	24	poles + ⏚	107 *
CCE	24	poles + ⏚	113 *
CSS	24	poles + ⏚	125 *
CQE	46	poles + ⏚	141 *
CQEE	64	poles + ⏚	147 *
CMCE	10+2 (aux)	poles + ⏚	152 *
CMSH	10+2 (aux)	poles + ⏚	153 *
CX	4/8 and 6/6	poles + ⏚	173 and 175 *
MIXO	6	modules	179-215 *

*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert centre distance: **104 x 27 mm**

hoods without entry, to be drilled

AVAILABLE NOVEMBER 2017

hoods without entry, to be drilled

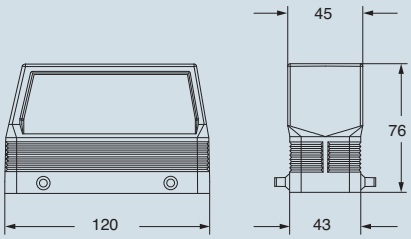
AVAILABLE NOVEMBER 2017

description	part No. with 4 pegs	part No. with 2 pegs
with pegs, high construction	**CAC 24**	**CAC 24 L**

alternatively, hoods with pegs are coupled with fixed enclosures:
- C-TYPE, IP65/IP66 stainless steel lever, from page 258 to page 266 catalogue CN.16
- C7, IP67 stainless steel lever, page 277 catalogue CN.16
- CV, IP66 stainless steel lever, page 283 and 296 catalogue CN.16

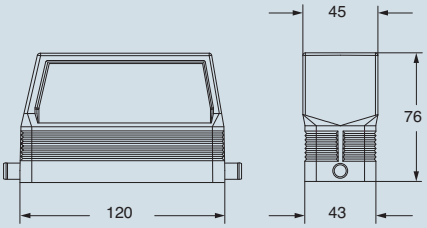
dimensions in mm

CAC



dimensions in mm

CAC L



IP degrees are according to the type of lever and:

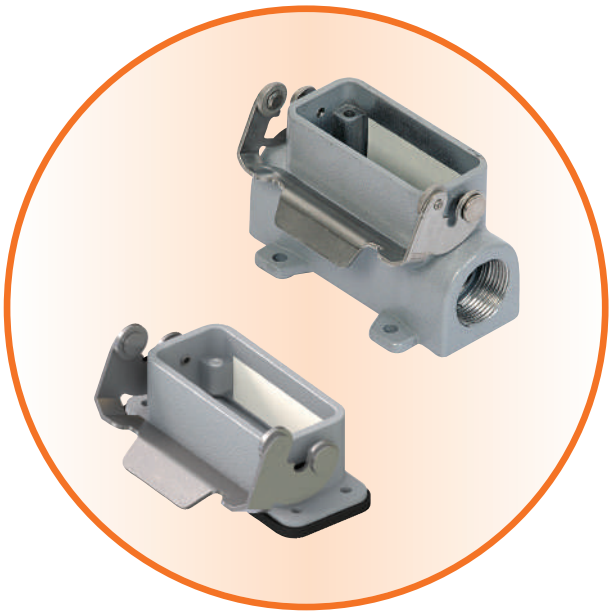
EN 60529 IP65 IEC 60529 — cable gland without O-Ring gasket

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

dimensions shown are not binding and may be changed without notice

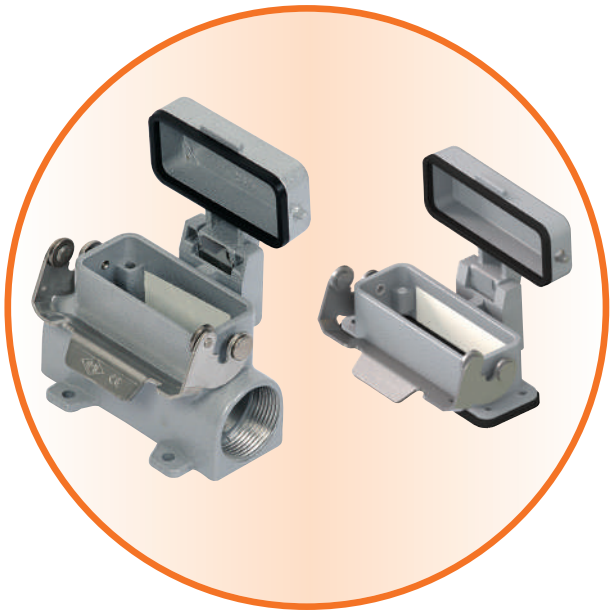
IP67 enclosures

Size 49.16 and 66.16 with stainless steel lever



IP67 ENCLOSURES WITH RIGID LOCKING LEVER

IP67 ENCLOSURES WITH RIGID LOCKING LEVER AND HINGED COVER



inserts:			page:
CD	15	poles + ⏚	55
CSAH	10	poles + ⏚	87
CDA	10	poles + ⏚	98
CDC	10	poles + ⏚	99
MIXO	1	module	179 - 214

refer to catalogue page CN.16

insert centre distance:
49 x 16 mm

bulkhead mounting housings with single lever

lever in stainless steel

EN 60529 IP66 IP67 IEC 60529

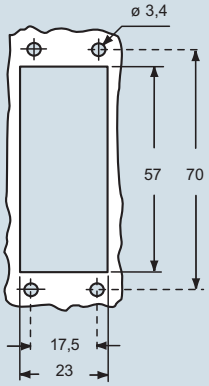
surface mounting housings with single lever

lever in stainless steel

EN 60529 IP66 IP67 IEC 60529

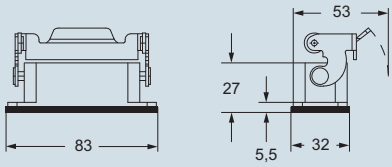
description	part No.	part No.	entry M
with single lever	**CZ7I 15 L**		
with single lever and cover	**CZ7I 15 LS**		
with single lever with single lever		**MZ7P 15 L25** **MZ7P 15 L225**	25 25 x 2
with lever and cover with lever and cover		**MZ7P 15 LS25** **MZ7P 15LS225**	25 25 x 2

panel cut-out for bulkhead mounting housings in mm

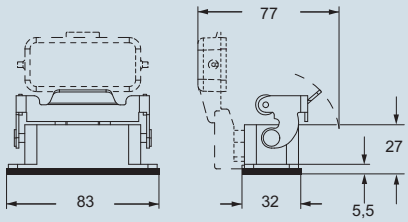


dimensions in mm

CZ7I L

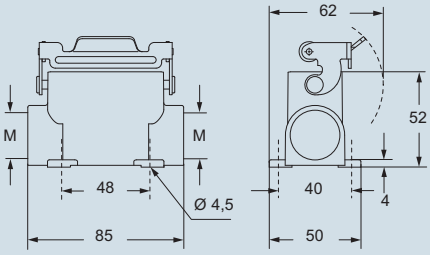


CZ7I LS

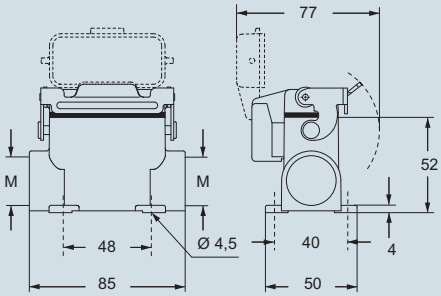


dimensions in mm

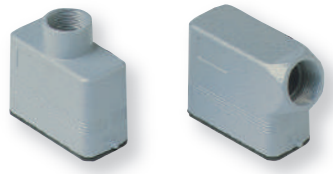
MZ7P L



MZ7P LS



Hoods:



page 231 catalogue CN.16

The new rigid lever, offers an IP66/IP67 protection rating (according to EN 60529) when fitted with a complete and coupled connector and used with ILME standard hoods in die cast aluminum with pegs (without adaptor).

For bulkhead mounting housings, IP66/IP67 protection rating is guaranteed for mounting on a sufficiently rigid panel; use M3 screws of suitable length (negligible surface buckling when subjected to tightening torque on the fixing screws of 0,9 - 1 Nm or deformation caused by the weight of the complete connector).
In addition, the panel surface in contact with the flange gasket of the bulkhead mounting housings must be free from defects (deep scratches, grooves, burrs) that could negatively affect the performance of the gasket.

dimensions shown are not binding
and may be changed without notice

CZ7 and MZ7 enclosures size “66.16” standard version RIGID LEVER

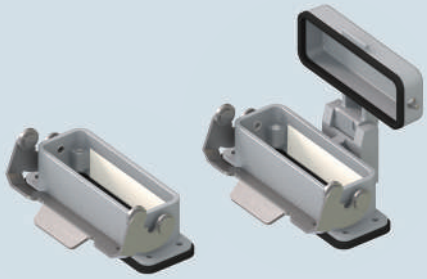
inserts: page:

CD	25 poles + ⏚	56
CDD	38 poles + ⏚	68
CSAH	16 poles + ⏚	88
CDA	16 poles + ⏚	100
CDC	16 poles + ⏚	101

refer to catalogue page CN.16

insert centre distance:
66 x 16 mm

bulkhead mounting housings with single lever



lever in stainless steel

EN 60529 IP66 IP67 IEC 60529

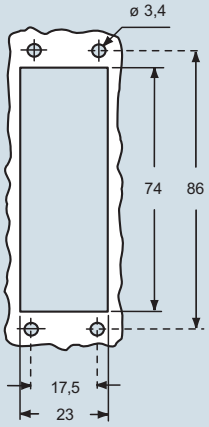
surface mounting housings with single lever

lever in stainless steel

EN 60529 IP66 IP67 IEC 60529

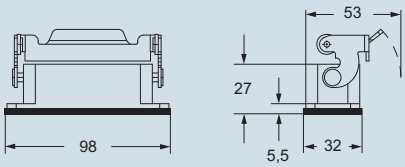
description	part No.	part No.	entry M
with single lever	**CZ7I 25 L**		
with single lever and cover	**CZ7I 25 LS**		
with single lever, high construction with single lever, high construction		**MZ7P 25 L25** **MZ7P 25 L225**	25 25 x 2
with single lever and cover, high construction with single lever and cover, high construction		**MZ7P 25 LS25** **MZ7P 25LS225**	25 25 x 2

panel cut-out for bulkhead mounting housings in mm

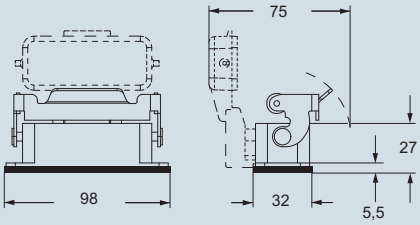


dimensions in mm

CZ7I L

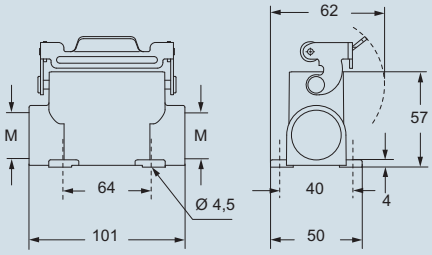


CZ7I LS

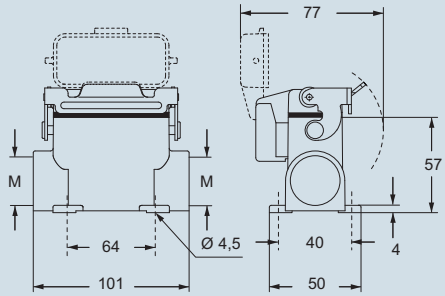


dimensions in mm

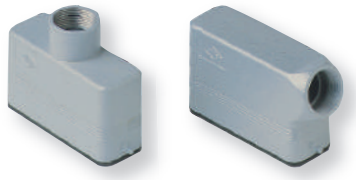
MZ7P L



MZ7P LS



Hoods:



page 234 catalogue CN.16

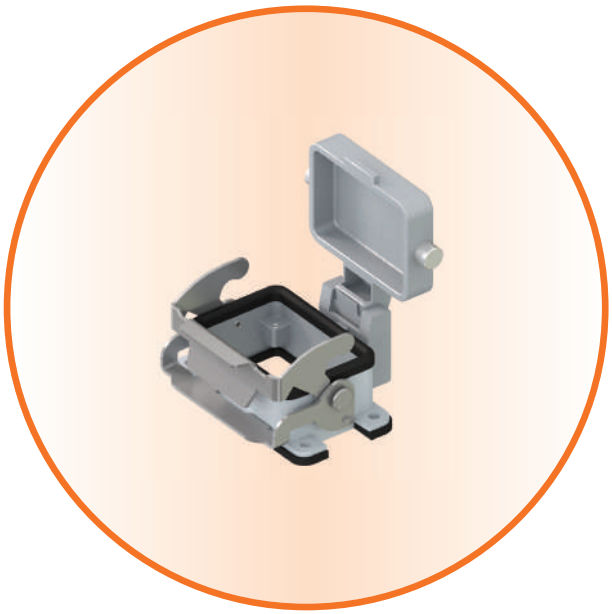
The new rigid lever, offers an IP66/IP67 protection rating (according to EN 60529) when fitted with a complete and coupled connector and used with ILME standard hoods in die cast aluminum with pegs (without adaptor).

For bulkhead mounting housings, IP66/IP67 protection rating is guaranteed for mounting on a sufficiently rigid panel; use M3 screws of suitable length (negligible surface buckling when subjected to tightening torque on the fixing screws of 0,9 - 1 Nm or deformation caused by the weight of the complete connector).
In addition, the panel surface in contact with the flange gasket of the bulkhead mounting housings must be free from defects (deep scratches, grooves, burrs) that could negatively affect the performance of the gasket.

dimensions shown are not binding
and may be changed without notice

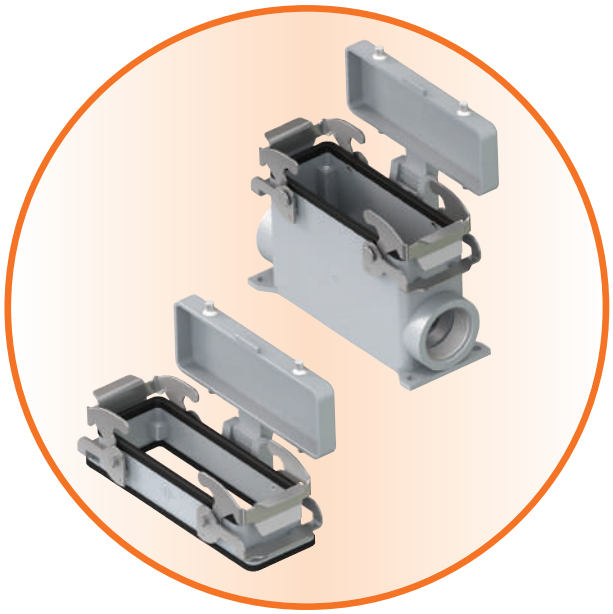
IP67 enclosures with 1 or 2 levers and cover

Stainless steel lever, vertical closing



IP67 ENCLOSURES WITH COVER, BULKHEAD OR SURFACE MOUNTING HOUSINGS

HINGED COVER AND 2 LEVERS



C7 and **M7 - M7A** IP67 enclosures size “44.27” **V-TYPE** lever version

inserts: page:

CDD	24	poles + ⏚	67 *
CDS	9	poles + ⏚	78 *
CDSH	9	poles + ⏚	9 **
CSH	6	poles + ⏚	91 *
CNE, CSE	6	poles + ⏚	104 *
CCE	6	poles + ⏚	110 *
CSS	6	poles + ⏚	122 *
CT, CTSE (16A) ***)**	6	poles + ⏚	130 *
CQE	10	poles + ⏚	138 *
MIXO	2	modules	179 - 215 *

***)** can be used only in bulkhead mounting housings

*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert centre distance:
44 x 27 mm

bulkhead mounting housings with single lever and metal cover

lever in stainless steel

EN 60529 IP66 IP67 IEC 60529

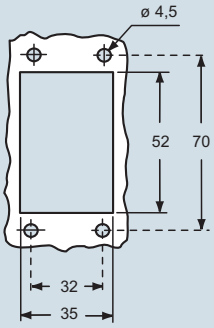
surface mounting housings with single lever and metal cover

lever in stainless steel

EN 60529 IP66 IP67 IEC 60529

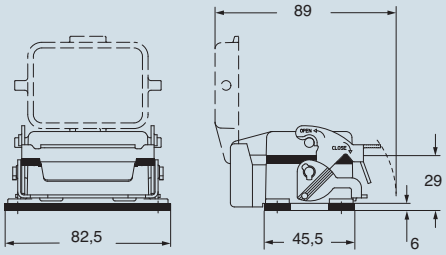
description	part No.	part No.	entry M
with lever and cover, size “44.27”	**C7I 06 LS**		
with lever and cover, size “44.27”		**M7P 06 LS20**	20
with lever and cover, size “44.27”		**M7P 06 LS220**	20 x 2
with lever and cover, high construction, size “44.27”		**M7AP 06 LS32**	32
with lever and cover, high construction, size “44.27”		**M7AP 06LS232**	32 x 2
with lever and cover, high construction, size “44.27”		**M7AP 06 LS40**	40
with lever and cover, high construction, size “44.27”		**M7AP 06LS240**	40 x 2

panel cut-out for bulkhead mounting housings in mm



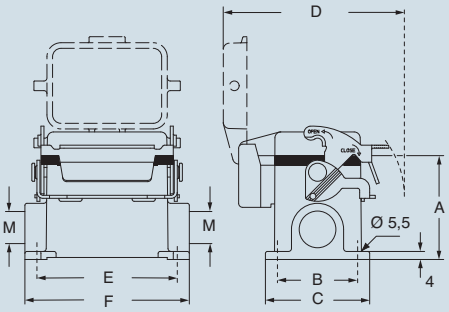
dimensions in mm

C7I LS



dimensions in mm

M7P LS - M7AP LS



type	A	B	C	D	E	F
M7P 06 LS	53	40	52	91	70	82
M7AP 06 LS	73	45	57	91	70	82

The new lever, due to the vertical closing movement, offers an IP66/IP67 protection rating (according to EN 60529) when fitted with a complete and coupled connector and used with ILME standard hoods in die cast aluminum with pegs (without adaptor).

For bulkhead mounting housings, IP66/IP67 protection rating is guaranteed for mounting on a sufficiently rigid panel; use M4 screws of suitable length (negligible surface buckling when subjected to tightening torque on the fixing screws of 0,8 - 1,2 Nm or deformation caused by the weight of the complete connector).
In case of insufficient rigidity use of C7.. FL flanges (page 278 catalogue CN.16) is recommended, in which case use suitable length M4 screws and M4 (on the enclosure) and M4 (on the flange) flat/spring washers with M4 locknut.
In addition, the panel surface in contact with the flange gasket of the bulkhead mounting housings must be free from defects (deep scratches, grooves, burrs) that could negatively affect the performance of the gasket.

Hoods:

page 18

page 304 - 306
catalogue CN.16

dimensions shown are not binding
and may be changed without notice

inserts: page:

CD	40	poles + ⏚	57 *
CT, CTS (10A) ***)**	40	poles + ⏚	64 *
CDD	72	poles + ⏚	70 *
CDS	27	poles + ⏚	80 *
CDSH	27	poles + ⏚	11 **
CSH	16	poles + ⏚	93 *
CNE, CSE	16	poles + ⏚	106 *
CCE	16	poles + ⏚	112 *
CSS	16	poles + ⏚	124 *
CT, CTSE (16A) ***)**	16	poles + ⏚	132 *
CQE	32	poles + ⏚	140 *
CQEE	40	poles + ⏚	146 *
CMCE, CMSH 6+2 (aux)		poles + ⏚	150-151 *
CP	6	poles + ⏚	162 *
CX	6/12	poles + ⏚	21 **
CX	6/36 and 12/2	poles + ⏚	170-171 *
CX	4/0 and 4/2	poles + ⏚	172 *
MIXO	4	modules	179-215 *

*) can be used only in bulkhead mounting housings

*** refer to catalogue page CN.16**

**** refer to catalogue page News 2016**

insert centre distance: **77,5 x 27 mm**

bulkhead mounting housings with 2 levers and metal cover

lever in stainless steel

EN 60529 IP66 IP67 IEC 60529

AVAILABLE NOVEMBER 2017

surface mounting housings with 2 levers and metal cover

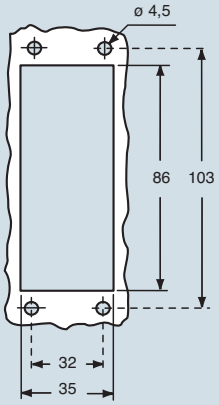
lever in stainless steel

EN 60529 IP66 IP67 IEC 60529

AVAILABLE NOVEMBER 2017

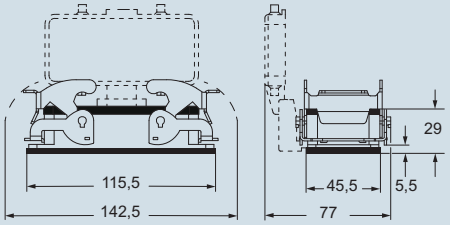
description	part No.	part No.	entry M
with levers and cover, size “77.27”	**C7I 16 S**		
with levers and cover,, high construction, size ”77.27“		**M7AP 16 S32**	32
with levers and cover,, high construction, size ”77.27“		**M7AP 16 S232**	32 x 2

panel cut-out for bulkhead mounting housings in mm



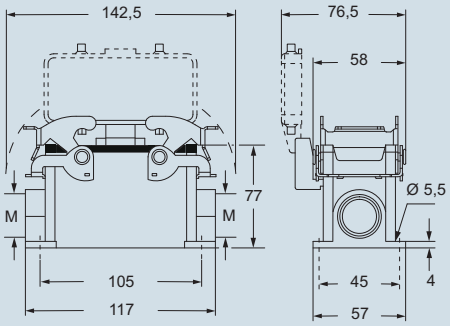
dimensions in mm

C7I S



dimensions in mm

M7AP S



The new lever, due to the vertical closing movement, offers an IP66/IP67 protection rating (according to EN 60529) when fitted with a complete and coupled connector and used with ILME standard hoods in die cast aluminum with pegs (without adaptor).

For bulkhead mounting housings, IP66/IP67 protection rating is guaranteed for mounting on a sufficiently rigid panel; use M4 screws of suitable length (negligible surface buckling when subjected to tightening torque on the fixing screws of 0,8 - 1,2 Nm or deformation caused by the weight of the complete connector).
In case of insufficient rigidity use of C7.. FL flanges (page 278 catalogue CN.16) is recommended, in which case use suitable length M4 screws and M4 (on the enclosure) and M4 (on the flange) flat/spring washers with M4 locknut.
In addition, the panel surface in contact with the flange gasket of the bulkhead mounting housings must be free from defects (deep scratches, grooves, burrs) that could negatively affect the performance of the gasket.

Hoods:

page 252 catalogue CN.16

page 312 - 315 catalogue CN.16

dimensions shown are not binding and may be changed without notice

inserts: page:

CD	64	poles + ⏚	59 *
CT, CTS (10A) *)	64	poles + ⏚	65 *
CDD	108	poles + ⏚	72 *
CDS	42	poles + ⏚	81 *
CDSH	42	poles + ⏚	12 **
CSH	24	poles + ⏚	94 *
CNE, CSE	24	poles + ⏚	107 *
CCE	24	poles + ⏚	113 *
CSS	24	poles + ⏚	125 *
CT, CTSE (16A) *)	24	poles + ⏚	133 *
CQE	46	poles + ⏚	141 *
CQEE	64	poles + ⏚	147 *
CMCE	10+2 (aux)	poles + ⏚	152 *
CMSH	10+2 (aux)	poles + ⏚	153 *
CX	4/8 and 6/6	poles + ⏚	173 and 175 *
MIXO	6	modules	179-215 *

*) can be used only in bulkhead mounting housings

*** refer to catalogue page CN.16**

**** refer to catalogue page News 2016**

insert centre distance: **104 x 27 mm**

bulkhead mounting housings with 2 levers and metal cover

lever in stainless steel

EN 60529 IP66 IP67 IEC 60529

AVAILABLE NOVEMBER 2017

surface mounting housings with 2 levers and metal cover

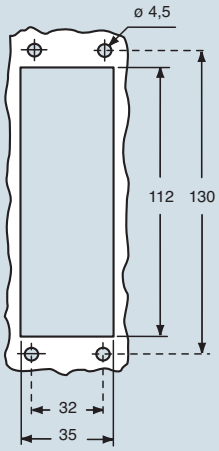
lever in stainless steel

EN 60529 IP66 IP67 IEC 60529

AVAILABLE NOVEMBER 2017

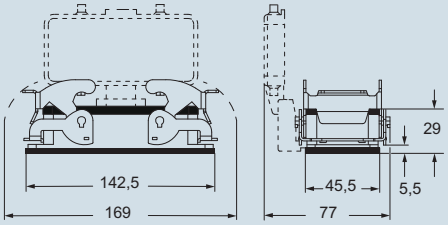
description	part No.	part No.	entry M
with levers and cover, size ”104.27”	**C7I 24 S**		
with levers and cover, high construction, size ”104.27“		**M7AP 24 S32**	32
with levers and cover, high construction, size ”104.27“		**M7AP 24 S232**	32 x 2

panel cut-out for bulkhead mounting housings in mm



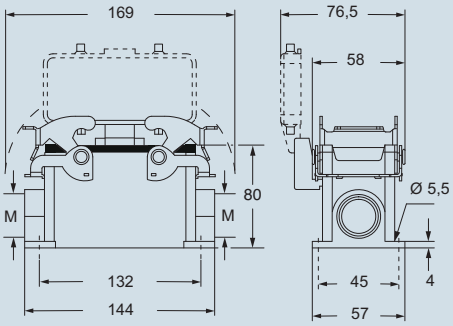
dimensions in mm

C7I S



dimensions in mm

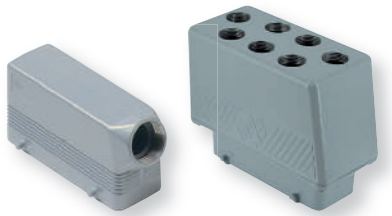
M7AP S



The new lever, due to the vertical closing movement, offers an IP66/IP67 protection rating (according to EN 60529) when fitted with a complete and coupled connector and used with ILME standard hoods in die cast aluminum with pegs (without adaptor).

For bulkhead mounting housings, IP66/IP67 protection rating is guaranteed for mounting on a sufficiently rigid panel; use M4 screws of suitable length (negligible surface buckling when subjected to tightening torque on the fixing screws of 0,8 - 1,2 Nm or deformation caused by the weight of the complete connector).
In case of insufficient rigidity use of C7.. FL flanges (page 278 catalogue CN.16) is recommended, in which case use suitable length M4 screws and M4 (on the enclosure) and M4 (on the flange) flat/spring washers with M4 locknut.
In addition, the panel surface in contact with the flange gasket of the bulkhead mounting housings must be free from defects (deep scratches, grooves, burrs) that could negatively affect the performance of the gasket.

Hoods:



page 260 catalogue CN.16 **page 316 - 319 catalogue CN.16**

dimensions shown are not binding and may be changed without notice

E-Xtreme® series

Titanium plasma protected

3.000 hours in salt spray tests

E-Xtreme® series

3.000 hours in salt spray tests

TECHNICAL DETAILS

The protection is granted also in case of impact with stones and sand. The materials are able to withstand UV radiations, a wide temperature range and harsh chemicals. The E-Xtreme® series is available in the **full range** of Ilme aluminum hoods and housings versions.

Applicable test standards

EN 61984:2009-06	Connectors - Safety requirements and tests
EN 60529: 1991 + A1: 2000 + A2: 2013	Degrees of protection provided by enclosures (IP code)
EN ISO 9227: 2012	Corrosion tests in artificial atmospheres - Salt spray tests
ASTM B117-16	Standard practice for operating salt spray (fog) apparatus
EN 60512 (series)	Connectors for electronic equipment - Tests and measurement
EN 60068-2-68: 1996	Environmental testing - Part 2-68: Tests - Test L: Dust and sand
EN ISO 20567-1: 2005	Paints and varnishes -- Determination of stone-chip resistance of coatings -- Part 1: Multi-impact testing

General specifications

Material	Aluminum die-cast
Painting	Epoxy powder coating
Colour	RAL 7016 (dark grey)
Locking lever, springs and pegs	Stainless steel
Lever handle	C-TYPE lever: Polyamide V-TYPE lever: Stainless steel
Gasket	FKM
Silicone-based compounds	Free (except version for -60 °C… +180 °C)
EN ISO 9227: 2012	3.000 hours (V-TYPE lever and hood with moulded pegs) 2.000 hours (C-TYPE lever and hood with riveted stainless steel bolts)
Temperature limits	-40 °C… +125 °C (-60 °C… +180 °C with silicone gasket)
Degree of protection according to IEC/EN 60529 (in mated and locked condition)	IP44, **IP65**/IP69, **IP66**/IP69, IP66/**IP67**/IP69, IP66/**IP68**/IP69
Stone chipping test	ISO 20567-1
Dust and sand blasting test	EN 60068-2-68
Vibration test	EN 61373 cat. 1B, 3 axis EN 60068-2-6 10÷500 Hz 0,35mm/5g break point 60, 1 Hz 3 axis
Shock test	EN 61373 cat. 1B, 3 axis
UV resistance	EN ISO 4892-2, EN 50467 on locked housings
Ozone resistance	EN 50467 on locked housings
Chemical resistance	Cleaning fluids, anti-freezing fluids, mineral and synthetic oils, cooling fluids, diesel fuel

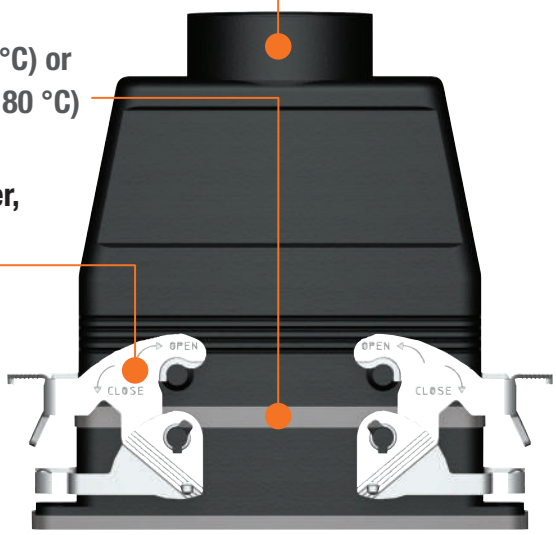
E-Xtreme® series

Corrosion-proof metal enclosures

ADVANTAGES

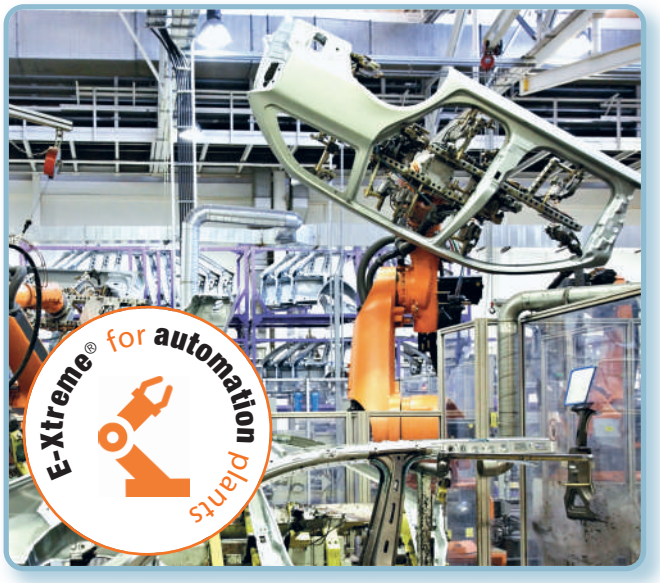
Metal hoods and housings intended for **extremely demanding environments,** with special protective treatment under painting.
Their **special patented protective coating** assures a high level of protection against the corrosion even in case of long term exposure to salt mist.

- **3.000 hours in salt spray tests**
- **IP66, IP67, IP69** degree of protection (EN 60529)
- corrosion-proof aluminium with a **special coating** under the powder painting colour **RAL 7016 dark grey**
- **FKM** gasket (-40 °C…+180 °C) or **silicone** gasket (-60 °C…+180 °C)
- **V-TYPE lever or C-TYPE lever,** hoods with moulded pegs or riveted stainless steel bolts
- **durable protection** against damage caused by stone chip, icing, salt mist, UV radiations and harsh gases



- icing
- very low temperatures
- salt mist
- impact resistant
- UV radiations
- chemical resistant

E-Xtreme® series



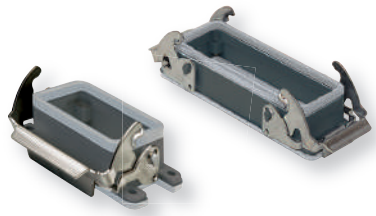
E-Xtreme® ENCLOSURES

EN ISO 9227 (2012): 3.000 hrs - 2.000 hrs

V-TYPE IP67

from page 42

Water tightness in a limited space
- Metallic
- Lever in stainless steel
- IP66/IP67



V-TYPE IP67

from page 42

Water tightness in a limited space
- Metallic
- Lever in stainless steel
- IP66/IP67

HOODS - MOULDED PEGS

Metallic
- Moulded pegs
- IP66/IP67

from page 43

EN ISO 9227 (2012): 2.000 hrs

CKAXE

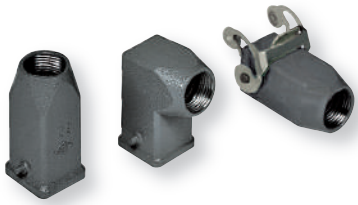
page 50

Metallic
- IP44, IP66/IP67
- Lever in stainless steel

MKAE

page 50

Metallic
- IP44, IP66/IP67



MKAXE .. IAF

page 51

Metallic
- IP44, IP66/IP67
- Lever in stainless steel

EN ISO 9227 (2012): 2.000 hrs

CZ IP67

from page 52

Water tightness in a limited space
- Metallic
- Lever in stainless steel
- IP66/IP67

CZ IP67

from page 52

Water tightness in a limited space
- Metallic
- Lever in stainless steel
- IP66/IP67

HOODS - RIVETED PEGS

Water tightness in a limited space
- Metallic
- Stainless steel riveted pegs
- IP66/IP67

from page 52

E-Xtreme® ENCLOSURES

EN ISO 9227 (2012): 2.000 hrs

C-TYPE
from page 54

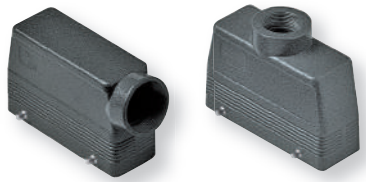
Classic, flexible
- Metallic
- CLASS rotative lever
- IP65/IP66

C-TYPE
from page 54

Classic, flexible
- Metallic
- CLASS rotative lever
- IP65/IP66

HOODS - RIVETED PEGS

Classic, flexible
- Metallic
- Stainless steel riveted pegs
- IP65/IP66

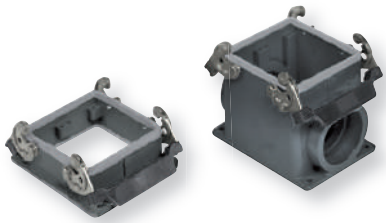


from page 54

EN ISO 9227 (2012): 2.000 hrs

C-TYPE
from page 54

Classic, flexible
- Metallic
- CLASS rotative lever
- IP65/IP66



C-TYPE
from page 54

Classic, flexible
- Metallic
- Lever in stainless steel
- IP65/IP66

HOODS
from page 54

Classic, flexible
- Metallic
- Stainless steel riveted pegs
- IP65/IP66

EN ISO 9227 (2012): 3.000 hrs

IP68
from page 61

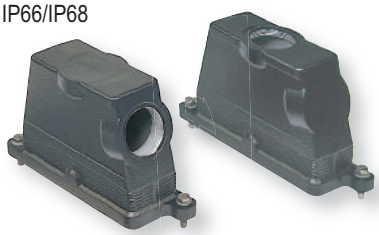
Water tight
- Mechanical robustness
- Resistant to chemical agents
- Screw or bayonet locking
- IP66/IP68

IP68
from page 61

Water tight
- Mechanical robustness
- Resistant to chemical agents
- Screw or bayonet locking
- IP66/IP68

IP68
from page 61

Water tight
- Mechanical robustness
- Resistant to chemical agents
- Screw or bayonet locking
- IP66/IP68



inserts:		page:
CDD	24 poles + ⏚	67 *
CDS	9 poles + ⏚	78 *
CDSH	9 poles + ⏚	9 **
CSH	6 poles + ⏚	91 *
CNE, CSE	6 poles + ⏚	104 *
CCE	6 poles + ⏚	110 *
CSS	6 poles + ⏚	122 *
CT, CTSE (16A) ***)**	6 poles + ⏚	130 *
CQE	10 poles + ⏚	138 *
MIXO	2 modules	179 - 215 *

***)** can be used only in bulkhead mounting housings

*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert centre distance:
44 x 27 mm

bulkhead mounting housings with single lever in stainless steel

lever in stainless steel

3.000 hrs

AVAILABLE 2017

surface mounting housings with single lever in stainless steel

lever in stainless steel

2.000 hrs

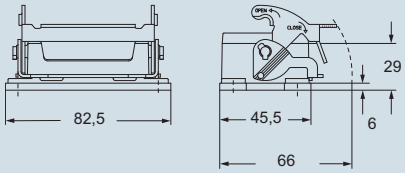
AVAILABLE 2017

description	part No.	part No.	entry M
with lever, size “44.27”	**C7IE 06 L**		
with lever, size “44.27”		**M7PE 06 L20**	20
with lever, size “44.27”		**M7PE 06 L220**	20 x 2
with lever, high construction, size “44.27”		**M7APE 06 L32**	32
with lever, high construction, size “44.27”		**M7APE 06L232**	32 x 2
with lever, high construction, size “44.27”		**M7APE 06 L40**	40
with lever, high construction, size “44.27”		**M7APE 06L240**	40 x 2

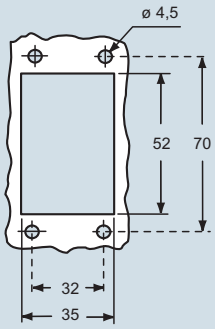
TECHNICAL DETAILS:
- the lever, due to the vertical closing movement, offers an IP66/IP67 protection rating (according to EN 60529) when fitted with a complete and coupled connector and used with ILME hoods in die cast aluminum with pegs (without adaptor, for further information please contact I.L.M.E. SpA)
- 3.000 hours in salt spray tests (EN ISO 9227: 2012) for bulkhead enclosures with V-TYPE lever and hood with moulded pegs (low number of mating cycles)
- 2.000 hours in salt spray tests (EN ISO 9227: 2012) for surface mounting housings
- temperature limits: -40 °C ... +125 °C
  on request -60 °C ... +180 °C with silicone gasket (125 °C - 180 °C with RY inserts)

dimensions in mm

C7IE L



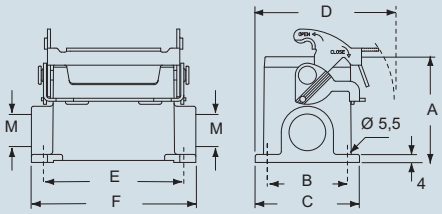
panel cut-out for bulkhead mounting housings in mm



For bulkhead mounting housings, IP66/IP67 protection rating is guaranteed for mounting on a sufficiently rigid panel; use suitable length M4 screws (negligible surface buckling when subjected to tightening couple on the fixing screws of 0,8 - 1,2 Nm or deformation caused by the weight of the complete connector).
In case of insufficient rigidity use of C7.. FL flanges (page 278 catalogue CN.16) is recommended, in which case use suitable length M4 screws and M4 (on the enclosure) and M4 (on the flange) flat/spring washers with M4 locknut.
In addition, the panel surface in contact with the flange gasket of the bulkhead mounting housings must be free from defects (deep scratches, grooves, burrs) that could negatively affect the performance of the gasket.

dimensions in mm

M7PE L - M7APE L



type	A	B	C	D	E	F
M7PE 06 L	53	40	52	70	70	82
M7APE 06 L	73	45	57	72,5	70	82

EN 60529 IP66 IP67 IEC 60529

IP69 according to IEC/EN 60529

dimensions shown are not binding
and may be changed without notice

inserts:		page:
CDD 24	poles + ⏚	67 *
CDS 9	poles + ⏚	78 *
CDSH 9	poles + ⏚	9 **
CSH 6	poles + ⏚	91 *
CNE, CSE 6	poles + ⏚	104 *
CCE 6	poles + ⏚	110 *
CSS 6	poles + ⏚	122 *
CQE 10	poles + ⏚	138 *
MIXO 2	modules	179 - 215 *

*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert centre distance:
44 x 27 mm

hoods with 2 moulded pegs

3.000 hrs

AVAILABLE 2017

description	part No.	entry M
with pegs, side entry	**MHOE 06 L20M**	20
with pegs, side entry	**MHOE 06 L25M**	25
with pegs, side entry, high construction, without adaptor *	**MFOE 06 L32M**	32
with pegs, side entry, high construction, without adaptor *	**MFOE 06 L40M**	40
with pegs, top entry	**MHVE 06 L20M** [1]	20
with pegs, top entry	**MHVE 06 L25M** [1]	25
with pegs, top entry, high construction, without adaptor *	**MFVE 06 L32M**	32
with pegs, top entry, high construction, without adaptor *	**MFVE 06 L40M**	40

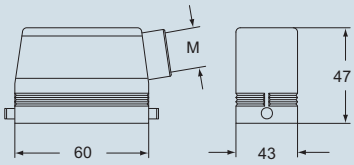
* enclosure without adaptor, threaded on the body, to be used only with a complete cable gland.

[1] cannot be used with MIXO series

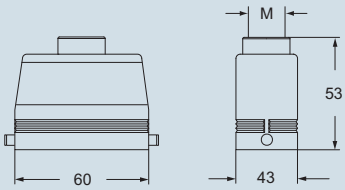
dimensions in mm

TECHNICAL DETAILS:
- 3.000 hours in salt spray tests (EN ISO 9227: 2012) for bulkhead enclosures with V-TYPE lever and hood with moulded pegs (low number of mating cycles)
- 2.000 hours in salt spray tests (EN ISO 9227: 2012) with other E-Xtreme® housings
- temperature limits: -40 °C ... +125 °C on request -60 °C ... +180 °C with silicone gasket (125 °C - 180 °C with RY inserts)
- alternatively, hoods with pegs are coupled with fixed enclosures:
  - C7 E-Xtreme®, IP66/IP67, page 42
  - C-TYPE E-Xtreme®, IP66, page 55

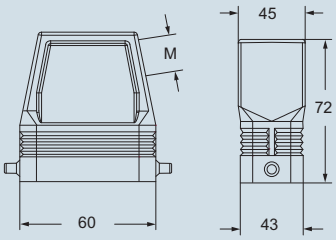
MHOE L..M



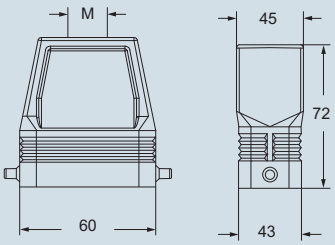
MHVE L..M



MFOE L..M



MFVE L..M



EN 60529 IP66 IP67 IEC 60529

according to the type of lever
IP69 according to IEC/EN 60529

dimensions shown are not binding
and may be changed without notice

C7 and M7 - M7A IP67 enclosures size “57.27” V-TYPE lever version E-Xtreme®

inserts:			page:
CDD	42	poles + ⏚	69 *
CDS	18	poles + ⏚	79 *
CDSH	18	poles + ⏚	10 **
CSH	10	poles + ⏚	92 *
CNE, CSE	10	poles + ⏚	105 *
CCE	10	poles + ⏚	111 *
CSS	10	poles + ⏚	123 *
CT, CTSE (16A) ***)**	10	poles + ⏚	131 *
CQE	18	poles + ⏚	139 *
CMCE	3+2 (aux)	poles + ⏚	148 *
CMSH	3+2 (aux)	poles + ⏚	149 *
CX	8/24	poles + ⏚	169 *
MIXO	3	modules	179 - 215 *

***)** can be used only in bulkhead mounting housings

*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert centre distance: **57 x 27 mm**

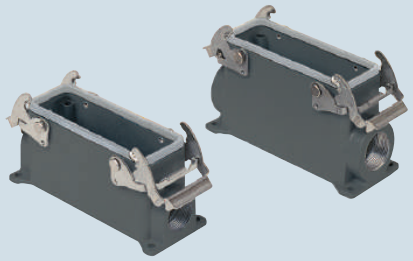
bulkhead mounting housings with 2 levers in stainless steel

lever in stainless steel

3.000 hrs

AVAILABLE 2017

surface mounting housings with 2 levers in stainless steel



lever in stainless steel

2.000 hrs

AVAILABLE 2017

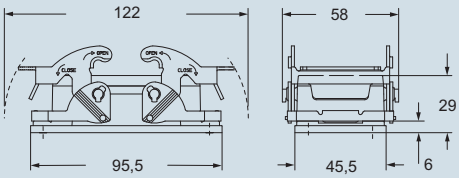
description	part No.	part No.	entry M
with levers, size “57.27”	**C7IE 10**		
with levers, size “57.27”		**M7PE 10.20**	20
with levers, size “57.27”		**M7PE 10.220**	20 x 2
with levers, high construction, size “57.27”		**M7APE 10.32**	32
with levers, high construction, size “57.27”		**M7APE 10.232**	32 x 2
with levers, high construction, size “57.27”		**M7APE 10.40**	40
with levers, high construction, size “57.27”		**M7APE 10.240**	40 x 2

TECHNICAL DETAILS:

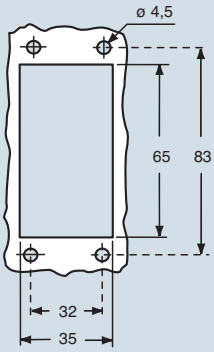
- the lever, due to the vertical closing movement, offers an IP66/IP67 protection rating (according to EN 60529) when fitted with a complete and coupled connector and used with ILME hoods in die cast aluminum with pegs (without adaptor, for further information please contact I.L.M.E. SpA)
- 3.000 hours in salt spray tests (EN ISO 9227: 2012) for bulkhead enclosures with V-TYPE lever and hood with moulded pegs (low number of mating cycles)
- 2.000 hours in salt spray tests (EN ISO 9227: 2012) for surface mounting housings
- temperature limits: -40 °C ... +125 °C on request -60 °C ... +180 °C with silicone gasket (125 °C - 180 °C with RY inserts)

dimensions in mm

C7IE



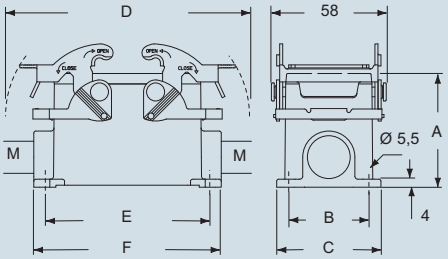
panel cut-out for bulkhead mounting housings in mm



For bulkhead mounting housings, IP66/IP67 protection rating is guaranteed for mounting on a sufficiently rigid panel; use suitable length M4 screws (negligible surface buckling when subjected to tightening couple on the fixing screws of 0,8 - 1,2 Nm or deformation caused by the weight of the complete connector).
In case of insufficient rigidity use of C7.. FL flanges (page 278 catalogue CN.16) is recommended, in which case use suitable length M4 screws and M4 (on the enclosure) and M4 (on the flange) flat/spring washers with M4 locknut.
In addition, the panel surface in contact with the flange gasket of the bulkhead mounting housings must be free from defects (deep scratches, grooves, burrs) that could negatively affect the performance of the gasket.

dimensions in mm

M7PE - M7APE



type	A	B	C	D	E	F
M7PE 10	57	40	52	122	82	93,5
M7APE 10	73	45	57	122	82	93,5

EN 60529 IP66 IP67 IEC 60529

IP69 according to IEC/EN 60529

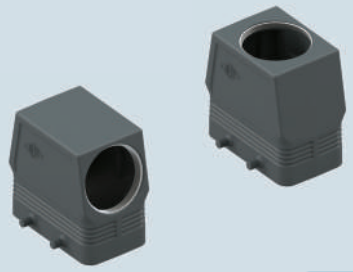
dimensions shown are not binding and may be changed without notice

inserts:		page:
CDD	42 poles + ⏚	69 *
CDS	18 poles + ⏚	79 *
CDSH	18 poles + ⏚	10 **
CSH	10 poles + ⏚	92 *
CNE, CSE	10 poles + ⏚	105 *
CCE	10 poles + ⏚	111 *
CSS	10 poles + ⏚	123 *
CQE	18 poles + ⏚	139 *
CMCE	3+2 (aux) poles + ⏚	148 *
CMSH	3+2 (aux) poles + ⏚	149 *
CX	8/24 poles + ⏚	169 *
MIXO	3 modules	179 - 215 *

*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert centre distance: **57 x 27 mm**

hoods with 4 moulded pegs



3.000 hrs

AVAILABLE 2017

description	part No.	entry M
with pegs, side entry	**MHOE 10.20M**	20
with pegs, side entry	**MHOE 10.25M**	25
with pegs, side entry, high construction, without adaptor *	**MFOE 10.32M**	32
with pegs, side entry, high construction, without adaptor *	**MFOE 10.40M**	40
with pegs, top entry	**MHVE 10.20M ****	20
with pegs, top entry	**MHVE 10.25M**	25
with pegs, top entry, high construction, without adaptor *	**MFVE 10.32M**	32
with pegs, top entry, high construction, without adaptor *	**MFVE 10.40M**	40

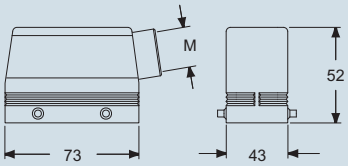
* enclosure without adaptor, threaded on the body, to be used only with a complete cable gland.

** can only be used with a complete cable gland (to be purchased separately)

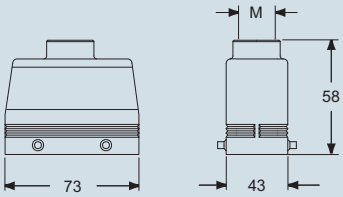
TECHNICAL DETAILS:
- 3.000 hours in salt spray tests (EN ISO 9227: 2012) for bulkhead enclosures with V-TYPE lever and hood with moulded pegs (low number of mating cycles)
- 2.000 hours in salt spray tests (EN ISO 9227: 2012) with other E-Xtreme® housings
- temperature limits: -40 °C ... +125 °C on request -60 °C ... +180 °C with silicone gasket (125 °C - 180 °C with RY inserts)
- alternatively, hoods with pegs are coupled with fixed enclosures:
  - C7 E-Xtreme®, IP66/IP67, page 44
  - C-TYPE E-Xtreme®, IP66, page 56

dimensions in mm

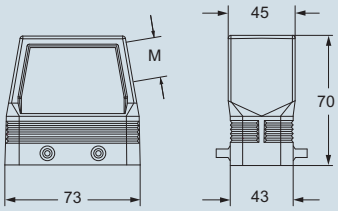
MHOE..M



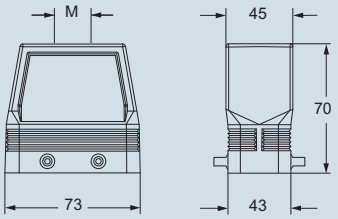
MHVE..M



MFOE..M



MFVE..M



EN 60529 IP66 IP67 IEC 60529

according to the type of lever
IP69 according to IEC/EN 60529

dimensions shown are not binding
and may be changed without notice

C7 and **M7 - M7A** IP67 enclosures size “77.27” **V-TYPE** lever version **E-Xtreme®**

inserts: page:

CD	40	poles + ⏚	57 *
CT, CTS (10A) ***)**	40	poles + ⏚	64 *
CDD	72	poles + ⏚	70 *
CDS	27	poles + ⏚	80 *
CDSH	27	poles + ⏚	11 **
CSH	16	poles + ⏚	93 *
CNE, CSE	16	poles + ⏚	106 *
CCE	16	poles + ⏚	112 *
CSS	16	poles + ⏚	124 *
CT, CTSE (16A) ***)**	16	poles + ⏚	132 *
CQE	32	poles + ⏚	140 *
CQEE	40	poles + ⏚	146 *
CMCE, CMSH 6+2 (aux)		poles + ⏚	150-151 *
CP	6	poles + ⏚	162 *
CX	6/12	poles + ⏚	21 **
CX	6/36 and 12/2	poles + ⏚	170-171 *
CX	4/0 and 4/2	poles + ⏚	172 *
MIXO	4	modules	179-215 *

***)** can be used only in bulkhead mounting housings

*** refer to catalogue page CN.16**

**** refer to catalogue page News 2016**

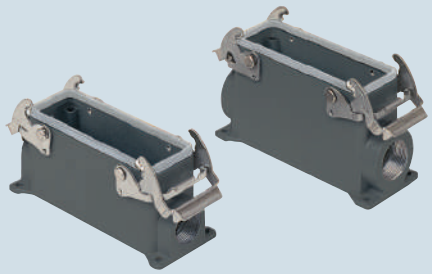
insert centre distance: **77,5 x 27 mm**

bulkhead mounting housings with 2 levers in stainless steel

lever in stainless steel **3.000 hrs**

AVAILABLE 2017

surface mounting housings with 2 levers in stainless steel



lever in stainless steel **2.000 hrs**

AVAILABLE 2017

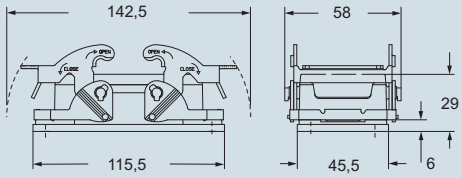
description	part No.	part No.	entry M
with levers, size “77.27”	**C7IE 16**		
with levers, size ”77.27“		**M7PE 16.25**	25
with levers, size ”77.27“		**M7PE 16.225**	25 x 2
with levers, high construction, size ”77.27“		**M7APE 16.32**	32
with levers, high construction, size ”77.27“		**M7APE 16.232**	32 x 2
with levers, high construction, size ”77.27“		**M7APE 16.40**	40
with levers, high construction, size ”77.27“		**M7APE 16.240**	40 x 2

TECHNICAL DETAILS:

- the lever, due to the vertical closing movement, offers an IP66/IP67 protection rating (according to EN 60529) when fitted with a complete and coupled connector and used with ILME hoods in die cast aluminum with pegs (without adaptor, for further information please contact I.L.M.E. SpA)
- 3.000 hours in salt spray tests (EN ISO 9227: 2012) for bulkhead enclosures with V-TYPE lever and hood with moulded pegs (low number of mating cycles)
- 2.000 hours in salt spray tests (EN ISO 9227: 2012) for surface mounting housings
- temperature limits: -40 °C ... +125 °C
  on request -60 °C ... +180 °C with silicone gasket (125 °C - 180 °C with RY inserts)

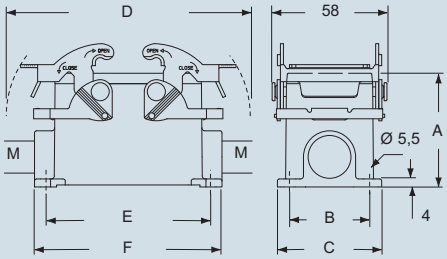
dimensions in mm

C7IE



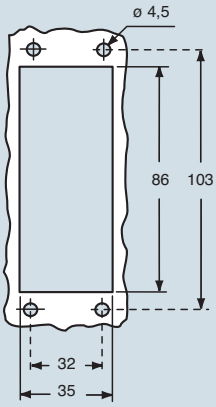
dimensions in mm

M7PE - M7APE



type	A	B	C	D	E	F
M7PE 16	63	45	57	142,5	105	117
M7APE 16	77	45	57	142,5	105	117

panel cut-out for bulkhead mounting housings in mm



For bulkhead mounting housings, IP66/IP67 protection rating is guaranteed for mounting on a sufficiently rigid panel; use suitable length M4 screws (negligible surface buckling when subjected to tightening couple on the fixing screws of 0,8 - 1,2 Nm or deformation caused by the weight of the complete connector).
In case of insufficient rigidity use of C7.. FL flanges (page 278 catalogue CN.16) is recommended, in which case use suitable length M4 screws and M4 (on the enclosure) and M4 (on the flange) flat/spring washers with M4 locknut.
In addition, the panel surface in contact with the flange gasket of the bulkhead mounting housings must be free from defects (deep scratches, grooves, burrs) that could negatively affect the performance of the gasket.

EN 60529 IP66 IP67 IEC 60529 IP69 according to IEC/EN 60529

dimensions shown are not binding and may be changed without notice

inserts:			page:
CD	40	poles + ⏚	57 *
CDD	72	poles + ⏚	70 *
CDS	27	poles + ⏚	80 *
CDSH	27	poles + ⏚	11 **
CSH	16	poles + ⏚	93 *
CNE, CSE	16	poles + ⏚	106 *
CCE	16	poles + ⏚	112 *
CSS	16	poles + ⏚	124 *
CQE	32	poles + ⏚	140 *
CQEE	40	poles + ⏚	146 *
CMCE, CMSH	6+2 (aux)	poles + ⏚	150-151 *
CP	6	poles + ⏚	162 *
CX	6/12	poles + ⏚	21 **
CX	6/36 and 12/2	poles + ⏚	170-171 *
CX	4/0 and 4/2	poles + ⏚	172 *
MIXO	4	modules	179-215 *

*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert centre distance: **77,5 x 27 mm**

hoods with 4 moulded pegs

3.000 hrs

AVAILABLE 2017

description	part No.	entry M
with pegs, side entry	**MHOE 16.25M**	25
with pegs, side entry	**MHOE 16.32M**	32
with pegs, side entry, high construction, without adaptor *	**MFOE 16.32M**	32
with pegs, side entry, high construction, without adaptor *	**MFOE 16.40M**	40
with pegs, top entry	**MHVE 16.25M ****	25
with pegs, top entry	**MHVE 16.32M**	32
with pegs, top entry, high construction, without adaptor *	**MFVE 16.32M**	32
with pegs, top entry, high construction, without adaptor *	**MFVE 16.40M**	40

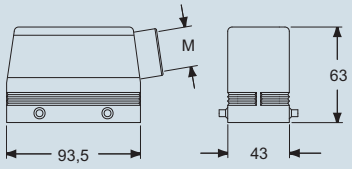
* enclosure without adaptor, threaded on the body, to be used only with a complete cable gland.

** can only be used with a complete cable gland (to be purchased separately)

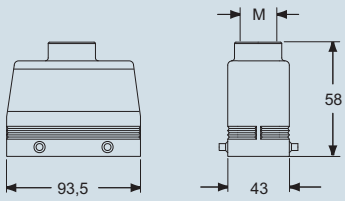
TECHNICAL DETAILS:
- 3.000 hours in salt spray tests (EN ISO 9227: 2012) for bulkhead enclosures with V-TYPE lever and hood with moulded pegs (low number of mating cycles)
- 2.000 hours in salt spray tests (EN ISO 9227: 2012) with other E-Xtreme® housings
- temperature limits: -40 °C ... +125 °C
  on request -60 °C ... +180 °C with silicone gasket (125 °C - 180 °C with RY inserts)
- alternatively, hoods with pegs are coupled with fixed enclosures:
  - C7 E-Xtreme®, IP66/IP67, page 46
  - C-TYPE E-Xtreme®, IP66, page 57

dimensions in mm

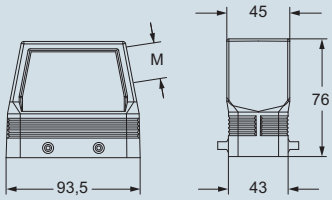
MHOE..M



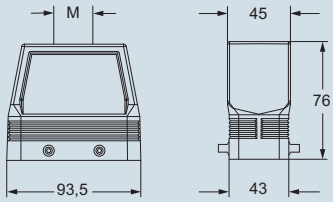
MHVE..M



MFOE..M



MFVE..M



EN 60529 IP66 IP67 IEC 60529

according to the type of lever
IP69 according to IEC/EN 60529

dimensions shown are not binding
and may be changed without notice

C7 and **M7 - M7A** IP67 enclosures size “104.27” **V-TYPE** lever version **E-Xtreme®**

inserts: page:

CD	64	poles + ⏚	59 *
CT, CTS (10A) ***)**	64	poles + ⏚	65 *
CDD	108	poles + ⏚	72 *
CDS	42	poles + ⏚	81 *
CDSH	42	poles + ⏚	12 **
CSH	24	poles + ⏚	94 *
CNE, CSE	24	poles + ⏚	107 *
CCE	24	poles + ⏚	113 *
CSS	24	poles + ⏚	125 *
CT, CTSE (16A) ***)**	24	poles + ⏚	133 *
CQE	46	poles + ⏚	141 *
CQEE	64	poles + ⏚	147 *
CMCE	10+2 (aux)	poles + ⏚	152 *
CMSH	10+2 (aux)	poles + ⏚	153 *
CX	4/8 and 6/6	poles + ⏚	173 and 175 *
MIXO	6	modules	179-215 *

***)** can be used only in bulkhead mounting housings

*** refer to catalogue page CN.16**

**** refer to catalogue page News 2016**

insert centre distance: **104 x 27 mm**

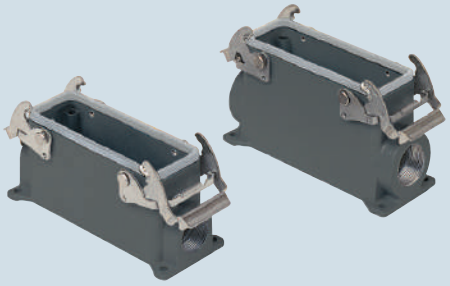
bulkhead mounting housings with 2 levers in stainless steel

lever in stainless steel

3.000 hrs

AVAILABLE 2017

surface mounting housings with 2 levers in stainless steel



lever in stainless steel

2.000 hrs

AVAILABLE 2017

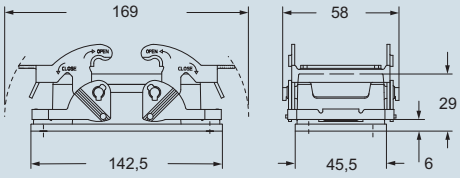
description	part No.	part No.	entry M
with levers, size ”104.27”	**C7IE 24**		
with levers, size ”104.27“		**M7PE 24.25**	25
with levers, size ”104.27“		**M7PE 24.225**	25 x 2
with levers, high construction, size ”104.27“		**M7APE 24.32**	32
with levers, high construction, size ”104.27“		**M7APE 24.232**	32 x 2
with levers, high construction, size ”104.27“		**M7APE 24.40**	40
with levers, high construction, size ”104.27“		**M7APE 24.240**	40 x 2

TECHNICAL DETAILS:

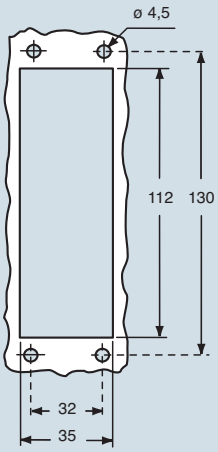
- the lever, due to the vertical closing movement, offers an IP66/IP67 protection rating (according to EN 60529) when fitted with a complete and coupled connector and used with ILME hoods in die cast aluminum with pegs (without adaptor, for further information please contact I.L.M.E. SpA)
- 3.000 hours in salt spray tests (EN ISO 9227: 2012) for bulkhead enclosures with V-TYPE lever and hood with moulded pegs (low number of mating cycles)
- 2.000 hours in salt spray tests (EN ISO 9227: 2012) for surface mounting housings
- temperature limits: -40 °C ... +125 °C
  on request -60 °C ... +180 °C with silicone gasket (125 °C - 180 °C with RY inserts)

dimensions in mm

C7I



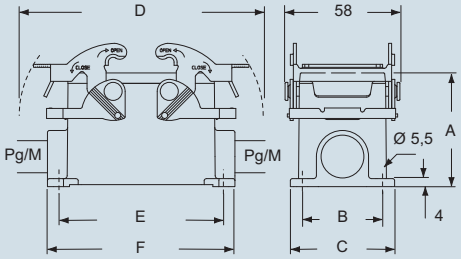
panel cut-out for bulkhead mounting housings in mm



For bulkhead mounting housings, IP66/IP67 protection rating is guaranteed for mounting on a sufficiently rigid panel; use suitable length M4 screws (negligible surface buckling when subjected to tightening couple on the fixing screws of 0,8 - 1,2 Nm or deformation caused by the weight of the complete connector).
In case of insufficient rigidity use of C7.. FL flanges (page 278 catalogue CN.16) is recommended, in which case use suitable length M4 screws and M4 (on the enclosure) and M4 (on the flange) flat/spring washers with M4 locknut.
In addition, the panel surface in contact with the flange gasket of the bulkhead mounting housings must be free from defects (deep scratches, grooves, burrs) that could negatively affect the performance of the gasket.

dimensions in mm

C7P - C7AP and **M7P - M7AP**



type	A	B	C	D	E	F
M7P 24	63	45	57	169	132	144
M7AP 24	80	45	57	169	132	144

EN 60529 IP66 IP67 IEC 60529

IP69 according to IEC/EN 60529

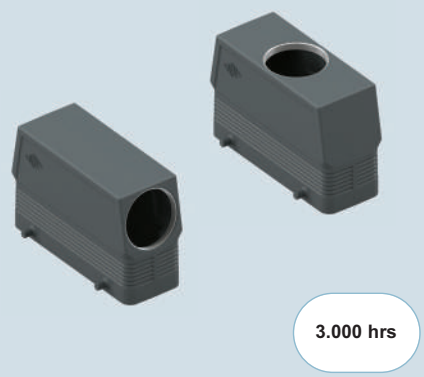
dimensions shown are not binding and may be changed without notice

inserts:		page:
CD 64	poles + ⏚	59 *
CDD 108	poles + ⏚	72 *
CDS 42	poles + ⏚	81 *
CDSH 42	poles + ⏚	12 **
CSH 24	poles + ⏚	94 *
CNE, CSE 24	poles + ⏚	107 *
CCE 24	poles + ⏚	113 *
CSS 24	poles + ⏚	125 *
CQE 46	poles + ⏚	141 *
CQEE 64	poles + ⏚	147 *
CMCE ..... 10+2 (aux)	poles + ⏚	152 *
CMSH ..... 10+2 (aux)	poles + ⏚	153 *
CX ..... 4/8 and 6/6	poles + ⏚	173 and 175 *
MIXO 6	modules	179-215 *

*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert centre distance: **104 x 27 mm**

hoods with 4 moulded pegs



3.000 hrs

AVAILABLE 2017

description	part No.	entry M
with pegs, side entry	**MHOE 24.25M**	25
with pegs, side entry	**MHOE 24.32M**	32
with pegs, side entry, high construction, without adaptor *	**MFOE 24.32M**	32
with pegs, side entry, high construction, without adaptor *	**MFOE 24.40M**	40
with pegs, top entry	**MHVE 24.25M ****	25
with pegs, top entry	**MHVE 24.32M**	32
with pegs, top entry	**MHVE 24.40M**	40
with pegs, top entry, high construction, without adaptor *	**MFVE 24.32M**	32
with pegs, top entry, high construction, without adaptor *	**MFVE 24.40M**	40

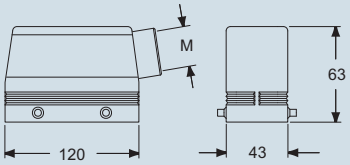
* enclosure without adaptor, threaded on the body, to be used only with a complete cable gland.

** can only be used with a complete cable gland (to be purchased separately)

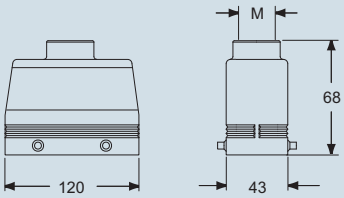
dimensions in mm

TECHNICAL DETAILS:
- 3.000 hours in salt spray tests (EN ISO 9227: 2012) for bulkhead enclosures with V-TYPE lever and hood with moulded pegs (low number of mating cycles)
- 2.000 hours in salt spray tests (EN ISO 9227: 2012) with other E-Xtreme® housings
- temperature limits: -40 °C ... +125 °C on request -60 °C ... +180 °C with silicone gasket (125 °C - 180 °C with RY inserts)
- alternatively, hoods with pegs are coupled with fixed enclosures:
  - C7 E-Xtreme®, IP66/IP67, page 48
  - C-TYPE E-Xtreme®, IP66, page 58

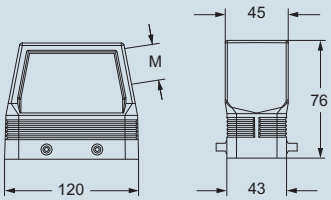
MHOE..M



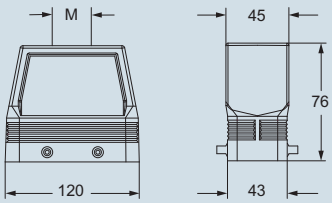
MHVE..M



MFOE..M



MFVE..M



EN 60529 IP66 IP67 IEC 60529

according to the type of lever
IP69 according to IEC/EN 60529

dimensions shown are not binding
and may be changed without notice

CK-CKA and MKA enclosures size “21.21” for aggressive environments E-Xtreme®

inserts:		page:
CK	3 poles + ⏚	48 *
CK	4 poles + ⏚	48 *
CKS	3 poles + ⏚	49 *
CKS	4 poles + ⏚	49 *
CKSH	3 poles + ⏚	7
CKSH	4 poles + ⏚	7
CD	8 poles	54 *
CQ	5 poles + ⏚	166 *
CQ	7 poles + ⏚	8
CQ	12 poles + ⏚	165 *
CQ	21 poles + ⏚	11

*** refer to catalogue page CN.16**

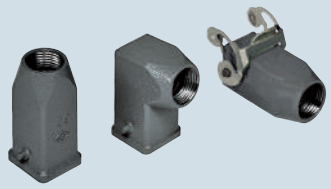
insert dimensions:
21 x 21 mm

bulkhead mounting housings straight and angled

2.000 hrs

AVAILABLE 2017

hoods

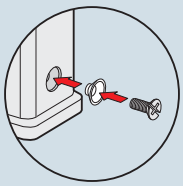


2.000 hrs

AVAILABLE 2017

description	part No.	part No. (entry - M 20)	part No.	part No. (entry - M 20)
with stainless steel lever without cable entry, with stainless steel lever	**CKAXE 03 I** **CKAXE 03 IA**			
with cable entry, with stainless steel lever with cable entry, with stainless steel lever, bulkhead hole closed		**MKAXE IAP20** **MKAXE AP20**		
with pegs, top entry with pegs, side entry				**MKAE V20** **MKAE VA20**
with stainless steel lever, top entry				**MKAXE VG20**
gasket and screw kit for IP66/IP67 1) for CK, CQ 05, CKS inserts	**CKR 65**		**CKR 65**	
gasket and screw kit for IP66/IP67 1) for CD 08 inserts	**CKR 65 D**		**CKR 65 D**	

1) To obtain the IP66/IP67 protection rating, a kit with insert fixing screw and gasket can be purchased separately.
CQ 07 and CQ 12 inserts are already supplied with a gasket and screw which ensure IP66/IP67 protection rating.



TECHNICAL DETAILS:
- 2.000 hours in salt spray tests (EN ISO 9227 Ed. 2.0)
- temperature limits: -40 °C ... +125 °C

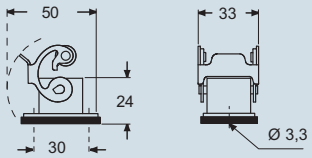
Note:
optional gasket for male insert in FKM material: “**CR 03 W**” (replace the gasket male inserts)

IP66/IP67 with CKR 65 (D) 1)
IP69 according to IEC/EN 60529

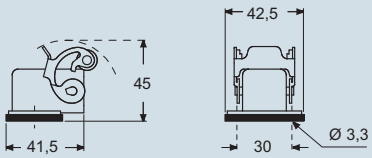
dimensions shown are not binding and may be changed without notice

dimensions in mm

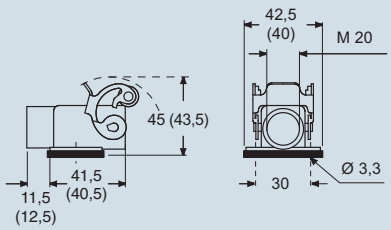
CKAXE I



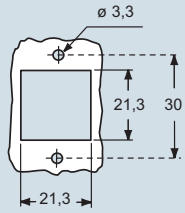
CKAXE IA



MKAXE IAP (MKAXE AP)

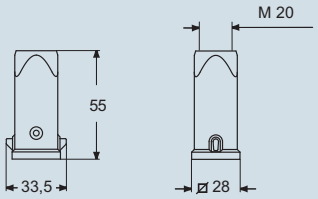


panel cut-out for bulkhead mounting housings in mm

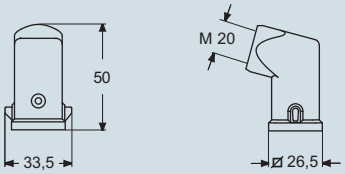


dimensions in mm

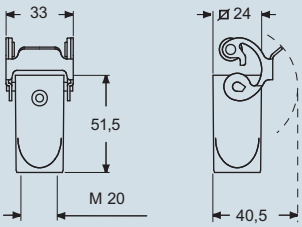
MKAE V



MKAE VA



MKAXE VG



inserts:		page:
CK	3 poles + ⏚	48 *
CK	4 poles + ⏚	48 *
CKS	3 poles + ⏚	49 *
CKS	4 poles + ⏚	49 *
CKSH	3 poles + ⏚	7
CKSH	4 poles + ⏚	7
CD	8 poles	54 *
CQ	5 poles + ⏚	166 *
CQ	7 poles + ⏚	8
CQ	12 poles + ⏚	165 *
CQ	21 poles + ⏚	11

*** refer to catalogue page CN.16**

insert dimensions:
21 x 21 mm

angled bulkhead mounting housings

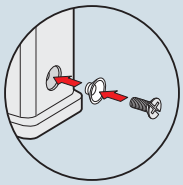
2.000 hrs

AVAILABLE 2017

description	part No.
stainless steel lever, M20 fixing thread (•)	**MKAXE IAF20 1)**
stainless steel lever, M25 fixing thread (•)	**MKAXE IAF25 1)**
gasket and screw kit for IP66/IP67 1) for CK, CQ 05, CKS inserts	**CKR 65**
gasket and screw kit for IP66/IP67 1) for CD 07/08 inserts	**CKR 65 D**

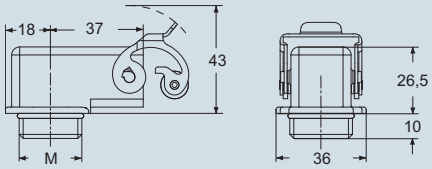
(•) locknut supplied on request, see catalogue cable glands (articles AS M20N and AS M25N metallic, AS M20L and AS M25L insulating)

1) To obtain the IP66/IP67 protection rating, a kit with insert fixing screw and gasket can be purchased separately.
CQ 07 and CQ 12 inserts are already supplied with a gasket and screw which ensure IP66/IP67 protection rating.

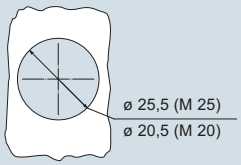


dimensions in mm

MKAXE IAF

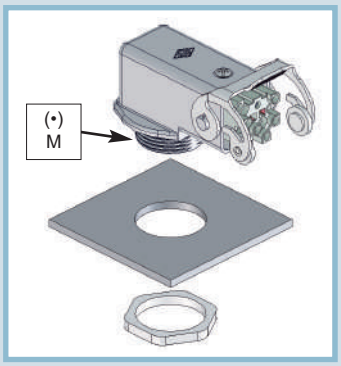


panel cut-out



TECHNICAL DETAILS:
- 2.000 hours in salt spray tests (EN ISO 9227 Ed. 2.0)
- temperature limits: -40 °C ... +125 °C

Note:
optional gasket for male insert in FKM material: “**CR 03 W**” (replace the gasket male inserts)



EN 60529 IP44 IEC 60529

IP66/IP67 with CKR 65 (D) 1)
IP69 according to IEC/EN 60529

dimensions shown are not binding
and may be changed without notice

inserts: page:

CD	15	poles + ⏚	55
CSAH	10	poles + ⏚	87
CDA	10	poles + ⏚	98
CDC	10	poles + ⏚	99
MIXO	1	module	179 - 214

refer to catalogue page CN.16

insert centre distance:
49 x 16 mm

housings and cover

lever in stainless steel

2.000 hrs

AVAILABLE 2017

hoods with riveted locking pegs

2.000 hrs

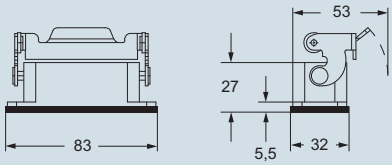
AVAILABLE 2017

description	part No.	part No.	entry M	part No.	entry M
bulkhead mounting housing, with lever surface mounting housing, with lever	**CZ7IE 15 L**	**MZ7PE 15L225**	25 x 2		
with pegs, side entry with pegs, side entry with pegs, side entry, high construction with pegs, top entry with pegs, top entry, high construction				**MZOE 15 L20** **MZOE 15 L25** **MZAOE 15 L25** **MZVE 15 L20** **MZAVE 15 L25**	20 25 25 20 25

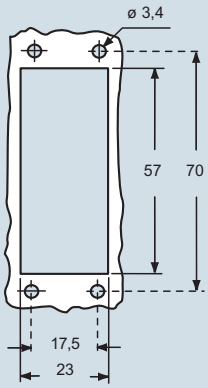
TECHNICAL DETAILS:
- The rigid lever, offers an IP66/IP67 protection rating (according to EN 60529) when fitted with a complete and coupled connector and used with ILME standard hoods in die cast aluminum with pegs (without adaptor, for further information please contact I.L.M.E. SpA)
- 2.000 hours in salt spray tests (EN ISO 9227: 2012)
- temperature limits: -40 °C ... +125 °C
- mechanical life: ≥ 500 cycles

dimensions in mm

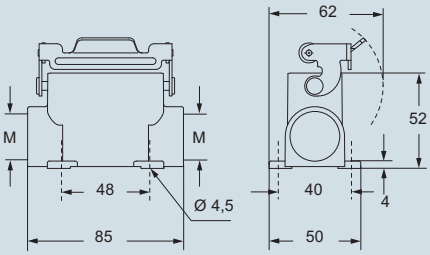
CZ7IE L



panel cut-out for bulkhead mounting housing in mm

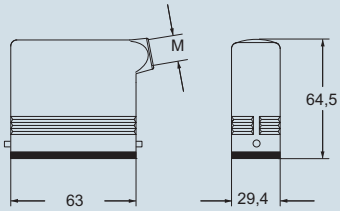


MZ7PE L

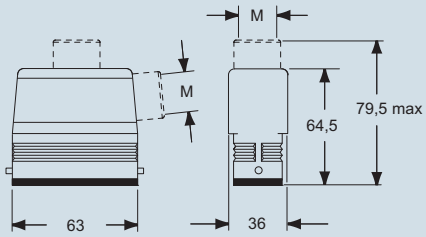


dimensions in mm

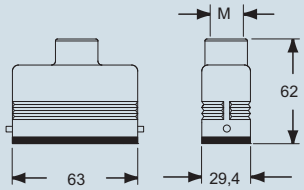
MZOE L



MZAOE L and **MZAVE L**



MZVE L



EN 60529 IP66 IP67 IEC 60529

IP69 according to IEC/EN 60529

dimensions shown are not binding
and may be changed without notice

CZ and MZ - MZA enclosures size “66.16” for aggressive environments E-Xtreme®

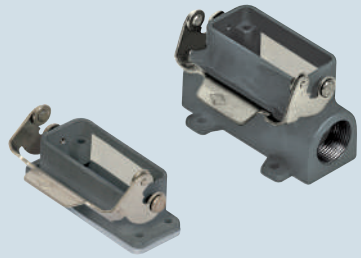
inserts: page:

CD	25 poles + ⏚	56
CDD	38 poles + ⏚	68
CSAH	16 poles + ⏚	88
CDA	16 poles + ⏚	100
CDC	16 poles + ⏚	101

refer to catalogue page CN.16

insert centre distance:
66 x 16 mm

housings and cover



lever in stainless steel

2.000 hrs

AVAILABLE 2017

hoods with riveted locking pegs

2.000 hrs

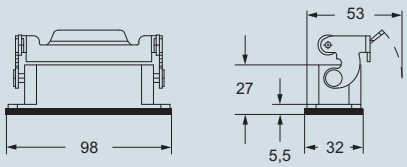
AVAILABLE 2017

description	part No.	part No.	entry M	part No.	entry M
bulkhead mounting housing, with lever surface mounting housing, with lever	**CZ7IE 25 L**	**MZ7PE 25L225**	25 x 2		
with pegs, side entry with pegs, side entry with pegs, side entry, high construction with pegs, top entry with pegs, top entry, high construction				**MZOE 25 L20** **MZOE 25 L25** **MZAOE 25 L25** **MZVE 25 L20 *** **MZAVE 25 L25**	20 25 25 20 25

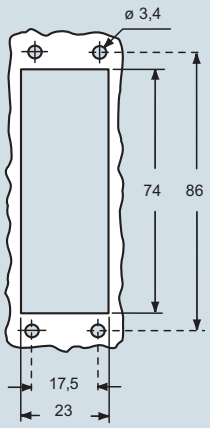
TECHNICAL DETAILS:
- The rigid lever, offers an IP66/IP67 protection rating (according to EN 60529) when fitted with a complete and coupled connector and used with ILME standard hoods in die cast aluminum with pegs (without adaptor, for further information please contact I.L.M.E. SpA)
- 2.000 hours in salt spray tests (EN ISO 9227: 2012)
- temperature limits: -40 °C ... +125 °C
- mechanical life: ≥ 500 cycles

dimensions in mm

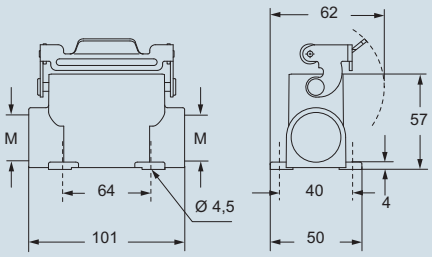
CZ7IE L



panel cut-out for bulkhead mounting housing in mm

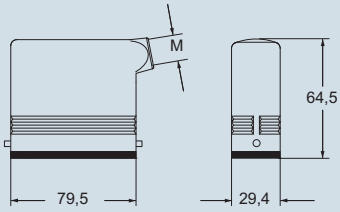


MZ7PE L

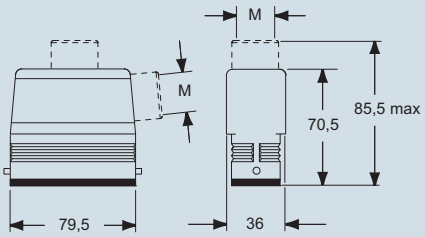


dimensions in mm

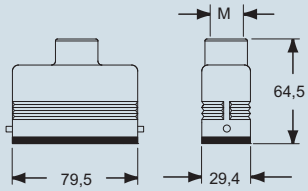
MZOE L



MZAOE L and **MZAVE L**



MZVE L



* can only be used with a complete cable gland (to be purchased separately)

EN 60529 IP66 IP67 IEC 60529 — IP69 according to IEC/EN 60529

dimensions shown are not binding and may be changed without notice

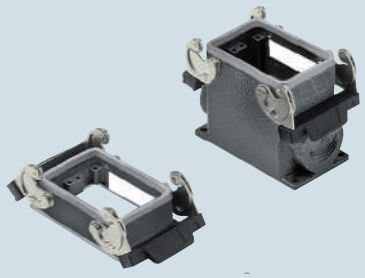
inserts: page:

CD	50	poles + ⏚	58
CDD	76	poles + ⏚	71
CSAH	32	poles + ⏚	89
CDA	32	poles + ⏚	102
CDC	32	poles + ⏚	103

refer to catalogue page CN.16

insert dimensions:
2 x (66 x 16) mm

housings and cover



2.000 hrs

AVAILABLE 2017

hoods
with riveted locking pegs

2.000 hrs

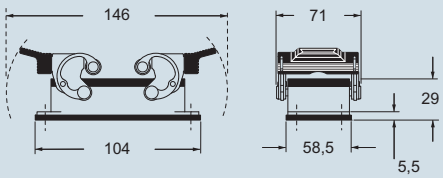
AVAILABLE 2017

description	part No.	part No.	entry M	part No.	entry M
bulkhead mounting housings, with lever	**CHIE 50**				
surface mounting housing, with lever		**MHPE 50.32**	32		
surface mounting housing, with lever		**MHPE 50.240**	40 x 2		
with pegs, side entry				**MHOE 50.25**	25
with pegs, side entry				**MHOE 50.32**	32
with pegs, side entry, high construction				**MAOE 50.32**	32
with pegs, top entry, high construction				**MAVE 50.32**	32

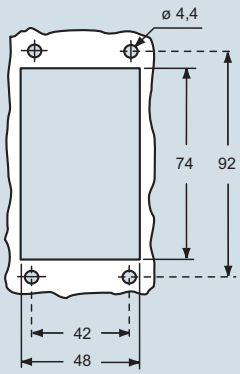
TECHNICAL DETAILS:
- 2.000 hours in salt spray tests (EN ISO 9227: 2012)
- temperature limits: -40 °C ... +125 °C
- mechanical life: ≥ 500 cycles

dimensions in mm

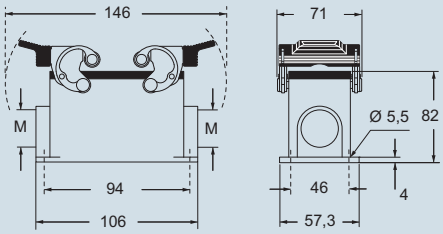
CHIE



panel cut-out for bulkhead mounting housing in mm

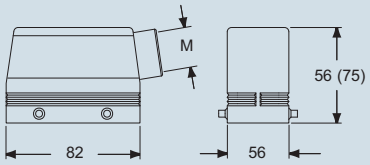


MHPE

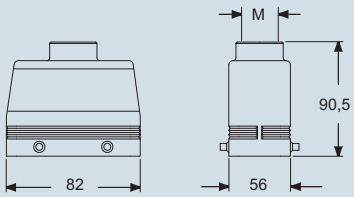


dimensions in mm

MHOE (MAOE)



MAVE



EN 60529 IP66 IEC 60529 IP69 according to IEC/EN 60529

dimensions shown are not binding
and may be changed without notice

inserts: page:

CDD	24	poles + ⏚	67
CDS	9	poles + ⏚	78
CSH	6	poles + ⏚	91
CNE, CSE	6	poles + ⏚	104
CCE	6	poles + ⏚	110
CSS	6	poles + ⏚	122
CT, CTSE (16A) ***)**	6	poles + ⏚	130
CQE	10	poles + ⏚	138
MIXO	2	modules	179 - 215

***) only for enclosure CHIE 06 L**

refer to catalogue page CN.16

insert centre distance:
44 x 27 mm

housings and cover

2.000 hrs

AVAILABLE 2017

hoods
with riveted locking pegs

2.000 hrs

AVAILABLE 2017

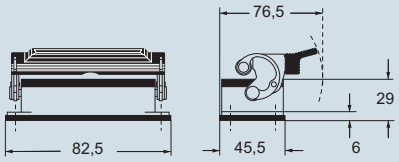
description	part No.	part No.	entry M	part No.	entry M
bulkhead mounting housing, with lever surface mounting housing, with lever, high construction	**CHIE 06 L**	**MAPE 06 L32**	32		
with pegs, side entry, high construction with pegs, top entry, high construction				**MAOE 06 L32** **MAVE 06 L32**	32 32
with lever and gasket, side entry, high construction				**MAVE 06 LG32**	32

TECHNICAL DETAILS:
- 2.000 hours in salt spray tests (EN ISO 9227: 2012)
- temperature limits: -40 °C ... +125 °C
- mechanical life: ≥ 500 cycles

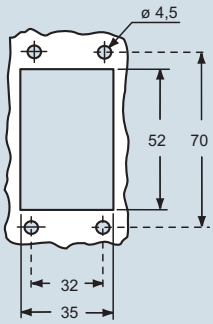
Alternatively, hoods with pegs are coupled with fixed enclosures:
- C7 E-Xtreme®, IP66/IP67 stainless steel lever, page 42

dimensions in mm

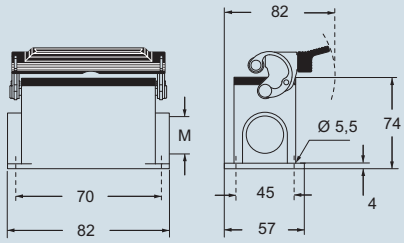
CHIE L



panel cut-out for bulkhead mounting housing in mm

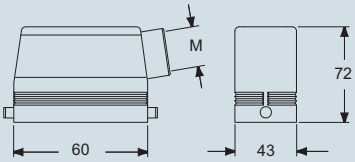


MAPE L

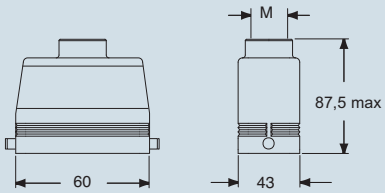


dimensions in mm

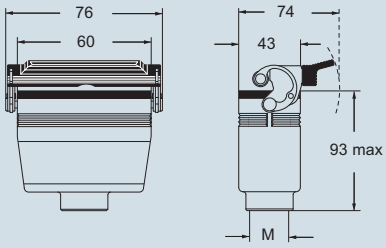
MAOE L



MAVE L



MAVE LG



IP66 EN 60529 IEC 60529 — IP69 according to IEC/EN 60529

dimensions shown are not binding
and may be changed without notice

inserts: page:

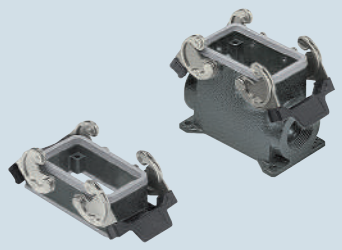
CDD	42	poles + ⏚	69
CDS	18	poles + ⏚	79
CSH	10	poles + ⏚	92
CNE, CSE	10	poles + ⏚	105
CCE	10	poles + ⏚	111
CSS	10	poles + ⏚	123
CT, CTSE (16A) ***)**	10	poles + ⏚	131
CQE	18	poles + ⏚	139
CMCE	3+2 (aux)	poles + ⏚	148
CMSH	3+2 (aux)	poles + ⏚	149
CX	8/24	poles + ⏚	169
MIXO	3	modules	179 - 215

***) only for enclosure CHIE 10**

refer to catalogue page CN.16

insert centre distance: **57 x 27 mm**

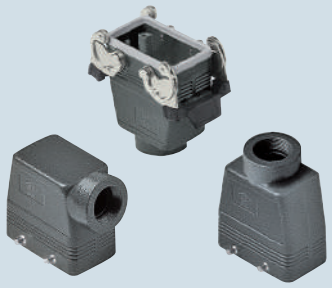
housings and cover



2.000 hrs

AVAILABLE 2017

hoods
with riveted locking pegs



2.000 hrs

AVAILABLE 2017

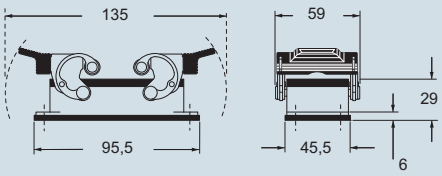
description	part No.	part No.	entry M	part No.	entry M
bulkhead mounting housing, with levers	**CHIE 10**				
surface mounting housing, with levers, high construction		**MAPE 10.32**	32		
with pegs, side entry, high construction				**MAOE 10.32**	32
with pegs, top entry, high construction				**MAVE 10.32**	32
with levers and gasket, top entry, high construction				**MAVE 10 G32**	32

TECHNICAL DETAILS:
- 2.000 hours in salt spray tests (EN ISO 9227: 2012)
- temperature limits: -40 °C ... +125 °C
- mechanical life: ≥ 500 cycles

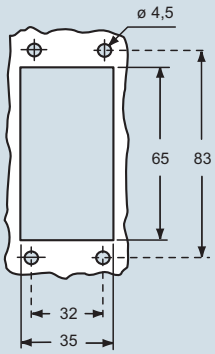
Alternatively, hoods with pegs are coupled with fixed enclosures:
- C7 E-Xtreme®, IP66/IP67 stainless steel lever, page 44

dimensions in mm

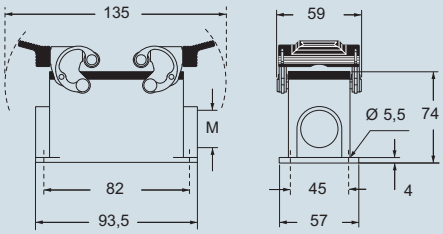
CHIE



panel cut-out for bulkhead mounting housing in mm

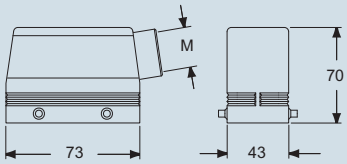


MAPE

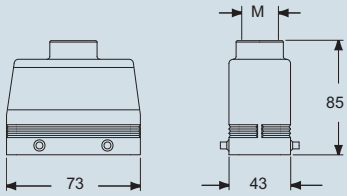


dimensions in mm

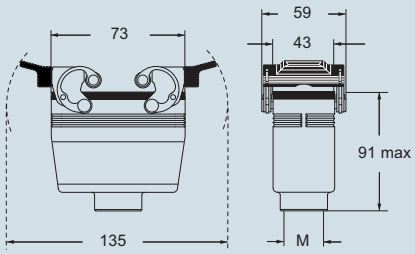
MAOE



MAVE



MAVE G



IP66 EN 60529 IEC 60529 — IP69 according to IEC/EN 60529

dimensions shown are not binding
and may be changed without notice

inserts: page:

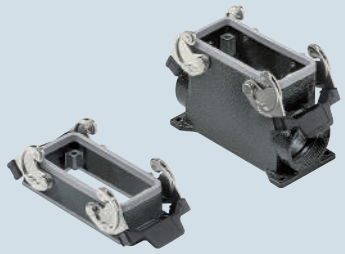
CD	40	poles + ⏚	57
CT, CTS (10A) ***)**	40	poles + ⏚	64
CDD	72	poles + ⏚	70
CDS	27	poles + ⏚	80
CSH	16	poles + ⏚	93
CNE, CSE	16	poles + ⏚	106
CCE	16	poles + ⏚	112
CSS	16	poles + ⏚	124
CT, CTSE (16A) ***)**	16	poles + ⏚	132
CQE	32	poles + ⏚	140
CQEE	40	poles + ⏚	146
CMCE	6+2 (aux)	poles + ⏚	150
CMSH	6+2 (aux)	poles + ⏚	151
CP	6	poles + ⏚	162
CX	6/36 and 12/2	poles + ⏚	170-171
CX	4/0 and 4/2	poles + ⏚	172
MIXO	4	modules	179-215

***) only for enclosure CHIE 16**

refer to catalogue page CN.16

insert centre distance: **77,5 x 27 mm**

housings and cover



2.000 hrs

AVAILABLE 2017

hoods
with riveted locking pegs

2.000 hrs

AVAILABLE 2017

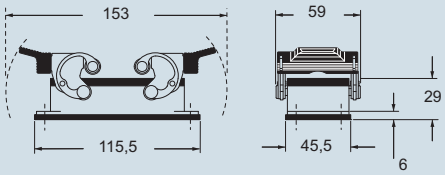
description	part No.	part No.	entry M	part No.	entry M
bulkhead mounting housing, with levers	**CHIE 16**				
surface mounting housing, with levers, high construction		**MAPE 16.32**	32		
with pegs, side entry				**MHOE 16.25**	25
with pegs, side entry				**MHOE 16.32**	32
with pegs, side entry, high construction				**MAOE 16.32**	32
with pegs, side entry, high construction				**MAOE 16.40**	40
with pegs, top entry				**MHVE 16.25**	25
with pegs, top entry				**MHVE 16.32**	32
with pegs, top entry, high construction				**MAVE 16.32**	32
with pegs, top entry, high construction				**MAVE 16.40**	40
with levers and gasket, top entry, high construction				**MAVE 16 G32**	32

TECHNICAL DETAILS:
- 2.000 hours in salt spray tests (EN ISO 9227: 2012)
- temperature limits: -40 °C ... +125 °C- mechanical life: ≥ 500 cycles

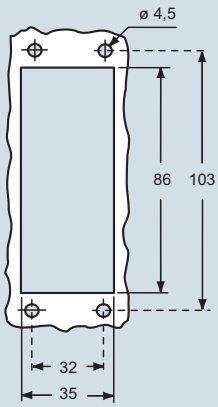
Alternatively, hoods with pegs are coupled with fixed enclosures:
- C7 E-Xtreme®, IP66/IP67 stainless steel lever, page 46

dimensions in mm

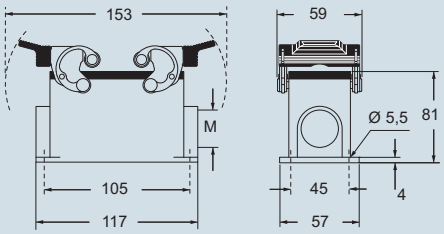
CHIE



panel cut-out for bulkhead mounting housing in mm

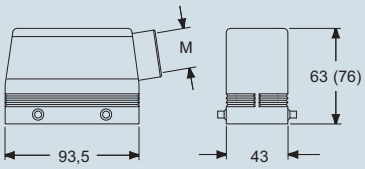


MAPE

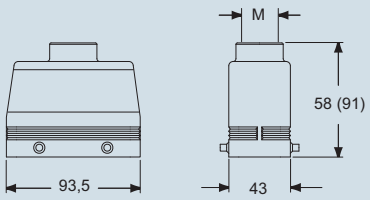


dimensions in mm

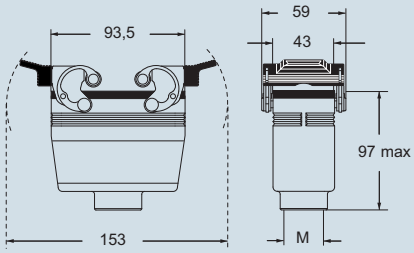
MHOE (MAOE)



MHVE (MAVE)



MAVE G



EN 60529 IP66 IEC 60529 IP69 according to IEC/EN 60529

dimensions shown are not binding
and may be changed without notice

inserts: page:

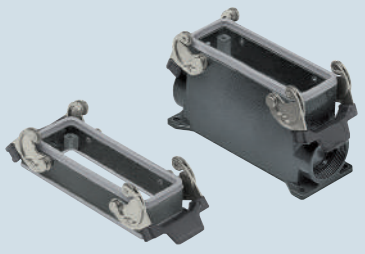
CD	64	poles + ⏚	59
CT, CTS (10A) ***)**	64	poles + ⏚	65
CDD	108	poles + ⏚	72
CDS	42	poles + ⏚	81
CSH	24	poles + ⏚	94
CNE, CSE	24	poles + ⏚	107
CCE	24	poles + ⏚	113
CSS	24	poles + ⏚	125
CT, CTSE (16A) ***)**	24	poles + ⏚	133
CQE	46	poles + ⏚	141
CQEE	64	poles + ⏚	147
CMCE	10+2 (aux)	poles + ⏚	152
CMSH	10+2 (aux)	poles + ⏚	153
CX	4/8 and 6/6	poles + ⏚	173 and 175
MIXO	6	modules	179-215

***) only for enclosure CHIE 24**

refer to catalogue page CN.16

insert centre distance: **104 x 27 mm**

housings and cover



2.000 hrs

AVAILABLE 2017

hoods
with riveted locking pegs

2.000 hrs

AVAILABLE 2017

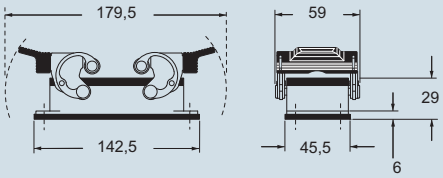
description	part No.	part No.	entry M	part No.	entry M
bulkhead mounting housing, with levers	**CHIE 24**				
surface mounting housing, with levers, high construction		**MAPE 24.32**	32		
with pegs, side entry				**MHOE 24.25**	25
with pegs, side entry				**MHOE 24.32**	32
with pegs, side entry, high construction				**MAOE 24.32**	32
with pegs, side entry, high construction				**MAOE 24.40**	40
with pegs, top entry				**MHVE 24.25**	25
with pegs, top entry				**MHVE 24.32**	32
with pegs, top entry, high construction				**MAVE 24.32**	32
with pegs, top entry, high construction				**MAVE 24.40**	40
with levers and gasket, top entry, high construction				**MAVE 24 G32**	32

TECHNICAL DETAILS:
- 2.000 hours in salt spray tests (EN ISO 9227: 2012)
- temperature limits: -40 °C ... +125 °C
- mechanical life: ≥ 500 cycles

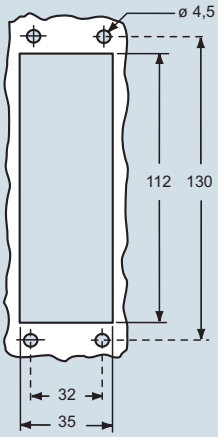
Alternatively, hoods with pegs are coupled with fixed enclosures:
- C7 E-Xtreme®, IP66/IP67 stainless steel lever, page 48

dimensions in mm

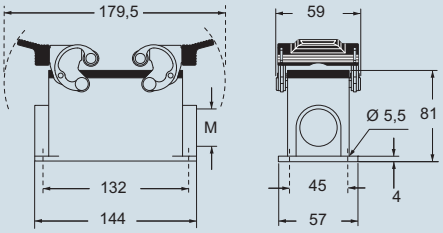
CHIE



panel cut-out for bulkhead mounting housing in mm

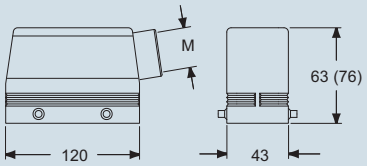


MAPE

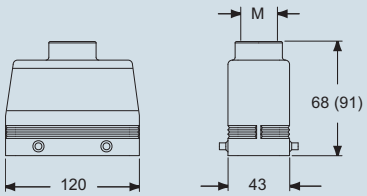


dimensions in mm

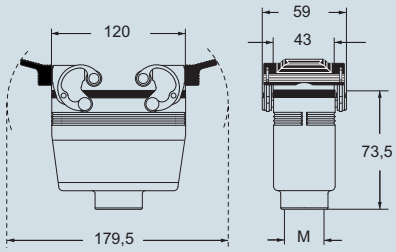
MHOE (MAOE)



MHVE (MAVE)



MAVE G



IP69 according to IEC/EN 60529

dimensions shown are not binding
and may be changed without notice

inserts:			page:
CD	80	poles + ⏚	60
CDD	144	poles + ⏚	73
CDS	54	poles + ⏚	82
CSH	32	poles + ⏚	95
CNE, CSE	32	poles + ⏚	108
CCE	32	poles + ⏚	114
CSS	32	poles + ⏚	126
CTSE (16A) ***)**	32	poles + ⏚	134
CQE	64	poles + ⏚	142
CMCE	12+4 (aux)	poles + ⏚	154
CME	12+4 (aux)	poles + ⏚	155
CMSH	12+4 (aux)	poles + ⏚	155
CP	12	poles + ⏚	163
MIXO	4 + 4	modules	179-215

***) only for enclosure CHIE 32**

refer to catalogue page CN.16

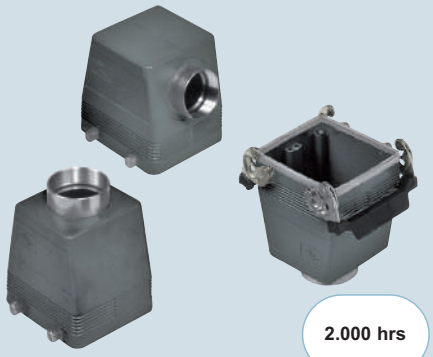
insert centre distance: **2 x (77,5 x 27) mm**

housings and cover

2.000 hrs

AVAILABLE 2017

hoods
with riveted locking pegs



2.000 hrs

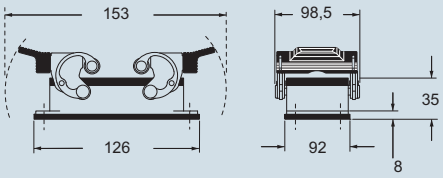
AVAILABLE 2017

description	part No.	part No.	entry M	part No.	entry M
bulkhead mounting housing, with levers	**CHIE 32**				
surface mounting housing, with levers		**MHPE 32.50**	50		
with pegs, side entry				**MHOE 32.40**	40
with pegs, top entry				**MHVE 32.40**	40
with levers and gasket, top entry				**MHVE 32 G40**	40

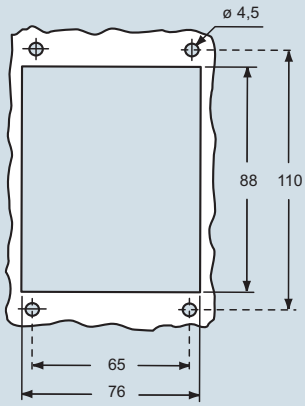
TECHNICAL DETAILS:
- 2.000 hours in salt spray tests (EN ISO 9227: 2012)
- temperature limits: -40 °C ... +125 °C
- mechanical life: ≥ 500 cycles

dimensions in mm

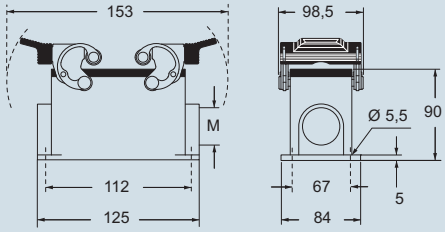
CHIE



panel cut-out for bulkhead mounting housing in mm

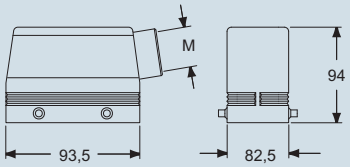


MHPE

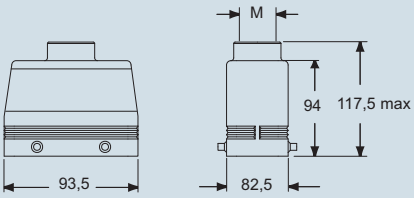


dimensions in mm

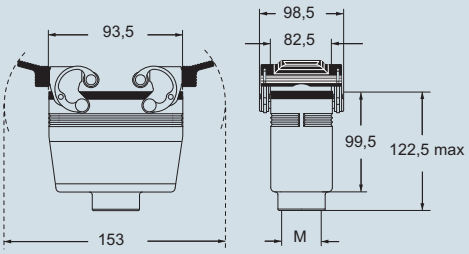
MHOE



MHVE



MHVE G



IP66 (EN 60529 / IEC 60529) IP69 according to IEC/EN 60529

dimensions shown are not binding
and may be changed without notice

inserts: page:

CD	128	poles + ⏚	61
CDD	216	poles + ⏚	74
CDS	84	poles + ⏚	83
CSH	48	poles + ⏚	96
CNE, CSE	48	poles + ⏚	109
CCE	48	poles + ⏚	115
CSS	48	poles + ⏚	127
CTSE (16A) ***)**	48	poles + ⏚	135
CQE	92	poles + ⏚	143
CMCE	20+4 (aux)	poles + ⏚	156
CME	20+4 (aux)	poles + ⏚	157
CMSH	20+4 (aux)	poles + ⏚	157
CMCE	32+4 (aux)	poles + ⏚	160
CME	32+4 (aux)	poles + ⏚	161
MIXO	6 + 6	modules	179-215

***) only for enclosure CHIW 48 LS**

refer to catalogue page CN.16

insert centre distance: **2 x (104 x 27) mm**

bulkhead and surface mounting housings

AVAILABLE 2017

hoods
with riveted locking pegs

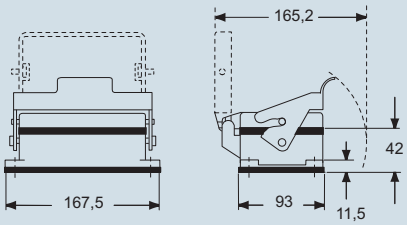
AVAILABLE 2017

description	part No.	part No.	entry M	part No.	entry M
bulkhead mounting housings, with lever and cover	**CHIE 48 LS**				
with lever and cover		**MHPE 48 LS40**	40 x 1/2		
side entry, with pegs				**MHOE 48 L40**	40
top entry, with pegs				**MHVE 48 L40**	40

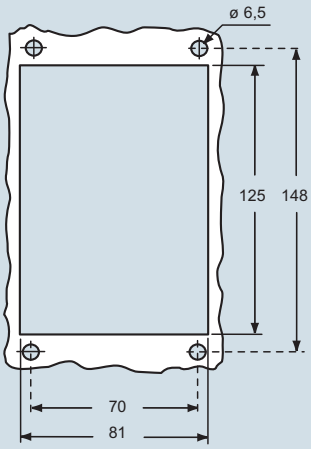
TECHNICAL DETAILS:
- 2.000 hours in salt spray tests (EN ISO 9227: 2012)
- temperature limits: -40 °C ... +125 °C
- mechanical life: ≥ 500 cycles

dimensions in mm

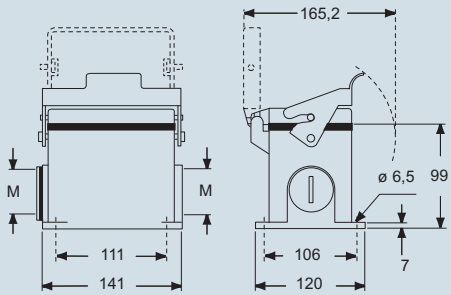
CHIE LS



panel cut-out for bulkhead mounting housings in mm

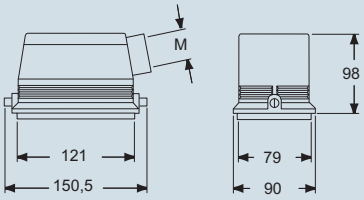


MHPE LS

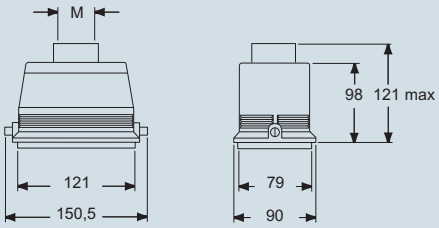


dimensions in mm

MHOE L



MHVE L

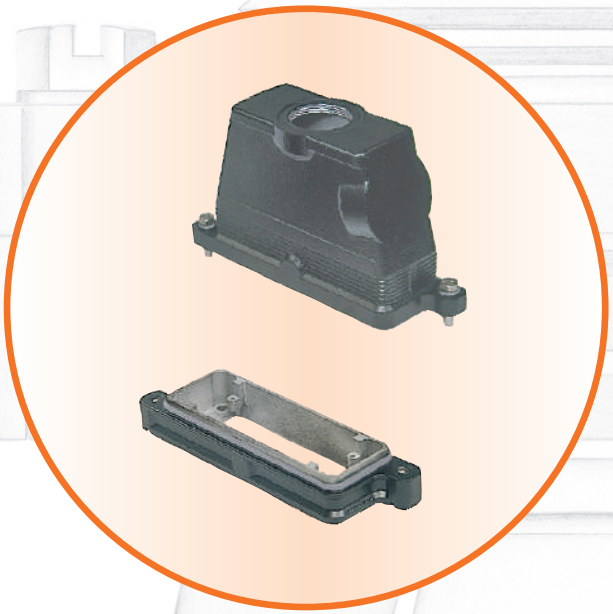


IP69 according to IEC/EN 60529

dimensions shown are not binding
and may be changed without notice

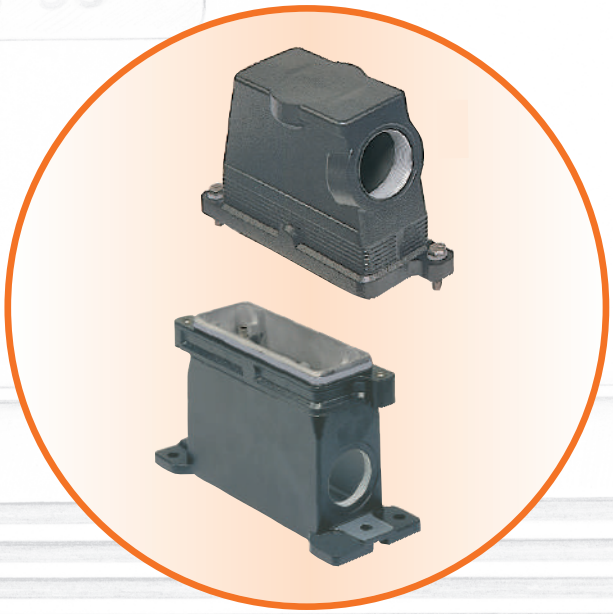
IP68

E-Xtreme® series



3.000 HOURS
IN SALT
SPRAY TESTS

TEMPERATURE
LIMITS
-60 °C ... + 180 °C
WITH
SILICONE GASKET



inserts:		page:
CDD	24 poles + ⏚	67 *
CDS	9 poles + ⏚	78 *
CDSH	9 poles + ⏚	9 **
CSH	6 poles + ⏚	91 *
CNE, CSE	6 poles + ⏚	104 *
CCE	6 poles + ⏚	110 *
CSS	6 poles + ⏚	122 *
CQE	10 poles + ⏚	138 *
MIXO	2 modules	179 - 215 *

*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert centre distance:
44 x 27 mm

bulkhead mounting housings, screw locking

3.000 hrs

AVAILABLE 2017

surface mounting housings, screw locking

3.000 hrs

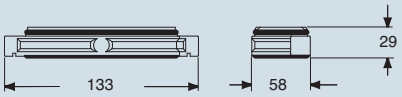
AVAILABLE 2017

description	part No.	part No.	entry M
size ”44.27”	**CGIE 06**		
size ”44.27”		**MGPE 06.32**	32

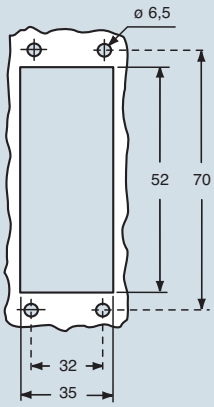
TECHNICAL DETAILS:
- 3.000 hours in salt spray tests (EN ISO 9227: 2012)
- temperature limits: -40 °C ... +125 °C
  on request -60 °C ... +180 °C with silicone gasket
  (>125 °C up to 180 °C with RY inserts)

dimensions in mm

CGIE

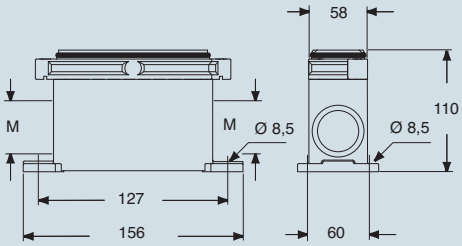


panel cut-out for bulkhead mounting housings in mm



dimensions in mm

MGPE



dust protection cover

CGCP FX from page 497 catalogue CN.16

according to IEC/EN 60529

dimensions shown are not binding
and may be changed without notice

inserts:		page:
CDD	24 poles + ⏚	67 *
CDS	9 poles + ⏚	78 *
CDSH	9 poles + ⏚	9 **
CSH	6 poles + ⏚	91 *
CNE, CSE	6 poles + ⏚	104 *
CCE	6 poles + ⏚	110 *
CSS	6 poles + ⏚	122 *
CQE	10 poles + ⏚	138 *
MIXO	2 modules	179 - 215 *

*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert centre distance:
44 x 27 mm

hoods, screw locking

3.000 hrs

AVAILABLE 2017

covers, screw locking

3.000 hrs

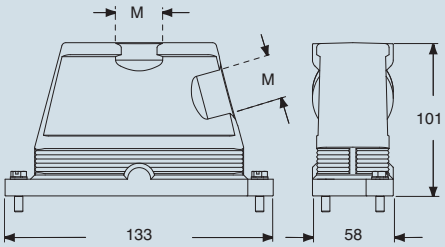
AVAILABLE 2017

description	part No.	entry M	part No.
with side entry			
size ”44.27”	**MGOE 06.25**	25	
size ”44.27”	**MGOE 06.32**	32	
with top entry			
size ”44.27”	**MGVE 06.25**	25	
size ”44.27”	**MGVE 06.32**	32	
size ”44.27”	**MGVE 06.40**	40	
size ”44.27”			**CGCE 06**

TECHNICAL DETAILS:
- 3.000 hours in salt spray tests (EN ISO 9227: 2012)
- temperature limits: -40 °C ... +125 °C
  on request -60 °C ... +180 °C with silicone gasket
  (>125 °C up to 180 °C with RY inserts)

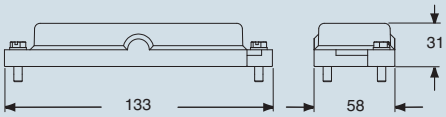
dimensions in mm

MGOE and **MGVE**



dimensions in mm

CGCE



dust protection cover

CGCP MB from page 497 catalogue CN.16

according to IEC/EN 60529

dimensions shown are not binding
and may be changed without notice

inserts:		page:
CDD	42 poles + ⏚	69 *
CDS	18 poles + ⏚	79 *
CDSH	18 poles + ⏚	10 **
CSH	10 poles + ⏚	92 *
CNE, CSE	10 poles + ⏚	105 *
CCE	10 poles + ⏚	111 *
CSS	10 poles + ⏚	123 *
CQE	18 poles + ⏚	139 *
CMCE	3+2 (aux) poles + ⏚	148 *
CMSH	3+2 (aux) poles + ⏚	149 *
CX	8/24 poles + ⏚	169 *
MIXO	3 modules	179 - 215 *

*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert centre distance:
57 x 27 mm

bulkhead mounting housings, screw locking

3.000 hrs

AVAILABLE 2017

surface mounting housings, screw locking

3.000 hrs

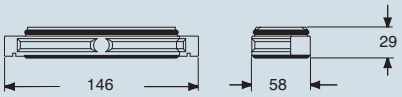
AVAILABLE 2017

description	part No.	part No.	entry M
size ”57.27”	**CGIE 10**		
size ”57.27”		**MGPE 10.32**	32

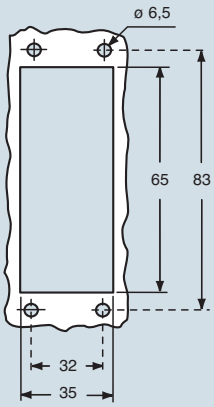
TECHNICAL DETAILS:
- 3.000 hours in salt spray tests (EN ISO 9227: 2012)
- temperature limits: -40 °C ... +125 °C
  on request -60 °C ... +180 °C with silicone gasket
  (>125 °C up to 180 °C with RY inserts)

dimensions in mm

CGIE

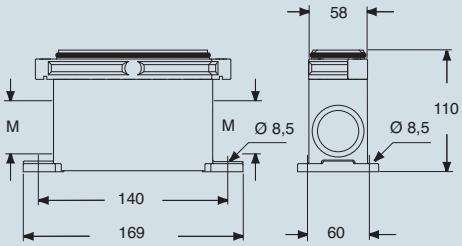


panel cut-out for bulkhead mounting housings in mm



dimensions in mm

MGPE



dust protection cover

CGCP FX from page 497 catalogue CN.16

EN 60529 IP66 IP68 IP69 IEC 60529 according to IEC/EN 60529

dimensions shown are not binding
and may be changed without notice

CG and MG enclosures size “57.27” high protection IP68 version E-Xtreme®

inserts:		page:
CDD	42 poles + ⏚	69 *
CDS	18 poles + ⏚	79 *
CDSH	18 poles + ⏚	10 **
CSH	10 poles + ⏚	92 *
CNE, CSE	10 poles + ⏚	105 *
CCE	10 poles + ⏚	111 *
CSS	10 poles + ⏚	123 *
CQE	18 poles + ⏚	139 *
CMCE	3+2 (aux) poles + ⏚	148 *
CMSH	3+2 (aux) poles + ⏚	149 *
CX	8/24 poles + ⏚	169 *
MIXO	3 modules	179 - 215 *

*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert centre distance:
57 x 27 mm

hoods, screw locking

3.000 hrs

AVAILABLE 2017

covers, screw locking

3.000 hrs

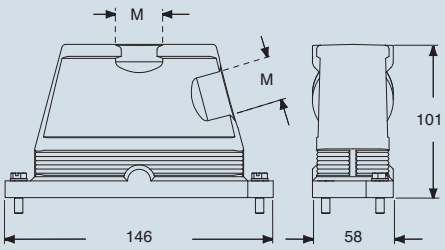
AVAILABLE 2017

description	part No.	entry M	part No.
with side entry			
size ”57.27”	**MGOE 10.25**	25	
size ”57.27”	**MGOE 10.32**	32	
with top entry			
size ”57.27”	**MGVE 10.25**	25	
size ”57.27”	**MGVE 10.32**	32	
size ”57.27”	**MGVE 10.40**	40	
size ”57.27”			**CGCE 10**

TECHNICAL DETAILS:
- 3.000 hours in salt spray tests (EN ISO 9227: 2012)
- temperature limits: -40 °C ... +125 °C
  on request -60 °C ... +180 °C with silicone gasket
  (>125 °C up to 180 °C with RY inserts)

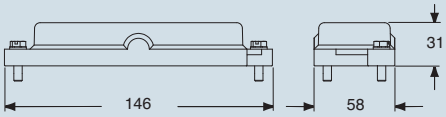
dimensions in mm

MGOE and **MGVE**



dimensions in mm

CGCE



dust protection cover

CGCP MB from page 497 catalogue CN.16

according to IEC/EN 60529

dimensions shown are not binding
and may be changed without notice

inserts:		page:
CD 40	poles + ⏚	57 *
CDD 72	poles + ⏚	70 *
CDS 27	poles + ⏚	80 *
CDSH 27	poles + ⏚	11 **
CSH 16	poles + ⏚	93 *
CNE, CSE 16	poles + ⏚	106 *
CCE 16	poles + ⏚	112 *
CSS 16	poles + ⏚	124 *
CQE 32	poles + ⏚	140 *
CQEE 40	poles + ⏚	146 *
CMCE, CMSH 6+2 (aux)	poles + ⏚	150-151 *
CP..... 6	poles + ⏚	162 *
CX 6/12	poles + ⏚	21 **
CX ..... 6/36 and 12/2	poles + ⏚	170-171 *
CX ..... 4/0 and 4/2	poles + ⏚	172 *
MIXO 4	modules	179-215 *

*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert centre distance: **77,5 x 27 mm**

bulkhead mounting housings, screw locking

3.000 hrs

AVAILABLE 2017

surface mounting housings, screw locking

3.000 hrs

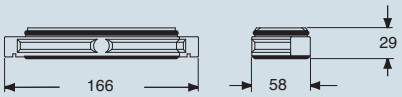
AVAILABLE 2017

description	part No.	part No.	entry M
size ”77.27”	**CGIE 16**		
size ”77.27”		**MGPE 16.40**	40

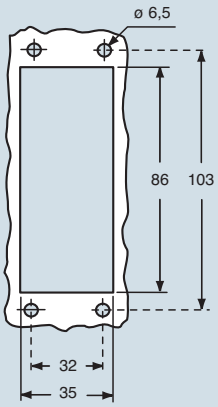
TECHNICAL DETAILS:
- 3.000 hours in salt spray tests (EN ISO 9227: 2012)
- temperature limits: -40 °C ... +125 °C
  on request -60 °C ... +180 °C with silicone gasket
  (>125 °C up to 180 °C with RY inserts)

dimensions in mm

CGIE

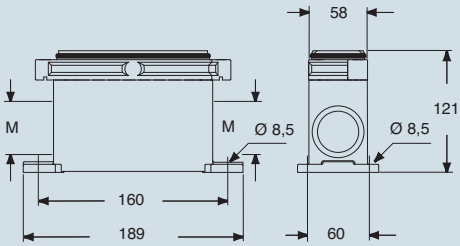


panel cut-out for bulkhead mounting housings in mm



dimensions in mm

MGPE



dust protection cover

CGCP FX from page 497 catalogue CN.16

according to IEC/EN 60529

dimensions shown are not binding
and may be changed without notice

inserts: page:

CD	40	poles + ⏚	57 *
CDD	72	poles + ⏚	70 *
CDS	27	poles + ⏚	80 *
CDSH	27	poles + ⏚	11 **
CSH	16	poles + ⏚	93 *
CNE, CSE	16	poles + ⏚	106 *
CCE	16	poles + ⏚	112 *
CSS	16	poles + ⏚	124 *
CQE	32	poles + ⏚	140 *
CQEE	40	poles + ⏚	146 *
CMCE, CMSH	6+2 (aux)	poles + ⏚	150-151 *
CP	6	poles + ⏚	162 *
CX	6/12	poles + ⏚	21 **
CX	6/36 and 12/2	poles + ⏚	170-171 *
CX	4/0 and 4/2	poles + ⏚	172 *
MIXO	4	modules	179-215 *

*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert centre distance: **77,5 x 27 mm**

hoods, screw locking

3.000 hrs

AVAILABLE 2017

covers, screw locking

3.000 hrs

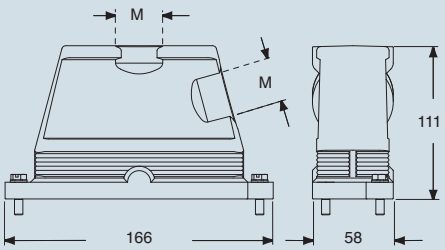
AVAILABLE 2017

description	part No.	entry M	part No.
with side entry			
size ”77.27”	**MGOE 16.32**	32	
size ”77.27”	**MGOE 16.40**	40	
size ”77.27”	**MGOE 16.50**	50	
with top entry			
size ”77.27”	**MGVE 16.25**	25	
size ”77.27”	**MGVE 16.225**	25x2	
size ”77.27”	**MGVE 16.32**	32	
size ”77.27”	**MGVE 16.40**	40	
size ”77.27”	**MGVE 16.50**	50	
size ”77.27”			**CGCE 16**

TECHNICAL DETAILS:
- 3.000 hours in salt spray tests (EN ISO 9227: 2012)
- temperature limits: -40 °C ... +125 °C
  on request -60 °C ... +180 °C with silicone gasket
  (>125 °C up to 180 °C with RY inserts)

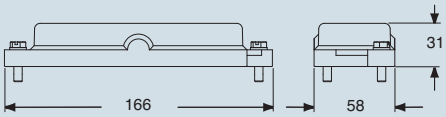
dimensions in mm

MGOE and **MGVE**



dimensions in mm

CGCE



dust protection cover

CGCP MB from page 497 catalogue CN.16

according to IEC/EN 60529

dimensions shown are not binding
and may be changed without notice

inserts: page:

CD	64	poles + ⏚	59 *
CDD	108	poles + ⏚	72 *
CDS	42	poles + ⏚	81 *
CDSH	42	poles + ⏚	12 **
CSH	24	poles + ⏚	94 *
CNE, CSE	24	poles + ⏚	107 *
CCE	24	poles + ⏚	113 *
CSS	24	poles + ⏚	125 *
CQE	46	poles + ⏚	141 *
CQEE	64	poles + ⏚	147 *
CMCE	10+2 (aux)	poles + ⏚	152 *
CMSH	10+2 (aux)	poles + ⏚	153 *
CX	4/8 and 6/6	poles + ⏚	173 and 175 *
MIXO	6	modules	179-215 *

*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert centre distance: **104 x 27 mm**

bulkhead mounting housings, screw locking

3.000 hrs

AVAILABLE 2017

surface mounting housings, screw locking

3.000 hrs

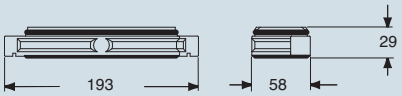
AVAILABLE 2017

description	part No.	part No.	entry M
size ”104.27”	**CGIE 24**		
size ”104.27” size ”104.27”		**MGPE 24.40** **MGPE 24.240**	40 40 x 2

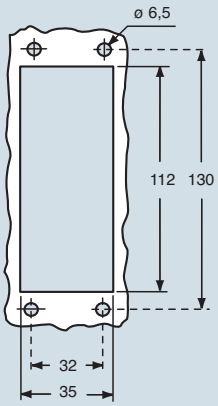
TECHNICAL DETAILS:
- 3.000 hours in salt spray tests (EN ISO 9227: 2012)
- temperature limits: -40 °C ... +125 °C
  on request -60 °C ... +180 °C with silicone gasket
  (>125 °C up to 180 °C with RY inserts)

dimensions in mm

CGI

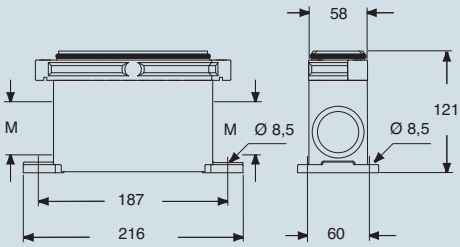


panel cut-out for bulkhead mounting housings in mm



dimensions in mm

CGP and **MGP**



dust protection cover

CGCP FX from page 497 catalogue CN.16

according to IEC/EN 60529

dimensions shown are not binding
and may be changed without notice

CG and **MG** enclosures size “104.27” high protection **IP68** version **E-Xtreme®**

inserts: page:

CD	64	poles + ⏚	59 *
CDD	108	poles + ⏚	72 *
CDS	42	poles + ⏚	81 *
CDSH	42	poles + ⏚	12 **
CSH	24	poles + ⏚	94 *
CNE, CSE	24	poles + ⏚	107 *
CCE	24	poles + ⏚	113 *
CSS	24	poles + ⏚	125 *
CQE	46	poles + ⏚	141 *
CQEE	64	poles + ⏚	147 *
CMCE	10+2 (aux)	poles + ⏚	152 *
CMSH	10+2 (aux)	poles + ⏚	153 *
CX	4/8 and 6/6	poles + ⏚	173 and 175 *
MIXO	6	modules	179-215 *

*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert centre distance: **104 x 27 mm**

hoods, screw locking

3.000 hrs

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covers, screw locking

3.000 hrs

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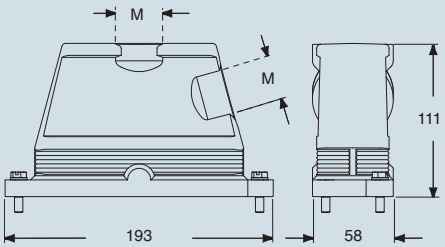
description	part No.	entry M	part No.
with side entry			
size ”104.27”	**MGOE 24.32**	32	
size ”104.27”	**MGOE 24.40**	40	
size ”104.27”	**MGOE 24.50**	50	
with top entry			
size ”104.27”	**MGVE 24.325**	25x3	
size ”104.27”	**MGVE 24.32**	32	
size ”104.27”	**MGVE 24.232**	32x2	
size ”104.27”	**MGVE 24.40**	40	
size ”104.27”	**MGVE 24.240**	40x2	
size ”104.27”	**MGVE 24.50**	50	
size ”104.27”			**CGCE 24**

TECHNICAL DETAILS:
- 3.000 hours in salt spray tests (EN ISO 9227: 2012
- temperature limits: -40 °C ... +125 °C
  on request -60 °C ... +180 °C with silicone gasket
  (>125 °C up to 180 °C with RY inserts)

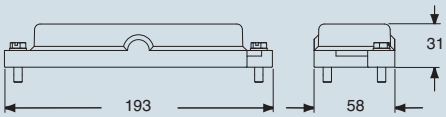
dimensions in mm

MGOE and **MGVE**



dimensions in mm

CGCE



dust protection cover

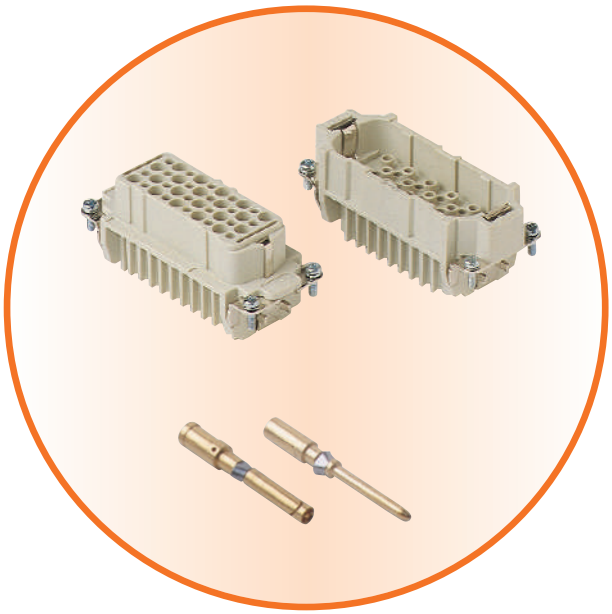
CGCP MB from page 497 catalogue CN.16

EN 60529 IP66 IP68 IP69 IEC 60529 according to IEC/EN 60529

dimensions shown are not binding
and may be changed without notice

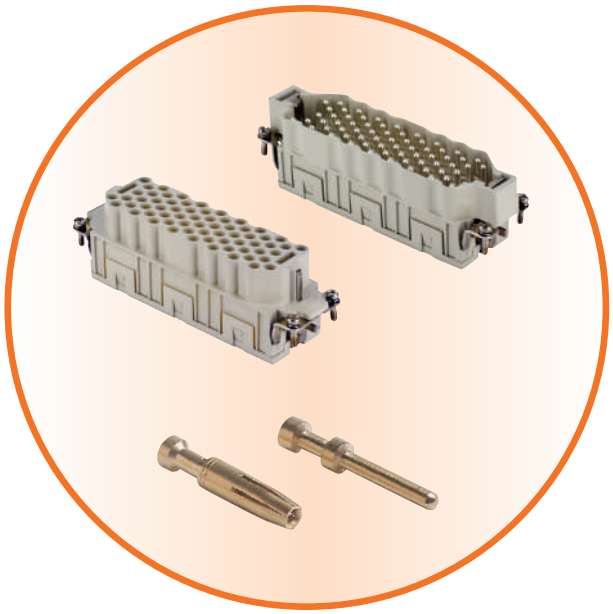
HNM series

Inserts and enclosures for **High Number** of **Matings**



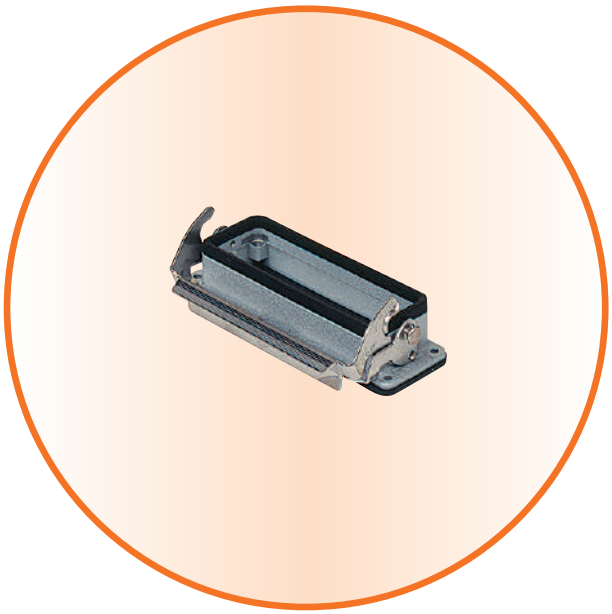
10.000
MATINGS
WITH
HNM ENCLOSURES

5.000
MATINGS
WITH
STANDARD ENCLOSURES
SINGLE LEVER



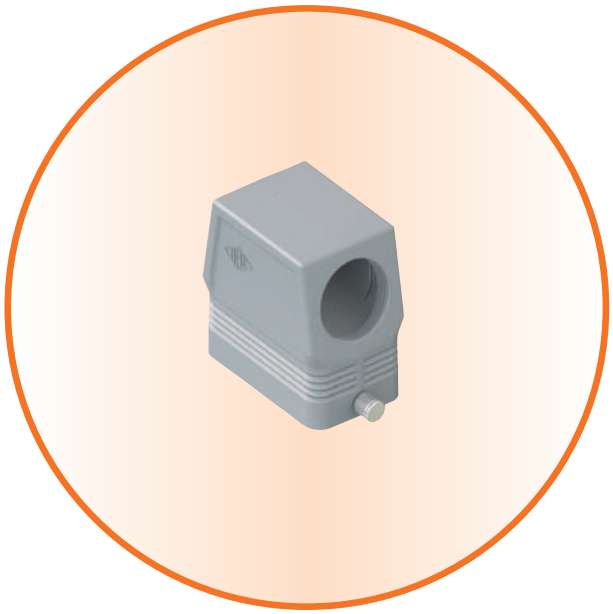
HNM series

Inserts and enclosures for **High Number** of **Matings**



V-TYPE LOCKING LEVER WITH SPECIAL ANTIFRICTION TREATMENT

HOODS WITH RIVETED ANTIFRICTION PEGS THAT FACILITATE OPENING AND CLOSING



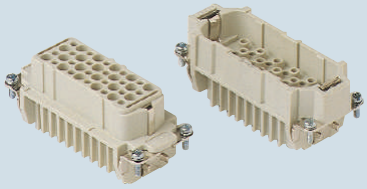
enclosures:
size "77.27" page:

HNM ..... 94 - 95
C-TYPE IP65/IP66, single lever ... 250 - 256 *
V-TYPE IP65/IP66, single lever 282/292 - 295 *

*** refer to catalogue page CN.16**

AVAILABLE NOVEMBER 2017

inserts, crimp connections



10.000 matings with HNM enclosures

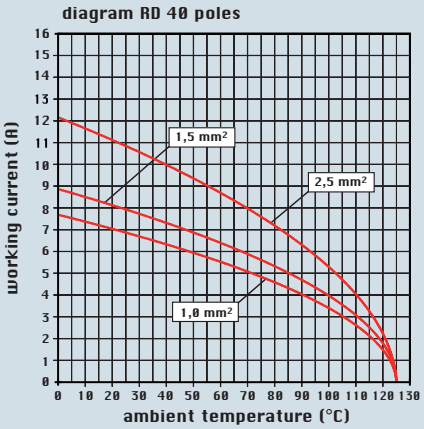
5.000 matings with standard enclosures, single lever

10A crimp contacts gold plated

description	part No.	part No.
without contacts (to be ordered separately) female inserts for female contacts male inserts for male contacts	**RDF 40** **RDM 40**	
10A female contacts 0,14-0,37 mm² AWG 26-22 identification No. 1 0,5 mm² AWG 20 identification No. 2 0,75 mm² AWG 18 identification No. ② 1 mm² AWG 18 identification No. 3 1,5 mm² AWG 16 identification No. 4 2,5 mm² AWG 14 identification No. 5		**RDF2D 0.3** **RDF2D 0.5** **RDF2D 0.7** **RDF2D 1.0** **RDF2D 1.5** **RDF2D 2.5**
10A male contacts 0,14-0,37 mm² AWG 26-22 identification No. 1 0,5 mm² AWG 20 identification No. 2 0,75 mm² AWG 18 identification No. ② 1 mm² AWG 18 identification No. 3 1,5 mm² AWG 16 identification No. 4 2,5 mm² AWG 14 identification No. 5		**RDM2D 0.3** **RDM2D 0.5** **RDM2D 0.7** **RDM2D 1.0** **RDM2D 1.5** **RDM2D 2.5**

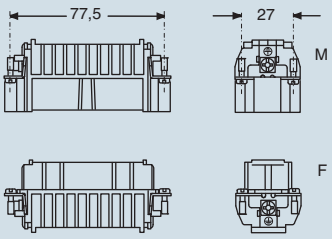
gold plated

- characteristics according to EN 61984:
  10A 250V 4kV 3
  10A 230/400V 4kV 2
- insulation resistance: ≥ 10 GΩ
- ambient temperature limits: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 10.000 cycles
- contact resistance: ≤ 3 mΩ
- for applications requiring higher voltages, please see the special voltage application section on page 52 catalogue CN.16
- for contact crimping instructions, please see the crimping tool section (10A contacts, RDF2D and RDM2D series) on pages 531-539 and 544-549 catalogue CN.16
- for maximum current load see the following connector inserts derating diagrams

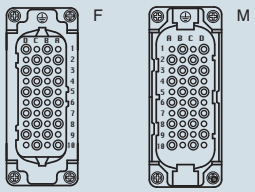


dimensions shown are not binding and may be changed without notice

dimensions in mm

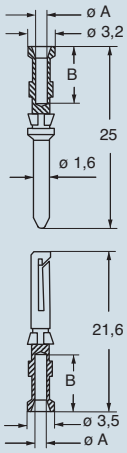


contacts side (front view)



coding pin **CR CP** with loss of one contact, page 491 catalogue CN.16

dimensions in mm



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

RD 64 poles + ⏚ 10A - 250V HNM (High Number of Matings)

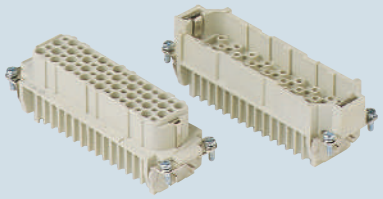
enclosures:
size "104.27" page:

HNM ..... 96 - 97
C-TYPE IP65/IP66, single lever ... 258 - 266 *
V-TYPE IP65/IP66, single lever 283/296 - 299 *

*** refer to catalogue page CN.16**

AVAILABLE NOVEMBER 2017

inserts, crimp connections



10.000 matings with HNM enclosures

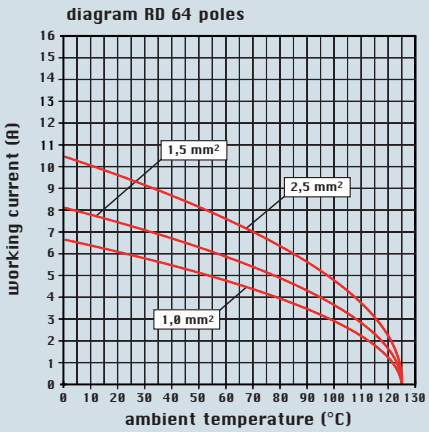
5.000 matings with standard enclosures, single lever

10A crimp contacts gold plated

description	part No.	part No.
without contacts (to be ordered separately) female inserts for female contacts male inserts for male contacts	**RDF 64** **RDM 64**	
10A female contacts 0,14-0,37 mm² AWG 26-22 identification No. 1 0,5 mm² AWG 20 identification No. 2 0,75 mm² AWG 18 identification No. ② 1 mm² AWG 18 identification No. 3 1,5 mm² AWG 16 identification No. 4 2,5 mm² AWG 14 identification No. 5		**RDF2D 0.3** **RDF2D 0.5** **RDF2D 0.7** **RDF2D 1.0** **RDF2D 1.5** **RDF2D 2.5**
10A male contacts 0,14-0,37 mm² AWG 26-22 identification No. 1 0,5 mm² AWG 20 identification No. 2 0,75 mm² AWG 18 identification No. ② 1 mm² AWG 18 identification No. 3 1,5 mm² AWG 16 identification No. 4 2,5 mm² AWG 14 identification No. 5		**RDM2D 0.3** **RDM2D 0.5** **RDM2D 0.7** **RDM2D 1.0** **RDM2D 1.5** **RDM2D 2.5**

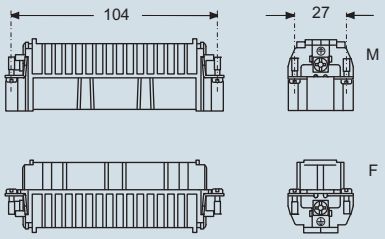
gold plated

- characteristics according to EN 61984:
  10A 250V 4kV 3
  10A 230/400V 4kV 2
- insulation resistance: ≥ 10 GΩ
- ambient temperature limits: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 10.000 cycles
- contact resistance: ≤ 3 mΩ
- for applications requiring higher voltages, please see the special voltage application section on page 52 catalogue CN.16
- for contact crimping instructions, please see the crimping tool section (10A contacts, RDF2D and RDM2D series) on pages 531-539 and 544-549 catalogue CN.16
- for maximum current load see the following connector inserts derating diagrams

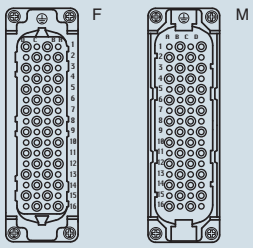


dimensions shown are not binding and may be changed without notice

dimensions in mm

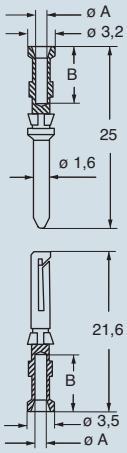


contacts side (front view)



coding pin **CR CP** with loss of one contact, page 491 catalogue CN.16

dimensions in mm

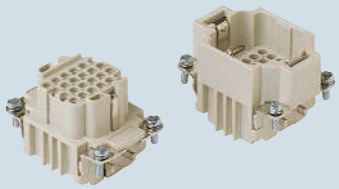


RDF2D and RDM2D contacts

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 "44.27" page:
HNM ..... 90 - 91

inserts, crimp connections



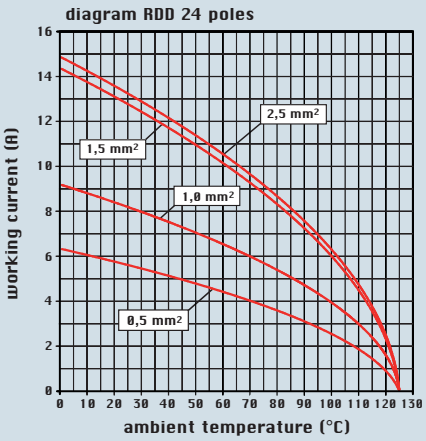
10.000 matings with HNM enclosures

10A crimp contacts gold plated

AVAILABLE NOVEMBER 2017

description	part No.	part No.
without contacts (to be ordered separately) female inserts for female contacts male inserts for male contacts	**RDDF 24** **RDDM 24**	
10A female contacts 0,14-0,37 mm² AWG 26-22 identification No. 1 0,5 mm² AWG 20 identification No. 2 0,75 mm² AWG 18 identification No. ② 1 mm² AWG 18 identification No. 3 1,5 mm² AWG 16 identification No. 4 2,5 mm² AWG 14 identification No. 5		**RDF2D 0.3** **RDF2D 0.5** **RDF2D 0.7** **RDF2D 1.0** **RDF2D 1.5** **RDF2D 2.5** **gold plated**
10A male contacts 0,14-0,37 mm² AWG 26-22 identification No. 1 0,5 mm² AWG 20 identification No. 2 0,75 mm² AWG 18 identification No. ② 1 mm² AWG 18 identification No. 3 1,5 mm² AWG 16 identification No. 4 2,5 mm² AWG 14 identification No. 5		**RDM2D 0.3** **RDM2D 0.5** **RDM2D 0.7** **RDM2D 1.0** **RDM2D 1.5** **RDM2D 2.5**

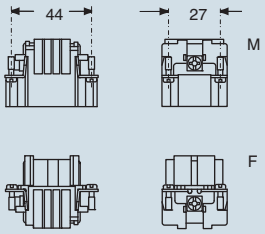
- characteristics according to EN 61984:
  10A 250V 4kV 2
- insulation resistance: ≥ 10 GΩ
- ambient temperature limits: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 10.000 cycles
- contact resistance: ≤ 3 mΩ
- for applications requiring higher voltages, please see the special voltage application section on page 66 catalogue CN.16
- for contact crimping instructions, please see the crimping tool section (10A contacts, RDF2D and RDM2D series) on pages 531-539 and 544-549 catalogue CN.16
- for maximum current load see the following connector inserts derating diagrams



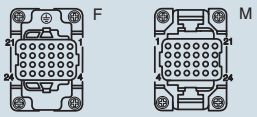
- PCBs interface, see article CIF 2.4

dimensions shown are not binding and may be changed without notice

dimensions in mm

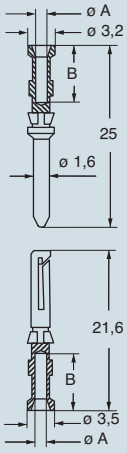


contacts side (front view)



coding pin **CR CP** with loss of one contact, page 491 catalogue CN.16

dimensions in mm



RDF2D and RDM2D contacts

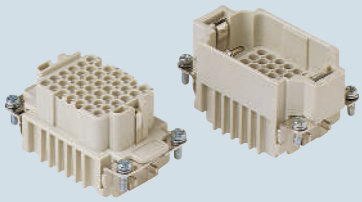
conductor section mm²	conductor slot ø A (mm)	conductors stripping length B (mm)
0,14-0,37	0,9	8
0,5	1,1	8
0,75	1,3	8
1,0	1,45	8
1,5	1,8	8
2,5	2,2	6

RDD 42 poles + ⏚ 10A - 250V HNM (High Number of Matings)

enclosures:
size "57.27" page:

AVAILABLE NOVEMBER 2017

inserts, crimp connections



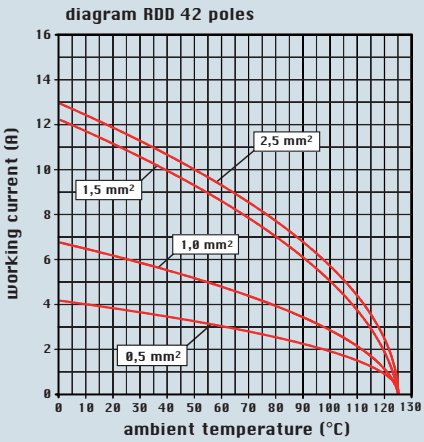
10.000 matings with HNM enclosures

5.000 matings with standard enclosures, single lever

10A crimp contacts gold plated

description	part No.	part No.
without contacts (to be ordered separately) female inserts for female contacts male inserts for male contacts	**RDDF 42** **RDDM 42**	
10A female contacts 0,14-0,37 mm² AWG 26-22 identification No. 1 0,5 mm² AWG 20 identification No. 2 0,75 mm² AWG 18 identification No. ② 1 mm² AWG 18 identification No. 3 1,5 mm² AWG 16 identification No. 4 2,5 mm² AWG 14 identification No. 5		**RDF2D 0.3** **RDF2D 0.5** **RDF2D 0.7** **RDF2D 1.0** **RDF2D 1.5** **RDF2D 2.5** **gold plated**
10A male contacts 0,14-0,37 mm² AWG 26-22 identification No. 1 0,5 mm² AWG 20 identification No. 2 0,75 mm² AWG 18 identification No. ② 1 mm² AWG 18 identification No. 3 1,5 mm² AWG 16 identification No. 4 2,5 mm² AWG 14 identification No. 5		**RDM2D 0.3** **RDM2D 0.5** **RDM2D 0.7** **RDM2D 1.0** **RDM2D 1.5** **RDM2D 2.5**

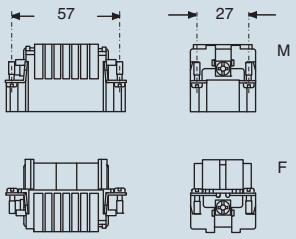
- characteristics according to EN 61984:
  10A 250V 4kV 2
- insulation resistance: ≥ 10 GΩ
- ambient temperature limits: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 10.000 cycles
- contact resistance: ≤ 3 mΩ
- for applications requiring higher voltages, please see the special voltage application section on page 66 catalogue CN.16
- for contact crimping instructions, please see the crimping tool section (10A contacts, RDF2D and RDM2D series) on pages 531-539 and 544-549 catalogue CN.16
- for maximum current load see the following connector inserts derating diagrams



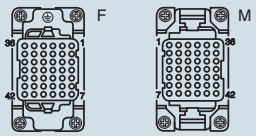
- PCBs interface, see article CIF 2.4

dimensions shown are not binding and may be changed without notice

dimensions in mm

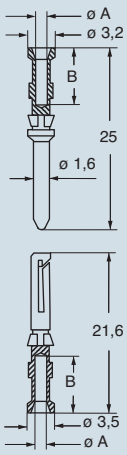


contacts side (front view)



coding pin **CR CP** with loss of one contact, page 491 catalogue CN.16

dimensions in mm



RDF2D and RDM2D contacts

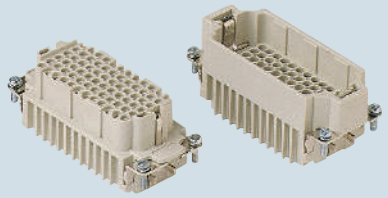
conductor section mm²	conductor slot ø A (mm)	conductors stripping length B (mm)
0,14-0,37	0,9	8
0,5	1,1	8
0,75	1,3	8
1,0	1,45	8
1,5	1,8	8
2,5	2,2	6

enclosures:
size "77.27" page:

*** refer to catalogue page CN.16**

AVAILABLE NOVEMBER 2017

inserts, crimp connections



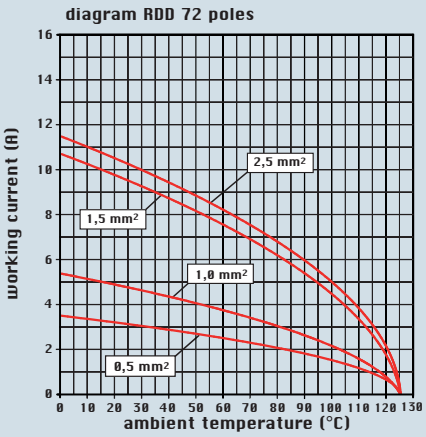
10.000 matings with HNM enclosures

5.000 matings with standard enclosures, single lever

10A crimp contacts gold plated

description	part No.	part No.
without contacts (to be ordered separately) female inserts for female contacts male inserts for male contacts	**RDDF 72** **RDDM 72**	
10A female contacts 0,14-0,37 mm² AWG 26-22 identification No. 1 0,5 mm² AWG 20 identification No. 2 0,75 mm² AWG 18 identification No. ② 1 mm² AWG 18 identification No. 3 1,5 mm² AWG 16 identification No. 4 2,5 mm² AWG 14 identification No. 5		**RDF2D 0.3** **RDF2D 0.5** **RDF2D 0.7** **RDF2D 1.0** **RDF2D 1.5** **RDF2D 2.5** **gold plated**
10A male contacts 0,14-0,37 mm² AWG 26-22 identification No. 1 0,5 mm² AWG 20 identification No. 2 0,75 mm² AWG 18 identification No. ② 1 mm² AWG 18 identification No. 3 1,5 mm² AWG 16 identification No. 4 2,5 mm² AWG 14 identification No. 5		**RDM2D 0.3** **RDM2D 0.5** **RDM2D 0.7** **RDM2D 1.0** **RDM2D 1.5** **RDM2D 2.5**

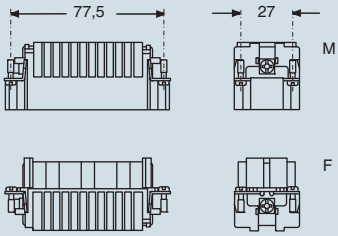
- characteristics according to EN 61984:
  10A 250V 4kV 2
- insulation resistance: ≥ 10 GΩ
- ambient temperature limits: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 10.000 cycles
- contact resistance: ≤ 3 mΩ
- for applications requiring higher voltages, please see the special voltage application section on page 66 catalogue CN.16
- for contact crimping instructions, please see the crimping tool section (10A contacts, RDF2D and RDM2D series) on pages 531-539 and 544-549 catalogue CN.16
- for maximum current load see the following connector inserts derating diagrams



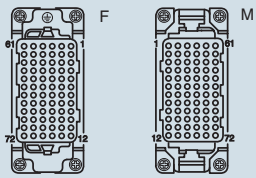
- PCBs interface, see article CIF 2.4

dimensions shown are not binding and may be changed without notice

dimensions in mm

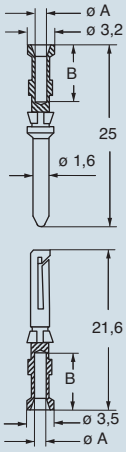


contacts side (front view)



coding pin **CR CP** with loss of one contact, page 491 catalogue CN.16

dimensions in mm



RDF2D and RDM2D contacts

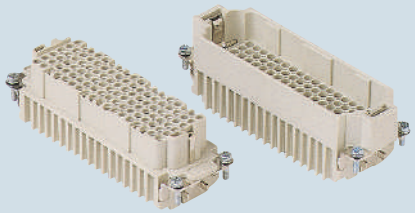
conductor section mm²	conductor slot ø A (mm)	conductors stripping length B (mm)
0,14-0,37	0,9	8
0,5	1,1	8
0,75	1,3	8
1,0	1,45	8
1,5	1,8	8
2,5	2,2	6

enclosures:
size "104.27" page:

*** refer to catalogue page CN.16**

AVAILABLE NOVEMBER 2017

inserts, crimp connections



10.000 matings with HNM enclosures

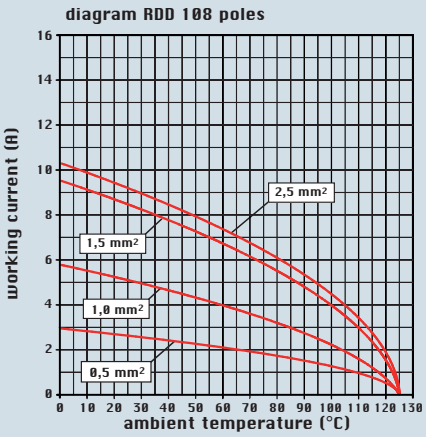
5.000 matings with standard enclosures, single lever

10A crimp contacts gold plated

description	part No.	part No.
without contacts (to be ordered separately) female inserts for female contacts male inserts for male contacts	**RDDF 108** **RDDM 108**	
10A female contacts 0,14-0,37 mm² AWG 26-22 identification No. 1 0,5 mm² AWG 20 identification No. 2 0,75 mm² AWG 18 identification No. ② 1 mm² AWG 18 identification No. 3 1,5 mm² AWG 16 identification No. 4 2,5 mm² AWG 14 identification No. 5		**RDF2D 0.3** **RDF2D 0.5** **RDF2D 0.7** **RDF2D 1.0** **RDF2D 1.5** **RDF2D 2.5**
10A male contacts 0,14-0,37 mm² AWG 26-22 identification No. 1 0,5 mm² AWG 20 identification No. 2 0,75 mm² AWG 18 identification No. ② 1 mm² AWG 18 identification No. 3 1,5 mm² AWG 16 identification No. 4 2,5 mm² AWG 14 identification No. 5		**RDM2D 0.3** **RDM2D 0.5** **RDM2D 0.7** **RDM2D 1.0** **RDM2D 1.5** **RDM2D 2.5**

gold plated

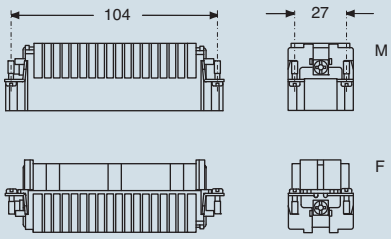
- characteristics according to EN 61984:
  10A 250V 4kV 2
- insulation resistance: ≥ 10 GΩ
- ambient temperature limits: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 10.000 cycles
- contact resistance: ≤ 3 mΩ
- for applications requiring higher voltages, please see the special voltage application section on page 66 catalogue CN.16
- for contact crimping instructions, please see the crimping tool section (10A contacts, RDF2D and RDM2D series) on pages 531-539 and 544-549 catalogue CN.16
- for maximum current load see the following connector inserts derating diagrams



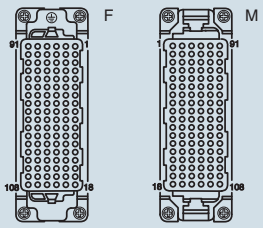
- PCBs interface, see article CIF 2.4

dimensions shown are not binding and may be changed without notice

dimensions in mm

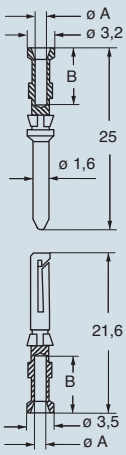


contacts side (front view)



coding pin **CR CP** with loss of one contact, page 491 catalogue CN.16

dimensions in mm

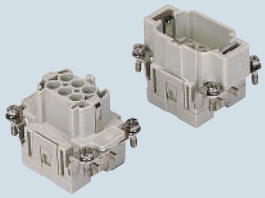


RDF2D and RDM2D contacts

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 "44.27" page:
HNM ..... 90 - 91

inserts, crimp connections



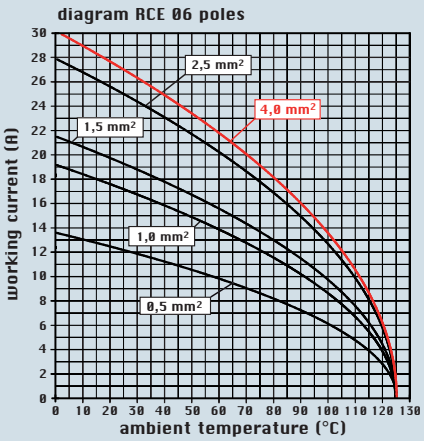
10.000 matings with HNM enclosures

16A crimp contacts gold plated

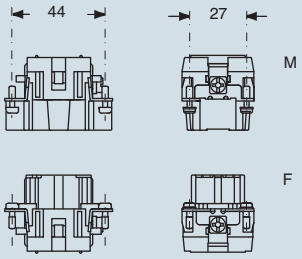
AVAILABLE NOVEMBER 2017

description	part No.	part No.
without contacts (to be ordered separately) female inserts for female contacts male inserts for male contacts	**RCEF 06** **RCEM 06**	
16A female contacts 0,14-0,37 mm² AWG 26-22 one groove 0,5 mm² AWG 20 with no grooves 0,75 mm² AWG 18 one groove (back side) 1 mm² AWG 18 one groove 1,5 mm² AWG 16 two grooves 2,5 mm² AWG 14 three grooves 3 mm² AWG 12 one wide groove 4 mm² AWG 12 with no grooves		**RCF2D 0.3** **RCF2D 0.5** **RCF2D 0.7** **RCF2D 1.0** **RCF2D 1.5** **RCF2D 2.5** **RCF2D 3.0** **RCF2D 4.0** **gold plated**
16A male contacts 0,14-0,37 mm² AWG 26-22 one groove 0,5 mm² AWG 20 with no grooves 0,75 mm² AWG 18 one groove (back side) 1 mm² AWG 18 one groove 1,5 mm² AWG 16 two grooves 2,5 mm² AWG 14 three grooves 3 mm² AWG 12 one wide groove 4 mm² AWG 12 with no grooves		**RCM2D 0.3** **RCM2D 0.5** **RCM2D 0.7** **RCM2D 1.0** **RCM2D 1.5** **RCM2D 2.5** **RCM2D 3.0** **RCM2D 4.0**

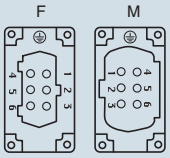
- characteristics according to EN 61984:
  16A 500V 6kV 3
  16A 400/690V 6kV 2
- insulation resistance: ≥ 10 GΩ
- ambient temperature limits: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 10.000 cycles
- contact resistance: ≤ 1 mΩ
- for contact crimping instructions, please see the crimping tool section (16A contacts, RCF2D and RCM2D series) on pages 531-539 and 544-549 catalogue CN.16
- for maximum current load see the following connector inserts derating diagrams



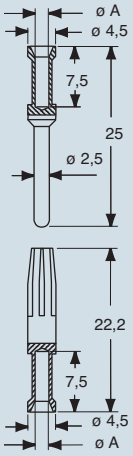
dimensions in mm



contacts side (front view)



dimensions in mm



RCF2D and RCM2D contacts

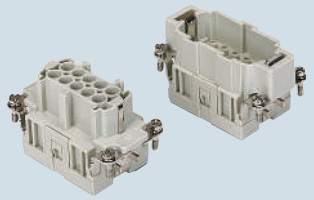
conductor section mm²	conductor slot ø A (mm)	conductors stripping length mm
0,14-0,37	0,9	7,5
0,5	1,1	7,5
0,75	1,3	7,5
1,0	1,45	7,5
1,5	1,8	7,5
2,5	2,2	7,5
3	2,55	7,5
4	2,85	7,5

dimensions shown are not binding
and may be changed without notice

enclosures:
size "57.27" page:

*** refer to catalogue page CN.16**

inserts, crimp connections



10.000 matings with HNM enclosures

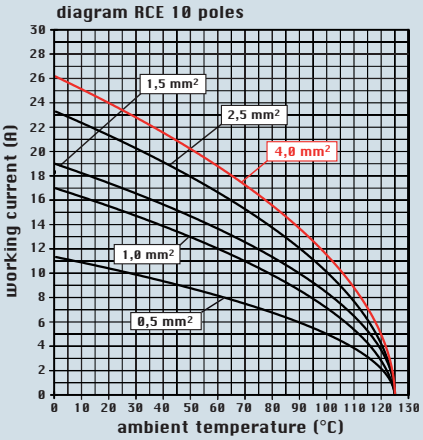
5.000 matings with standard enclosures, single lever

16A crimp contacts gold plated

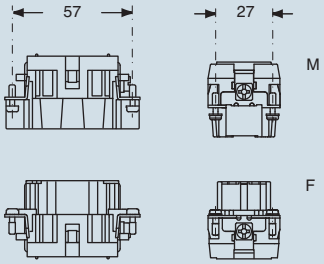
AVAILABLE NOVEMBER 2017

description	part No.	part No.
without contacts (to be ordered separately) female inserts for female contacts male inserts for male contacts	**RCEF 10** **RCEM 10**	
16A female contacts 0,14-0,37 mm² AWG 26-22 one groove 0,5 mm² AWG 20 with no grooves 0,75 mm² AWG 18 one groove (back side) 1 mm² AWG 18 one groove 1,5 mm² AWG 16 two grooves 2,5 mm² AWG 14 three grooves 3 mm² AWG 12 one wide groove 4 mm² AWG 12 with no grooves		**RCF2D 0.3** **RCF2D 0.5** **RCF2D 0.7** **RCF2D 1.0** **RCF2D 1.5** **RCF2D 2.5** **RCF2D 3.0** **RCF2D 4.0** **gold plated**
16A male contacts 0,14-0,37 mm² AWG 26-22 one groove 0,5 mm² AWG 20 with no grooves 0,75 mm² AWG 18 one groove (back side) 1 mm² AWG 18 one groove 1,5 mm² AWG 16 two grooves 2,5 mm² AWG 14 three grooves 3 mm² AWG 12 one wide groove 4 mm² AWG 12 with no grooves		**RCM2D 0.3** **RCM2D 0.5** **RCM2D 0.7** **RCM2D 1.0** **RCM2D 1.5** **RCM2D 2.5** **RCM2D 3.0** **RCM2D 4.0**

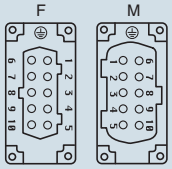
- characteristics according to EN 61984:
  16A 500V 6kV 3
  16A 400/690V 6kV 2
- insulation resistance: ≥ 10 GΩ
- ambient temperature limits: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 10.000 cycles
- contact resistance: ≤ 1 mΩ
- for contact crimping instructions, please see the crimping tool section (16A contacts, RCF2D and RCM2D series) on pages 531-539 and 544-549 catalogue CN.16
- for maximum current load see the following connector inserts derating diagrams



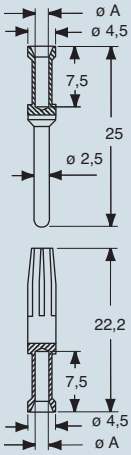
dimensions in mm



contacts side (front view)



dimensions in mm



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

dimensions shown are not binding
and may be changed without notice

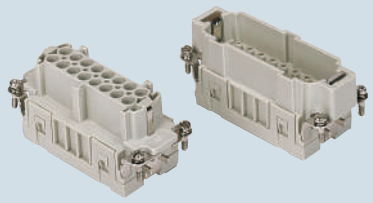
RCE 16 poles + ⏚ 16A - 500V HNM (High Number of Matings)

enclosures:
size "77.27" page:

*** refer to catalogue page CN.16**

AVAILABLE NOVEMBER 2017

inserts, crimp connections



10.000 matings with HNM enclosures

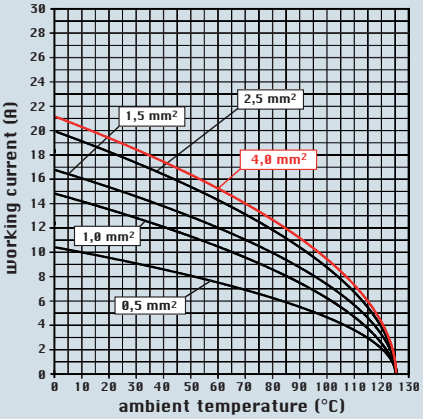
5.000 matings with standard enclosures, single lever

16A crimp contacts gold plated

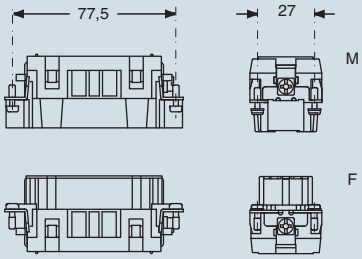
description	part No.	part No.
without contacts (to be ordered separately) female inserts for female contacts male inserts for male contacts	**RCEF 16** **RCEM 16**	
16A female contacts 0,14-0,37 mm² AWG 26-22 one groove 0,5 mm² AWG 20 with no grooves 0,75 mm² AWG 18 one groove (back side) 1 mm² AWG 18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

- characteristics according to EN 61984:
  16A 500V 6kV 3
  16A 400/690V 6kV 2
- insulation resistance: ≥ 10 GΩ
- ambient temperature limits: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 10.000 cycles
- contact resistance: ≤ 1 mΩ
- for contact crimping instructions, please see the crimping tool section (16A contacts, RCF2D and RCM2D series) on pages 531-539 and 544-549 catalogue CN.16
- for maximum current load see the following connector inserts derating diagrams

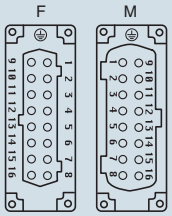
diagram RCE 16 poles



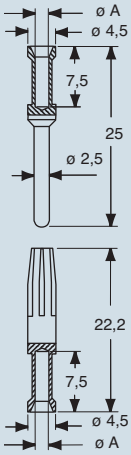
dimensions in mm



contacts side (front view)



dimensions in mm



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

dimensions shown are not binding
and may be changed without notice

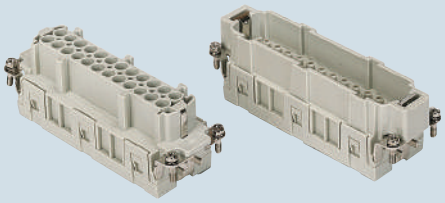
RCE 24 poles + ⏚ 16A - 500V HNM (High Number of Matings)

enclosures:
size "104.27" page:

*** refer to catalogue page CN.16**

AVAILABLE NOVEMBER 2017

inserts, crimp connections



10.000 matings with HNM enclosures

5.000 matings with standard enclosures, single lever

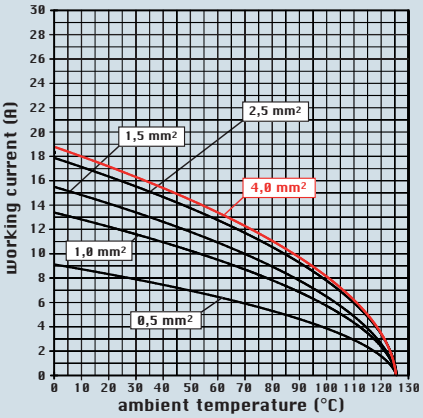
16A crimp contacts gold plated

description	part No.	part No.
without contacts (to be ordered separately) female inserts for female contacts male inserts for male contacts	**RCEF 24** **RCEM 24**	
16A female contacts 0,14-0,37 mm² AWG 26-22 one groove 0,5 mm² AWG 20 with no grooves 0,75 mm² AWG 18 one groove (back side) 1 mm² AWG 18 one groove 1,5 mm² AWG 16 two grooves 2,5 mm² AWG 14 three grooves 3 mm² AWG 12 one wide groove 4 mm² AWG 12 with no grooves		**RCF2D 0.3** **RCF2D 0.5** **RCF2D 0.7** **RCF2D 1.0** **RCF2D 1.5** **RCF2D 2.5** **RCF2D 3.0** **RCF2D 4.0**
16A male contacts 0,14-0,37 mm² AWG 26-22 one groove 0,5 mm² AWG 20 with no grooves 0,75 mm² AWG 18 one groove (back side) 1 mm² AWG 18 one groove 1,5 mm² AWG 16 two grooves 2,5 mm² AWG 14 three grooves 3 mm² AWG 12 one wide groove 4 mm² AWG 12 with no grooves		**RCM2D 0.3** **RCM2D 0.5** **RCM2D 0.7** **RCM2D 1.0** **RCM2D 1.5** **RCM2D 2.5** **RCM2D 3.0** **RCM2D 4.0**

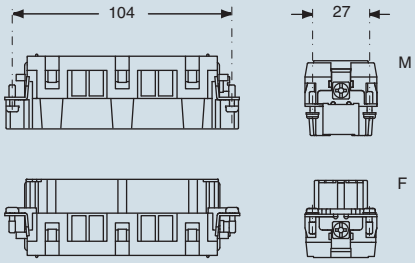
gold plated

- characteristics according to EN 61984:
  16A 500V 6kV 3
  16A 400/690V 6kV 2
- insulation resistance: ≥ 10 GΩ
- ambient temperature limits: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 10.000 cycles
- contact resistance: ≤ 1 mΩ
- for contact crimping instructions, please see the crimping tool section (16A contacts, RCF2D and RCM2D series) on pages 531-539 and 544-549 catalogue CN.16
- for maximum current load see the following connector inserts derating diagrams

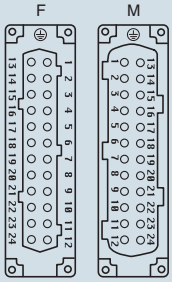
diagram RCE 24 poles



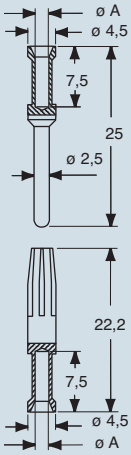
dimensions in mm



contacts side (front view)



dimensions in mm



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

dimensions shown are not binding and may be changed without notice

RQEE 40 poles + ⏚ 16A - 500V HNM (High Number of Matings)

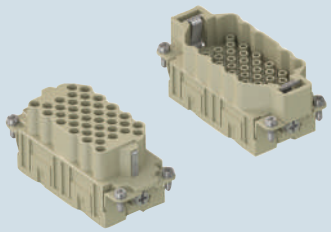
enclosures:
size "77.27" page:

HNM ..... 94 - 95
C-TYPE IP65/IP66, single lever ... 250 - 256 *
V-TYPE IP65/IP66, single lever 282/292 - 295 *

*** refer to catalogue page CN.16**

AVAILABLE NOVEMBER 2017

inserts, crimp connections



10.000 matings with HNM enclosures

5.000 matings with standard enclosures, single lever

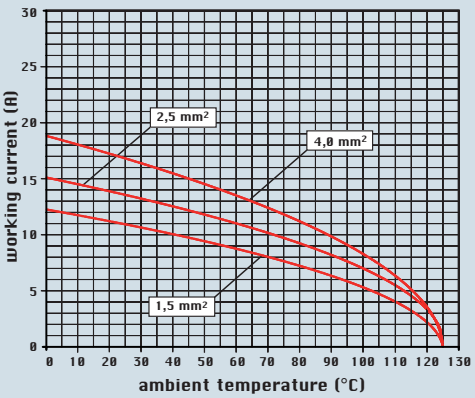
16A crimp contacts gold plated

description	part No.	part No.
without contacts (to be ordered separately) female inserts for female contacts male inserts for male contacts	**RQEEF 40** **RQEEM 40**	
16A female contacts 0,14-0,37 mm² AWG 26-22 one groove 0,5 mm² AWG 20 with no grooves 0,75 mm² AWG 18 one groove (back side) 1 mm² AWG 18 one groove 1,5 mm² AWG 16 two grooves 2,5 mm² AWG 14 three grooves 3 mm² AWG 12 one wide groove 4 mm² AWG 12 with no grooves		**RCF2D 0.3** **RCF2D 0.5** **RCF2D 0.7** **RCF2D 1.0** **RCF2D 1.5** **RCF2D 2.5** **RCF2D 3.0** **RCF2D 4.0**
16A male contacts 0,14-0,37 mm² AWG 26-22 one groove 0,5 mm² AWG 20 with no grooves 0,75 mm² AWG 18 one groove (back side) 1 mm² AWG 18 one groove 1,5 mm² AWG 16 two grooves 2,5 mm² AWG 14 three grooves 3 mm² AWG 12 one wide groove 4 mm² AWG 12 with no grooves		**RCM2D 0.3** **RCM2D 0.5** **RCM2D 0.7** **RCM2D 1.0** **RCM2D 1.5** **RCM2D 2.5** **RCM2D 3.0** **RCM2D 4.0**

gold plated

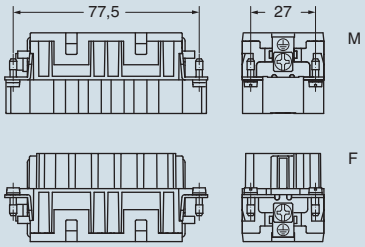
- characteristics according to EN 61984:
  16A 500V 6kV 3
- insulation resistance: ≥ 10 GΩ
- ambient temperature limits: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 10.000 cycles
- contact resistance: ≤ 1 mΩ
- for contact crimping instructions, please see the crimping tool section (16A contacts, RCF2D and RCM2D series) on pages 531-539 and 544-549 catalogue CN.16
- for maximum current load see the following connector inserts derating diagrams

diagram RQEE 40 poles

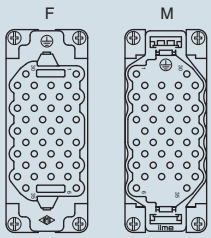


dimensions shown are not binding and may be changed without notice

dimensions in mm

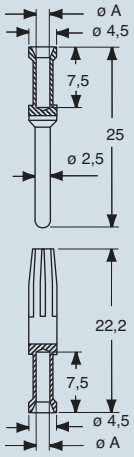


contacts side (front view)



coding pins **CR CPQ**, see page 491 catalogue CN.16

dimensions in mm



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

RQEE 64 poles + ⏚ 16A - 500V HNM (High Number of Matings)

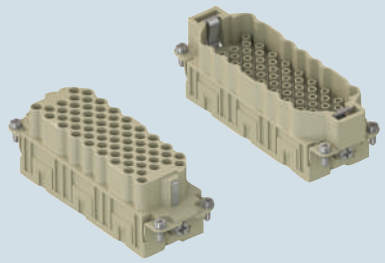
enclosures:
size "104.27" page:

HNM ..... 96 - 97
C-TYPE IP65/IP66, single lever ... 258 - 266 *
V-TYPE IP65/IP66, single lever 283/296 - 299 *

*** refer to catalogue page CN.16**

AVAILABLE NOVEMBER 2017

inserts, crimp connections



10.000 matings with HNM enclosures

5.000 matings with standard enclosures, single lever

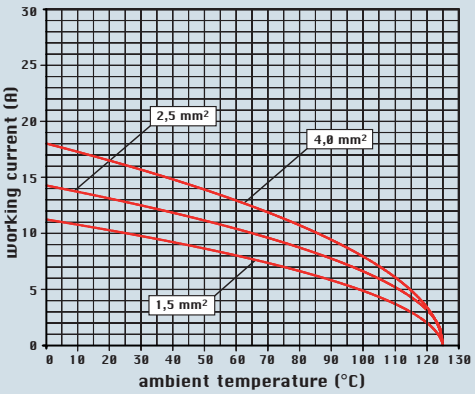
16A crimp contacts gold plated

description	part No.	part No.
without contacts (to be ordered separately) female inserts for female contacts male inserts for male contacts	**RQEEF 64** **RQEEM 64**	
16A female contacts 0,14-0,37 mm² AWG 26-22 one groove 0,5 mm² AWG 20 with no grooves 0,75 mm² AWG 18 one groove (back side) 1 mm² AWG 18 one groove 1,5 mm² AWG 16 two grooves 2,5 mm² AWG 14 three grooves 3 mm² AWG 12 one wide groove 4 mm² AWG 12 with no grooves		**RCF2D 0.3** **RCF2D 0.5** **RCF2D 0.7** **RCF2D 1.0** **RCF2D 1.5** **RCF2D 2.5** **RCF2D 3.0** **RCF2D 4.0**
16A male contacts 0,14-0,37 mm² AWG 26-22 one groove 0,5 mm² AWG 20 with no grooves 0,75 mm² AWG 18 one groove (back side) 1 mm² AWG 18 one groove 1,5 mm² AWG 16 two grooves 2,5 mm² AWG 14 three grooves 3 mm² AWG 12 one wide groove 4 mm² AWG 12 with no grooves		**RCM2D 0.3** **RCM2D 0.5** **RCM2D 0.7** **RCM2D 1.0** **RCM2D 1.5** **RCM2D 2.5** **RCM2D 3.0** **RCM2D 4.0**

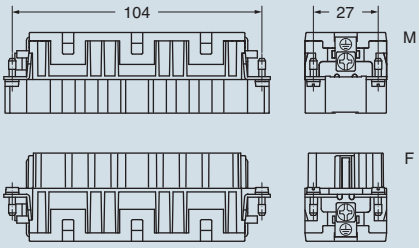
gold plated

- characteristics according to EN 61984:
  16A 500V 6kV 3
- insulation resistance: ≥ 10 GΩ
- ambient temperature limits: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 10.000 cycles
- contact resistance: ≤ 1 mΩ
- for contact crimping instructions, please see the crimping tool section (16A contacts, RCF2D and RCM2D series) on pages 531-539 and 544-549 catalogue CN.16
- for maximum current load see the following connector inserts derating diagrams

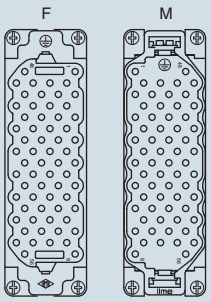
diagram RQEE 64 poles



dimensions in mm

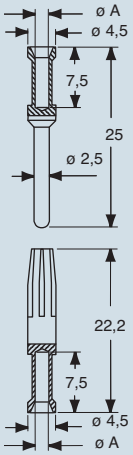


contacts side (front view)



coding pins **CR CPQ**, see page 491 catalogue CN.16

dimensions in mm



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

dimensions shown are not binding and may be changed without notice

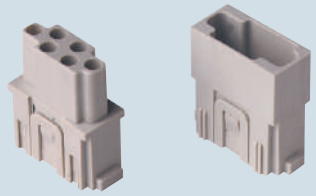
The modular inserts must be installed in suitable frames which in turn are installed in traditional housings or COB panel support.

frames for modular units ..... page: 87

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

frames for modular units ..... page: 214 - 215

modular units, crimp connections



10.000 matings with HNM frames and HNM enclosures

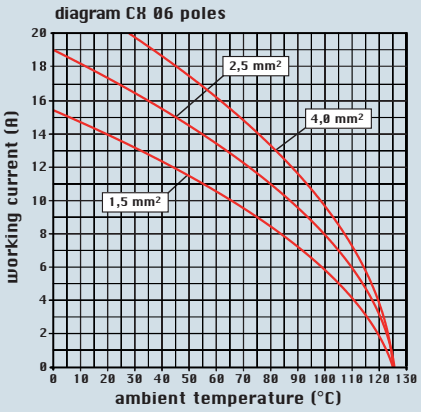
5.000 matings with HNM frames and standard enclosures, single lever

16A crimp contacts gold plated

AVAILABLE NOVEMBER 2017

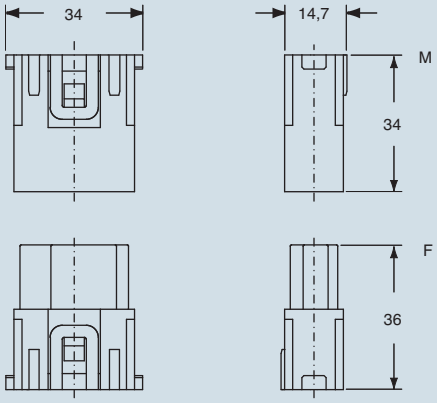
description	part No.	part No.
without contacts (to be ordered separately) - female inserts for female contacts - male inserts for male contacts	**CX 06 CF** **CX 06 CM**	
16A female contacts 0,14-0,37 mm² AWG 26-22 one groove 0,5 mm² AWG 20 with no grooves 0,75 mm² AWG 18 one groove (back side) 1 mm² AWG 18 one groove 1,5 mm² AWG 16 two grooves 2,5 mm² AWG 14 three grooves 3 mm² AWG 12 one wide groove 4 mm² AWG 12 with no grooves		**RCF2D 0.3** **RCF2D 0.5** **RCF2D 0.7** **RCF2D 1.0** **RCF2D 1.5** **RCF2D 2.5** **RCF2D 3.0** **RCF2D 4.0** **gold plated**
16A male contacts 0,14-0,37 mm² AWG 26-22 one groove 0,5 mm² AWG 20 with no grooves 0,75 mm² AWG 18 one groove (back side) 1 mm² AWG 18 one groove 1,5 mm² AWG 16 two grooves 2,5 mm² AWG 14 three grooves 3 mm² AWG 12 one wide groove 4 mm² AWG 12 with no grooves		**RCM2D 0.3** **RCM2D 0.5** **RCM2D 0.7** **RCM2D 1.0** **RCM2D 1.5** **RCM2D 2.5** **RCM2D 3.0** **RCM2D 4.0**

- characteristics according to EN 61984:
  16A 500V 6kV 3
  16A 400/690V 6kV 2
- UL, CSA, CCC *, GL, EAC certified
  * CQC certification being applied for (inserts only)
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limits: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 10.000 cycles
- contact resistance: ≤ 1 mΩ
- for contact crimping instructions, please see the crimping tool section (16A contacts, RCF2D and RCM2D series) on pages 531-539 and 544-549 catalogue CN.16
- for maximum current load see the following connector inserts derating diagrams, for more information see page 565 catalogue CN.16



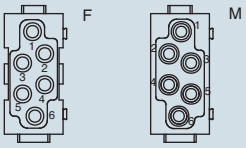
dimensions shown are not binding and may be changed without notice

dimensions in mm



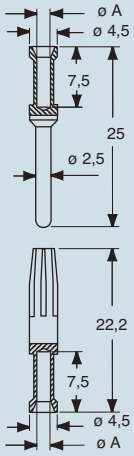
contacts side (front view)

side with reference arrow ▲



- 1 frame slot

dimensions in mm



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

The modular inserts must be installed in suitable frames which in turn are installed in traditional housings or COB panel support.

frames for modular units ..... page: 87

modular units, crimp connections

10.000 matings with HNM frames and HNM enclosures

5.000 matings with HNM frames and standard enclosures, single lever

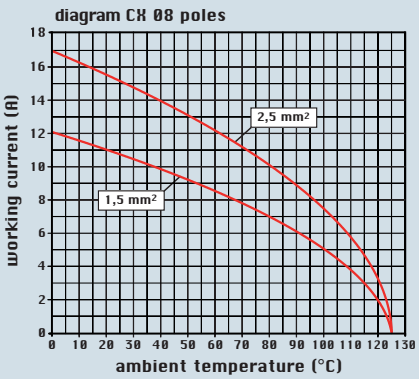
16A crimp contacts gold plated

AVAILABLE NOVEMBER 2017

description	part No.	part No.
without contacts (to be ordered separately)		
- female inserts for female contacts	**CX 08 CF**	
- male inserts for male contacts	**CX 08 CM**	
16A 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**
16A 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**

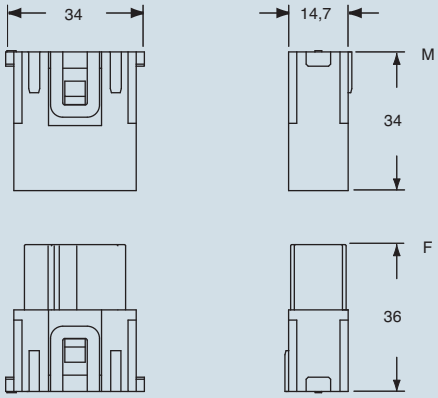
gold plated

- characteristics according to EN 61984:
  16A 500V 6kV 3
  16A 400/690V 6kV 2
- UL, CSA, CCC *, GL, EAC certified
  * CQC certification being applied for (inserts only)
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limits: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 10.000 cycles
- contact resistance: ≤ 1 mΩ
- for contact crimping instructions, please see the crimping tool section (16A contacts, RCF2D and RCM2D series) on pages 531-539 and 544-549 catalogue CN.16
- for maximum current load see the following connector inserts derating diagrams, for more information see page 565 catalogue CN.16



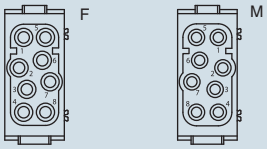
dimensions shown are not binding and may be changed without notice

dimensions in mm



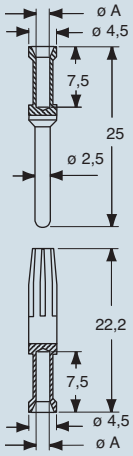
contacts side (front view)

side with reference arrow ▲



- 1 frame slot

dimensions in mm



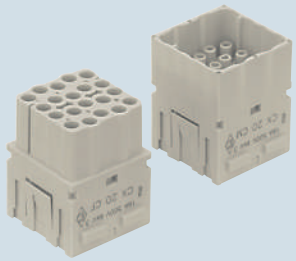
RCF2D and RCM2D contacts

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

The modular inserts must be installed in suitable frames which in turn are installed in traditional housings or COB panel support.

frames for modular units ..... page: 87

modular units, crimp connections



10.000 matings with HNM frames and HNM enclosures

5.000 matings with HNM frames and standard enclosures, single lever

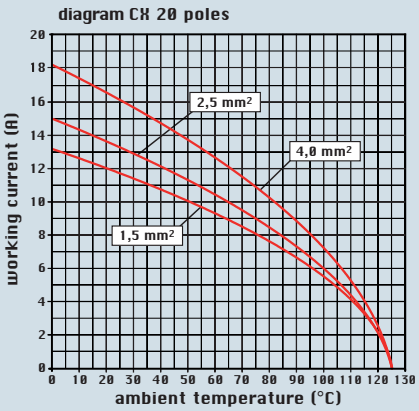
16A crimp contacts gold plated

AVAILABLE NOVEMBER 2017

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

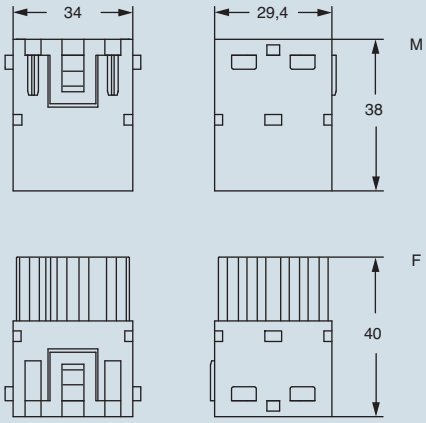
* on request, version with 3 fastened CX 20 CF/CM inserts with poles numbered from 1 – 60 references: **CX 60 CF**, **CX 60 CM**

- characteristics according to EN 61984:
  16A 500V 6kV 3
  16A 830V 8kV 2
- cUL (UL for USA and Canada), CSA, EAC certified (inserts only)
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limits: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 10.000 cycles
- contact resistance: ≤ 1 mΩ
- for contact crimping instructions, please see the crimping tool section (16A contacts, RCF2D and RCM2D series) on pages 531-539 and 544-549 catalogue CN.16
- for maximum current load see the following connector inserts derating diagrams, for more information see page 565 catalogue CN.16



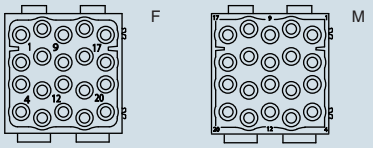
dimensions shown are not binding and may be changed without notice

dimensions in mm



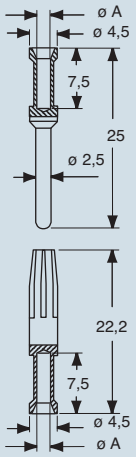
contacts side (front view)

side with reference arrow ▲



- 2 frame slots

dimensions in mm



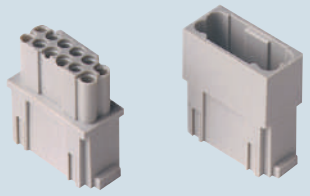
RCF2D and RCM2D contacts

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

The modular inserts must be installed in suitable frames which in turn are installed in traditional housings or COB panel support.

frames for modular units ..... page: 87

modular units, crimp connections



10.000 matings with HNM frames and HNM enclosures

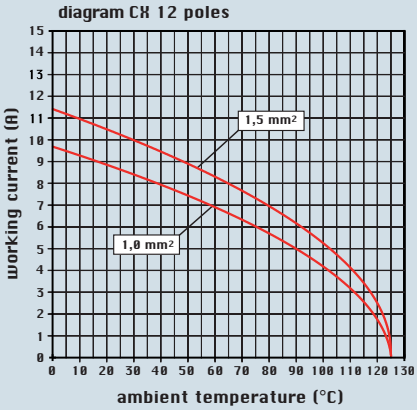
5.000 matings with HNM frames and standard enclosures, single lever

10A crimp contacts gold plated

AVAILABLE NOVEMBER 2017

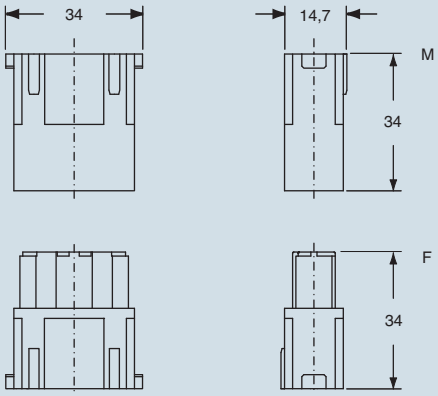
description	part No.	part No.
without contacts (to be ordered separately) - female inserts for female contacts - male inserts for male contacts	**CX 12 DF** **CX 12 DM**	
10A female contacts 0,14-0,37 mm² AWG 26-22 identification No. 1 0,5 mm² AWG 20 identification No. 2 0,75 mm² AWG 18 identification No. ② 1 mm² AWG 18 identification No. 3 1,5 mm² AWG 16 identification No. 4 2,5 mm² AWG 14 identification No. 5		**RDF2D 0.3** **RDF2D 0.5** **RDF2D 0.7** **RDF2D 1.0** **RDF2D 1.5** **RDF2D 2.5** **gold plated**
10A male contacts 0,14-0,37 mm² AWG 26-22 identification No. 1 0,5 mm² AWG 20 identification No. 2 0,75 mm² AWG 18 identification No. ② 1 mm² AWG 18 identification No. 3 1,5 mm² AWG 16 identification No. 4 2,5 mm² AWG 14 identification No. 5		**RDM2D 0.3** **RDM2D 0.5** **RDM2D 0.7** **RDM2D 1.0** **RDM2D 1.5** **RDM2D 2.5**

- characteristics according to EN 61984:
  10A 160V 2,5kV 3
  10A 250V 4kV 2
- UL, CSA, CCC *, GL, EAC certified
  * CQC certification being applied for (inserts only)
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limits: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 10.000 cycles
- contact resistance: ≤ 3 mΩ
- PCBs interface, see article CIF 2.4
- for contact crimping instructions, please see the crimping tool section (10A contacts, RDF2D and RDM2D series) on pages 531-539 and 544-54 catalogue CN.16
- for maximum current load see the following connector inserts derating diagrams, for more information see page 566 catalogue CN.16



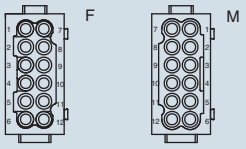
dimensions shown are not binding and may be changed without notice

dimensions in mm



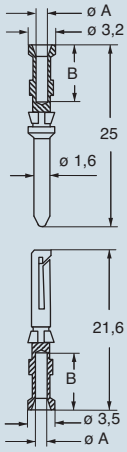
contacts side (front view)

side with reference arrow ▲



- 1 frame slot

dimensions in mm



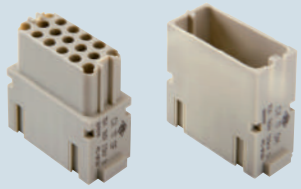
RDF2D and RDM2D contacts

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

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

frames for modular units ..... page: 87

modular units, crimp connections



10.000 matings with HNM frames and HNM enclosures

5.000 matings with HNM frames and standard enclosures, single lever

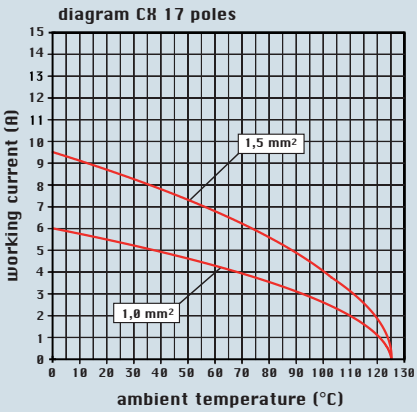
10A crimp contacts gold plated

AVAILABLE NOVEMBER 2017

description	part No.	part No.
without contacts (to be ordered separately) - female inserts for female contacts - male inserts for male contacts	**CX 17 DF** **CX 17 DM**	
10A female contacts 0,14-0,37 mm² AWG 26-22 identification No. 1 0,5 mm² AWG 20 identification No. 2 0,75 mm² AWG 18 identification No. ② 1 mm² AWG 18 identification No. 3 1,5 mm² AWG 16 identification No. 4 2,5 mm² AWG 14 identification No. 5		**RDF2D 0.3** **RDF2D 0.5** **RDF2D 0.7** **RDF2D 1.0** **RDF2D 1.5** **RDF2D 2.5**
10A male contacts 0,14-0,37 mm² AWG 26-22 identification No. 1 0,5 mm² AWG 20 identification No. 2 0,75 mm² AWG 18 identification No. ② 1 mm² AWG 18 identification No. 3 1,5 mm² AWG 16 identification No. 4 2,5 mm² AWG 14 identification No. 5		**RDM2D 0.3** **RDM2D 0.5** **RDM2D 0.7** **RDM2D 1.0** **RDM2D 1.5** **RDM2D 2.5**

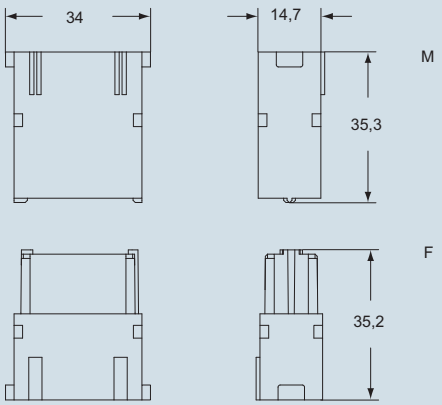
gold plated

- characteristics according to EN 61984:
  10A 160V 2,5kV 3
  10A 250V 4kV 2
- cUL (UL for USA and Canada), CCC *, EAC certified
  * CQC certification being applied for (inserts only)
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limits: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 10.000 cycles
- contact resistance: ≤ 3 mΩ
- for contact crimping instructions, please see the crimping tool section (10A contacts, RDF2D and RDM2D series) on pages 531-539 and 544-549 catalogue CN.16
- for maximum current load see the following connector inserts derating diagrams, for more information see page 566 catalogue CN.16



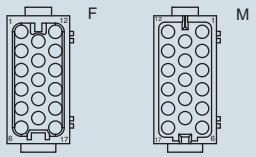
dimensions shown are not binding and may be changed without notice

dimensions in mm



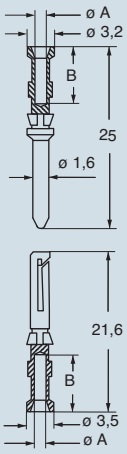
contacts side (front view)

side with reference arrow ▲



- 1 frame slot

dimensions in mm

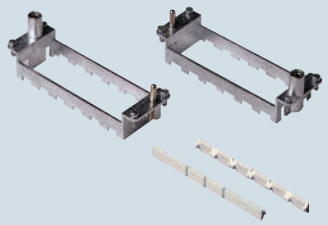


RDF2D and RDM2D contacts

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

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

frames for modular units, with gold plated PE contacts, lock-in tabs



10.000 matings with HNM frames and HNM enclosures

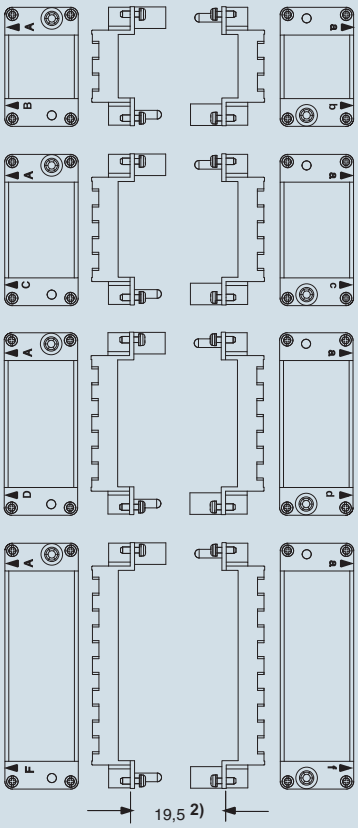
5.000 matings with HNM frames and standard enclosures, single lever

AVAILABLE NOVEMBER 2017

description	part No.	part No.	
frames for modular units (module lock-in tabs included)	**type for hoods**	**type for housings**	for housings size
- for 2 modular units	**RX 02 TM**	**RX 02 TF**	44.27
- for 3 modular units	**RX 03 TM**	**RX 03 TF**	57.27
- for 4 modular units	**RX 04 TM**	**RX 04 TF**	77.27 and 77.62
- for 6 modular units	**RX 06 TM**	**RX 06 TF**	104.27 and 104.62
lock-in tabs for modular units (6 units) dividable	**CX CFM**		

polarisation of frames with relative identification letters and couplings

frame for hoods 1) **frames for housings** 1)

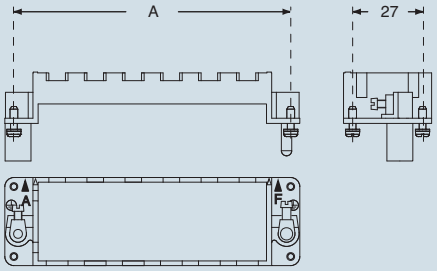


1) the frames can be used either in hoods or housings, for a correct coupling please use both frame types (one with upper-case letters and the other with lower-case letters)

2) distance for electric and fibre optic contacts: max 21 mm
distance for pneumatic contacts: max 20,5 mm

dimensions shown are not binding and may be changed without notice

dimensions in mm



part No.	A (mm)	for housings size
RX 02 TM / TF	44	44,27
RX 03 TM / TF	57	57,27
RX 04 TM / TF	77,5	77,27 and 77,62
RX 06 TM / TF	104	104,27 and 104,62

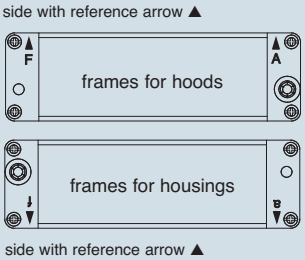
- large earth terminal for cables from 4-6 mm², AWG 12-10
- small earth terminal for cables from 1-2,5 mm², AWG 18-14

- die-cast zinc alloy frames
- with pre-leading PE contacts (first-make last-break)
- possibility of mounting female and male modular units on the same frame
- frames supplied with lock-in tab to attach units
- polarisation on frames
- coding pins CR..CX

Warning
the module support frames are marked:
- with upper-case letters **A-B**, **A-C**, **A-D** and **A-F** (for use in hoods)
- with lower-case letters **a-b**, **a-c**, **a-d** and **a-f** (for use in housings)

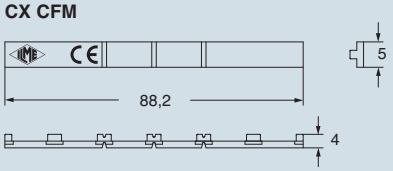
Positioning the modules in the frames according to the respective letters is ensuring the specular assembly of modules, for which the hood will be coupled correctly to the housing.

position of modules (contact side view)



When two or more identical connectors of the MIXO series are used, coding pins are used prevent incorrect coupling (CR...CX series).

CX CFM



inserts: page:

RDD	24	poles + ⏚	74
RCE	6	poles + ⏚	78
MIXO HNM	2	modules	89

insert centre distance:
44 x 27 mm

AVAILABLE NOVEMBER 2017

bulkhead mounting housings with single lever in stainless steel

lever in stainless steel

10.000 matings with HNM inserts

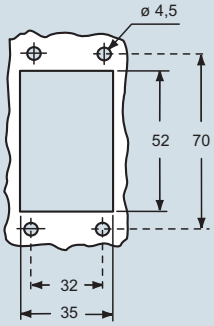
surface mounting housings with single lever in stainless steel

lever in stainless steel

10.000 matings with HNM inserts

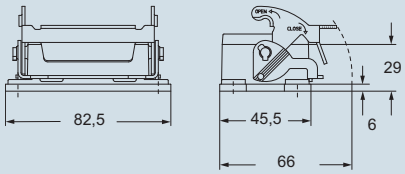
description	part No.	part No.	entry M
with lever, size “44.27”	**RVI 06 L**		
with lever, size “44.27” with lever, size “44.27” with lever, high construction, size “44.27” with lever, high construction, size “44.27”		**RVP 06 L20** **RVP 06 L220** **RVAP 06 L32** **RVAP 06 L232**	20 20 x 2 32 32 x 2

panel cut-out for bulkhead mounting housings in mm



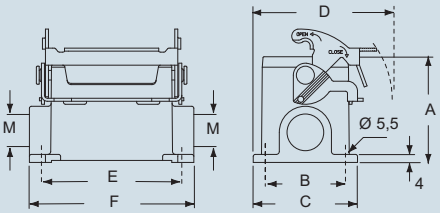
dimensions in mm

RVI L



dimensions in mm

RVP L - RVAP L



type	A	B	C	D	E	F
RVP 06 L	53	40	52	70	70	82
RVAP 06 L	73	45	57	72,5	70	82

IP degrees are according to the type of lever and:

EN 60529 IP65 IEC 60529 — cable gland without O-Ring gasket

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

dimensions shown are not binding and may be changed without notice

inserts: page:

RDD	24	poles + ⏚	74
RCE	6	poles + ⏚	78
MIXO HNM	2	modules	89

insert centre distance:
44 x 27 mm

AVAILABLE NOVEMBER 2017

hoods with 2 pegs

10.000 matings with HNM inserts

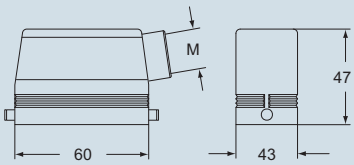
description	part No.	entry M
with pegs, side entry	**RHO 06 L25**	25
with pegs, side entry, high construction, without adaptor *	**RFO 06 L32**	32
with pegs, top entry	**RHV 06 L25** [1]	25
with pegs, top entry, high construction, without adaptor *	**RFV 06 L32**	32

* enclosure without adaptor, threaded on the body, to be used only with a complete cable gland.

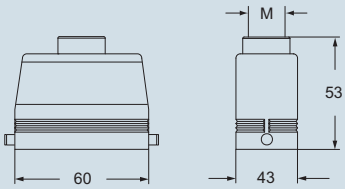
[1] cannot be used with MIXO series

dimensions in mm

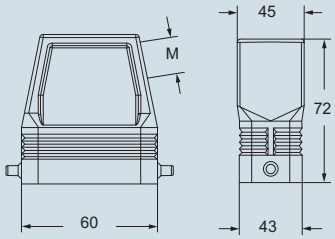
RHO L



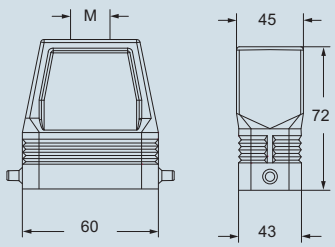
RHV L



RFO L



RFV L



IP degrees are according to the type of lever and:

EN 60529 IP65 IEC 60529 — cable gland without O-Ring gasket

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

dimensions shown are not binding and may be changed without notice

inserts: page:

RDD	42	poles + ⏚	75
RCE	10	poles + ⏚	79
MIXO HNM	3	modules	89

insert centre distance:
57 x 27 mm

AVAILABLE NOVEMBER 2017

bulkhead mounting housings with single lever in stainless steel

lever in stainless steel

10.000 matings with HNM inserts

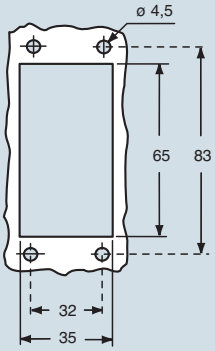
surface mounting housings with single lever in stainless steel

lever in stainless steel

10.000 matings with HNM inserts

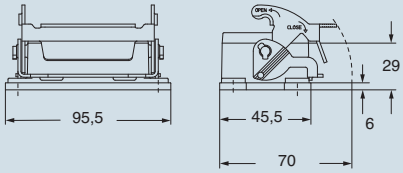
description	part No.	part No.	entry M
with lever, size “57.27”	**RVI 10 L**		
with lever, size “57.27” with lever, size “57.27” with lever, high construction, size “57.27” with lever, high construction, size “57.27”		**RVP 10 L20** **RVP 10 L220** **RVAP 10 L32** **RVAP 10 L232**	20 20 x 2 32 32 x 2

panel cut-out for bulkhead mounting housings in mm



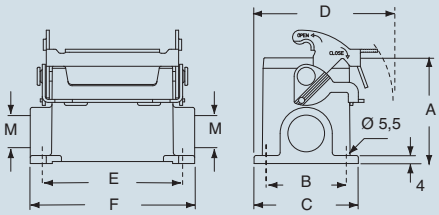
dimensions in mm

RVI L



dimensions in mm

RVP L - RVAP L



type	A	B	C	D	E	F
RVP L	57	40	52	73	82	93,5
RVAP L	73	45	57	75,5	82	93,5

IP degrees are according to the type of lever and:

EN 60529 IP65 IEC 60529 — cable gland without O-Ring gasket

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

dimensions shown are not binding and may be changed without notice

inserts: page:

RDD ..... 42 poles + ⏚ 75
RCE ..... 10 poles + ⏚ 79
MIXO HNM ..... 3 modules 89

insert centre distance:
57 x 27 mm

hoods with 2 pegs

10.000 matings with HNM inserts

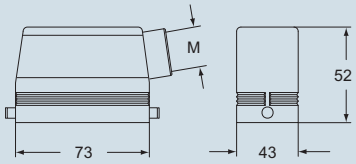
AVAILABLE NOVEMBER 2017

description	part No.	entry M
with pegs, side entry	**RHO 10 L25**	25
with pegs, side entry, high construction, without adaptor *	**RFO 10 L32**	32
with pegs, top entry	**RHV 10 L25**	25
with pegs, top entry, high construction, without adaptor *	**RFV 10 L32**	32

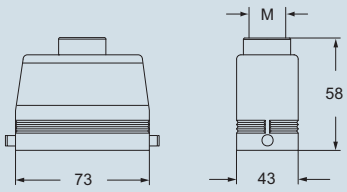
* enclosure without adaptor, threaded on the body, to be used only with a complete cable gland.

dimensions in mm

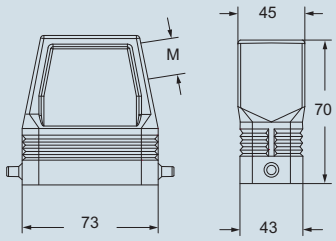
RHO L



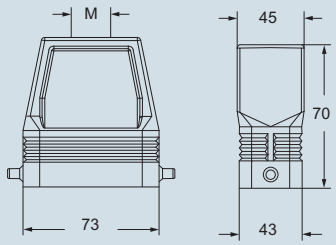
RHV L



RFO L



RFV L



IP degrees are according to the type of lever and:

EN 60529 IP65 IEC 60529 — cable gland without O-Ring gasket

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

dimensions shown are not binding and may be changed without notice

inserts: page:

RD	40	poles + ⏚	72
RDD	72	poles + ⏚	76
RCE	16	poles + ⏚	80
RQEE	40	poles + ⏚	82
MIXO HNM	4	modules	89

insert centre distance:
77,5 x 27 mm

AVAILABLE NOVEMBER 2017

bulkhead mounting housings with single lever in stainless steel

lever in stainless steel

10.000 matings with HNM inserts

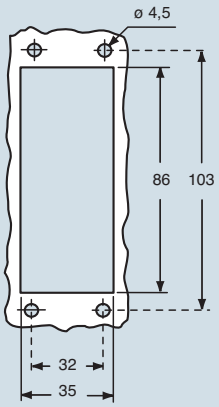
surface mounting housings with single lever in stainless steel

lever in stainless steel

10.000 matings with HNM inserts

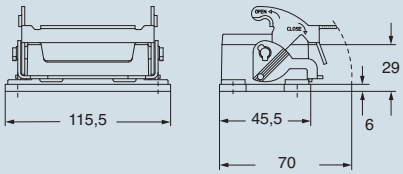
description	part No.	part No.	entry M
with lever, size “77.27”	**RVI 16 L**		
with lever, size ”77.27“ with lever, size ”77.27“ with lever, high construction, size ”77.27“ with lever, high construction, size ”77.27“		**RVP 16 L25** **RVP 16 L225** **RVAP 16 L32** **RVAP 16 L232**	25 25 x 2 32 32 x 2

panel cut-out for bulkhead mounting housings in mm



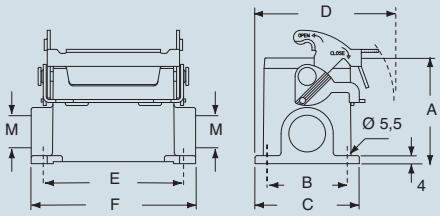
dimensions in mm

RVI L



dimensions in mm

RVP L - RVAP L



type	A	B	C	D	E	F
RVP L	63	45	57	75.5	105	117
RVAP L	77	45	57	75.5	105	117

IP degrees are according to the type of lever and:

EN 60529 IP65 IEC 60529 — cable gland without O-Ring gasket

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

dimensions shown are not binding and may be changed without notice

inserts: page:

RD	40	poles + ⏚	72
RDD	72	poles + ⏚	76
RCE	16	poles + ⏚	80
RQEE	40	poles + ⏚	82
MIXO HNM	4	modules	89

insert centre distance:
77,5 x 27 mm

AVAILABLE NOVEMBER 2017

hoods with 2 pegs

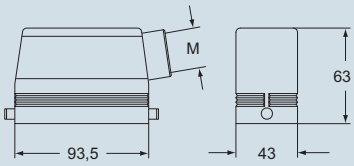
10.000 matings with HNM inserts

description	part No.	entry M
with pegs, side entry	**RHO 16 L32**	32
with pegs, side entry, high construction, without adaptor *	**RFO 16 L32**	32
with pegs, top entry	**RHV 16 L32**	32
with pegs, top entry, high construction, without adaptor *	**RFV 16 L32**	32

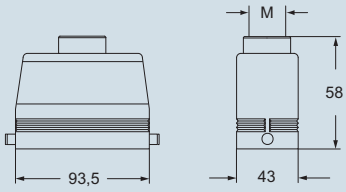
* enclosure without adaptor, threaded on the body, to be used only with a complete cable gland.

dimensions in mm

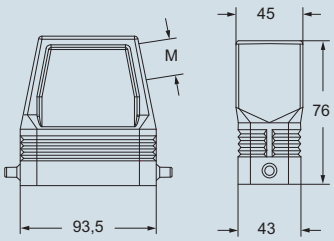
RHO L



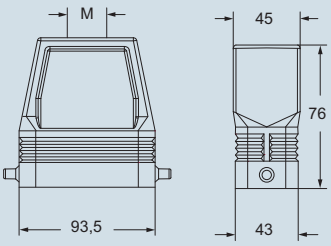
RHV L



RFO L



RFV L



IP degrees are according to the type of lever and:

EN 60529 IP65 IEC 60529 — cable gland without O-Ring gasket

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

dimensions shown are not binding and may be changed without notice

inserts: page:

RD	64	poles + ⏚	73
RDD	108	poles + ⏚	77
RCE	24	poles + ⏚	81
RQEE	64	poles + ⏚	83
MIXO HNM	6	modules	89

insert centre distance:
104 x 27 mm

AVAILABLE NOVEMBER 2017

bulkhead mounting housings with single lever in stainless steel

lever in stainless steel

10.000 matings with HNM inserts

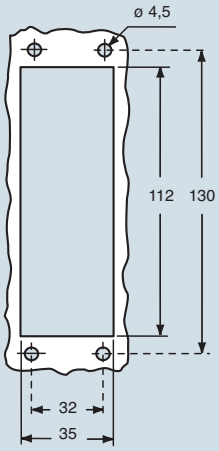
surface mounting housings with single lever in stainless steel

lever in stainless steel

10.000 matings with HNM inserts

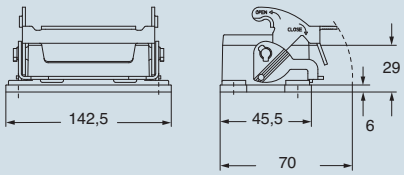
description	part No.	part No.	entry M
with lever, size ”104.27”	**RVI 24 L**		
with lever, size ”104.27“ with lever, size ”104.27“ with lever, high construction, size ”104.27“ with lever, high construction, size ”104.27“		**RVP 24 L25** **RVP 24 L225** **RVAP 24 L32** **RVAP 24 L232**	25 25 x 2 32 32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

panel cut-out for bulkhead mounting housings in mm



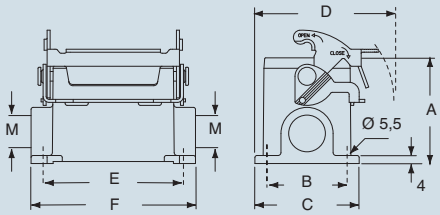
dimensions in mm

RVI L



dimensions in mm

RVP L - RVAP L



type	A	B	C	D	E	F
RVP L	63	45	57	75,5	132	144
RVAP L	80	45	57	75,5	132	144

IP degrees are according to the type of lever and:

EN 60529 IP65 IEC 60529 — cable gland without O-Ring gasket

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

dimensions shown are not binding and may be changed without notice

inserts: page:

RD	64	poles + ⏚	73
RDD	108	poles + ⏚	77
RCE	24	poles + ⏚	81
RQEE	64	poles + ⏚	83
MIXO HNM	6	modules	89

insert centre distance:
104 x 27 mm

AVAILABLE NOVEMBER 2017

hoods with 2 pegs

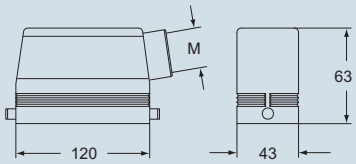
10.000 matings with HNM inserts

description	part No.	entry M
with pegs, side entry	**RHO 24 L32**	32
with pegs, side entry, high construction, without adaptor *	**RFO 24 L40**	40
with pegs, top entry	**RHV 24 L32**	32
with pegs, top entry, high construction, without adaptor *	**RFV 24 L40**	40

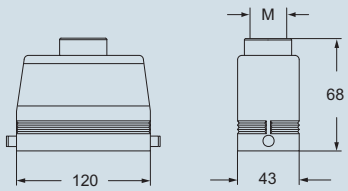
* enclosure without adaptor, threaded on the body, to be used only with a complete cable gland.

dimensions in mm

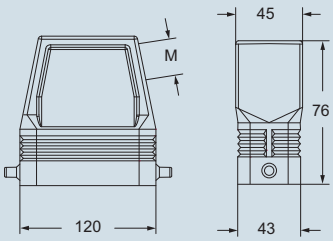
RHO L



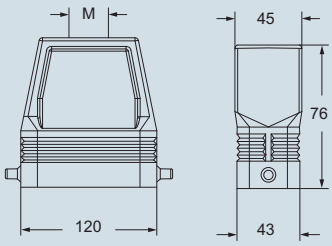
RHV L



RFO L



RFV L



IP degrees are according to the type of lever and:

EN 60529 IP65 IEC 60529 — cable gland without O-Ring gasket

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

dimensions shown are not binding and may be changed without notice

enclosures:

size “44.27” ..... **from page 90**
size “57.27” ..... **from page 92**
size “77.27” ..... **from page 94**
size “104.27” ..... **from page 96**

AVAILABLE NOVEMBER 2017

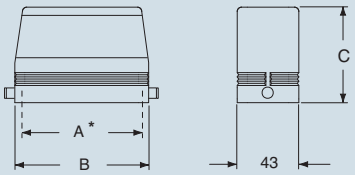
hoods without entry, to be pierced

10.000 matings with HNM inserts

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

dimensions in mm

RAC L



part No.	A *	B	C
RAC 06 L	44	60	72
RAC 10 L	57	73	70
RAC 16 L	77,5	93,5	76
RAC 24 L	104	120	76

* screw fixing centre distance

IP degrees are according to the type of lever and:

EN 60529 IP65 IEC 60529 — cable gland without O-Ring gasket

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

dimensions shown are not binding and may be changed without notice

Technical specifications

- materials
  - floating frame, inserts: stainless steel
  - fixing screws: zinc-plated steel
- mechanical endurance: ≥ 500 cycles
- compensation range:
  - x axis: ± 1,5 mm
  - y axis: ± 1,5 mm

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

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

self-centering floating frame

10.000 matings with HNM inserts

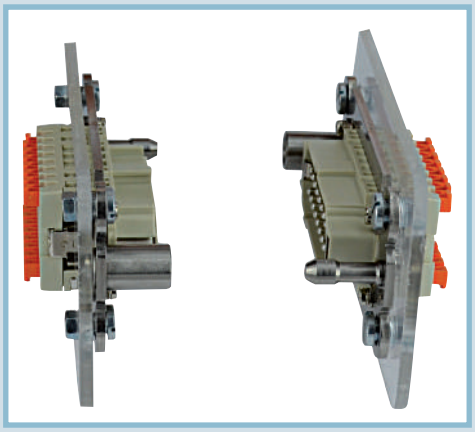
description	part No.
in stainless steel, to be mounted on:	
- inserts size ”44.27” * and MIXO frames for 2 inserts	**CR 06 DF**
- inserts size ”57.27” * and MIXO frames for 3 inserts	**CR 10 DF**
- inserts size ”77.27” * and MIXO frames for 4 inserts	**CR 16 DF**
- inserts size ”104.27” * and MIXO frames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

* Except CT, CTS and CTSE

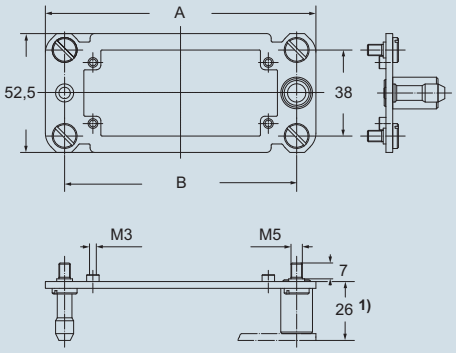
For use with MIXO inserts CX 04 X, please contact ILME SpA.

Characteristics

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

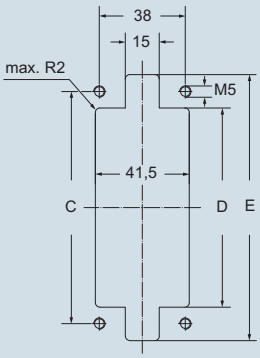


dimensions in mm



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

panel cut-out in mm



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

dimensions shown are not binding
and may be changed without notice

inserts:		page:
CK	3 poles + ⏚	48 *
CK	4 poles + ⏚	48 *
CKS	3 poles + ⏚	49 *
CKS	4 poles + ⏚	49 *
CKSH	3 poles + ⏚	7
CKSH	4 poles + ⏚	7
CD	8 poles	54 *
CQ4	3 poles + ⏚	23 **
CQ	5 poles + ⏚	166 *
CQ	7 poles + ⏚	8
CQ	12 poles + ⏚	102
CQ	21 poles + ⏚	11

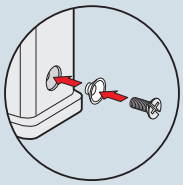
*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert dimensions:
21 x 21 mm

hoods

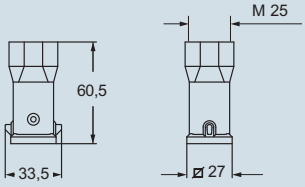
description	part No. (entry - M 25)
with pegs, top entry	**MKAW V25**
gasket and screw kit for IP66/IP67 1) for CK, CQ 05, CKS inserts	**CKR 65**
gasket and screw kit for IP66/IP67 1) for CD 08 inserts	**CKR 65 D**

1) To obtain the IP66/IP67 protection rating, a kit with insert fixing screw and gasket can be purchased separately.
CQ 12 inserts are already supplied with a gasket and screw which ensure IP66/IP67 protection rating.



dimensions in mm

MKAW V25



EN 60529 IP44 IEC 60529 IP66/IP67 with CKR 65 (D) 1)

dimensions shown are not binding
and may be changed without notice

inserts:		page:
CK	3 poles + ⏚	48 *
CK	4 poles + ⏚	48 *
CKS	3 poles + ⏚	49 *
CKS	4 poles + ⏚	49 *
CKSH	3 poles + ⏚	7
CKSH	4 poles + ⏚	7
CD	8 poles	54 *
CQ4	3 poles + ⏚	23 **
CQ	5 poles + ⏚	166 *
CQ	7 poles + ⏚	8
CQ	12 poles + ⏚	102
CQ	21 poles + ⏚	11

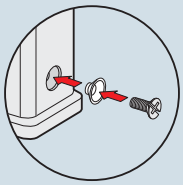
*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

insert dimensions:
21 x 21 mm

hoods

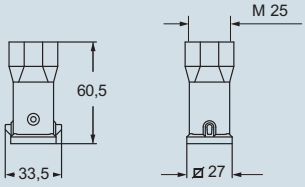
description	part No. (entry - M 25)
with pegs, top entry	**MKAS V25**
gasket and screw kit for IP66/IP67 1) for CK, CQ 05, CKS inserts	**CKR 65**
gasket and screw kit for IP66/IP67 1) for CD 08 inserts	**CKR 65 D**

1) To obtain the IP66/IP67 protection rating, a kit with insert fixing screw and gasket can be purchased separately.
CQ 12 inserts are already supplied with a gasket and screw which ensure IP66/IP67 protection rating.



dimensions in mm

MKAS V25



EN 60529 IP44 IEC 60529 IP66/IP67 with CKR 65 (D) 1)

dimensions shown are not binding
and may be changed without notice

CQ 12 poles + ⏚ 10A - 400V

enclosures:
size "21.21" page:

refer to catalogue page CN.16

ISO 23570-3 standard and DESINA® specification compliant

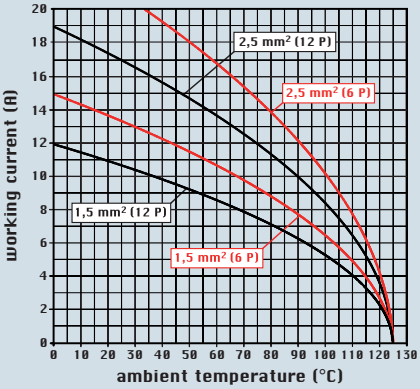
inserts, crimp connections

10A crimp contacts silver and gold plated

description	part No.	part No.	part No.
without contacts (to be ordered separately) female inserts for female contacts male inserts for male contacts	**CQF 12** **CQM 12**		
10A female contacts 0,14-0,37 mm² AWG 26-22 identification No. 1 0,5 mm² AWG 20 identification No. 2 0,75 mm² AWG 18 identification No. ② 1,mm² AWG 18 identification No. 3 1,5 mm² AWG 16 identification No. 4 2,5 mm² AWG 14 identification No. 5		**CDFA 0.3** **CDFA 0.5** **CDFA 0.7** **CDFA 1.0** **CDFA 1.5** **CDFA 2.5** **silver plated**	**CDFD 0.3** **CDFD 0.5** **CDFD 0.7** **CDFD 1.0** **CDFD 1.5** **CDFD 2.5** **gold plated 1)**
10A male contacts 0,14-0,37 mm² AWG 26-22 identification No. 1 0,5 mm² AWG 20 identification No. 2 0,75 mm² AWG 18 identification No. ② 1,mm² AWG 18 identification No. 3 1,5 mm² AWG 16 identification No. 4 2,5 mm² AWG 14 identification No. 5		**CDMA 0.3** **CDMA 0.5** **CDMA 0.7** **CDMA 1.0** **CDMA 1.5** **CDMA 2.5**	**CDMD 0.3** **CDMD 0.5** **CDMD 0.7** **CDMD 1.0** **CDMD 1.5** **CDMD 2.5**

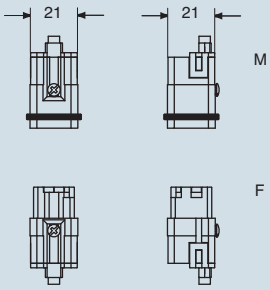
- characteristics according to EN 61984:
  10A 400V 6kV 3
  10A 400/690V 6kV 2
- cUL (UL for USA and Canada), CCC *, DNV-GL, EAC certified - * CQC certification being applied for
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- are made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 3 mΩ
- the CQ 12 inserts are already supplied with a seal and a screw, which ensure IP66/IP67 protection rating
- for contact crimping instructions, please see the crimping tool section (10A contacts, CDF and CDM series) on pages 531-539 and 544-549 catalogue CN.16
- for maximum current load see the following connector inserts derating diagrams, for more information see page 563 catalogue CN.16

diagram CQ 12 poles

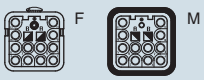


dimensions shown are not binding and may be changed without notice

dimensions in mm



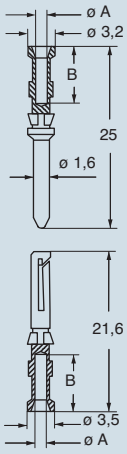
contacts side (front view)



Note:
PE screw connection for unprepared wires only

the **CR Q12** coding pins (to be ordered separately), allow the user to create 16 different combinations, according to the diagram shown on page 491 catalogue CN.16

dimensions in mm



CDF and CDM contacts

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

1) basic or high thickness gold plating page 480 catalogue CN.16

termination connector for CQF 12 inserts

coding pins for CQAM 12 T1

description	part No.	part No.
with pegs and seal, connects pole 5 with pole 6 and pole 7 with pole 8	**CQAM 12 T1**	
coding pins for termination connectors CQAM 12 T1		**CR Q03**

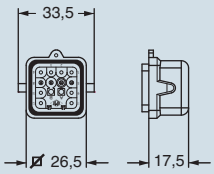
- characteristics according to EN 61984:
  10A 400V 6kV 3
  10A 400/690V 6kV 2

When the terminal connector is mated with a CQF 12 insert (complete with an enclosure with lever), it performs a dual function:
- connects two socket insert poles
- acts as a cover (IP65 protection rating compliant with EN 60529 standard, with lever closed).

CR Q03 code pins can be used with CQAM 12 T1, in this case the CQF 12 inserts must be provided by CR Q12

dimensions in mm

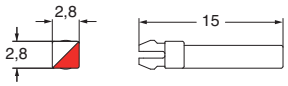
CQAM 12 T1

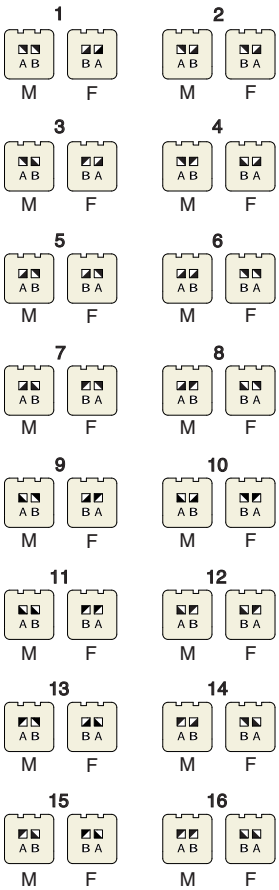


● interconnected male contacts

dimensions in mm

coding pins CR Q03





dimensions shown are not binding and may be changed without notice

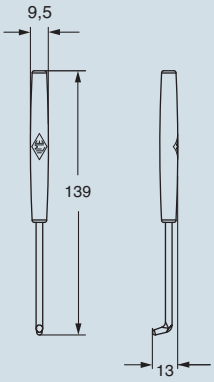
for insert series:	page:
CDSH	9 - 14 **
CSAH	87- 89 *
CSH	91 - 96 *
CMSH	149 - 157 *

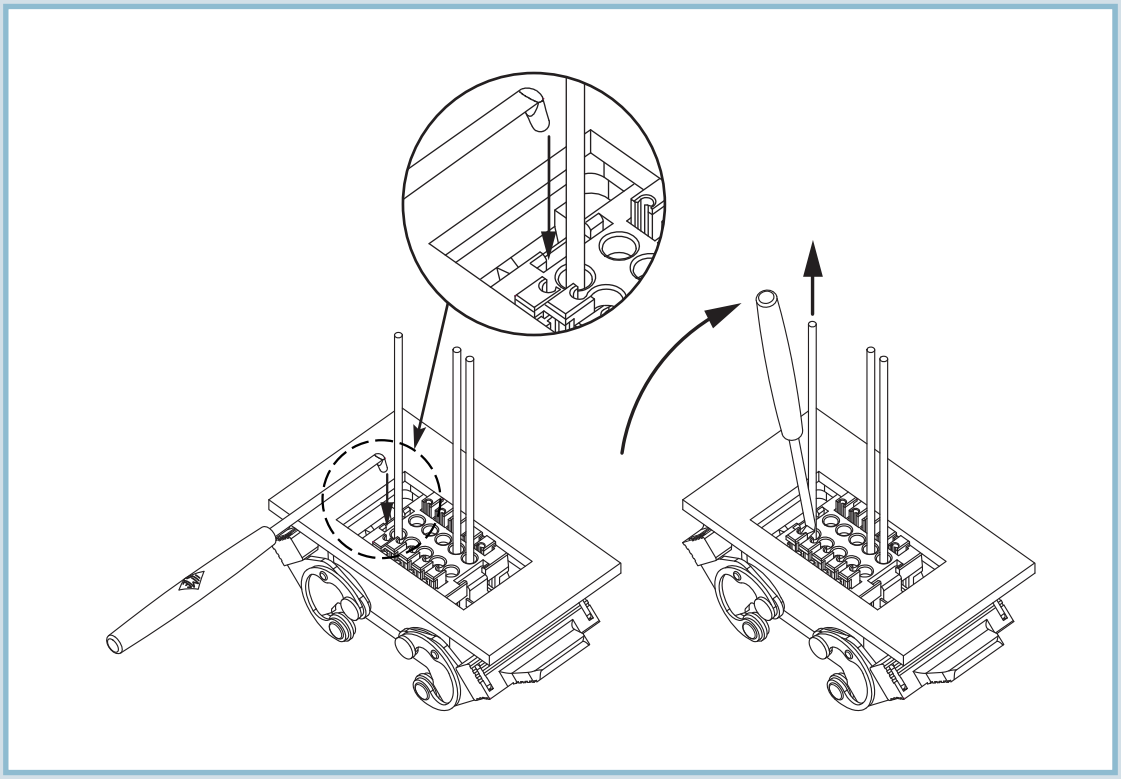
*** refer to catalogue page CN.16**
**** refer to catalogue page News 2016**

reopening tool

description	part No.
opening tool for **SQUICH®** actuator button	**CSHES**

dimensions in mm





Notes

Notes

Notes

Important Notes

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 2006/95/EC (2014/35/EU from April 20, 2016) 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.

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.

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

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

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. I.L.M.E. SpA is not responsible for any different application.

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.

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

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.

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.

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.

The 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.

In order to keep the declared degree of protection (IP code), enclosures must be completed with cable glands and/or other accessories with at least an equal protection rating.

Moreover, the IP protection rating (according to EN 60529) is guaranteed when the enclosures, complete with inserts, are coupled and locked with their locking levers (or devices).

Finally, Please note:
- 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.).

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 (Series CG) cannot be guaranteed when coupled with other manufacturers' products.

I.L.M.E. SpA takes no responsibility in verifying whether the components herein contained comply with any specific regulations of fields of application.

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