



Iseo lake, January 25, 2018



Welcome

Participants



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Ilme China

Fan Yongfei
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Taiwan & S.E. Asia

Kwok Fred

Mixo Gigabit module



Mixo Gigabit module

Original need:

robust, compact and vibration proof shielded solution for 8-way (4 pairs) high speed data transmission

It widens the ILME program of interchangeable data connectors

Requested by: Skoda, Bombardier, Ilme Germany

Scope of the product:

- ⊙ high frequency Ethernet connections up to 10 Gbit/s
- ⊙ up to cat. 6A transmission (twice the 250 MHz transmission frequency of cat. 6, i.e. up to 500 MHz)
- ⊙ suitable for shielded sensors and actor cables
- ⊙ perfect for harsh environment of industrial applications
- ⊙ removable crimp contacts CI series (gold plated)

Main Applications:



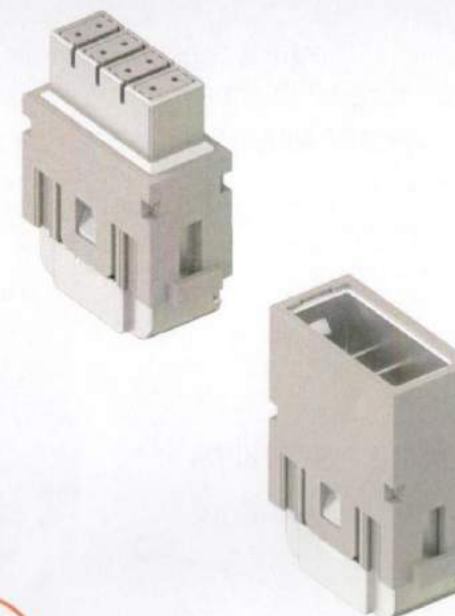
automation, robotics



wind



railway



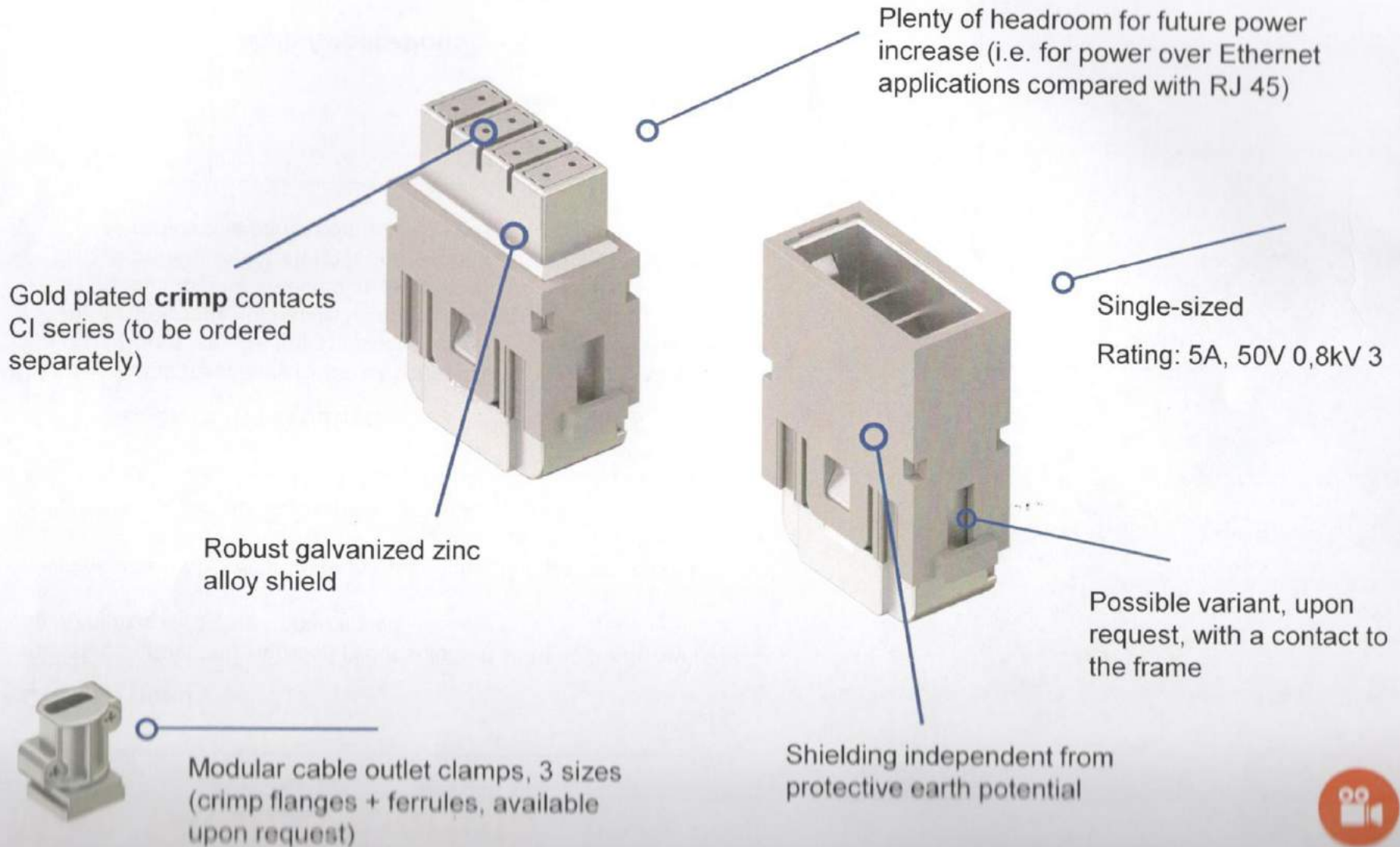
Reason why

Mixo Gigabit module



Features

Zoom in on features and benefits



Mixo Gigabit module

可以达到这种连接 + T-Type外壳



- Codes: CX 08 I6F, female
CX 08 I6M, male
CX 5/7 CA
CX 7/10 CA
CX 10/12 CA

Samples availability: February 2018

Full availability at stock: April 2018

Availability on EPLAN: November 2018

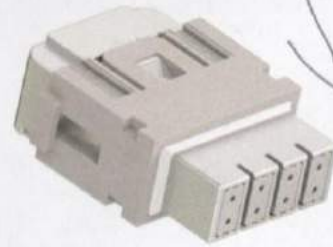
Availability on Traceparts: November 2018

Datasheet and Configurator on Ilme website: April 2018

Certifications: November 2018

Subsidiary Purchasing Price: distributed to the Managing Directors

Video Tutorial available on the USB key

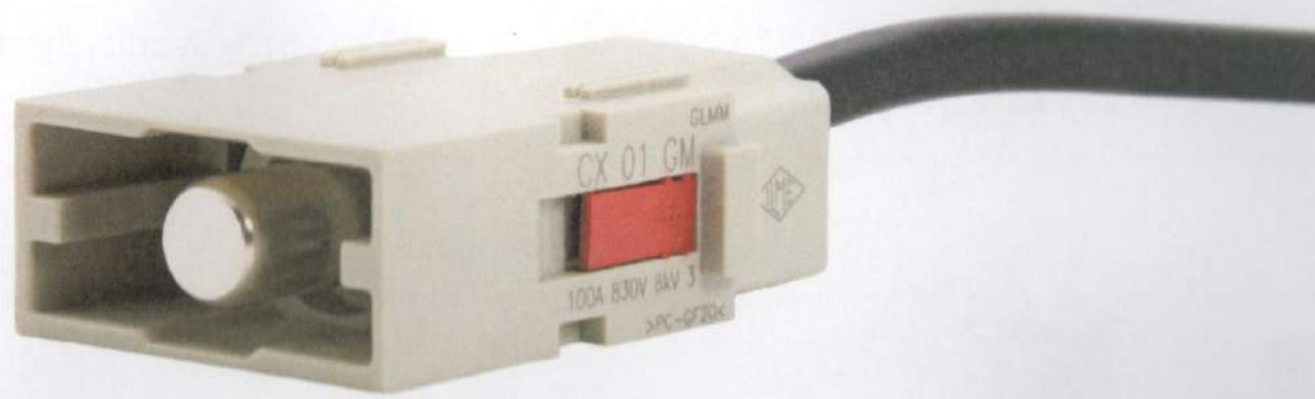


可以达到 EMC 效果



In the market

Mixo 100A - 1 module





Mixo 100A - 1 module

Original need:

High power solution for compact space

More flexibility in modular combinations

Requested by: Ilme Japan and Ilme Germany

Scope of the product:

- ⊙ Optimized for 3 phase application (3-module, 57.27 size)
- ⊙ Suitable for a single power line up to 100A - 830V AC or DC
- ⊙ Crimp connection technology, preferred for high vibrations/shock environment over axial screw

Main Applications:



robotics



wind



railway



之前是 100A, 2 poles
100V.
体积缩小一半

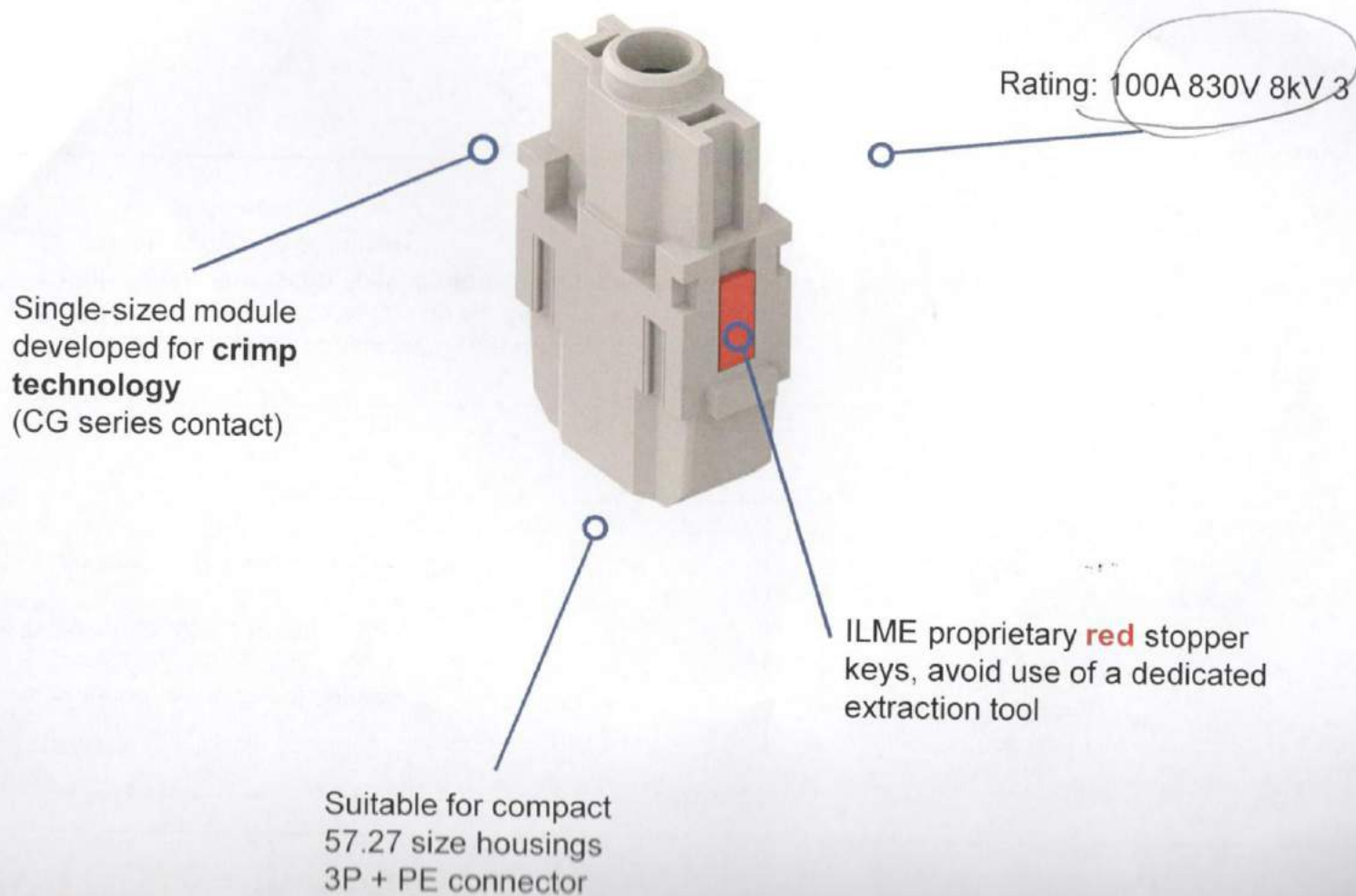
Reason why



Features

Mixo 100A - 1 module

Zoom in on features and benefits

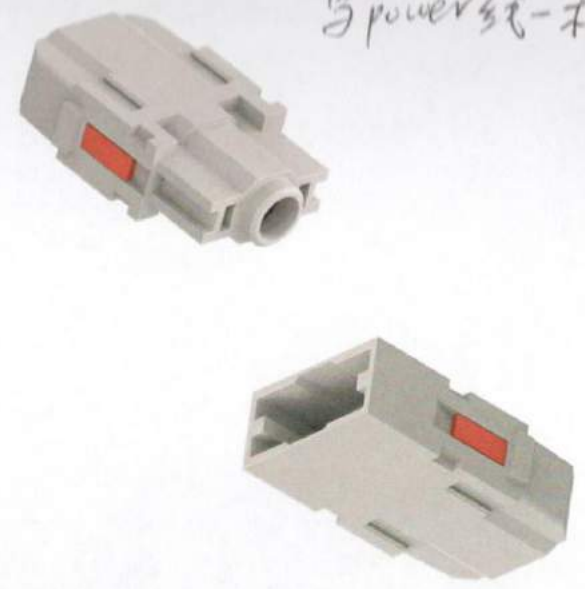


Mixo 100A - 1 module



- Code: CX 01 GF, female
CX 01 GM, male
- Samples availability: March 2018
- Full availability at stock: May 2018
- Availability on EPLAN: November 2018
- Availability on Traceparts: November 2018
- Datasheet and Configurator on Ime website: May 2018
- Certifications: November 2018
- Subsidiary Purchasing Price: distributed to the Managing Directors
- Video Tutorial available on the USB key

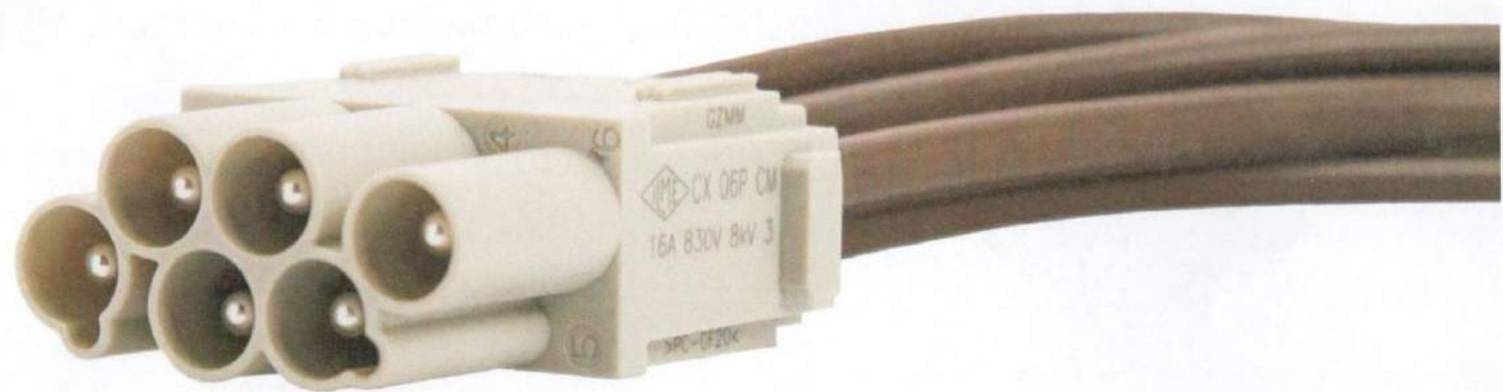
日本用25mm的跳线吧。
与power线一样粗。



In the market



Mixo 16A module 6 poles crimp IP2X protected



Mixo 16A module 6 poles crimp IP2X protected



Reason why

Original need:

Need to protect the male connector for specific decentralized applications due to the back current from capacitive and inductive power (i.e. frequency converter, motor starter)

Requested by: Ilme France, Ilme Germany, Ilme Italy



Scope of the product:

- ⊙ additional safety protection for specific applications
- ⊙ for use at rated voltages up to 830V AC or DC
- ⊙ suitable as HNM insert together with RC crimp contacts
- ⊙ more versatility to create high power connector combinations

20
额定 16A, 500V

Main Applications:



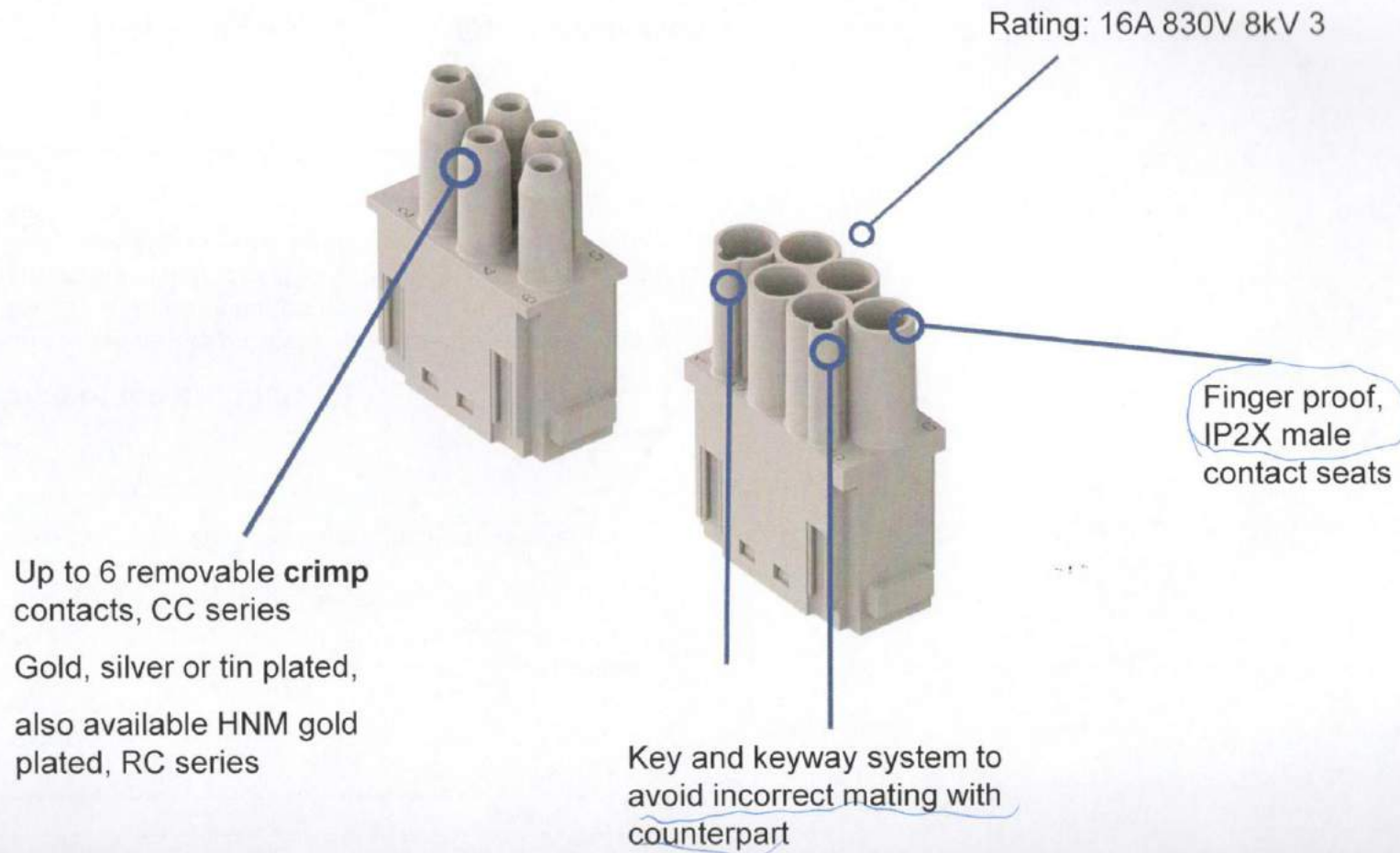
automation



railway

Mixo 16A module 6 poles crimp IP2X protected

Zoom in on features and benefits



Mixo 16A module 6 poles crimp IP2X protected

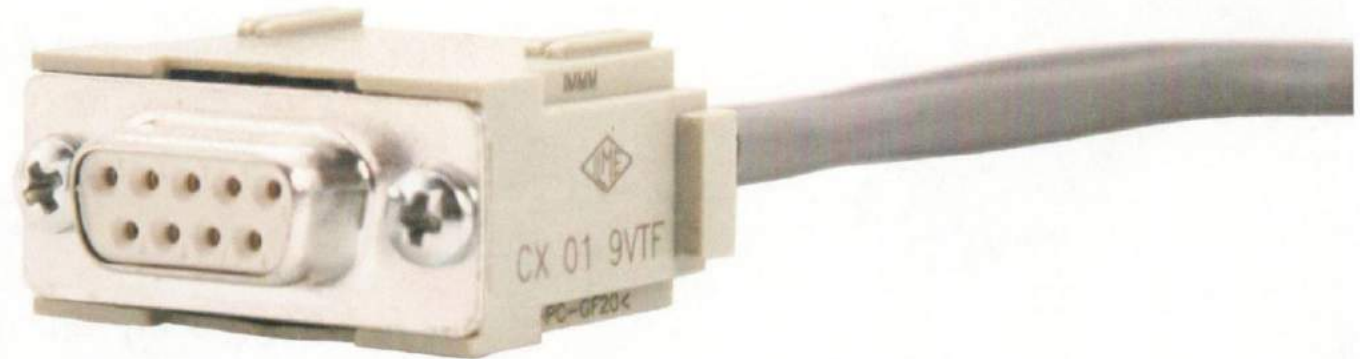


- ◉ **Codes:** CX 06P CF, female
CX 06P CM, male
- ◉ **Samples availability:** April 2018
- ◉ **Full availability at stock:** June 2018
- ◉ **Availability on EPLAN:** November 2018
- ◉ **Availability on Traceparts:** November 2018
- ◉ **Datasheet and Configurator on Ilme website:** June 2018
- ◉ **Certifications:** November 2018
- ◉ **Subsidiary Purchasing Price:** distributed to the Managing Directors



In the market

Mixo D-Sub female module



Mixo D-Sub female module



Original need:

Connection solution for RS-485 bus suitable for Data BUS systems requiring a T-connection

Requested by: Ilme France and Ilme Germany

Scope of the product:

- ⊙ Signal transmission
- ⊙ Motor-Control-Center technology (MCC)
- ⊙ Cable junction for CAN + PROFIBUS systems like a T-connector

Main Applications:



automation, robotics

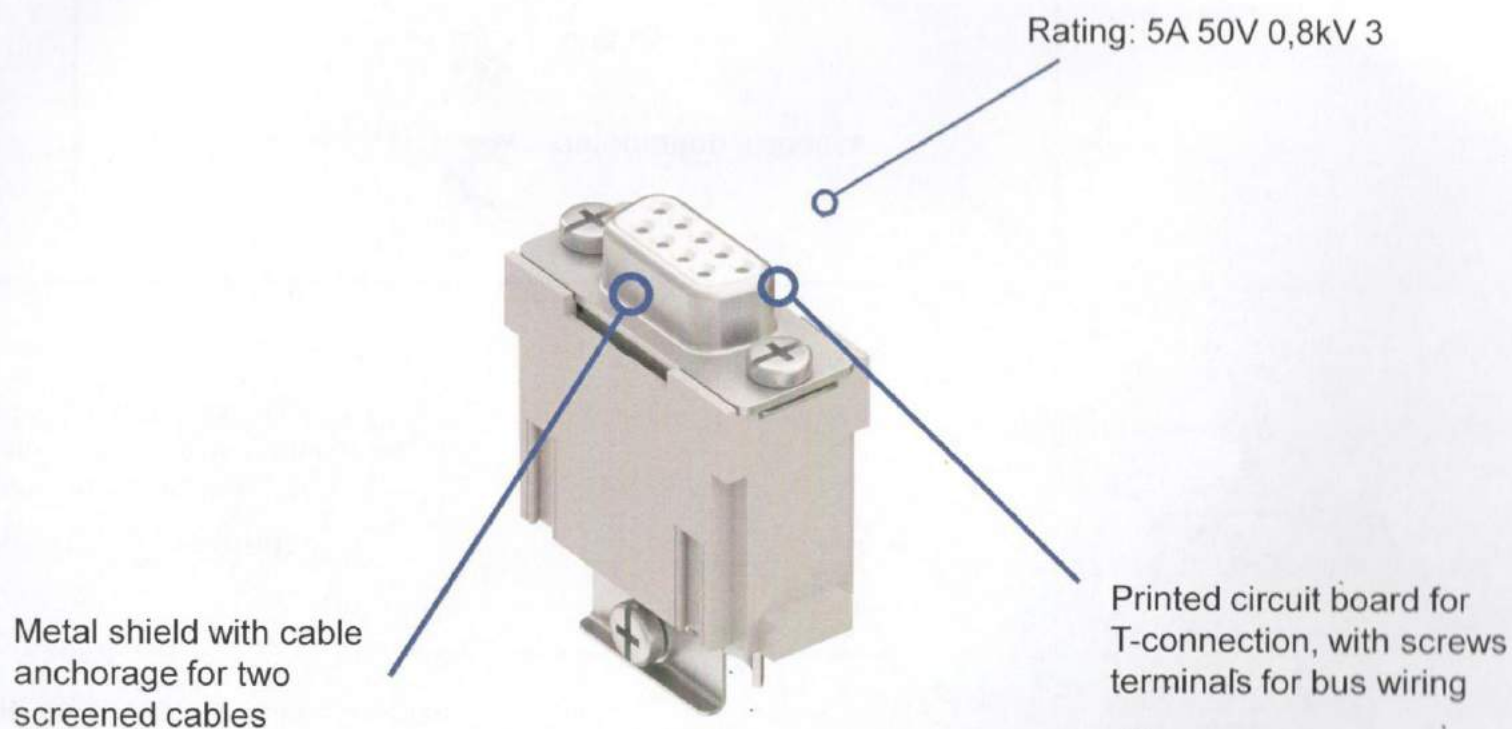
energy



Reason why

Mixo D-Sub female module

Zoom in on features and benefits



Features



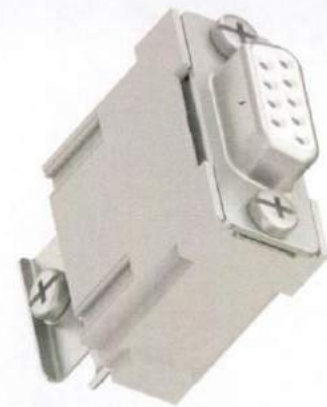
Mixo D-Sub female module



之前是空壳接, 现在要出零件连接

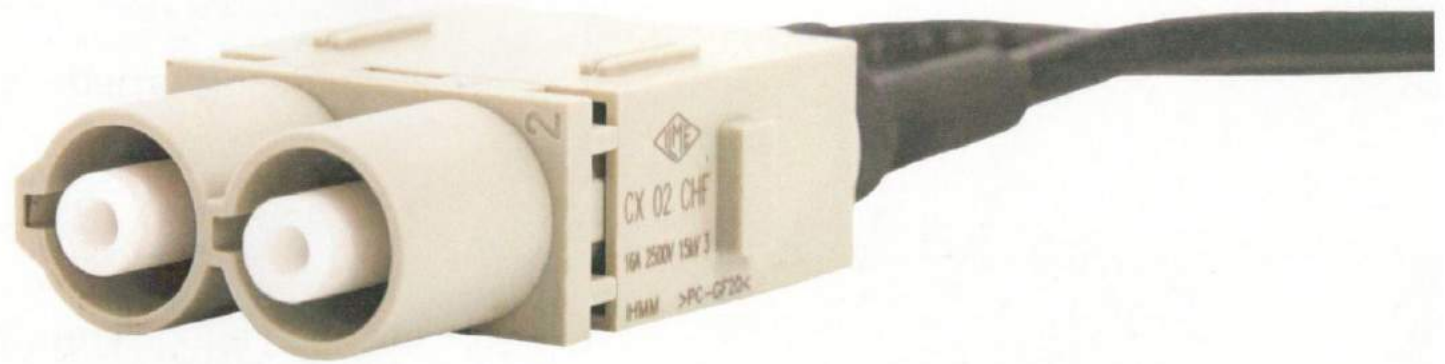
之前是 CX01 9VTF
CX01 9VM wire: 6mm² max

- ◉ Code: CX 01 9VTF, female
- ◉ Samples availability: April 2018
- ◉ Full availability at stock: June 2018
- ◉ Availability on EPLAN: November 2018
- ◉ Availability on Traceparts: November 2018
- ◉ Datasheet and Configurator on Ime website: June 2018
- ◉ Certifications: November 2018
- ◉ Subsidiary Purchasing Price: distributed to the Managing Directors
- ◉ Video Tutorial available on the USB key



In the market

Mixo High Tension module 2 poles 16 A - 2500 V



Mixo High Tension module 2 poles 16 A - 2500 V



Reason why

Original need:

Compact solution for high voltage needs: two contacts for AC or DC, 2500 V in a single module

Requested by: Skoda

Scope of the product:

⦿ more versatility in providing a single-sized solution for 2 poles HT

Main Applications:



automation



railway



Mixo High Tension module 2 poles 16 A - 2500 V



Zoom in on features and benefits

Features

Rating: 16 A 2500V 15kV 3

Special contact holders made of PTFE to provide outstanding high-voltage insulation

External module support made of glass fibre reinforced polycarbonate

2 power contacts per module

The module is provided also together with the heat shrinking tubes to finish the assembly.



Mixo High Tension module 2 poles 16 A - 2500 V

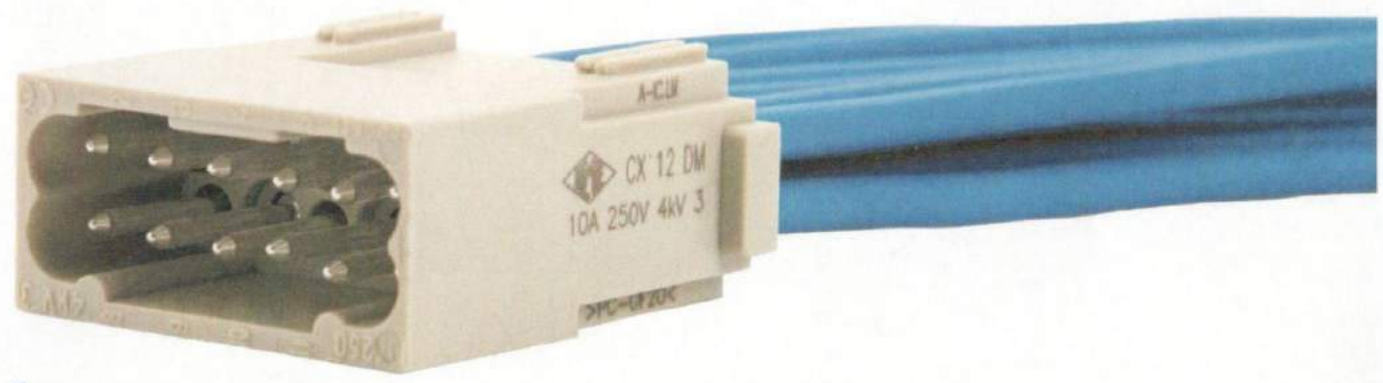


In the market

- ⊙ **Codes:** CX 02 CHF, female
CX 02 CHM, male
CH1ES, removal tool
- ⊙ **Samples availability:** April 2018
- ⊙ **Full availability at stock:** June 2018
- ⊙ **Availability on EPLAN:** November 2018
- ⊙ **Availability on Traceparts:** November 2018
- ⊙ **Datasheet and Configurator on Ilme website:** June 2018
- ⊙ **Certifications:** November 2018
- ⊙ **Subsidiary Purchasing Price:** distributed to the Managing Directors
- ⊙ **Video Tutorial** available on the USB key



Mixo 12 poles 10A - New rating 250V



Mixo 12 poles 10A - New rating 250V



Original need:

24 160V, 10A, PD3.

Improved voltage rating from 160 to 250V in Pollution Degree 3, to meet the market needs

Requested by: Ilme Japan, Ilme Germany

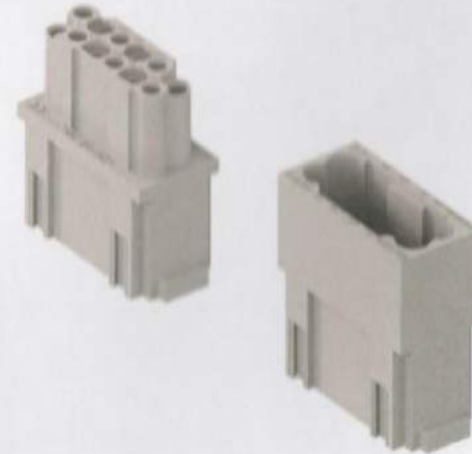
Scope of the product:

- ⊙ fit the voltage needs for the robotics applications
- ⊙ suitable as HNM insert together with RD crimp contacts

Main Applications:



robotics



Reason why

Mixo 12 poles 10A - New rating 250V



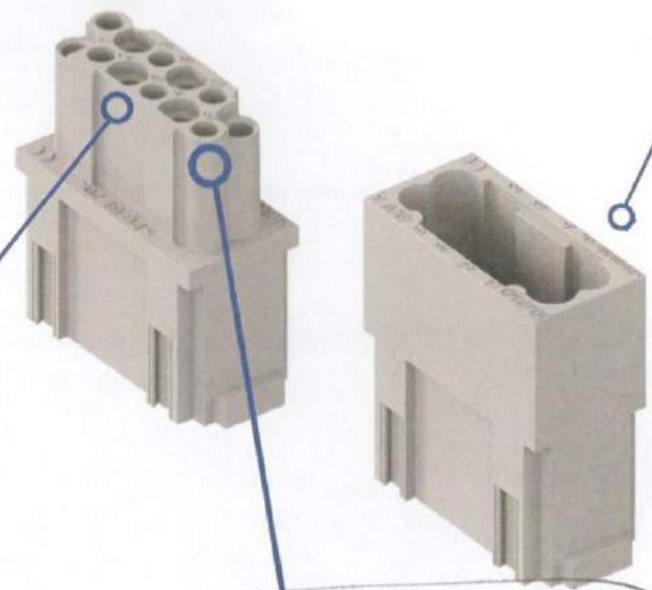
Features

Zoom in on features and benefits

Rating: 10A 250V 4kV 3

Crimp contacts CD series,
gold, silver or tin plated

also available HNM contacts
RD series, durable and
lubricated gold plating



Increased insulation distances to
suit a 250V rated voltage in PD 3

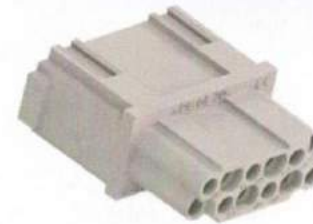
回上海需要一个四品规格. ??

Mixo 12 poles 10A - New rating 250V



In the market

- ◉ **Codes:** CX 12 DF, female
CX 12 DM, male
Article readily available with zip code «A-»



- ◉ **Samples availability:** January 2018
- ◉ **Full availability at stock:** January 2018
- ◉ **Availability on EPLAN:** November 2018
- ◉ **Availability on Traceparts:** February 2018
- ◉ **Datasheet and Configurator on Ime website:** January 2018
- ◉ **Certifications:** ongoing (no code change, improved features, backward compatible)
- ◉ **Subsidiary Purchasing Price:** distributed to the Managing Directors

POF contacts



POF contacts



Original need:

Fibre optic POF contacts mixed with electric contacts in the same insert

Requested by: Ilme Germany and Skoda

Scope of the product:

- ⊙ High transmission capacity and high bandwidth
- ⊙ Perfect electrical insulation
- ⊙ High data security (no EM fields involved)

Main Applications:



wind

railway

Made by a Germany supplier.



*优势：
可将数据装在CO2传输系统
插芯*

Reason why

POF contacts



Features

Zoom in on features and benefits



Connector inserts suitable for CL series contacts, POF Ø 1mm	
CDD series	CDDF/M 24; CDDF/M 42; CDDF/M 72, CDDF/M 72 N; CDDF/M 108; CDDF/M 108 N (not suitable for CDDF/M 38 /38 N)
CQ series	CQF/M 07; CQF/M 12; CQF/M 17
MIXO series	CX 12 DF/DM; CX 17 DF/DM
CX series	CXF/M 8/24; CXF/M 6/36; CXF/M 12/2 (number of cavities in bold)

Usable in connector inserts with contact cavities geometry of the CDD series, including some modules of the MIXO series and some inserts of the CQ series, according to the table.
Not to be used with CD series inserts.



POF contacts

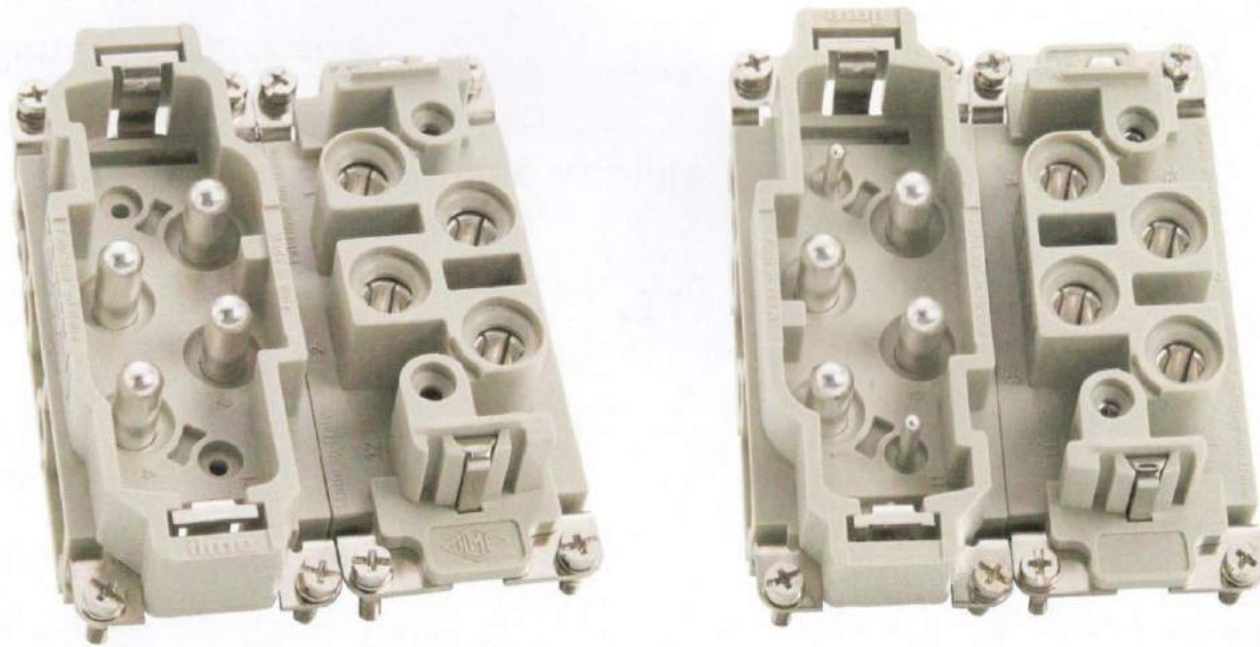


- ⦿ **Codes:** CLF DD, female
CLM DD, male
- ⦿ **Samples availability:** January 2018
- ⦿ **Full availability at stock:** February 2018
- ⦿ **Availability on EPLAN:** November 2018
- ⦿ **Availability on Traceparts:** November 2018
- ⦿ **Datasheet and Configurator on Ilme website:** February 2018
- ⦿ **Certifications:** not applicable
- ⦿ **Subsidiary Purchasing Price:** distributed to the Managing Directors
- ⦿ **Video Tutorial** available on the USB key



In the market

CX 4/0 and 4/2 inserts - new rating 830V



CX 4/0 and 4/2 inserts - new rating 830V



2700 690V

Original need:

Improved rating from 690 to 830V to meet the market needs

Requested by: Ilme Japan

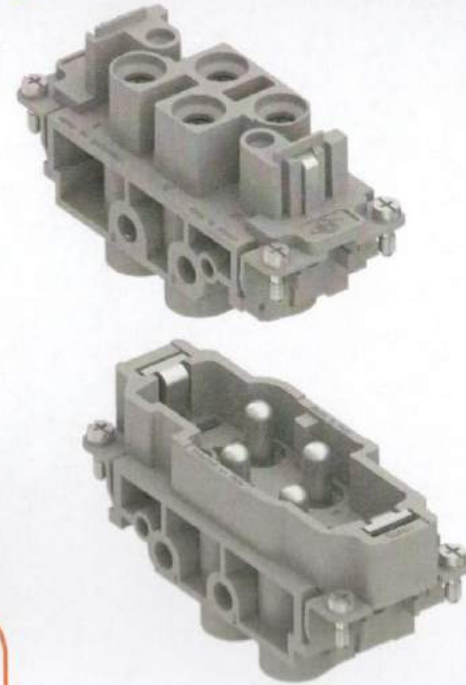
Scope of the product:

⊙ motor connection

Main Applications:



robotics



Reason why

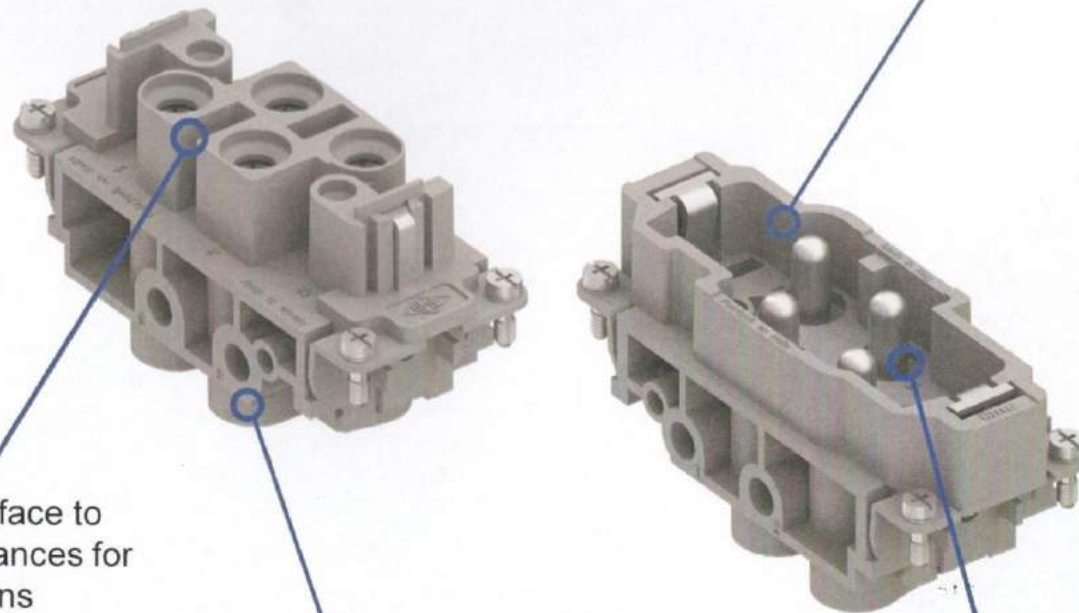
CX 4/0 and 4/2 inserts - new rating 830V



Zoom in on features and benefits

Features

Rating: 80A 830V 8kV 3
16A 400V 6kV 3



Reshape of the mating face to increase insulating distances for higher power applications

Screw terminal connection

Silver plated contacts

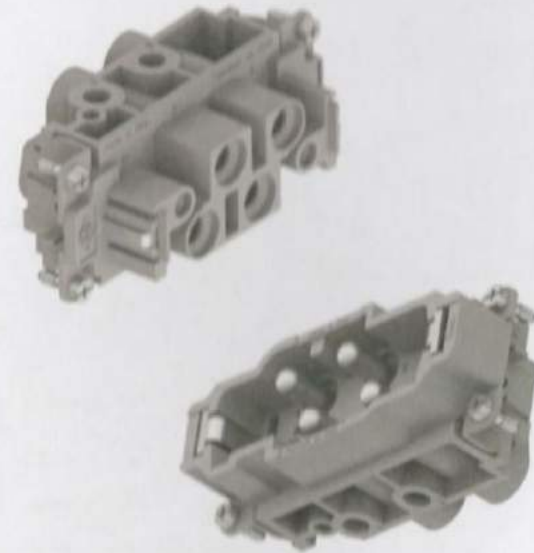
CX 4/0 and 4/2 inserts - new rating 830V



- Codes:**
- CXF 4/0, female
 - CXM 4/0, male
 - CXF 4/2, female
 - CXM 4/2, male

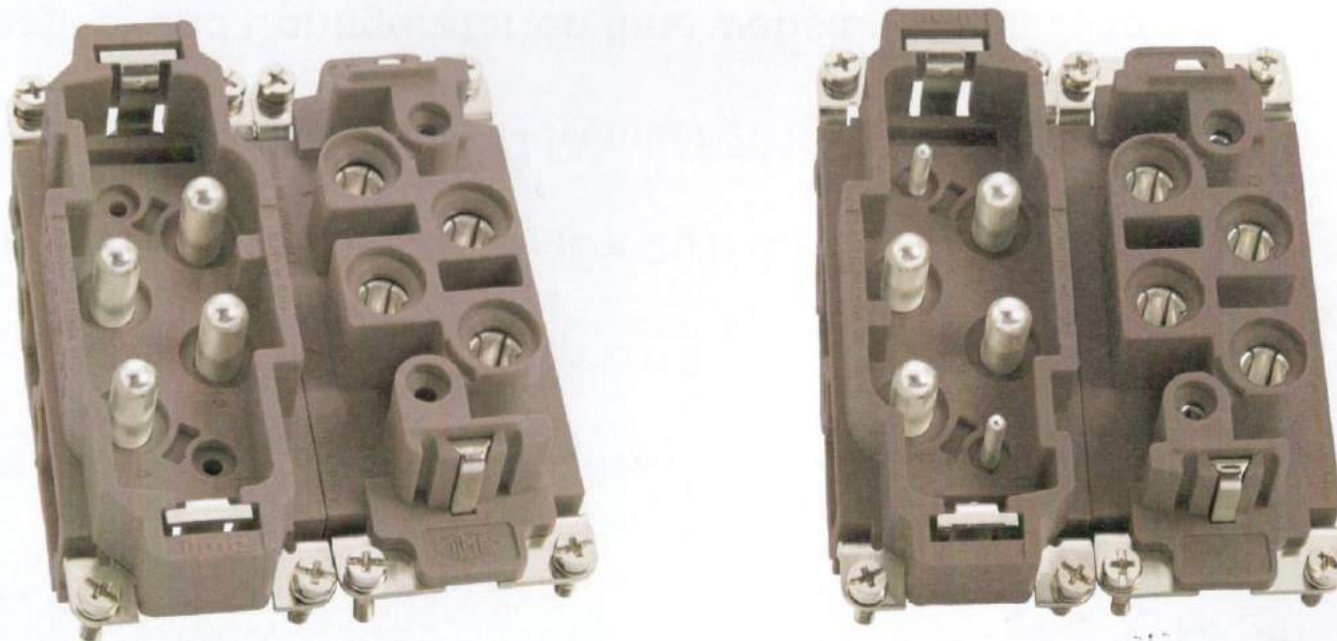
Article available with zip code «R-»

- ⊙ **Samples availability:** January 2018
- ⊙ **Full availability at stock:** March 2018
- ⊙ **Availability on EPLAN:** November 2018
- ⊙ **Availability on Traceparts:** November 2018
- ⊙ **Datasheet and Configurator on Ilme website:** March 2018
- ⊙ **Certifications:** Ongoing (improved rating, backward compatible)
- ⊙ **Subsidiary Purchasing Price:** distributed to the Managing Directors



In the market

CX 4/0 and 4/2 inserts PPS - new rating 830V



CX 4/0 and 4/2 inserts PPS - new rating 830V



Reason why

Original need:

High power connector for high ambient temperature

Improved rating from 690 to 830V to meet the market needs

Our proposal

27M 690V

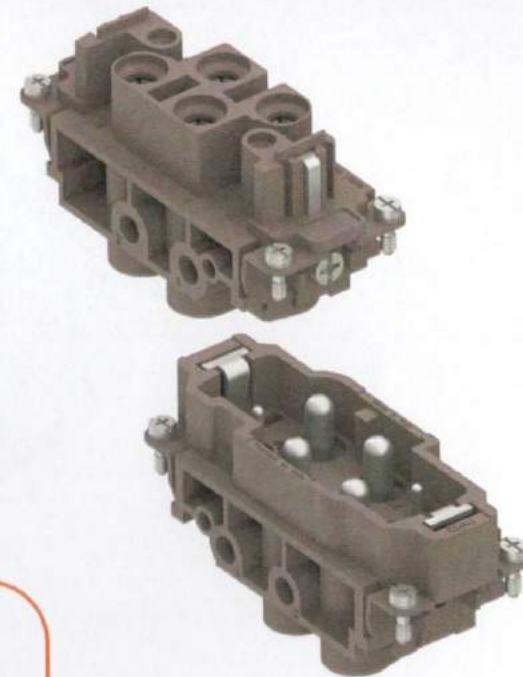
Scope of the product:

- ⊙ PPS provides up to 180 °C thermal resistance
- ⊙ Suitable for power line applications
- ⊙ Suitable for installation with R-Type housings in proximity of heat sources (moulds, ovens, furnaces, etc ...)

Main Applications:



automation

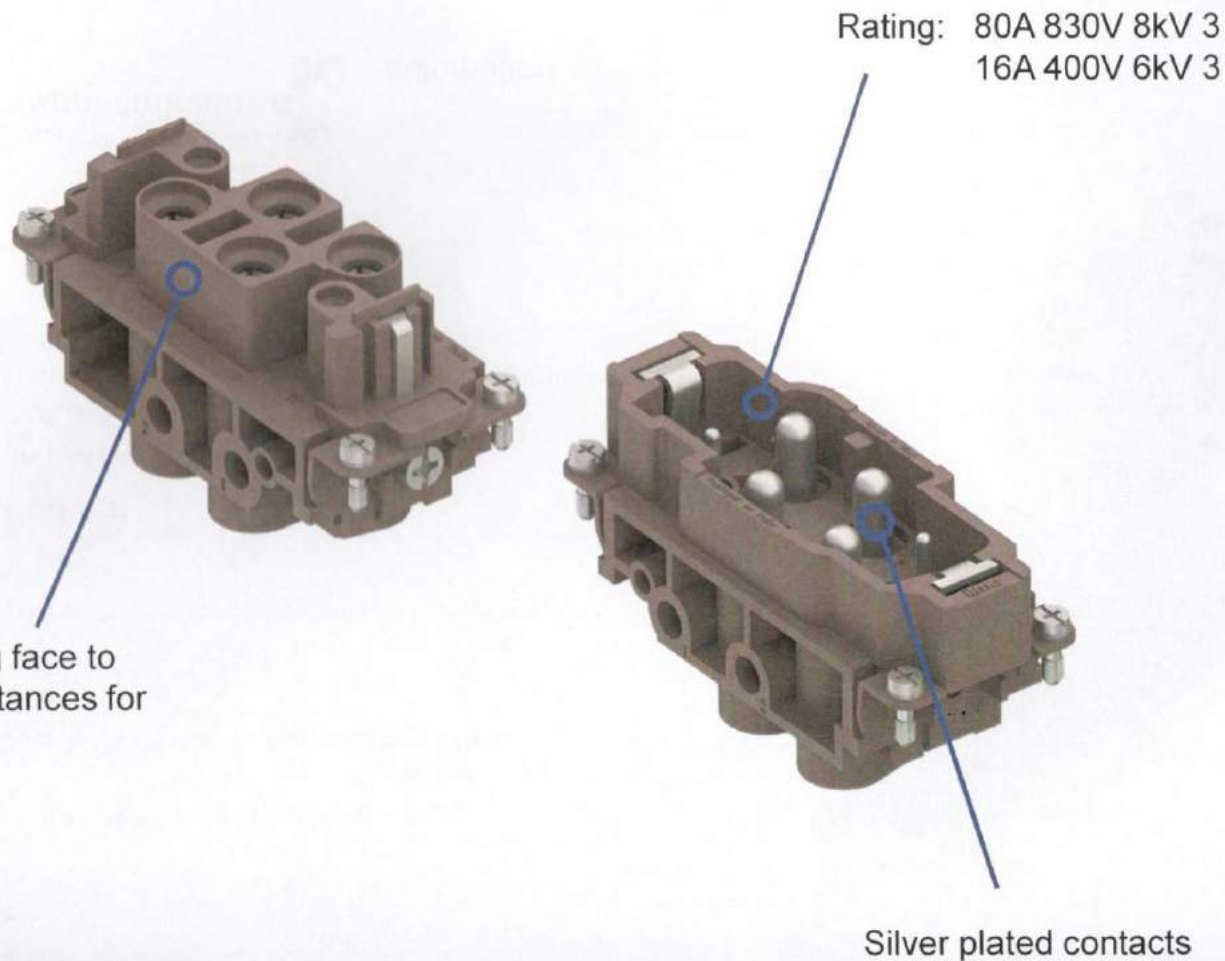


CX 4/0 and 4/2 inserts PPS - new rating 830V



Zoom in on features and benefits

Features



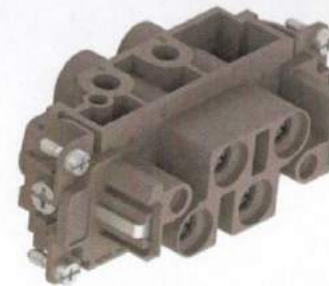
CX 4/0 and 4/2 inserts PPS - new rating 830V



- ⊙ **Codes:** CXF 4/0 RY, female
- ⊙ CXM 4/0 RY, male
- ⊙ CXF 4/2 RY, female
- ⊙ CXM 4/2 RY, male

Ilme exclusive

Article available with zip code «R-»



In the market

- ⊙ **Samples availability:** April 2018
- ⊙ **Full availability at stock:** April 2018
- ⊙ **Availability on EPLAN:** November 2018
- ⊙ **Availability on Traceparts:** November 2018
- ⊙ **Datasheet and Configurator on Ilme website:** April 2018
- ⊙ **Certifications:** ongoing (improved voltage rating, backward compatible, no code change)
- ⊙ **Subsidiary Purchasing Price:** distributed to the Managing Directors

PCB adapter for CQ 08 inserts



PCB adapter for CQ 08 inserts



Original need:

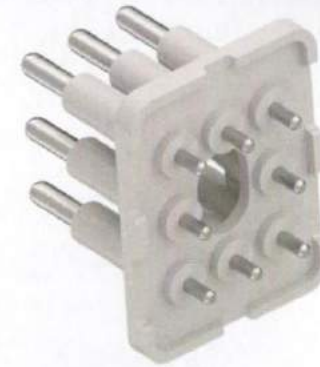
Allow cable to board connection with industrial heavy-duty connector inserts for power electronic or signal applications to reduce wiring costs (where «large numbers» justify a PCB design)

Requested by: Ilme Japan

Scope of the product:

- ⊙ for printed circuit board applications
- ⊙ low wiring cost and minimized connecting time
- ⊙ minimize downtime in case of maintenance (i.e. due to a failure in the PCB)

Main Applications:  automation



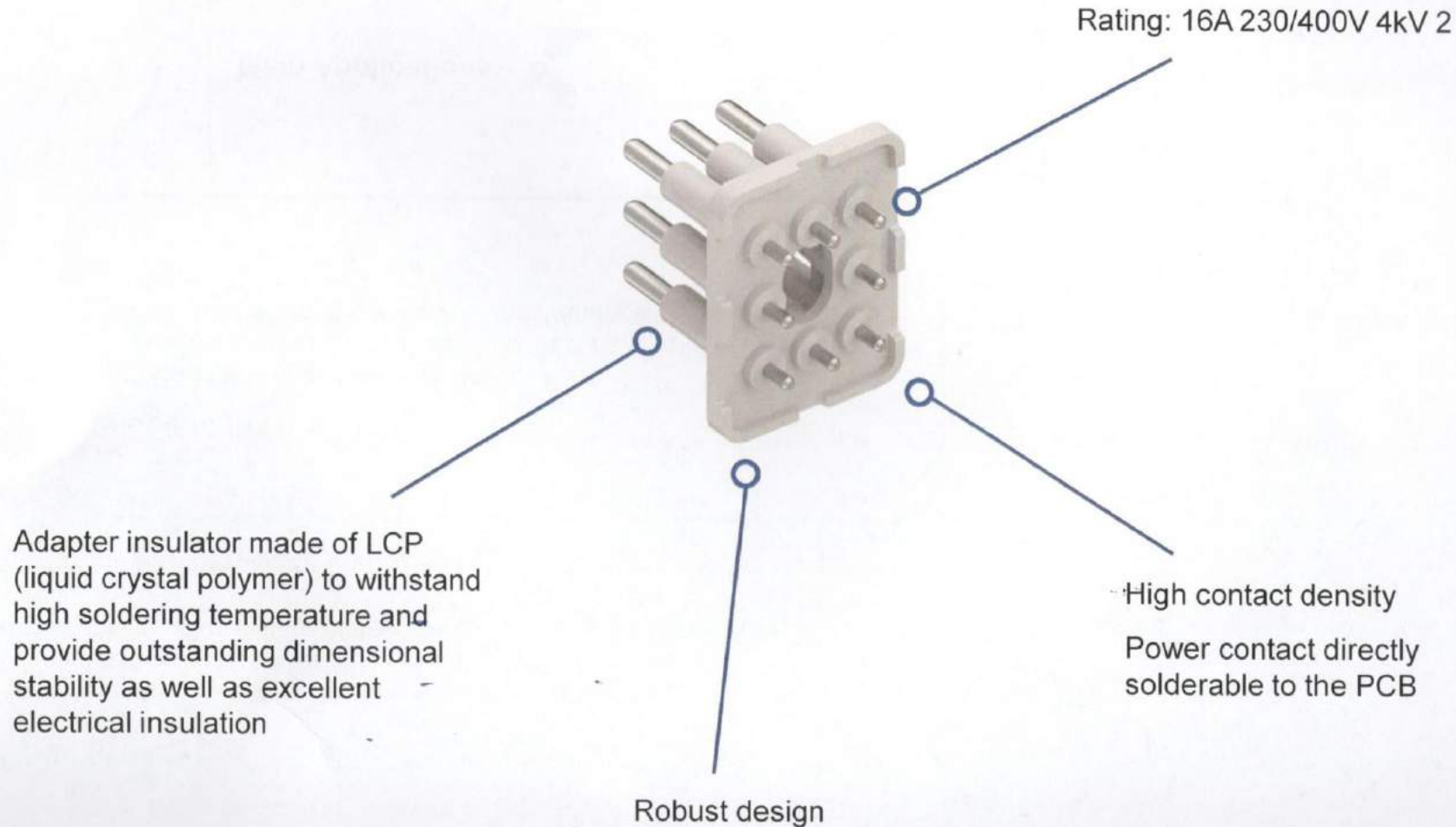
Reason why

PCB adapter for CQ 08 inserts



Features

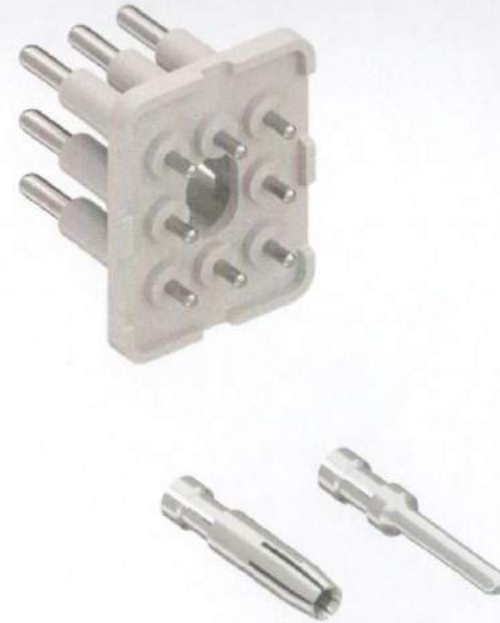
Zoom in on features and benefits



PCB adapter for CQ 08 inserts

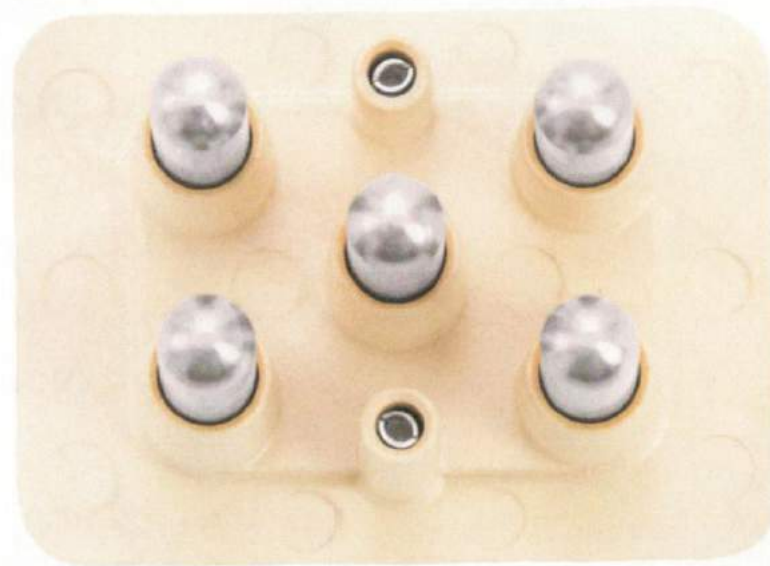


- ◉ **Codes:** CIF Q08 1.6
CCFFA, 16A female contact
CCMFA, 16A male contact
- ◉ **Samples availability:** July 2018
- ◉ **Full availability at stock:** September 2018
- ◉ **Availability on EPLAN:** November 2018
- ◉ **Availability on Traceparts:** November 2018
- ◉ **Datasheet and Configurator on Ilme website:** September 2018
- ◉ **Certifications:** if required (CIF on the market since 5/1999 with no third party approval)
- ◉ **Subsidiary Purchasing Price:** distributed to the Managing Directors



In the market

PCB adapter for CQ 04/2 inserts



PCB adapter for CQ 04/2 inserts



Original need:

Allow cable to board connection with industrial heavy-duty connector inserts for power electronic or signal applications to reduce wiring costs (where «large numbers» justify a PCB design)

Requested by: Ilme Japan

Scope of the product:

- ⊙ for printed circuit board applications
- ⊙ low wiring cost and minimized connecting time
- ⊙ minimize downtime in case of maintenance (i.e. due to a failure in the PCB)

Applications:



automation



Reason why

PCB adapter for CQ 04/2 inserts



Features

Zoom in on features and benefits

Rating: 30A 400/690V 6kV 2
7,5A 250V 4kV2



Adapter insulator made of LCP (liquid crystal polymer) to withstand high soldering temperature and provide outstanding dimensional stability as well as excellent electrical insulation

Robust design

High contact density
Power contact directly solderable to the PCB

PCB adapter for CQ 04/2 inserts



- ◉ **Codes:** CIF Q4/2 2.4
CDDFA 6A28 - 7,5A female contact
CDMA 6A - 7,5A male contact *
CXFFA, 40A female contact
CXMFA, 40A male contact
* already available on CN 16 catalogue



In the market

- ◉ **Samples availability:** July 2018
- ◉ **Full availability at stock:** September 2018
- ◉ **Availability on EPLAN:** November 2018
- ◉ **Availability on Traceparts:** November 2018
- ◉ **Datasheet and Configurator on Ilme website:** September 2018
- ◉ **Certifications:** if required (CIF on the market since 5/1999 with no third party approval)
- ◉ **Subsidiary Purchasing Price:** distributed to the Managing Directors

CKA ... IA4 Enclosures - metallic, Class and rigid lever versions



CKA ... IA4 Enclosures - metallic, Class and rigid lever versions



Original need:

Meet the market need for angled fixed metal enclosures that fit the «21.21» inserts, a range of products under strong development, above all for larger wire size or wire bundle size.

Offer 3 locking lever solutions: Class (stainless steel, resilient with rolls) and rigid, either galvanized steel or stainless steel

Range completion with also **S-Type** (EMC) and **W-Type** versions

Requested by: Ilme Japan

Scope of the product:

- allow a 4 wires passage for 40A, CQ4 inserts

Main Applications:



automation, robotics

Stainless steel lever (Class)



RIGID lever in galvanized steel



RIGID lever in stainless steel



Reason why

CKA ... IA4 Enclosures - metallic, Class and rigid lever versions

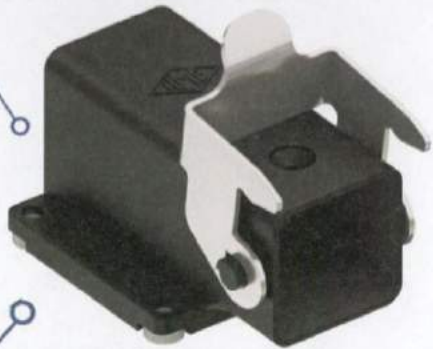


Features

Zoom in on features and benefits

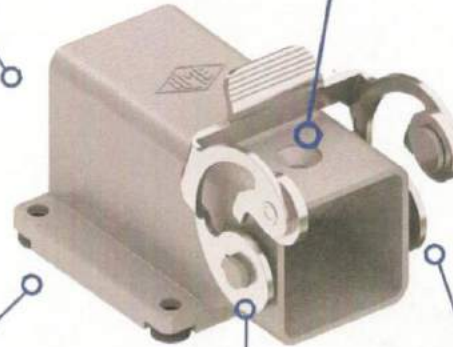
Raised axis in order to allow mating with M25 equipped hoods without interference with mounting surface

Higher than standard to allow more internal room



Stronger flange thanks to the 4 fixing screws, suitable for 90° rotation by the square design

Longer body to house longer inserts and allow larger bending space for wires of higher gauge



IP66 / IP67 by using CKR 65 kit screw + gasket (CKR 65 D for CD 08)

More space for wires, up to Ø 18mm

Class design, resilient and with roller locking lever for very frequent operations

New gasket, captively built-in, trouble-free during assembly



Rigid galvanized steel or stainless steel locking lever for higher stiffness (higher cable loads)

Easily replaceable design for lever fixing

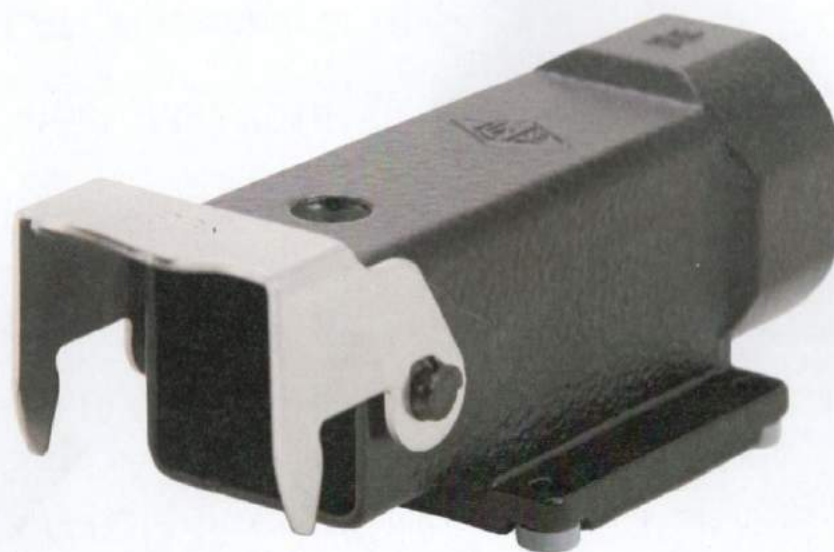


CKA ... IA4 Enclosures - metallic, Class and rigid lever versions

- ⊙ **Codes:** CKAX 03 IA4 (lever in stainless steel)
CKA 03 IA4 (rigid lever in galvanized steel)
CKAXX 03 IA4 (rigid lever in stainless steel)
CKAXW 03 IA4 (W-type version, lever in stainless steel)
CKAXXW 03IA4 (W-type version, rigid lever in stainless steel)
CKAXS 03 IA4 (EMC version, lever in stainless steel)
CKAS 03 IA4 (EMC version, rigid lever in galvanized steel)
CKAXXS 03IA4 (EMC version, rigid lever in stainless steel)
- } Ilme exclusive

- ⊙ **Samples availability:** February 2018
- ⊙ **Full availability at stock:** May 2018
- ⊙ **Availability on EPLAN:** November 2018
- ⊙ **Availability on Traceparts:** November 2018
- ⊙ **Datasheet and Configurator on Ilme website:** May 2018
- ⊙ **Certifications:** November 2018
- ⊙ **Subsidiary Purchasing Price:** distributed to the Managing Directors

MKA ... AP25/IAP25 Enclosures - metallic, Class and rigid lever versions



MKA ... AP25/IAP25 Enclosures - metallic, Class and rigid lever versions



Reason why

Original need:

Meet the market need for metallic fixed angled enclosures that fit the 21.21 inserts, a range of products under strong development, with possible straight cable outlet for thick cable bundle.

Range completion with also **S-Type** and **W-Type** versions

Requested by: Ilme Nordic

Scope of the product:

- ⊙ allow a 4-wire 10mm² / 8 AWG passage for 40A or thick wire bundle (i.e. for CQ 21) through an M25 cable entry
- ⊙ offer all possible locking levers solutions (Class, stainless steel resilient with rollers, or rigid, either galvanized steel or stainless steel)

Main Applications:



automation

railway

Stainless steel lever (Class)



RIGID lever in galvanized steel



RIGID lever in stainless steel

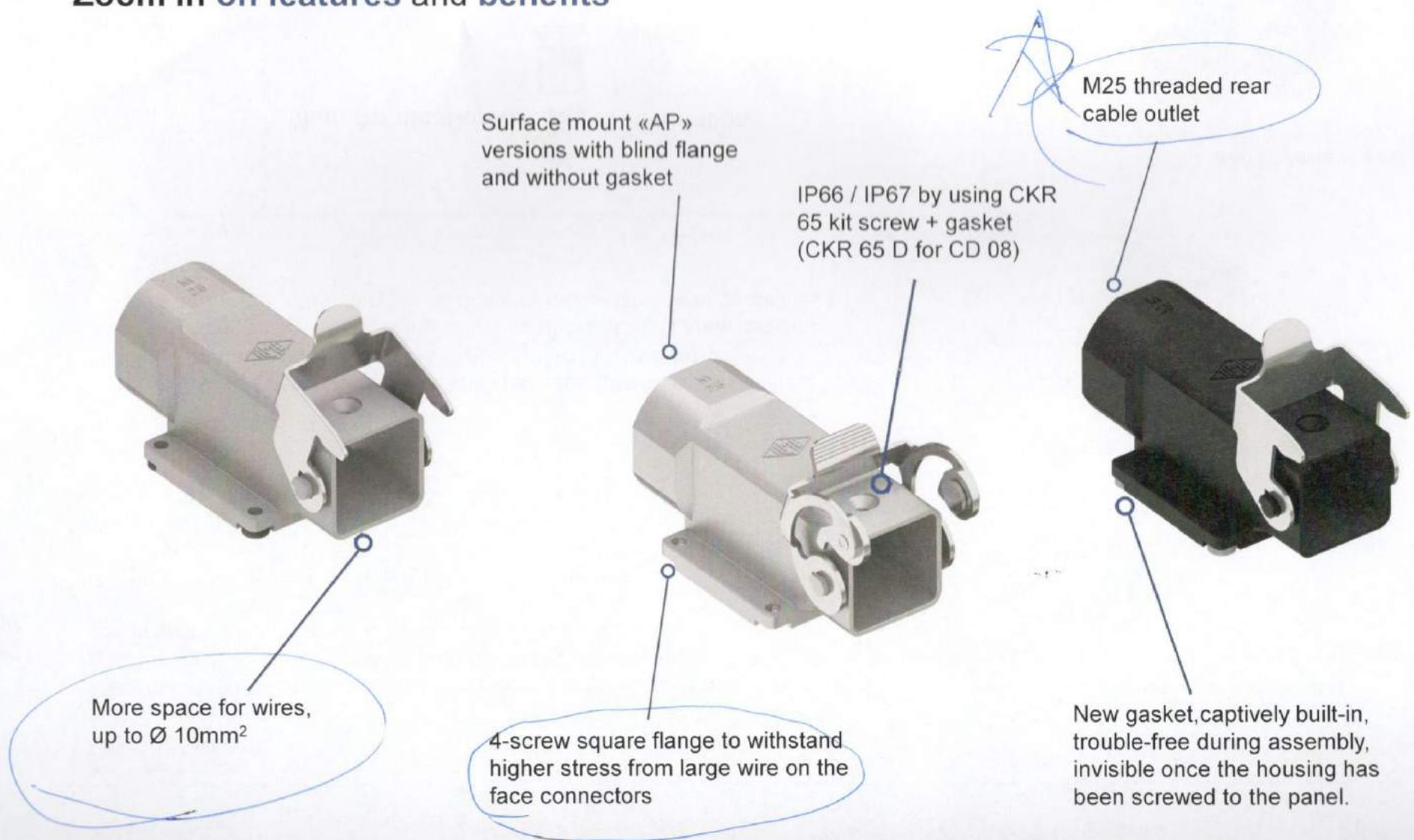


MKA ... AP25/IAP25 Enclosures - metallic, Class and rigid lever versions



Features

Zoom in on features and benefits



MKA ... AP25/IAP25 Enclosures - metallic, Class and rigid lever versions



In the market

- ④ **Codes:** MKAX IAP25 (Class lever in stainless steel)
MKAX AP25 (Class lever in stainless steel, flange closed)
MKA IAP25 (rigid lever in galvanized steel)
MKA AP25 (rigid lever in galvanized steel, flange closed)
MKAXX IAP25 (rigid lever in stainless steel)
MKAXX AP25 (rigid lever in stainless steel, flange closed)

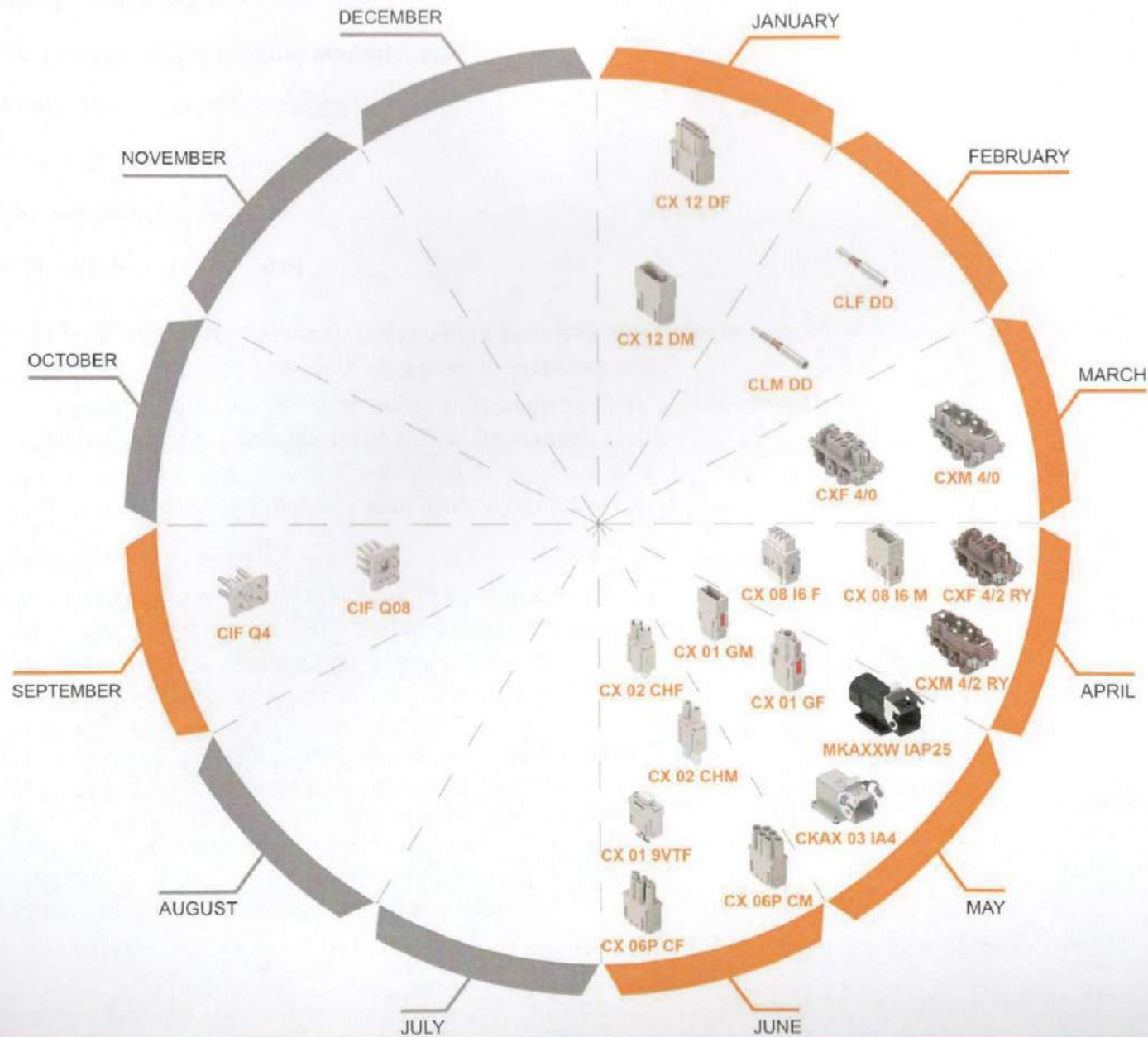
MKAXW IAP25 (W-type version, Class lever in stainless steel)
MKAXW AP25 (W-type version, Class lever in stainless steel, flange closed)
MKAXXW IAP25 (W-type version, rigid lever in stainless steel)
MKAXXW AP25 (W-type version, rigid lever in stainless steel, flange closed)

MKAXS IAP25 (EMC version, Class lever in stainless steel)
MKAXS AP25 (EMC version, Class lever in stainless steel, flange closed)
MKAS IAP25 (EMC version, rigid lever in galvanized steel)
MKAS AP25 (EMC version, rigid lever in galvanized steel, flange closed)
MKAXXS IAP25 (EMC version, rigid lever in stainless steel)
MKAXXS AP25 (EMC version, rigid lever in stainless steel, flange closed)

Ilme exclusive

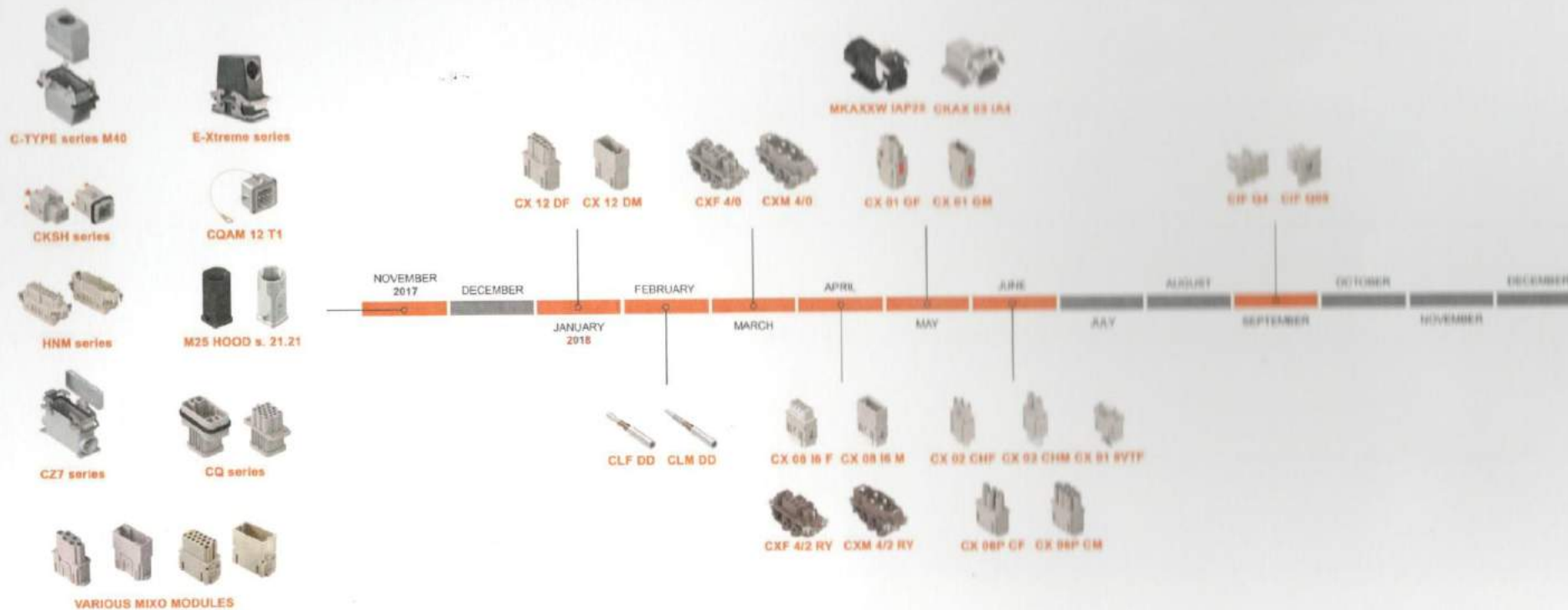
- ④ **Samples availability:** February 2018
- ④ **Full availability at stock:** May 2018
- ④ **Availability on EPLAN:** November 2018
- ④ **Availability on Traceparts:** November 2018
- ④ **Datasheet and Configurator on Ilme website:** May 2018
- ④ **Certifications:** November 2018
- ④ **Subsidiary Purchasing Price:** distributed to the Managing Directors

2018 Products Availability





2017 + 2018 Products Availability





Thanks for Your Participation

