

# Multipole connectors





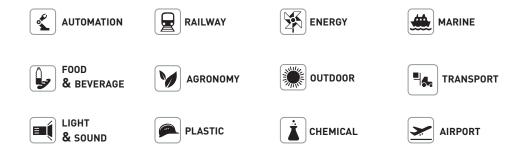
# THE TRADITION OF INNOVATION SINCE 1945

ILME designs and manufactures complete solutions for industrial connections. Headquartered in Milan and with subsidiaries in the key countries driving the progress of automation, ILME is an industry leader in the main world markets. People are vital to success and growth at ILME, sharing a passion for innovation, utmost responsibility and participation.

The Company is committed to developing technology in the areas that most impact the future of the industries it serves: original solutions and safe cabling, research on the most suitable materials, rapid turnaround and readily available services while striving for energy saving and environmental safeguard.

# **COMMITMENT TO INDUSTRY**

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





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

# **IMPORTANT NOTES**

Strictly tied to our general selling conditions

- 1 ILME designs and manufactures complete solutions for Heavy Duty electrical power connections. The connector (although offered to the user as a variety of elements, usually inserts and enclosures, to allow the selection of the ideal combination) has been **designed as a complete connector** and tested to be compliant with the essential safety requirements of the EU Low Voltage Directive (2014/35/EU) and in particular the EN 61984 standard. The design of this "whole" system guarantees that every allowed combination of inserts, enclosures and accessories cannot result as improper.
- 2 The products in this catalogue alone cannot guarantee the best functionality upon installation, as this depends also on their correct "putting into service" which must be performed in compliance with the applicable system safety standards and according to the "rule of the art". Therefore the effectiveness of the installation of the connector depends on the choices of the end user who must also take into account the following safety requirements.
- 3 Connectors must not be connected or disconnected when live or under load.
- 4 After wiring the inserts it is necessary to verify the continuity of the protective earth connections.
- 5 The **correct coupling of the inserts** is guaranteed only if they are installed (with the four fixing screws supplied\*) inside the corresponding enclosures or onto compatible accessories in this catalogue. ILME S.p.A. is not responsible for any different application.
- 6 Wiring of **screw-type terminal connections** must be carried out applying the correct tightening torque in order to avoid false contacts or damage to the conductor, the screw or the terminal.
- 7 Crimping tools and crimp contacts used should preferably be supplied by the same manufacturer to avoid difficulties with the insertion and retention or damaging of the contacts themselves.
- 8 Correct wiring of spring-clamp connection inserts is guaranteed only when the correct screwdriver indicated in the specific catalogue, or possibly on the insert, is used\*\*.
- 9 Avoid forcing the contacts during connection and disconnection. Connectors must be coupled and uncoupled in the axial direction with respect to the contacts, without bending and pulling the attached conductor bundles or cables.
- 10 Installation of two **inserts side by side**, in enclosures with two bays, must respect the polarity drawing marked on the insert (or the contact side view, as shown in this catalogue) to avoid inverted coupling.
- 11 Installation of two or more identical **connectors side by side** is recommended only with the use of **coding pins** in order to avoid mismatched couplings.
- 12 In order to keep the declared **degree of protection** (IP code according to EN 60529, or Enclosure Type Rating according to ANSI/UL 50E), enclosures must be completed with cable glands and/or other accessories with at least an equal degree of protection.
- 13 Moreover, the declared **degree of protection** (IP code according to EN 60529, or Enclosure Type Rating according to ANSI/UL 50E) is guaranteed when the enclosures, complete with inserts, are coupled and locked with their locking levers (or devices).
- 14 Connector inserts and their enclosures are generally compatible with similar/equivalent products from other manufacturers, according to the last samples tested. Full compatibility cannot be guaranteed in the event of technical changes made by other manufacturers. In particular, maximum performance of IP68 enclosures (CG/-MG, CGK - MGK Series) cannot be guaranteed when coupled with other manufacturers' products.
- 15 Spare parts are supplied in minimum quantities only with the purpose to replace damaged parts. To avoid invalidation of warranty, products should be modified or repaired only by ILME: the integrity of their functionality e.g. their degree of protection can no longer be guaranteed if products are modified/repaired by end-users. In any case, the liability for correct choice, assembly and use is totally at charge of the installer and the end-user.
- 16 ILME S.p.A. takes no responsibility in verifying whether the components herein contained comply with any specific regulations of fields of application.
- 17 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.).
- \* Except one fixing screw for size "21.21" inserts, two fixing screws for size "32.13" inserts.
- \*\* Except for Squich® inserts (with spring-clamp terminals with actuator pin) that do not require any tool to operate the terminal.

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# **SPARE PARTS**

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description

ILME

part No.

package

Plastic handles for C-TYPE lever

CR 06 LH	Black plastic handle for single lever enclosures size 44.27	10
CR 10 LH	Black plastic handle for single lever enclosures size 57.27	10
CR 16 LH	Black plastic handle for single lever enclosures size 77.27	10
CR 24 LH	Black plastic handle for single lever enclosures size 104.27	10
CR 32 LH	Black plastic handle for single lever enclosures size 77.62	10
CR LH	Black plastic handle for double lever enclosures size 57.27, 77.27 and 104.27	10
CR 32 L2H	Plastic handle for double lever enclosures size 77.62	10
CR 50 L2H	Plastic handle for double lever enclosures size 66.40	10
CR TM	2 red metal handles for C-TYPE "R" versions	1



10	CR 03 LK
5	CR 03 LKN
10	CR 03 LKH
10	CR 03 LKA
10	CR 03 LKAX
10	CR 03 LKAXX
10	CR 08 LQ
10	CR 01 LH
	CR 03 LKAX <u>CR 03 LKAXX</u> CR 08 LQ



# Levers for IL-BRID enclosures

CR 15 LZ	IL-BRID lever for enclosures size 49.16	10
CR 25 LZ	IL-BRID lever for enclosures size 66.16	10



## Levers for V-TYPE enclosures

CR	06 LVX	Stainless steel lever for enclosures size 44.27	10
) <u>Cr</u>	LVX	Stainless steel lever for enclosures size 57.27, 77.27 and 104.27	10



# Levers for T-TYPE, T-TYPE/W and T-TYPE/H/C HYGENIC enclosures

79	CR 06 LPA	Grey plastic lever for enclosures size 44.27	10
5	CR LPA	Grey plastic lever for enclosures size 57.27, 77.27 and 104.27	10
	CR 06 LPH	Blue plastic lever for HYGENIC enclosures size 44.27	10
	CR LPH	Blue plastic lever for HYGENIC enclosures size 57.27, 77.27 and 104.27	10

# Levers for COB panel support

5 0	CR LCOB	COB plastic lever	10
19	COB L	COB plastic lever for coupling with metallic enclosures	10



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package

# Levers for JEI<sup>®</sup> enclosures housings

	CR 06 LN	Black plastic lever for enclosures size 44.27	10
	CR LN	Black plastic lever for enclosures size 57.27, 77.27 and 104.27	10
	CR 32 LN	Black plastic lever for enclosures size 77.62	10
	CR 15 LJ	Black plastic lever for enclosures size 49.16	10
	CR 25 LJ	Black plastic lever for enclosures size 66.16	10
Ro.	CR 06 LVJ	Galvanized steel lever for enclosures size 44.27	10
	CR LVJ	Galvanized steel lever for enclosures size 57.27, 77.27 and 104.27	10

## Gaskets for C-TYPE, IL-BRID, Rigid and V-TYPE enclosures

	CR 03 GKI	NBR flange gasket for CK / MK / CKA / MKA enclosures	10
	CR 03 GKIF	NBR flange gasket for MKA IFC enclosures	10
	CR 03 GKIVG	NBR flange gasket for MKA IVG	10
-/	CR 03 GKIA4	NBR flange gasket for CKA IA4 / MKA IA4	10
	CR 03 GKIVGR	NBR flange gasket for MKAS IVG 20 reverse mounting	10
	CR 01 GHI	NBR flange and hood gasket for MIXO ONE	10
	CR 08 GQI	NBR flange gasket for CQ 08 I	10
	CR 08 GQIA	NBR flange gasket for CQ 08 IA	10
	CR 06 GHI	NBR flange gasket for (C-TYPE lever) enclosures size 44.27	10
( AC)	CR 06 GVI	NBR flange gasket for (V-TYPE lever) enclosures size 44.27	10
	CR 10 GHI	NBR flange gasket for (C-TYPE and V-TYPE lever) enclosures size 57.27	10
	CR 16 GHI	NBR flange gasket for (C-TYPE and V-TYPE lever) enclosures size 77.27	10
	CR 24 GHI	NBR flange gasket for (C-TYPE and V-TYPE lever) enclosures size 104.27	10
	CR 15 GZI	NBR flange gasket for IL-BRID and RIGID enclosures size 49.16	10
	CR 25 GZI	NBR flange gasket for IL-BRID and RIGID enclosures size 66.16	10
	CR 50 GHI	NBR flange gasket for C-TYPE enclosures lever size 66.40	10
$\smile$	CR 32 GHI	NBR flange gasket for (C-TYPE lever) enclosures lever size 77.62	10
	CR 48 GHI	NBR flange gasket for (C-TYPE lever) enclosures lever size 104.62	10
	CR 10 MO	NBR flange gasket for CVI 10 LA enclosure	5

# Gaskets for W-TYPE, E-Xtreme $^{\ensuremath{\$}}$ and 180 $^{\ensuremath{\bullet}}C$ enclosures

CR 03 GWI	FKM flange gasket for W-TYPE and 180 °C enclosures	10
CR 03 GWIA4	FKM gasket for CKAW IA4 / MKAW IA4	10
CR 06 GWI	FKM flange gasket (C-TYPE lever) for enclosures size 44.27	10
CR 06 GVWI	FKM flange gasket (V-TYPE lever) for enclosures size 44.27	10
CR 10 GWI	FKM flange gasket for enclosures size 57.27	10
CR 16 GWI	FKM flange gasket for enclosures size 77.27	10
CR 24 GWI	FKM flange gasket for enclosures size 104.27	10
CR 15 GWI	FKM flange gasket for IL-BRID and RIGID enclosures size 49.16	10
CR 25 GWI	FKM flange gasket for IL-BRID and RIGID enclosures size 66.16	10
CR 50 GWI	FKM flange gasket W-TYPE and E-Xtreme® for enclosures size 66.40	10
CR 32 GWI	FKM flange gasket W-TYPE and E-Xtreme® for enclosures size 77.62	10
CR 48 GWI	FKM flange gasket W-TYPE and E-Xtreme® for enclosures size 104.62	10



# **SPARE PARTS**

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description

ILME

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#### Gaskets for EMC enclosures

hine I	CR 03 GSI	EMC flange gasket for CKAS / MKAS enclosures	10
	CR 08 GSI	EMC flange gasket for CQ 08 I	10
	CR 08 GSIA	EMC flange gasket for CQ 08 IA	10
$\bigcirc$	CR 06 GSI	EMC flange gasket (C-TYPE lever) for enclosures size 44.27	10
2	CR 10 GSI	EMC flange gasket (C-TYPE lever) for enclosures size 57.27	10
-	CR 16 GSI	EMC flange gasket (C-TYPE lever) for enclosures size 77.27	10
	CR 24 GSI	EMC flange gasket (C-TYPE lever) for enclosures size 104.27	10
	CR 15 GSI	EMC flange gasket for IL-BRID and RIGID enclosures size 49.16	10
	CR 25 GSI	EMC flange gasket for IL-BRID and RIGID enclosures size 66.16	10

## Top gaskets for surface and bulkhead mounting housings

	CR 01 GX	Top gasket for MIXO ONE*	10
	CR 06 GH	Top gasket for enclosures size 44.27*	10
	CR 10 GH	Top gasket for enclosures size 57.27*	10
	CR 16 GH	Top gasket for enclosures size 77.27*	10
	CR 24 GH	Top gasket for enclosures size 104.27*	10
	CR 15 GH	Top gasket for enclosures size 49.16*	10
	CR 25 GH	Top gasket for enclosures size 66.16*	10
	CR 50 GH	Top gasket for enclosures size 66.40*	10
	CR 32 GH	Top gasket for enclosures size 77.62*	10
	CR 48 GH	Top gasket for enclosures size 104.62*	10
		* we recommend the use of LOCTITE <sup>®</sup> 406™	



#### Gaskets for male 21.21 and 32.13 inserts

	CR 21.21 GM	NBR gasket for 21.21 male inserts	10
V	CR 21.21 GMW	FKM gasket for 21.21 male inserts (W-TYPE, E-Xtreme® and 180 °C)	10
	CR 21.21 GMH	SILICON gasket for 21.21 male inserts (HYGENIC)	10
/	CR 32.13 GM	NBR gasket for 32.13 male inserts	5
	CR 08 EMC	EMC gasket for 32.13 male inserts	5
/			

#### Top and flange gaskets for standard T-TYPE enclosures

	CR 06 GT	Gasket for TMAP / TCHI size 44.27	10
	CR 10 GT	Gasket for TMAP / TCHI size 57.27	10
	CR 16 GT	Gasket for TMAP / TCHI size 77.27	10
K OI	<u>CR 24 GT</u>	Gasket for TMAP / TCHI size 104.27	10



#### Flange gasket for HYGENIC 21.21 enclosures

CR 03 GKIH SILICON flange gasket for enclosures size 21.21 10



# O-ring gaskets for MIXO pneumatic contacts

CR 3/4 PMO	O-ring gasket for CX 1.6 / 3.0 / 4.0 PM	10
CR 6 PMO	O-ring gasket for CX 6.0 PM	10



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description

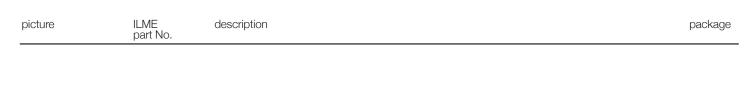
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CR 16 GY CR 24 GY CR 26 CP	Gaskets for CYR cable passing hoods Gasket for CYR 16.3 Gasket for CYR 24.4 Covers for hinged enclosures Plastic cover for enclosures size 44.27	10 10
CR 24 GY	Gasket for CYR 16.3 Gasket for CYR 24.4 Covers for hinged enclosures	
CR 24 GY	Gasket for CYR 24.4 Covers for hinged enclosures	
	Covers for hinged enclosures	
	-	
	Plastic cover for enclosures size 44.27	
		10
CR 10 CP	Plastic cover for enclosures size 57.27	10
CR 16 CP	Plastic cover for enclosures size 77.27	10
CR 24 CP	Plastic cover for enclosures size 104.27	10
CR 32 CP	Plastic cover for enclosures size 77.62	10
CR 48 CP	Plastic cover for enclosures size 104.62	10
CR 06 CS	Metal cover for enclosures size 44.27	10
CR 10 CS	Metal cover for enclosures size 57.27	10
CR 16 CS	Metal cover for enclosures size 77.27	10
CR 24 CS	Metal cover for enclosures size 104.27	10
CR 32 CS	Metal cover for enclosures size 77.62	10
<b>CR 48 CS</b>	Metal cover for enclosures size 104.62	10
CR 15 CS	Metal cover for enclosures size 49.16	10
CR 25 CS	Metal cover for enclosures size 66.16	10
<u>CR 50 CS</u>	Metal cover for enclosures size 66.40	10
CR 06 SP	Simplex plastic cover for enclosures size 44.27	10
CR 10 SP	Simplex plastic cover for enclosures size 57.27	10
CR 16 SP	Simplex plastic cover for enclosures size 77.27	10
<u>CR 24 SP</u>	Simplex plastic cover for enclosures size 104.27	10
CR 15 SP	Simplex plastic cover for enclosures size 49.16	10
<u>CR 25 SP</u>	Simplex plastic cover for enclosures size 66.16	10
	Hinged blocks for enclosures	
	Block for standard hinged enclosures	10
CR SHB CR ZHB	Block for Simplex hinged enclosures size 49.16 and 66.16 Block for standard hinged enclosures size 49.16 and 66.16	10 10



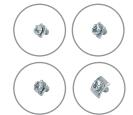
	Screws	
CR 21.21 VF	Screw for inserts size 21.21	100
CR 21.21 VFD	Screw for inserts size 21.21, CD 07 / 08 only	100
CKR 65	Screw and gasket for inserts size 21.21	10
CKR 65 D	Screw and gasket for inserts size 21.21, CD 07 / 08 only	10
CKRH 65	Screw and gasket for inserts size 21.21 (HYGENIC)	10
CKRH 65 D	Screw and gasket for inserts size 21.21, CD 07 / 08 only (HYGENIC)	10
CR 32.13 VF	Screw for inserts size 33.13	100
CR VF	Screw for standard inserts	100
CRIC M3	Screw for standard inserts without friction system	50

# **SPARE PARTS**



## Fixing screw for floating frame

S Screw for CR 06 / 10 / 16 / 24 DF



	Screws for second protective earth terminal	
CR VATG	Screw for CDA/CDC, CSAH inserts	50
CR VDTG	Screw for CD 15/25, CDD 38 inserts	50
CR VNTG	Screw for CD 40 / 64, CDD 24 / 42 / 72 / 108, CQE, CQEE, CNE, CSS, CX 8/24	50
	CCE, CSE, CMSH, CME, CMCE, CSH, CDSH inserts	50
CR VPTG	Screw for CP, CX 12/2, CX 6/36, CX 4/0, CX 4/2 inserts	50

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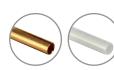


	Fixing keys	
CGY	Fixing red key for MIXO 100A-200A	100
CX6	Fixing red key for CX 6/6	100



## **Fixing tabs**

FM	For MIXO frames CX 02 TM / TF, CX 03 TM / TF, CX 04 TM / TF, CX 06 TM / TF	100
FMX	For MIXO CX 04 XF	10
FMD	For MIXO CX 42 DF/M	10



## Sleeves for female SC optical inserts and modules

CR SC-B	Ceramic sleeve	10
CR SC-H	Metal sleeve	10



#### Cords for covers

CR 270 CO	Polyamide cord 270 mm for covers with eyelet	10
CR 320 CO	Polyamide cord 320 mm for covers with loop	10
CR 270 COX	Inox cord 270 mm for covers with eyelet	10
CR 320 COX	Inox cord 320 mm for covers with loop	10
CR CO	Ferrule for fastening the cord	10

# Worldwide Sales Organization

#### Headquarters

ILME S.p.A. Via M.A. Colonna 9 20149 Milano, Italia T +39 0234560522 info@ilme.com

#### France

#### ILME FRANCE S.A.R.L.

431 rue Roland Garros Parc d'Activités de l'Aéroport 42160 Andrézieux-Bouthéon T +33 04 7736 2336 ilme-france@ilme.fr

#### Sweden and Nordic Countries

ILME NORDIC AB Transportvägen 18 246 42 Löddeköpinge T +46 4618 2800 info@ilme.se

#### Czech Republic Representative Office

ILME S.p.A. Business Center Rokytka Sokolovská 270/201 Vysocany, Praha 9, 190 00 info@ilme.cz

#### Japan

#### ILME JAPAN CO. LTD.

K.I.B.C. Bldg 5-2 Minatojima Minamimachi 5-Chome Chuo-Ku, Kobe 650-0047 T +81 78 302 2005 info@ilmejapan.co.jp

# www.ilme.com

#### Germany

**ILME GmbH** Max-Planck-Straße 12 51674 Wiehl T +49 (0)2261 7955 0 technik@ilme.de

#### United Kingdom

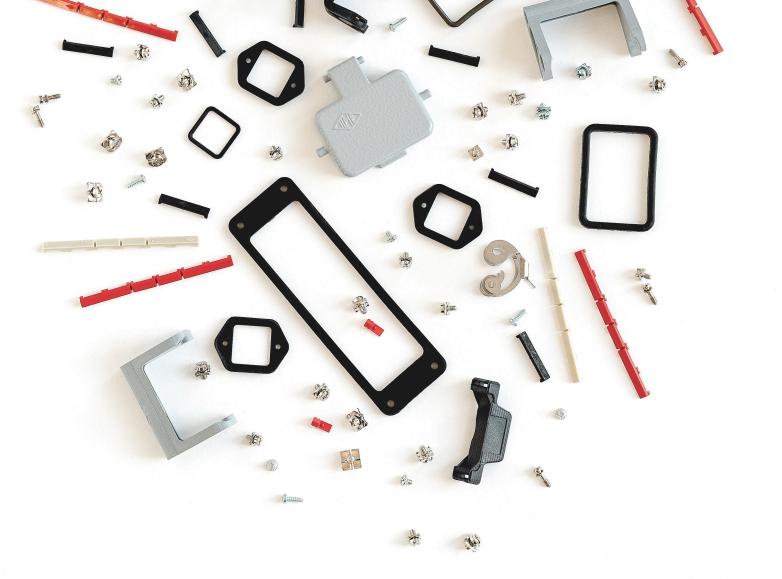
ILME UK LIMITED 50 Evans Road, Venture Point Speke, Liverpool L24 9PB T +44 0151 336 9321 sales@ilmeuk.co.uk

#### China

#### ILME CHINA CO. LTD.

Room 101, Building 3 188 Xinjunhuan Road, Minhang Shanghai 201114 T +86 21 6248 9961 info@ilmechina.com

## South Korea

ILME KOREA CO. 714, DaeRyung Technotown 20<sup>th</sup> 5 Gasan Digital 1-Ro, GeumCheon-Gu Seoul 08594 T +82-2-2225-8432 sales@ilme.kr 







**ILME S.p.A.** Via M.A. Colonna 9 20149 Milano, Italy www.ilme.com