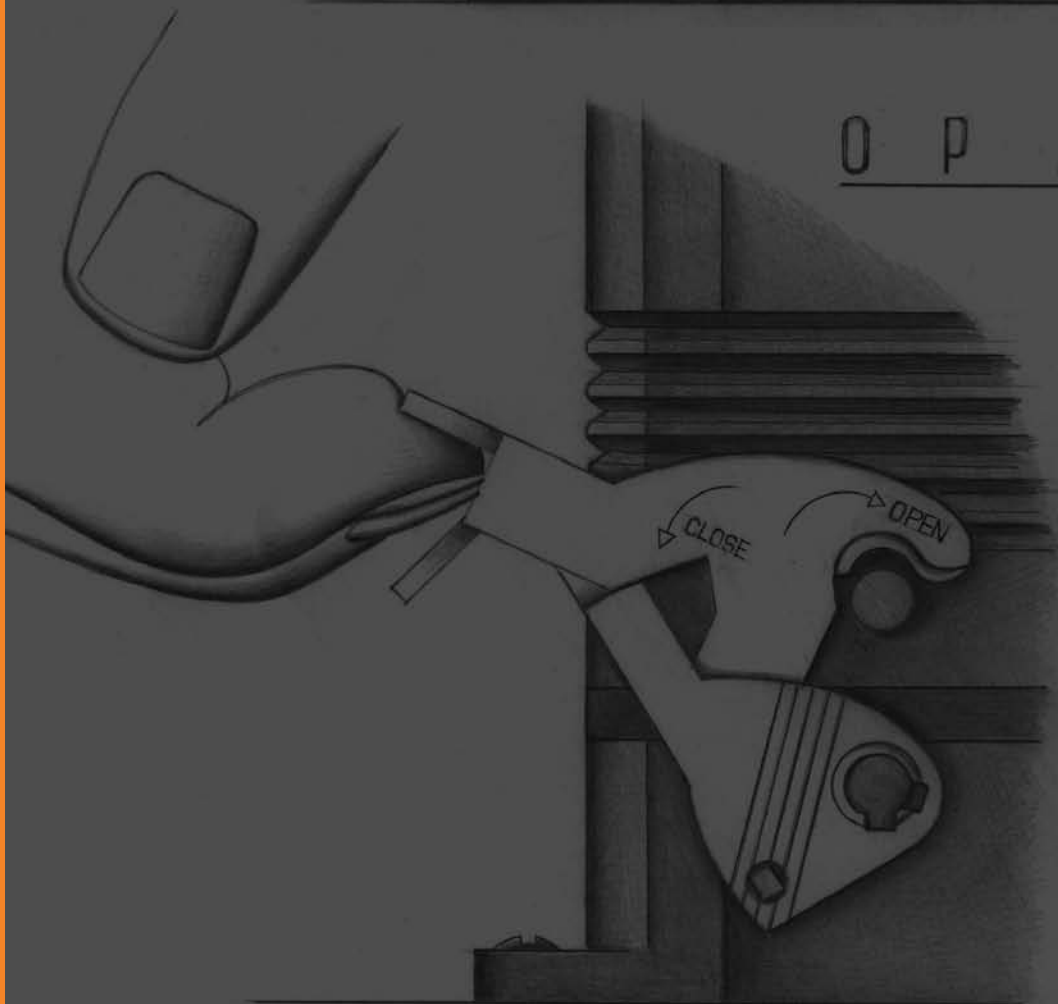


# Multipole connectors V-Type IP67 locking enclosures



O P E N



C L O S E

The performances required for the **protection of connections** are becoming more varied and specific.

To respond to this wide range of needs, **ILME has developed several new solutions, including the innovative V-Type lever.**

Due to the **vertical closing movement, the new lever offers an IP66/IP67 protection** (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).**

The high level of performance is therefore not dependant on the use of special gaskets or locking devices.

**The fixing flanges are the same** as those fitted on traditional models.

This means it is possible to use the new housings **as alternatives to the traditional version without affecting the interchangeability**, or changing dimensions, spaces, flanges or fixing positions.

The new V-Type lever further extends the range, which includes the traditional version (CLASS series), with springs and rollers and the insulated version (T-Type series), **thus, offering customers a complete and custom selection for all needs. ILME is the ONLY company that offers a lever system for all possible requirements.**

The V-Type lever is the result of a continuous research on connection protection systems and confirms the role of ILME **as leading pioneer of new solutions backed up with forty years of experience.**

The new lever differs from other commercial ones because of its closing movement principle, consisting of 2 hinged elements that are then pivoted on the housing.

This composite movement enables to move the lever above the pin of the housing that has to be fixed in place with an initial rotatory movement and then press it downwards to engage the locking mechanism.



**The tight seal after closure and the simplicity of the movement** are key characteristics that **only ILME has managed to combine into a single lever.**

The V-Type lever also has other interesting functional characteristics for several applications:

- **The friction on the pin is almost zero** because the lever exerts its pressure vertically, thus significantly reducing wear in case of frequent use.
- The complete lever is **manufactured in stainless steel** and is fitted with a catch that prevents it from being accidentally detached.
- **The absence of parts in plastic** offers a higher resistance to impacts and in case of contact with oils and aggressive chemical substances or high ambient temperatures.
- **The lever can be used for applications with vibrations** because it has no springs and is therefore more rigid.
- **The lever occupies a very small space** during the closing phase.
- **It is recommended** in cases in which the **weight of the cable** tends to open elastic levers, like those with vertically installed connectors and cable exits in the bottom.

The interchangeability with equivalent traditional levers with springs and rollers **simplifies the management of stocks, reduces costs and increases flexibility of use.**

The lever is available in bulkhead or surface-mounting versions for sizes 44.27 (one lever) and 57.27, 77.27 and 104.27 (2 levers). Models for higher walls are also available on request.

**The product code** that identifies the series includes **suffix C7 or M7:**

- C7I bulkhead-mounting housing
- C7P surface-mounting housings, Pg threading, standard height
- M7P surface-mounting housings, metric threading, standard height
- C7AP surface-mounting housings, Pg threading, high
- M7AP surface-mounting housings, metric threading, high

All housings are certified for protection classes **UL Type 4 (= NEMA 4)**, **UL Type 4X (=NEMA 4X)** and **UL Type 12 (=NEMA 12)**.

**They are** UL certified in accordance with US standard ANSI/UL50, as Recognized Components for US and Canada (cURus marking), as accessories of all our UL and CSA certified connectors (file UL E115072 and file CSA 082270\_0\_000).

If used with complete connectors and appropriate fittings, these housings can also provide an **IP69K** protection in accordance with standard DIN 40050-9 (water jet applied at a temperature of 80 °C (±5 °C) and a pressure of 80 bar - 100 bar for 30s, at an inclination of 0°, 30°, 60° and 90° as compared to the plane).

**Operating ambient temperature limits range from -40 °C to +125 °C.**

Housings **can be used to house** 44.27, 57.27, 77.27 and 104.27 connectors with crimped, screw, spring and the innovative Squich® connections.

CMCE series connectors (crimped) and CMSE connectors (with spring connection) can be used for maximum rated voltages of 830V.

Upon request, ILME can also supply a version for the insertion of all CME series connectors with a rated voltage of 830V thanks to additional internal insulating strips.

For bulkhead-mounting housings, the IP66/IP67 protection class is guaranteed if the housings are fitted on sufficiently rigid panels, M4 screws of suitable length (negligible bending of the surface when exposed to the tightening torque of 0.8-1.2Nm of the fixing screws or to the deformations caused by the actual weight of the complete connector).

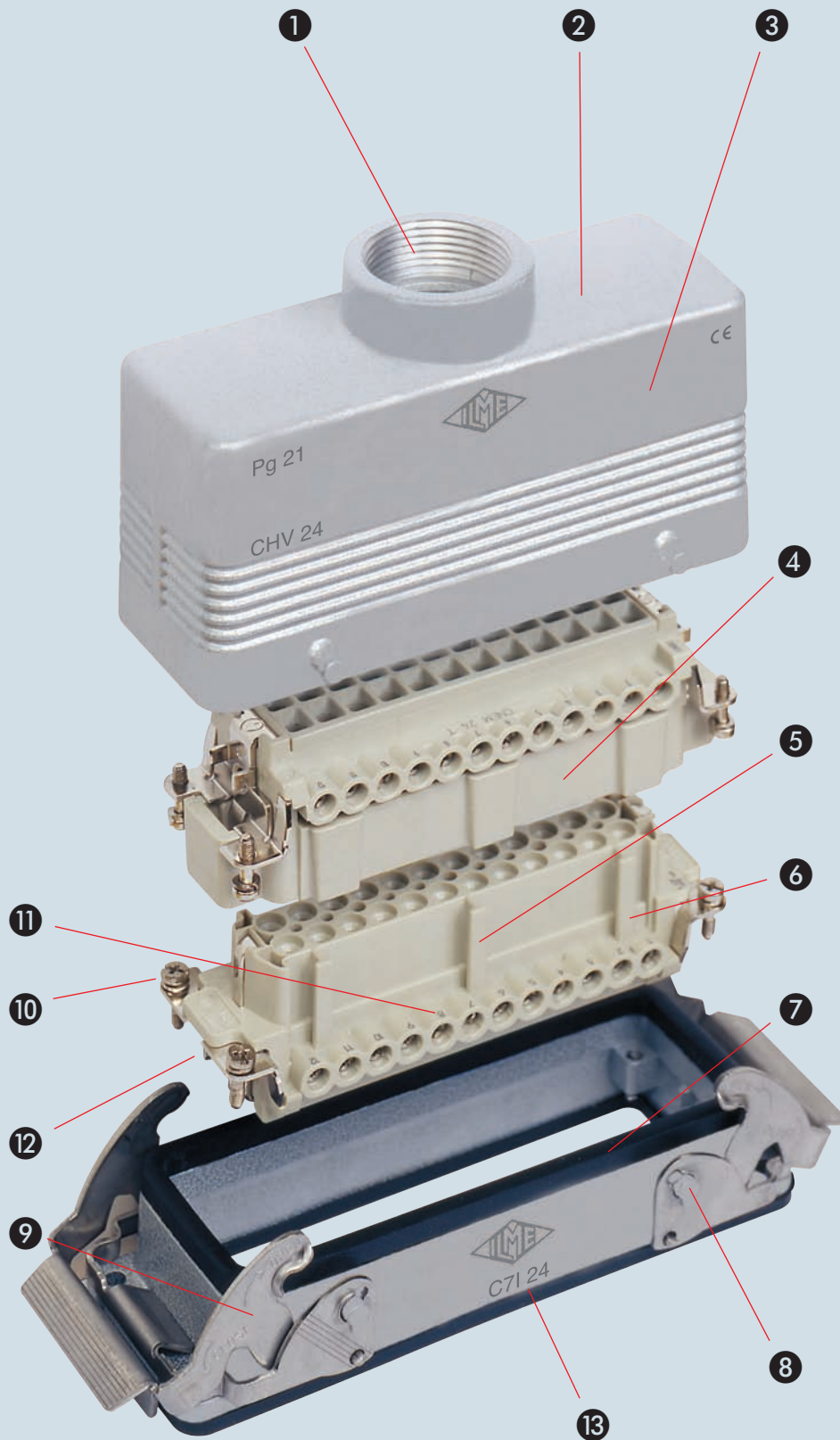
If rigidity is insufficient, is advisable to use CG .. FL flanges (page 11), M4 screws of suitable length and M4 flat/elastic washers (for the housing side) and M6 flat/elastic washers (for the flange side) with M4 locking nuts.

It is also important to check that the panel in contact with the gasket of the bulkhead-mounting housing flange is free from imperfections (deep scratches, grooves, burs) that could affect the operation of the gasket.

It is generally recommendable to fit suitable cable glands and fittings on the housings.

The new series is part of the traditional CLASS series housings **and integrates the existing models that include standard solutions (with grey finish), models for maximum temperatures of 180 °C (with red finish), with IP68 protection class and in insulated thermoplastic material (T-Type).**

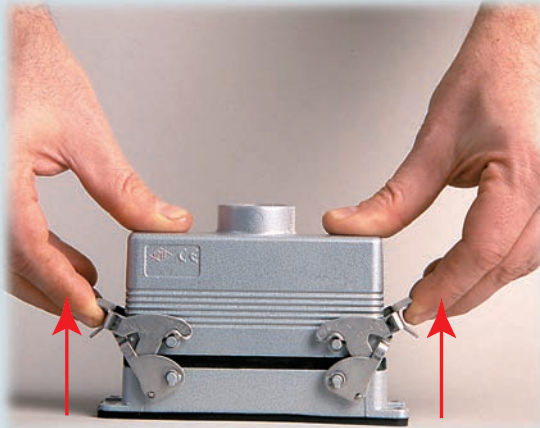
The new versions replace the existing CVI, CVP, MVP, CVAP and MVAP models.



- 1 Threaded cable passing hole in various Pg diameters (types with pre-code beginning with "C") or metric pitch (types with pre-code beginning with "M") in accordance with EN 60423, for cable entry devices in accordance with EN 50262 (NPT threading on request), may be located vertically, horizontally or frontally.
- 2 Heavy-duty enclosures in die-cast aluminium alloy. Wall mounting or bulkhead housings, and hoods are available.
- 3 Metallic enclosures with a coated finish of epoxy-polyester with high resistance to mechanical stress and external agents.
- 4 Inserts in self-extinguishing thermoplastic material reinforced with glass fibre, UL approved, with working temperature ranging from -40 °C to +125 °C.
- 5 Polarized inserts with asymmetric guide rails for preventing incorrect coupling. The inserts have a mechanical life of 500 coupling cycles or above.
- 6 Inserts manufactured in conformity with the EN 61984 European standard (DIN VDE 0627) certified and identified with the UL mark (CSA pending).
- 7 Special seal gaskets in anti-aging, oil-resistant, fuel-resistant vinyl nitrile elastomer.
- 8 Stainless steel closure levers guarantee perfect closure and sealing.
- 9 Locking device available in two versions: simple (with one lever) or double (with two levers).
- 10 Insert captive screws with anti-loosening flexible washer.
- 11 Position of contacts identified with numbers or codes on both sides of each insert and laser printed or moulded.
- 12 Earth terminal protection with wide contact surface.
- 13 These enclosures carry CE marking as they are accessories for electrical connectors with rated operating voltage within the scope of the 2006/95/EC Low Voltage Directive. Each enclosure carries its own part number.

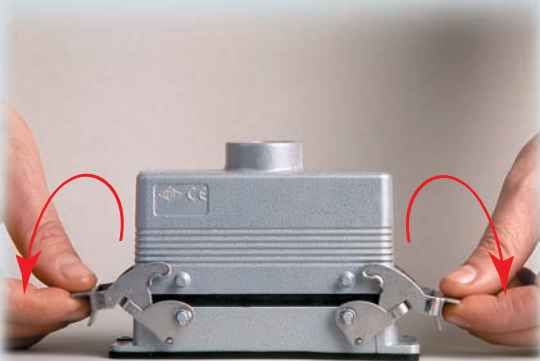
# OPEN

1



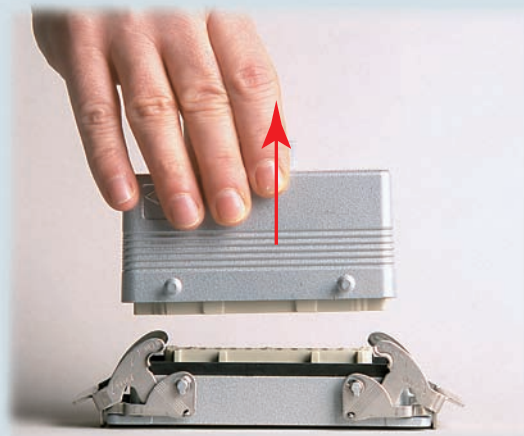
Lift the levers.

2



Lower the levers.

3

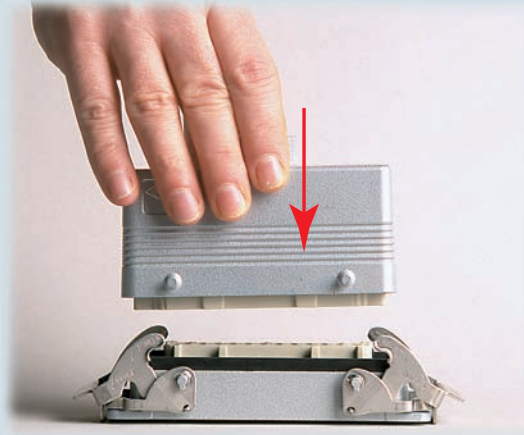


Extract the connector.



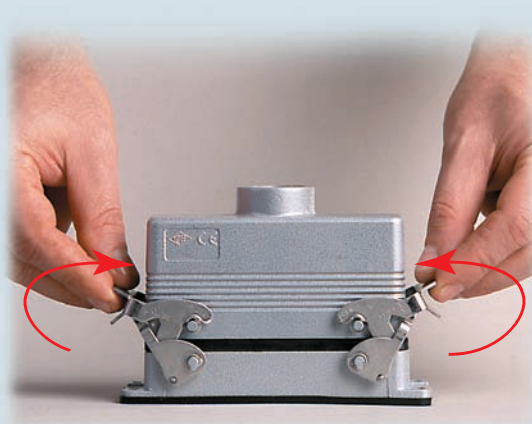
# CLOSE

①



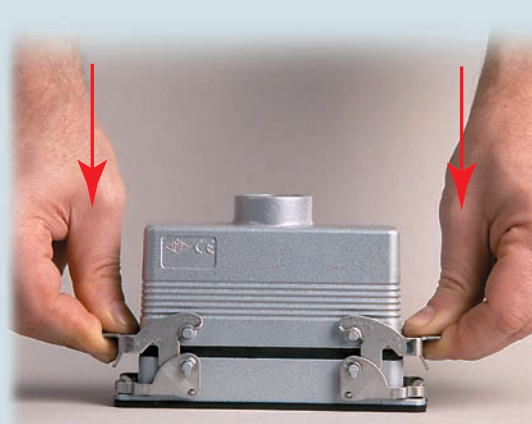
Position the connector.

②



Hook the levers to the pegs.

③



Lower the levers until the device clicks into the locked position.



inserts:	page
CDD ..... 24 poles + ⊕	53 *
CQE ..... 10 poles + ⊕	74 *
CTSE, CT *) ..... 6 poles + ⊕	106-110 *
CCE ..... 6 poles + ⊕	86 *
CNE, CSE **) ..... 6 poles + ⊕	87 *
MIXO ..... 2 modules	137+151 *
CSH ..... 6 poles + ⊕	5 **

insert centre distance:  
44 x 27 mm

\* refer to catalogue page CN.07  
\*\* refer to catalogue page CSH

**bulkhead mounting housings with single lever**



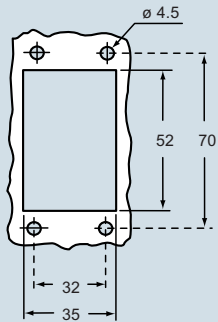
**surface mounting housings with single lever**



description	part No.	part No.		part No.	
		entry Pg	entry M	entry Pg	entry M
with lever, size "44.27"	<b>C7I 06 L</b>				
with lever, size "44.27"		<b>C7P 06 L</b>	16	<b>M7P 06 L20</b>	20
with lever, size "44.27"		<b>C7P 06 L2</b>	16 x 2	<b>M7P 06 L220</b>	20 x 2
with lever, high construction, size "44.27"		<b>C7AP 06 L</b>	21	<b>M7AP 06 L32</b>	32
with lever, high construction, size "44.27"		<b>C7AP 06 L2</b>	21 x 2	<b>M7AP 06 L232</b>	32 x 2
with lever, high construction, size "44.27"		<b>C7AP 06 L29</b>	29	<b>M7AP 06 L40</b>	40
with lever, high construction, size "44.27"		<b>C7AP 06 L229</b>	29 x 2	<b>M7AP 06 L240</b>	40 x 2

\*) may be mounted exclusively in bulkhead housings  
\*\*) JEI version (economical savings) available on request

Panel cut-out for bulkhead mounting housings in mm



Due to the vertical closing movement, the new lever offers an IP66/IP67 protection (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, the IP66/IP67 protection class is guaranteed if the housings are fitted on sufficiently rigid panels, M4 screws of suitable length (negligible bending of the surface when exposed to the tightening torque of 0.8-1.2Nm of the fixing screws or to the deformations caused by the actual weight of the complete connector).

If rigidity is insufficient, is advisable to use CG .. FL flanges (page 11), M4 screws of suitable length and M4 flat/elastic washers (for the housing side) and M6 flat/elastic washers (for the flange side) with M4 locking nuts.

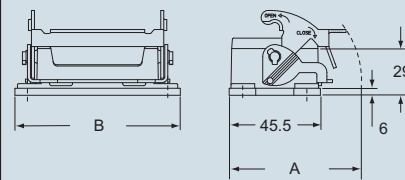
It is also important to check that the panel in contact with the gasket of the bulkhead-mounting housing flange is free from imperfections (deep scratches, grooves, burs) that could affect the operation of the gasket.

**ILME**® Type  
**4/4X/12**

dimensions shown are not binding  
and may be changed without notice

dimensions in mm

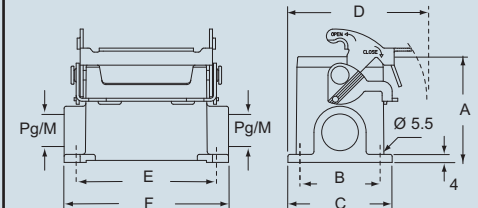
**C7I L**



	A	B
<b>C7I 06 L</b>	66	82.5

dimensions in mm

**C7P L - C7AP L and M7P L - M7AP L**



	A	B	C	D	E	F
<b>C7P/M7P 06 L</b>	53	40	52	70	70	82
<b>C7AP/M7AP 06 L</b>	73	45	57	72,5	70	82



inserts:	page
CD .....	40, 64 poles + ⊕ 43-45 *
CDD .....	42, 72, 108 poles + ⊕ 55-58 *
CQE .....	18, 32, 46 poles + ⊕ 75-77 *
CTSE, CT *) ..	10, 16, 24 poles + ⊕ 107-113 *
CCE .....	10, 16, 24 poles + ⊕ 88-92 *
CNE, CSE **)	10, 16, 24 poles + ⊕ 89-93 *
CMSE, CMCE 3+2, 6+2, 10+2 poles + ⊕	114+118 *
CP .....	6 poles + ⊕ 127 *
CX .....	8/24, 6/36, 12/2 poles + ⊕ 129-131 *
CX .....	4/0, 4/2, 4/8 poles + ⊕ 132-133 *
MIXO .....	3, 4, 6 modules 137-151 *
CSH .....	10, 16, 24 poles + ⊕ 6-8 **

insert centre distance:  
**57 x 27 mm, 77.5 x 27 mm, 104 x 27 mm**

\* refer to catalogue page CN.07  
 \*\* refer to catalogue page CSH

**bulkhead mounting housings with two levers**



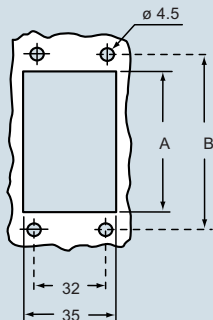
**surface mounting housings with two levers**



description	part No.	part No.	entry Pg	part No.	entry M
with levers, size "57.27"	<b>C7I 10</b>				
with levers, size "77.27"	<b>C7I 16</b>				
with levers, size "104.27"	<b>C7I 24</b>				
with levers, size "57.27"		<b>C7P 10</b>	16	<b>M7P 10.20</b>	20
with levers, size "57.27"		<b>C7P 10.2</b>	16 x 2	<b>M7P 10.220</b>	20 x 2
with levers, high construction, size "57.27"		<b>C7AP 10.21</b>	21	<b>M7AP 10.32</b>	32
with levers, high construction, size "57.27"		<b>C7AP 10.221</b>	21 x 2	<b>M7AP 10.232</b>	32 x 2
with levers, high construction, size "57.27"		<b>C7AP 10.29</b>	29	<b>M7AP 10.40</b>	40
with levers, high construction, size "57.27"		<b>C7AP 10.229</b>	29 x 2	<b>M7AP 10.240</b>	40 x 2
with levers, size "77.27"		<b>C7P 16</b>	21	<b>M7P 16.25</b>	25
with levers, size "77.27"		<b>C7P 16.2</b>	21 x 2	<b>M7P 16.225</b>	25 x 2
with levers, high construction, size "77.27"		<b>C7AP 16.21</b>	21	<b>M7AP 16.32</b>	32
with levers, high construction, size "77.27"		<b>C7AP 16.221</b>	21 x 2	<b>M7AP 16.232</b>	32 x 2
with levers, high construction, size "77.27"		<b>C7AP 16.29</b>	29	<b>M7AP 16.40</b>	40
with levers, high construction, size "77.27"		<b>C7AP 16.229</b>	29 x 2	<b>M7AP 16.240</b>	40 x 2
with levers, size "104.27"		<b>C7P 24</b>	21	<b>M7P 24.25</b>	25
with levers, size "104.27"		<b>C7P 24.2</b>	21 x 2	<b>M7P 24.225</b>	25 x 2
with levers, high construction, size "104.27"		<b>C7AP 24.21</b>	21	<b>M7AP 24.32</b>	32
with levers, high construction, size "104.27"		<b>C7AP 24.221</b>	21 x 2	<b>M7AP 24.232</b>	32 x 2
with levers, high construction, size "104.27"		<b>C7AP 24.29</b>	29	<b>M7AP 24.40</b>	40
with levers, high construction, size "104.27"		<b>C7AP 24.229</b>	29 x 2	<b>M7AP 24.240</b>	40 x 2

\*) may be mounted exclusively in bulkhead housings  
 \*\*) JEI version (economical savings) available on request

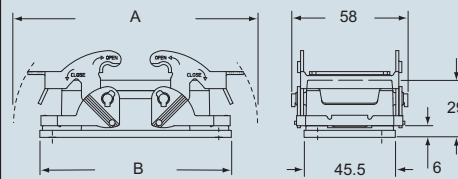
Panel cut-out for bulkhead mounting housings in mm



	A	B
<b>C7I 10</b>	65	83
<b>C7I 16</b>	86	103
<b>C7I 24</b>	112	130

dimensions in mm

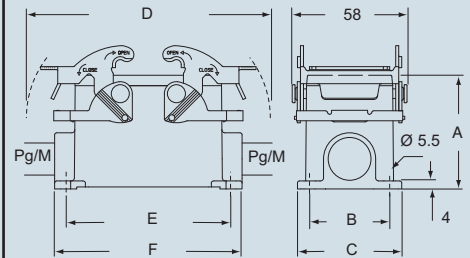
**C7I**



	A	B
<b>C7I 10</b>	122	95.5
<b>C7I 16</b>	142.5	115.5
<b>C7I 24</b>	169	142.5

dimensions in mm

**C7P - C7AP and M7P - M7AP**



	A	B	C	D	E	F
<b>C7P/M7P 10</b>	57	40	52	122	82	93.5
<b>C7P/M7P 16</b>	63	45	57	142.5	105	117
<b>C7P/M7P 24</b>	63	45	57	169	132	144
<b>C7AP/M7AP 10</b>	73	45	57	122	82	93.5
<b>C7AP/M7AP 16</b>	77	45	57	142.5	105	117
<b>C7AP/M7AP 24</b>	80	45	57	169	132	144

Due to the vertical closing movement, the new lever offers an IP66/IP67 protection (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, the IP66/IP67 protection class is guaranteed if the housings are fitted on sufficiently rigid panels, M4 screws of suitable length (negligible bending of the surface when exposed to the tightening torque of 0.8-1.2Nm of the fixing screws or to the deformations caused by the actual weight of the complete connector).

If rigidity is insufficient, is advisable to use CG .. FL flanges (page 11), M4 screws of suitable length and M4 flat/elastic washers (for the housing side) and M6 flat/elastic washers (for the flange side) with M4 locking nuts.

It is also important to check that the panel in contact with the gasket of the bulkhead-mounting housing flange is free from imperfections (deep scratches, grooves, burs) that could affect the operation of the gasket.



dimensions shown are not binding and may be changed without notice





inserts:	page
<b>CD</b> ..... 40, 64 poles + ⊕	43-45 *
<b>CDD</b> ..... 24, 42, 72, 108 poles + ⊕	53-58 *
<b>CQE</b> ..... 10, 18, 32, 46 poles + ⊕	74-77 *
<b>CCE</b> ..... 6, 10, 16, 24 poles + ⊕	86-92 *
<b>CNE, CSE *)</b> 6, 10, 16, 24 poles + ⊕	87-93 *
<b>CMSE</b> ..... 3+ <sup>2</sup> , 6+ <sup>2</sup> , 10+ <sup>2</sup> poles + ⊕	114-118 *
<b>CMCE</b> ..... 3+ <sup>2</sup> , 6+ <sup>2</sup> , 10+ <sup>2</sup> poles + ⊕	114-118 *
<b>CP</b> ..... 6 poles + ⊕	127 *
<b>CX</b> ..... 8/24, 6/36, 12/2 poles + ⊕	129-131 *
<b>CX</b> ..... 4/0, 4/2, 4/8 poles + ⊕	132-133 *
<b>MIXO</b> ..... 2, 3, 4, 6 modules	137-151 *
<b>CSH</b> ..... 6, 10, 16, 24 poles + ⊕	5-8 **

insert centre distance:  
**44 x 27 mm, 57 x 27 mm, 77.5 x 27 mm, 104 x 27 mm**

\* refer to catalogue page CN.07  
 \*\* refer to catalogue page CSH

### hoods 2 pegs for single lever



### hoods 4 pegs for two levers



description	part No.		part No.		part No.		part No.	
	entry Pg	entry M	entry Pg	entry M	entry Pg	entry M	entry Pg	entry M
with pegs, side entry, size "44.27"	<b>CHO 06 L13</b>	13.5	<b>MHO 06 L20</b>	20				
with pegs, side entry, size "44.27"	<b>CHO 06 L16</b>	16	<b>MHO 06 L25</b>	25				
with pegs, side entry, high, size "44.27"	<b>CFO 06 L21</b>	21	<b>MFO 06 L25</b>	25				
with pegs, side entry, high, size "44.27"	<b>CFO 06 L29</b>	29	<b>MFO 06 L32</b>	32				
with pegs, side entry, size "57.27"					<b>CHO 10</b>	16	<b>MHO 10.20</b>	20
with pegs, side entry, size "57.27"					<b>CAO 10.21</b>	21	<b>MHO 10.25</b>	25
with pegs, side entry, high, size "57.27"					<b>CAO 10.29</b>	29	<b>MAO 10.32</b>	32
with pegs, side entry, high, size "57.27"							<b>MAO 10.40</b>	40
with pegs, side entry, size "77.27"					<b>CHO 16</b>	21	<b>MHO 16.25</b>	25
with pegs, side entry, size "77.27"					<b>CAO 16.21</b>	21	<b>MHO 16.32</b>	32
with pegs, side entry, high, size "77.27"					<b>CAO 16.29</b>	29	<b>MAO 16.32</b>	32
with pegs, side entry, high, size "77.27"							<b>MAO 16.40</b>	40
with pegs, side entry, size "104.27"					<b>CHO 24</b>	21	<b>MHO 24.25</b>	25
with pegs, side entry, size "104.27"					<b>CAO 24.21</b>	21	<b>MHO 24.32</b>	32
with pegs, side entry, high, size "104.27"					<b>CAO 24.29</b>	29	<b>MAO 24.32</b>	32
with pegs, side entry, high, size "104.27"							<b>MAO 24.40</b>	40
with pegs, top entry, size "44.27"	<b>CHV 06 L13</b>	13.5	<b>MHV 06 L20</b>	20				
with pegs, top entry, size "44.27"	<b>CHV 06 L16</b>	16	<b>MHV 06 L25</b>	25				
with pegs, top entry, high, size "44.27"	<b>CFV 06 L21</b>	21	<b>MFV 06 L25</b>	25				
with pegs, top entry, high, size "44.27"	<b>CFV 06 L29</b>	29	<b>MFV 06 L32</b>	32				
with pegs, top entry, size "57.27"					<b>CHV 10</b>	16	<b>MHV 10.20</b>	20
with pegs, top entry, size "57.27"					<b>CAV 10.21</b>	21	<b>MHV 10.25</b>	25
with pegs, top entry, high, size "57.27"					<b>CAV 10.29</b>	29	<b>MAV 10.32</b>	32
with pegs, top entry, high, size "57.27"							<b>MAV 10.40</b>	40
with pegs, top entry, size "77.27"					<b>CHV 16</b>	21	<b>MHV 16.25</b>	25
with pegs, top entry, size "77.27"					<b>CAV 16.21</b>	21	<b>MHV 16.32</b>	32
with pegs, top entry, high, size "77.27"					<b>CAV 16.29</b>	29	<b>MAV 16.32</b>	32
with pegs, top entry, high, size "77.27"							<b>MAV 16.40</b>	40
with pegs, top entry, size "104.27"					<b>CHV 24</b>	21	<b>MHV 24.25</b>	25
with pegs, top entry, size "104.27"					<b>CHV 24.29</b>	29	<b>MHV 24.32</b>	32
with pegs, top entry, size "104.27"					<b>CAV 24.21</b>	21	<b>MHV 24.40</b>	40
with pegs, top entry, high, size "104.27"					<b>CAV 24.29</b>	29	<b>MAV 24.32</b>	32
with pegs, top entry, high, size "104.27"							<b>MAV 24.40</b>	40

\*) JEI version (economical savings) available on request

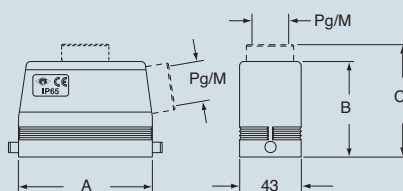
Due to the vertical closing movement, the new lever offers an IP66/IP67 protection (according to EN 60529) when fitted with a complete and coupled connector and used with ILME standard hoods in die cast aluminum with pegs (without adaptor).

**ILME**® Type  
**4/4X/12**

dimensions shown are not binding and may be changed without notice

dimensions in mm

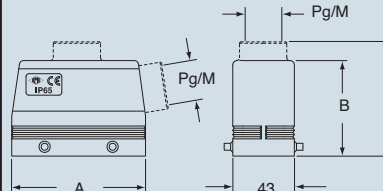
**CHO L - CFO L and MHO L - MFO L**  
**CHV L - CFV L and MHV L - MFV L**



	A	B	C
<b>CHO/MHO 06</b>	60	47	-
<b>CHO/MHO 10</b>	73	52	-
<b>CHO/MHO 16</b>	93.5	63	-
<b>CHO/MHO 24</b>	120	63	-
<b>CFO/MFO 06</b>	60	72	-
<b>CAO/MAO 10</b>	73	70	-
<b>CAO/MAO 16</b>	93.5	76	-
<b>CAO/MAO 24</b>	120	76	-

dimensions in mm

**CHO - CAO and MHO - MAO**  
**CHV - CAV and MHV - MAV**



	A	B	C
<b>CHV/MHV 06</b>	60	40	53
<b>CHV/MHV 10</b>	73	45	58
<b>CHV/MHV 16</b>	93.5	45	58
<b>CHV/MHV 24</b>	120	55	69.5
<b>CFV/MFV 06</b>	60	72	88
<b>CAV/MAV 10</b>	73	70	85
<b>CAV/MAV 16</b>	93.5	76	91
<b>CAV/MAV 24</b>	120	76	91



inserts:	page
<b>CD</b> ..... 40, 64 poles + ⊕	43-45 *
<b>CDD</b> ..... 24, 42, 72, 108 poles + ⊕	53-58 *
<b>CQE</b> ..... 10, 18, 32, 46 poles + ⊕	74-77 *
<b>CCE</b> ..... 6, 10, 16, 24 poles + ⊕	86-92 *
<b>CNE, CSE *)</b> 6, 10, 16, 24 poles + ⊕	87-93 *
<b>CMSE</b> ..... 3+ <sup>2</sup> , 6+ <sup>2</sup> , 10+ <sup>2</sup> poles + ⊕	114-118 *
<b>CMCE</b> ..... 3+ <sup>2</sup> , 6+ <sup>2</sup> , 10+ <sup>2</sup> poles + ⊕	114-118 *
<b>CP</b> ..... 6 poles + ⊕	127 *
<b>CX</b> ..... 8/24, 6/36, 12/2 poles + ⊕	129-131 *
<b>CX</b> ..... 4/0, 4/2, 4/8 poles + ⊕	132-133 *
<b>MIXO</b> ..... 2, 3, 4, 6 modules	137-151 *
<b>CSH</b> ..... 6, 10, 16, 24 poles + ⊕	5-8 **

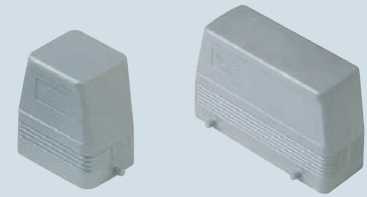
insert centre distance:  
**44 x 27 mm, 57 x 27 mm, 77.5 x 27 mm, 104 x 27 mm**

\* refer to catalogue page CN.07  
 \*\* refer to catalogue page CSH

**enlarged hoods,  
side or top entry**



**hoods  
without entry, to be pierced**

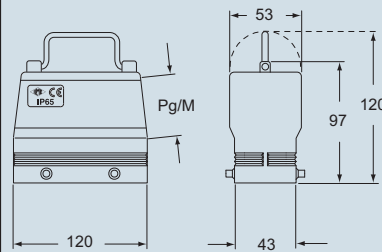


description	part No.		part No.		part No. with 2 pegs	part No. with 4 pegs
	Pg	entry	M	entry		
used with enclosures size "104.27" - with pegs for two levers, side entry - with pegs for two levers, top entry	<b>CQO 24</b> <b>CQV 24</b>	36 36	<b>MQO 24.40</b> <b>MQV 24.40</b>	40 40		
with pegs for levers - used with enclosures size "44.27" - used with enclosures size "57.27" - used with enclosures size "77.27" - used with enclosures size "104.27"					<b>CAC 06 L</b>	<b>CAC 10</b> <b>CAC 16</b> <b>CAC 24</b>

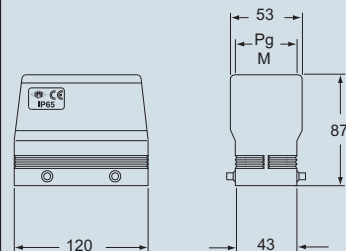
\*) JEI version (economical savings) available on request

dimensions in mm

**CQO and MQO**

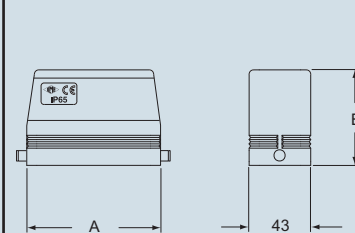


**CQV and MQV**

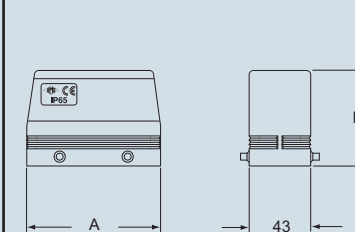


dimensions in mm

**CAC L**



**CAC**



	A	B
<b>CAC 06 L</b>	60	72
<b>CAC 10</b>	73	70
<b>CAC 16</b>	93.5	76
<b>CAC 24</b>	120	76

Due to the vertical closing movement, the new lever offers an IP66/IP67 protection (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).

dimensions shown are not binding  
and may be changed without notice

# CI and MI hoods for 2 levers



inserts:		page
<b>CD</b> .....	64 poles + ⊕	45 *
<b>CDD</b> .....	108 poles + ⊕	58 *
<b>CQE</b> .....	46 poles + ⊕	77 *
<b>CCE</b> .....	24 poles + ⊕	92 *
<b>CNE, CSE *)</b> .....	24 poles + ⊕	93 *
<b>CSS</b> .....	24 poles + ⊕	101 *
<b>CMSE</b> .....	10+2 (aux) poles + ⊕	118 *
<b>CMCE</b> .....	10+2 (aux) poles + ⊕	118 *
<b>CX</b> .....	4/8 poles + ⊕	133 *
<b>MIXO</b> .....	6 modules	137-151 *
<b>CSH</b> .....	24 poles + ⊕	8 **

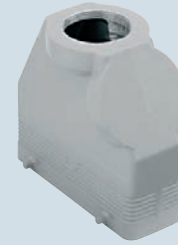
enclosures:  
size "104.27"

\* refer to catalogue page CN.07  
\*\* refer to catalogue page CSH

## inclined hoods for 2 levers with side entry



## inclined hoods for 2 levers with top entry

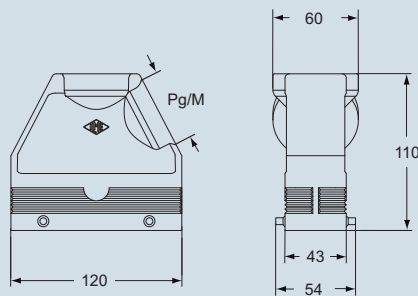


description	part No.		part No.		part No.		part No.	
		entry Pg		entry M		entry Pg		entry M
used with enclosures size "104.27" - with pegs for 2 levers, side entry - with pegs for 2 levers, side entry	<b>CIO 24.36</b>	36	<b>MIO 24.40</b> <b>MIO 24.50</b>	40 50				
used with enclosures size "104.27" - with pegs for 2 levers, top entry - with pegs for 2 levers, top entry					<b>CIV 24.36</b>	36	<b>MIV 24.40</b> <b>MIV 24.50</b>	40 50

\*) JEI version (economical savings) available on request

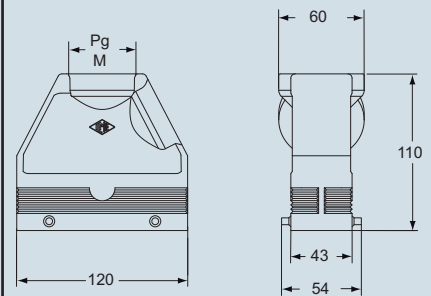
dimensions in mm

### CIO and MIO



dimensions in mm

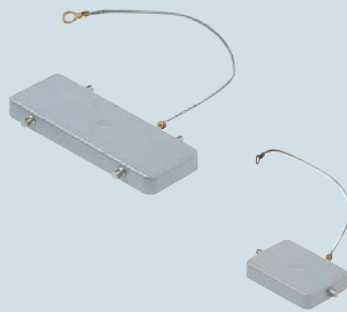
### CIV and MIV



Due to the vertical closing movement, the new lever offers an IP66/IP67 protection (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).

dimensions shown are not binding  
and may be changed without notice

**covers**



**frames for bulkhead mounting housings**



description	part No. with 2 pegs	part No. with 4 pegs	part No.
- used with enclosures size "44.27" - used with enclosures size "57.27" - used with enclosures size "77.27" - used with enclosures size "104.27"	<b>CHC 06 L</b>	<b>CHC 10</b> <b>CHC 16</b> <b>CHC 24</b>	
size "44.27" size "57.27" size "77.27" size "104.27"			<b>CG 06 FL</b> <b>CG 10 FL</b> <b>CG 16 FL</b> <b>CG 24 FL</b>

In general, the covers guarantee an IP65 (according to EN 60529) degree of protection.

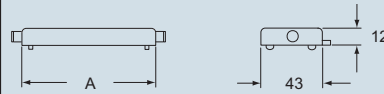
dimensions in mm

**CHC**



- for enclosures with 2 levers

**CHC L**

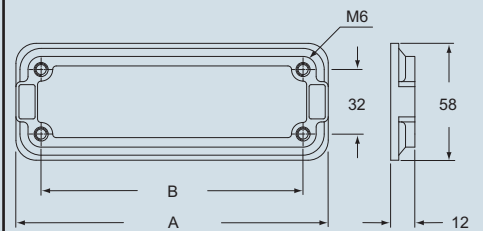


- for enclosures with 1 lever

CHC - CHC L	A
06	60
10	73
16	93.5
24	120

dimensions in mm

**CG..FL**



	A	B
CG 06 FL	96	70
CG 10 FL	109	83
CG 16 FL	129	103
CG 24 FL	156	130

bulkhead mounting housings:

- size "44.27" .....page 6
- size "57.27" .....page 7
- size "77.27" .....page 7
- size "104.27" .....page 7



dimensions shown are not binding and may be changed without notice

**T-TYPE**



**JEI**



**V-TYPE**



**C-TYPE**



**180 °C**



**W**



**CENTRAL  
LEVER**



**EMC**



**IP68**

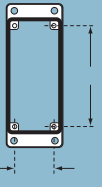



**COB**







															
	rated current														
	10A	10A	10A	16A	16A	16A	16A	16A	16A	35A	16A 10A 10A	40A 10A 10A	80A 16A 16A	200A 100A 40A 16A 10A	
	insert series														
enclosures	CD	CT, CTS	CDD	CQE	CCE	CSH	CNE, CSE <sup>1)</sup>	CTE, CTSE, CT	CMSE, CMCE	CP	CX	CX	CX	MIXO	
size	inserts polarity + ⊕														
44.27			24	10	6	6	6	6*						②*	
57.27			42	18	10	10	10	10*	3+2		8/24			③*	
77.27	40	40*	72	32	16	16	16	16*	6+2	6		6/36 12/2	4/0 4/2	④*	
104.27	64	64*	108	46	24	24	24	24*	10+2				4/8	⑥*	

- \* = may be mounted exclusively in bulkhead housings
- \* = number of modular inserts that may be inserted in the enclosures
- 1) = JEI version (economical savings) available on request

The polarity values indicated as exponentials in the CMCE and CMSE inserts identify the pilot contacts for advanced opening

**JCNE**

6 - 10 - 16 - 24 poles

screw terminal

16A - 500V



**JCSE**

6 - 10 - 16 - 24 poles

spring terminal

16A - 500V



**CSH**

6 - 10 - 16 - 24 poles

spring terminal  
SQUICH

16A - 500V



**CNE**

6 - 10 - 16 - 24 poles

screw terminal

16A - 500V



**CSE - CSS**

6 - 10 - 16 - 24 poles

spring terminal

16A - 500V



**CCE**

6 - 10 - 16 - 24 poles

crimp connection

16A - 500V



**CT - CTSE**

6 - 10 - 16 - 24 poles

screw terminal  
spring terminal

16A - 400V/500V



**CT 40/64 - CTS 40/64**

40 - 64 poles

screw terminal  
spring terminal

10A - 250V



**CD**

15 - 25 - 40 - 64 poles

crimp connection

10A - 250V



**CDD**

24 - 42 - 72 - 108 poles  
CD contacts

crimp connection

10A - 250V



**CQE**

10 - 18 - 24 - 32 - 46 poles  
CC contacts

crimp connection

16A - 500V



**CMCE - CMSE**

3 - 6 - 10 poles

spring terminal  
crimp connection

CC contacts

16A - 830V



**CPF/M 06**  
**CPF/M 06 N**  
6 poles

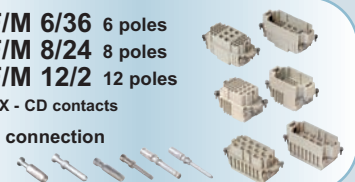
screw terminal

400V/690V  
35A.....80A

**CXF/M 4/0** 4 poles  
**CXF/M 4/2** 4 poles  
**CXF/M 4/8** 4 poles



**CXF/M 6/36** 6 poles  
**CXF/M 8/24** 8 poles  
**CXF/M 12/2** 12 poles  
CC - CX - CD contacts  
crimp connection



**MIXO CX 01 Y**

crimp connection  
200A - 1000V



**MIXO CX 02 G**

crimp connection  
100A - 1000V



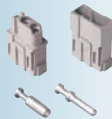
**MIXO CX 02 4A / 4B**

axial screw terminal  
40A - 400V/690V



**MIXO CX 03**

crimp connection  
40A - 400V/690V



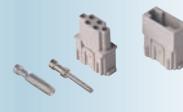
**MIXO CX 20 C**

crimp connection  
16A - 500V



**MIXO CX 06 C**

crimp connection  
16A - 500V



**MIXO CX 08 C**

crimp connection  
16A - 400V



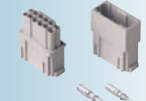
**MIXO HT CX 02 H**

crimp connection  
16A - 2900V/5000V



**MIXO CX 12 D**

crimp connection  
10A - 250V



**MIXO CX 17 D**

crimp connection  
10A - 160V



**MIXO CX 05 S**

spring terminal  
16A - 400V



**MIXO CX 03 P  
MIXO CX 02 P**

pneumatic  
16A - 400V



**MIXO CX 02 B**

for shielded connectors

crimp connection  
10A - 50V



**MIXO USB**

for connectors



**MIXO CX J**

for connectors  
RJ45 + 4 poles

16A - 250V



**MIXO POF-MOST**

crimp connection



**MIXO**  
for **COAXIAL** contacts

crimp connection



**MIXO dummy module CX FM  
FRAMES** for modular units





A series of horizontal lines for writing notes, spanning the width of the page.

## IMPORTANT NOTES

The products in this catalogue cannot guarantee the best functionality on installation, as this depends mainly 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".

The products shown in this catalogue are deemed to form connections mainly for electrical circuits, therefore they have to be assembled according to the user's best choice for the different applications.

For such choices, as well as for uses of single components and/or for uses with purposes other than those herein declared, I.L.M.E. SpA refuses any liability for the application results and/or for product incorrect use and/or unsuccessful performances.

The connectors must not be connected or disconnected when live or under load.

After wiring the inserts we recommend to verify the protective earth terminals continuity.

The connector inserts operation is guaranteed only if mounted by four screws on a rigid plane (provided by hoods/housings).

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

The installer must verify and ensure the correct coupling and operation of the protective earth connection.

For all inserts with screw-type terminals it is important that the correct torque is applied to the screws in order to prevent damage to the conductor, the screw or the terminal.

Crimping tools and contacts should be supplied by the same manufacturer.

The termination of spring-clamp connector inserts is guaranteed only when the specified screwdriver is correctly used for actuating the spring (see indication in the specific catalogue and, where applied, on the insert) and the operating principles are followed.

To prevent incorrect coupling please respect the polarity drawing (contacts side view) when two similar inserts are mounted in double-sized hood or housing. To avoid coupling mismatch we recommend the use of coding pins when two or more similar connectors are mounted close together.

The complete connectors (enclosures and inserts) guarantee the IP degree of protection when coupled and locked with their closing levers. In order to ensure the same degree of protection provided by the connector housings, the cable glands or other accessories used to close cable outlets must also have at least an equivalent IP degree of protection.

In order to prevent stress on the contacts, the 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.

ILME connectors, inserts and enclosures are generally compatible with similar/equivalent products from other manufacturers, according to the last samples we tested.

The full interchangeability cannot be granted by ILME as we cannot be considered responsible for technical changes made by other manufacturers.

In particular, ILME cannot guarantee the full performances of our IP68 enclosures (Series CG) if coupled with other manufacturers' products.

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