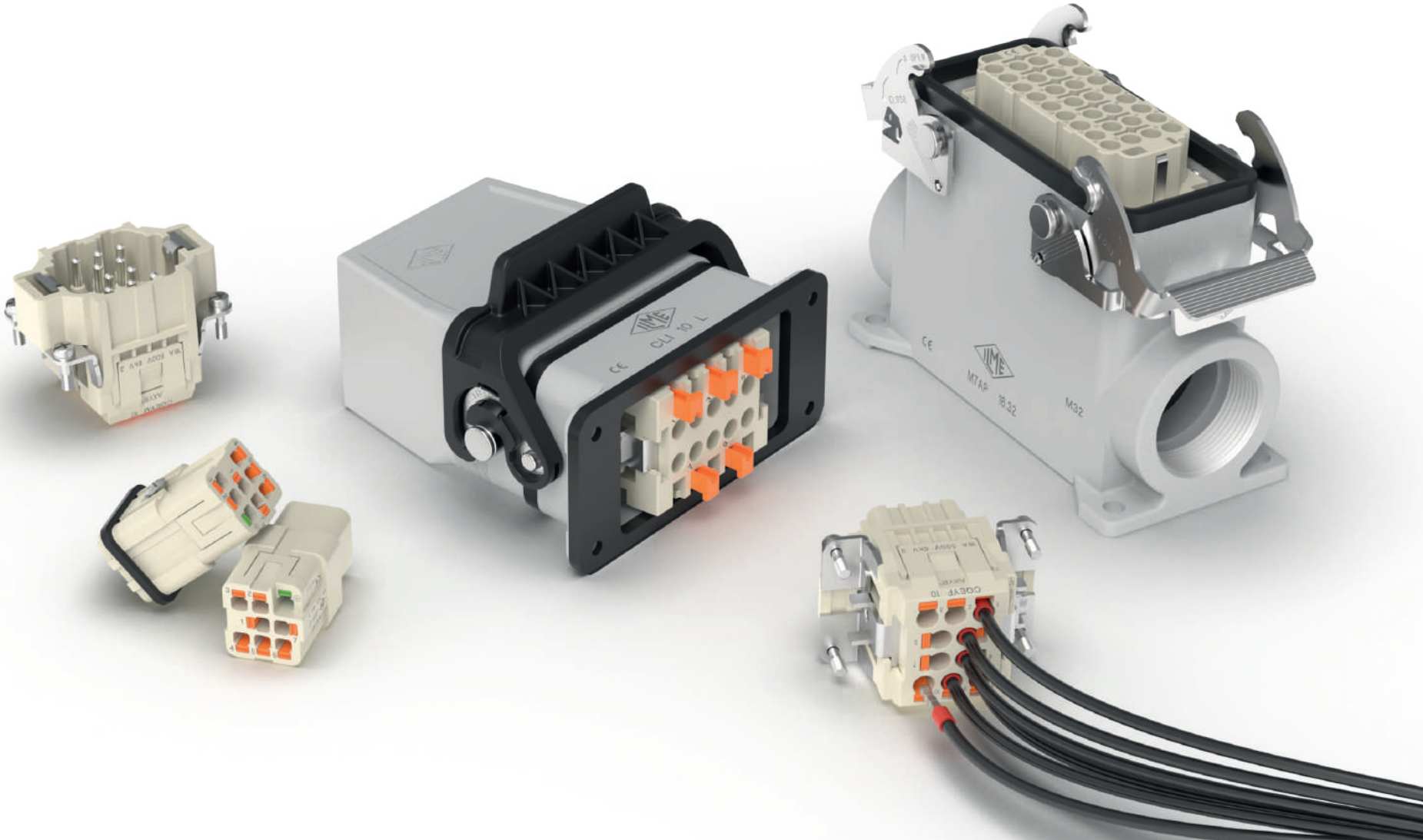
Industrial automation

catalogues

QUICK GUIDE

Standard Setups



DISCLAIMER

The information provided in this Quick Guide is valid as of the date of publication.
Updated information can be found online at **https://www.ilme.com:**

- by checking the relevant section of the ILME website for the latest version of the following Quick Guide;
- by consulting the technical data sheet of the specific product online;
- by checking the latest certifications available for download.

Technical data sheets
to get all the information
about our products

Enter Configurator
to find the solution that best suits
your technical requirements

Applications Pages
focused on the installation areas,
the requirements of each sector
and the technical details

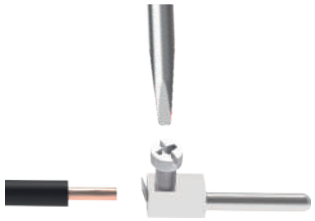
Certifications Area
for information and documentation
on declarations of conformity

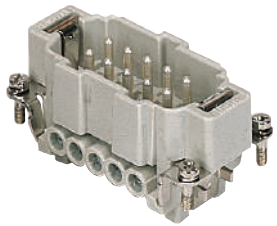
QUICK GUIDE – STANDARD SETUPS

This guide arises from the need to provide a sales force support tool, simplifying the choice and combination of ILME products for automation and industrial installations. This guide is intended as an aid for choosing standard connector setups and is therefore not exhaustive of all products in the ILME range. Images are shown just as examples of the products, for all further information reference should be made to the full technical catalogue.

CONTENTS – CONNECTORS

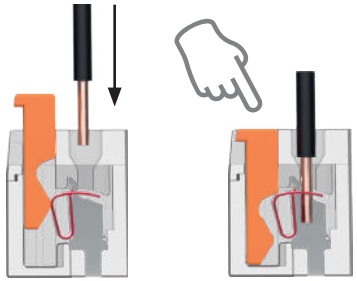
SCREW

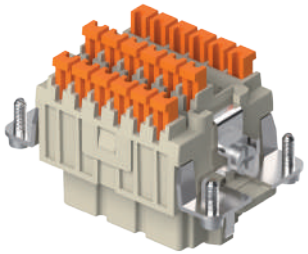




- A normal screwdriver is sufficient
- For the recommended tightening torque refer to the General Catalogue

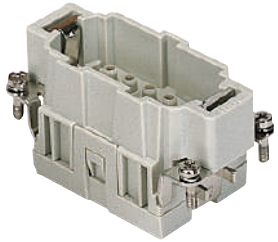
SQUICH®





- Tool-less wiring
- Easy, fast and secure connection
- High vibration resistance
- Possibility of wiring even very thin cables (min. wire cross-sectional area 0.14 mm²)

CRIMP



- Maximum electrical and mechanical performance even in the presence of strong vibrations (e.g. railway, wind, robotics, etc.)
- Maximum contact density
- Wide range of contact sizes available for purchase separately
- Possibility of wiring even very thin cables (min. wire cross-sectional area 0,14 mm² for CD and CC contacts; 0,08 mm² for CI contacts)

The use of our approved tools is recommended for crimping.

AXYR®

- New AXYR® push-in technology
- High resistance to mechanical stresses and vibrations
- Covers a wide range of wire cross-sectional area
- Suitable for rigid and ferrured stranded wires or for unprepared stranded wires

Prepared wire

1

Deeply insert the ferruled wire into the contact hole

2

The wire is safely secured by the spring clamp

Unprepared wire

1

Push down the actuator button by a flat-blade screwdriver, insert the stranded wire into the contact hole

2

The wire is safely secured by the spring clamp

Without the use of crimping tools		No. of poles	Current (A)* Voltage (V)	Male	Female	Coding pins		
						CR K03	CR K04R	CR K04G
	Screw	3 + ⏚	10 A – 230/400 V	**CKM 03** **CKM 03 N** (black)	**CKF 03** **CKF 03 N** (black)			
		4 + ⏚		**CKM 04** **CKM 04 N** (black)	**CKF 04** **CKF 04 N** (black)			
	SQUICH®	3 + ⏚	10 A – 400 V	**CKSHM 03**	**CKSHF 03**			
		4 + ⏚		**CKSHM 04**	**CKSHF 04**			
	AXYR®	5 + ⏚	16 A – 230/400 V	**CQYM 05**	**CQYF 05**			
		7 + ⏚ **	10 A – 250 V	**CDYM 07**	**CDYF 07**			
		8	10 A – 50 V_{AC} / 120 V_{DC}	**CDYM 08**	**CDYF 08**			

* The operating current depends on the operating ambient temperature and the number of loaded poles. See load derating diagrams

** With insulating hoods only

With the use of crimping tools		No. of poles	Current (A)* Voltage (V)	Male	Female	Coding pins						
						CR CPQ	CR QF/M 07	CR CP	CR Q12	CR Q02	CR Q03	CR Q03/2
	Crimp	7 poles + ⏚**	10 A – 250 V	CDM 07	CDF 07							
		8 poles	10 A – 50 V	CDM 08	CDF 08							
		2 poles + ⏚	40 A – 400 V	CQ4M 02	CQ4F 02							
		3 poles+ ⏚	40 A – 400 V	CQ4M 03	CQ4F 03							
		3 + 2 poles + ⏚	40 A – 400 V 10 A – 250 V	CQ4M 03/2	CQ4F 03/2							
		5 poles + ⏚	16 A – 230/400 V	CQM 05	CQF 05							
		7 poles + ⏚	10 A – 400 V	CQM 07	CQF 07							
		12 poles + ⏚	10 A – 400 V	CQM 12	CQF 12							
		21 poles	6,5 A – 50 V_{AC} / 120 V_{DC}	CQM 21	CQF 21							

Crimp contacts			Crimping tools
Current	Male	Female	
5 A	**CIMA** (silver) **CIMD** (gold)	**CIFA** (silver) **CIFD** (gold)	**CIPZ D + CITP D**
10 A	**CDMA** (silver) **CDMD** (gold)	**CDFA** (silver) **CDFD** (gold)	**CCPZ TP** **CCPZ MIL + CCTP 10** **CCPZ RN**
16 A	**CCMA** (silver) **CCMD** (gold)	**CCFA** (silver) **CCFD** (gold)	**CCPZ TP** **CCPZ MIL + CCTP 16** **CCPZ RN**
40 A	**CXMA** (silver)	**CXFA** (silver)	**CCPZ RN**

For pictures of contacts and crimping tools refer to page 19

To complete the contact part number add the wire cross sectional area (e.g. CDMA 1.0 = 1 mm²)

* The operating current depends on the operating ambient temperature and the number of loaded poles. See load derating diagrams

** With insulating hoods only

Insulating enclosures

Bulkhead mounting

Straight

CK 03 I
CK 03 IN (black)

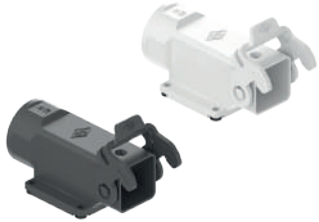
Angled

CK 03 IA
CK 03 IAN (black)

CK 03 IA4
CK 03 IA4N (black)

Angled with cable entry

CK 03 IAPS
CK 03 IAPNS (black)
MK IAP20
MK IAPN20 (black)



MK IAP25
MK IAPN25 (black)

Hoods

Straight

CK 03 VS
CK 03 VNS (black)
MK V20
MK VN20 (black)

MK V25
MK VN25 (black)

Angled

CK 03 VAS
CK 03 VANS (black)
MK VA20
MK VAN20 (black)

MK VA25
MK VAN25 (black)

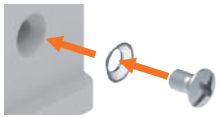
Hoods with lever

For free connector coupling

MK VG20
MK VGN20 (black)

MK VG25
MK VGN25 (black)

Kit for degree of protection IP66 / IP67 / IP69 (EN 60529)



CKR 65

Some receptacle series are already fitted with kits for IP66/IP67/IP69
For more details refer to the general catalogue

Part numbers for enclosures with cable entry are shown in normal text for Pg threads **and in bold text for metric threads**

Metallic

Bulkhead mounting

Straight

CKA 03 I*
CKAX 03 I**

Straight with fixing thread

MKA IF*
MKAX IF**

Angled

CKA 03 IA*
CKAX 03 IA**

Angled with fixing thread

MKA IAF20*
MKA IAF25*
MKAX IAF20**
MKAX IAF25**

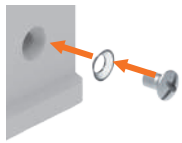
Angled with cable entry

with open bottom flange	with closed bottom flange
CKA 03 IAPS* CKAX 03 IAPS** **MKA IAP20*** **MKA IAP25*** **MKAX IAP20**** **MKAX IAP25****	CKA 03 APS* CKAX 03 APS** **MKA AP20*** **MKA AP25*** **MKAX AP20**** **MKAX AP25****

Straight with self-closing cover

CKA 03 ILS*■
CKA 03 ILSA*■
CKAX 03 ILS■**
CKAX 03 ILSA■**

Kit for degree of protection IP66 / IP67 / IP69 (EN 60529)



CKR 65
Some receptacle series are already fitted with kits for IP66 / IP67 / IP69
For more details refer to the general catalogue.

Hoods

Straight

CKA 03 VS
MKA V20
MKA V25

Angled

CKA 03 VAS
MKA VA20
MKA VA25

Hoods with lever

for free connector coupling

CKA 03 VGS*
CKAX 03 VGS**
MKA VG20*
MKA VG25*
MKAX VG20**
MKAX VG25**

* Galvanized lever (RIGID)
** Stainless steel lever (C-TYPE)
■ ILS for female inserts – ILSA for male inserts
Part numbers for enclosures with cable entry are shown in normal text for Pg threads **and in bold text for metric threads**

Accessories for enclosures - size 21.21

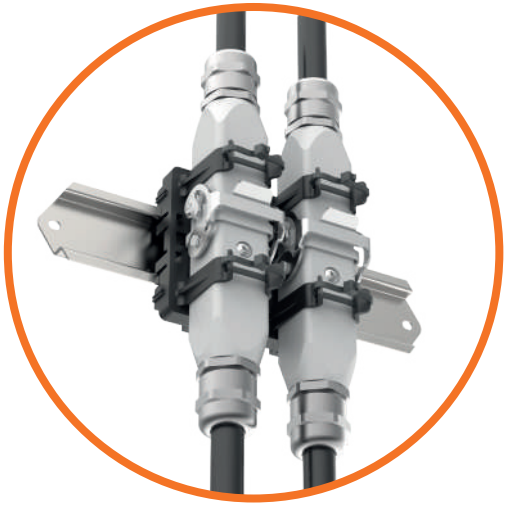
Coding system for enclosures size 21.21					
Clips for levers	Suitable for thermoplastic levers and rigid metal levers only				
		CR 03 CKR	CR 03 CKB	CR 03 CKG	CR 03 CKN
Rings for cable glands					
	Pg 11	CR 03 C11R	CR 03 C11B	CR 03 C11G	CR 03 C11N
	M20	CR 03 C20R	CR 03 C20B	CR 03 C20G	CR 03 C20N
	M25	CR 03 C25R	CR 03 C25B	CR 03 C25G	CR 03 C25N

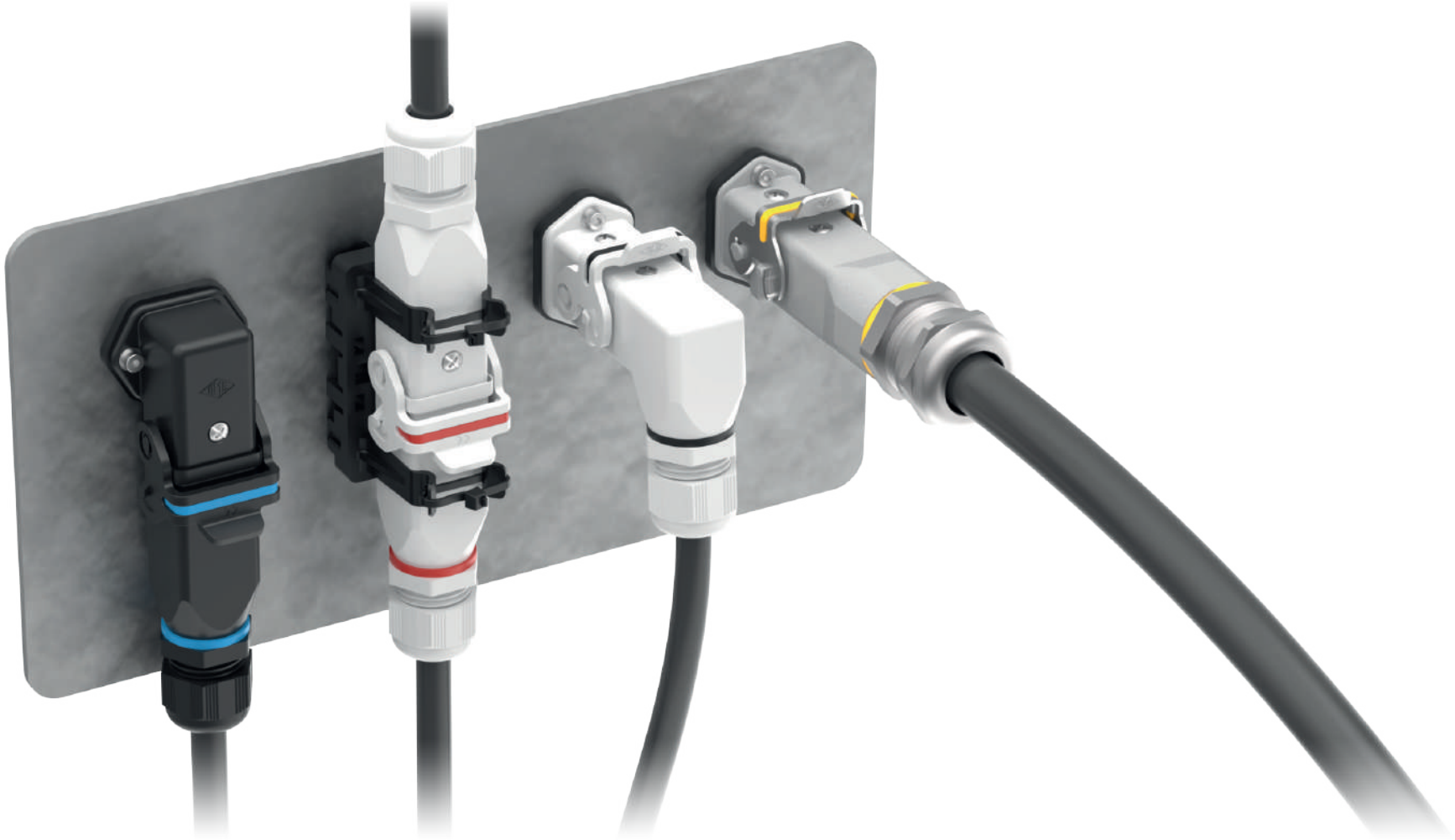
CR CKT

Fixing frame for size 21.21 complete free connector coupling.

Suitable for all 21.21 series hoods.

(Supplied with 2× black cable ties)





Solutions for enclosures size 21.21

Female adapter – Cat 6_A

CJK 8FT*
(female-female
for male
plugs RJ45)

CJK 8IFT*
(insulation
displacement
wiring T568A)

Male with insulation displacement wiring – Cat 6_A

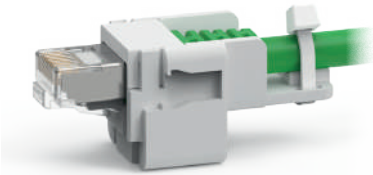
CX 8 J6IM*
+
CJK 8IMT**

Male crimp – Cat 6_A

CX 8 J6M
CJPZ T pliers required
+
CJK 8MT**

ATR C22
Bulkhead mounting IP65
adapter with cover for RJ45
female-female couplers,
for command and signalling
enclosures with
Ø 22 mm seats

Universal RJ45 patch cord adapter



CJK 8M + Patch cord
to be combined with MKG /
MKAG V25 / VN25 hoods
and dedicated cable glands
AW M25IJ
AW M25INJ
AW M25PJ

* Versions with T568B and PROFINET wiring standards can also be supplied
** Caution: use special **STRAIGHT** hoods with built-in sealing gasket CKG / MKG / CKAG / MKAG (do not use angled hoods)

Solutions for enclosures size 21.21

Angled bulkhead mounting housing with RJ45 Cat 5e

CJZAX 8 IA4
(stainless steel lever)

CJZA 8 IA4
(galvanized lever)

CJZ 8 IA4N

Hoods matched with gasket		Thermoplastic	Metallic
M/Pg	Straight	CKG 03 V CKG 03 VN (black) **MKG V20** **MKG VN20** (black)	CKAG 03 V **MKAG V20**
M/Pg	Angled	CKG 03 VA CKG 03 VAN (black) **MKG VA20** **MKG VAN20** (black)	CKAG 03 VA **MKAG VA20**
M25	Straight	**MKG V25*** **MKG VN25*** (black)	**MKAG V25***
M25	Angled	**MKG VA25*** **MKG VAN25*** (black)	**MKAG VA25***

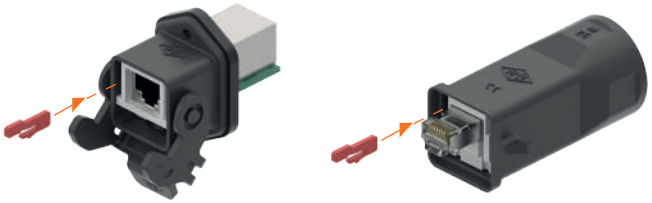
* Recommended with the use of the **CJK 8M** Patch cord adapter
Part numbers for enclosures with cable entry are shown in normal text for Pg threads **and in bold text for metric threads**

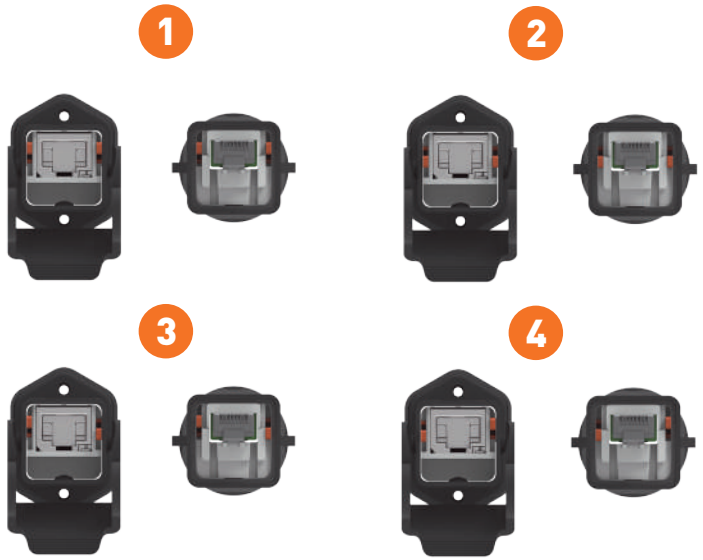
Coding pin for RJ45 adapter inserts

CR KC

How to use CR KC coding pins

(cannot be used with IP68 hoods)





Inserts size 32.13 – for insulating enclosures only

		4 poles (40 A 400/690 V) + 2 poles (10 A 250 V) + ⏚		8 poles (16 A 500 V) + ⏚	17 poles (10 A 160 V) + ⏚
Crimp	St.	CQM 04/2	CQM 04/2B	CQM 08	CQM 17
	Bu.	CQF 04/2	CQF 04/2B	CQF 08	CQF 17

CQ/MQ insulating enclosures

CQ 08 I, CQ 08 VA and CQ 08 V

Further CQ / MQ plastic enclosures and matching cable glands can be found in our general catalogue or on our website.

Inserts size 32.13 with integrated PE plate

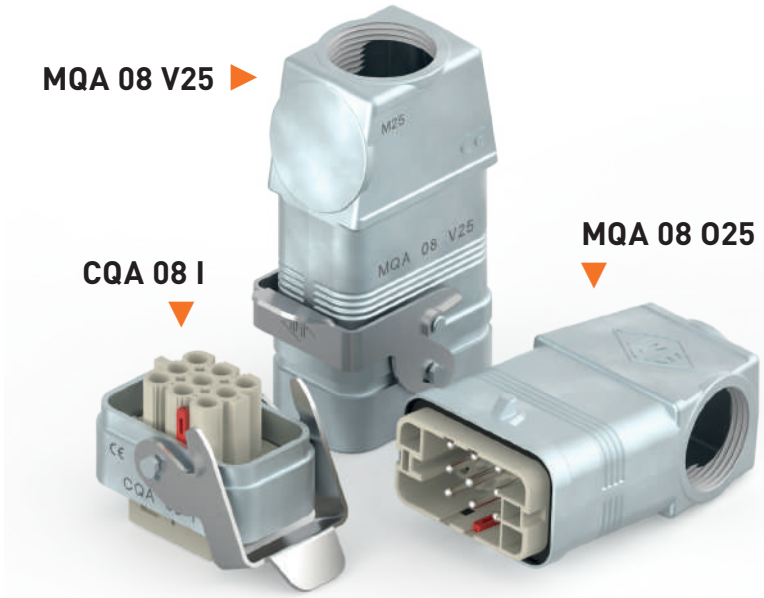
	Crimp	4 poles (40 A 400/690 V) + 2 poles (10 A 250 V) + ⏚	Male	CQM 04/2E
			Female	CQF 04/2E
	Crimp	8 poles (16 A 500 V) + ⏚	Male	CQM 08E
			Female	CQF 08E
	AXYR®	8 poles (16 A 500 V) + ⏚	Male	CQYM 08E
			Female	CQYF 08E

Crimp connector CQF 04/2

Crimp connector CQF 04/2E with integrated PE plate for mounting in with CQA / MQA matallic enclosures

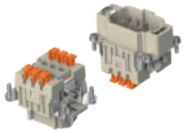
CQA / MQA metallic enclosures

for inserts size 32.13 with integrated PE plate

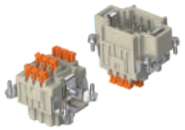


For pictures of contacts and crimping tools refer to page 19

To complete the contact part number add the wire cross sectional area (e.g. CDMA 1.0 = 1 mm²)

Size		44.27		57.27		77.27		104.27	
Standard		6 poles + ⏚		10 poles + ⏚		16 poles + ⏚		24 poles + ⏚	
16 A 500 V		Male	Female	Male	Female	Male	Female	Male	Female
	Screw	CNEM 06 T	CNEF 06 T	CNEM 10 T	CNEF 10 T	CNEM 16 T	CNEF 16 T	CNEM 24 T	CNEF 24 T
	SQUICH®	CSHM 06	CSHF 06	CSHM 10	CSHF 10	CSHM 16	CSHF 16	CSHM 24	CSHF 24
	SQUICH®			CSHMT 10 ♦	CSHFT 10 ♦	CSHMT 16 ♦	CSHFT 16 ♦	CSHMT 24 ♦	CSHFT 24 ♦

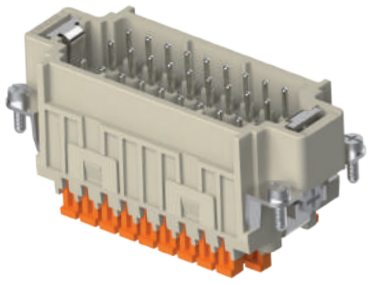
♦ for type J thermocouple applications

High density 10 A 400 V		9 poles+ ⏚		18 poles + ⏚		27 poles + ⏚		42 poles + ⏚	
	SQUICH®	CDSHM 09	CDSHF 09	CDSHM 18	CDSHF 18	CDSHM 27	CDSHF 27	CDSHM 42	CDSHF 42

Standard 16 A	High density 10 A	Space saving
06 poles	09 poles	+ 50%
10 poles	18 poles	+ 80%
16 poles	27 poles	+ 70%
24 poles	42 poles	+ 75%
32 poles	54 poles	+ 70%
48 poles	84 poles	+ 75%

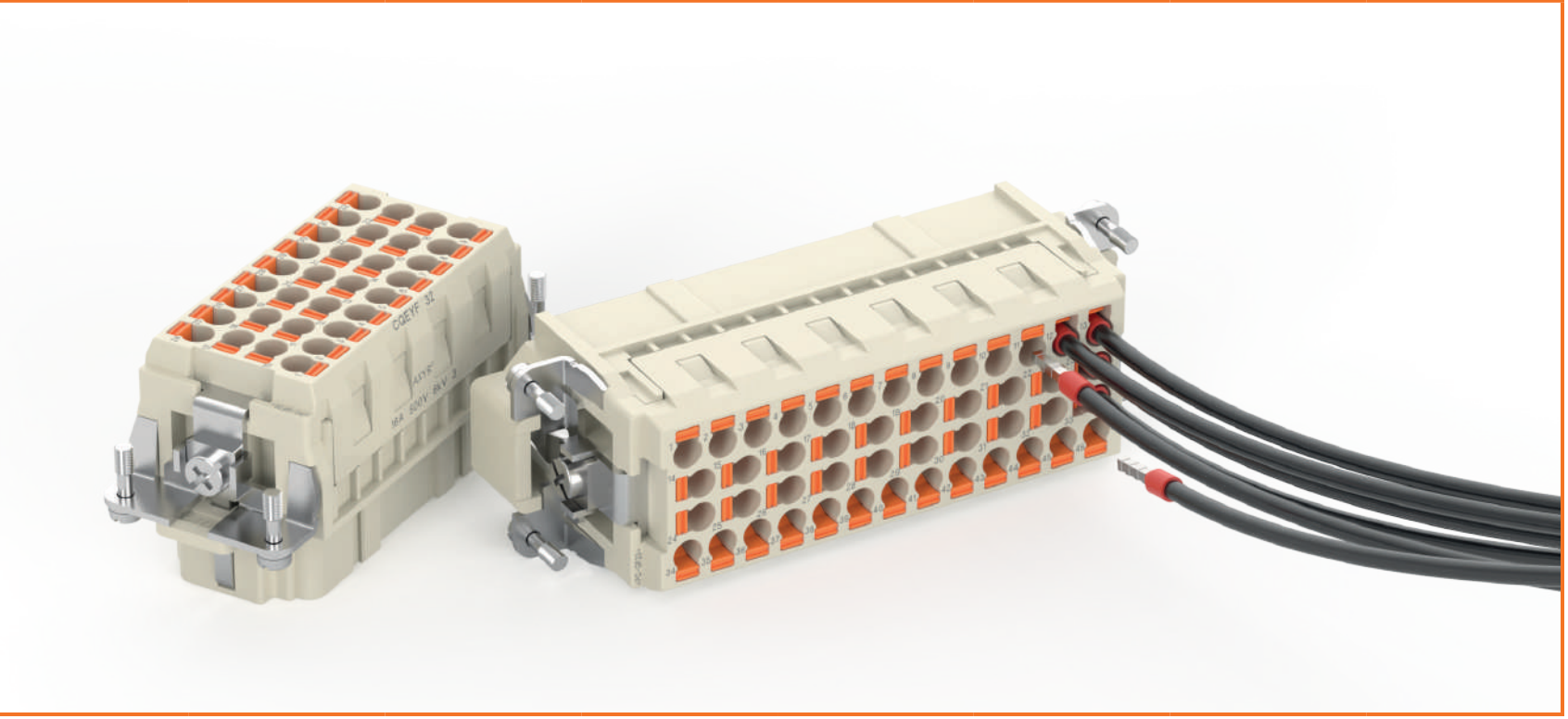
SQUICH® high density

- Saving space and time
- Tool-less wiring
- For cables with a section of 0.14 ÷ 2.5 mm² (AWG 26 ÷ 14)
- Increased vibration resistance
- Possibility of using coding pins (CR CDS)



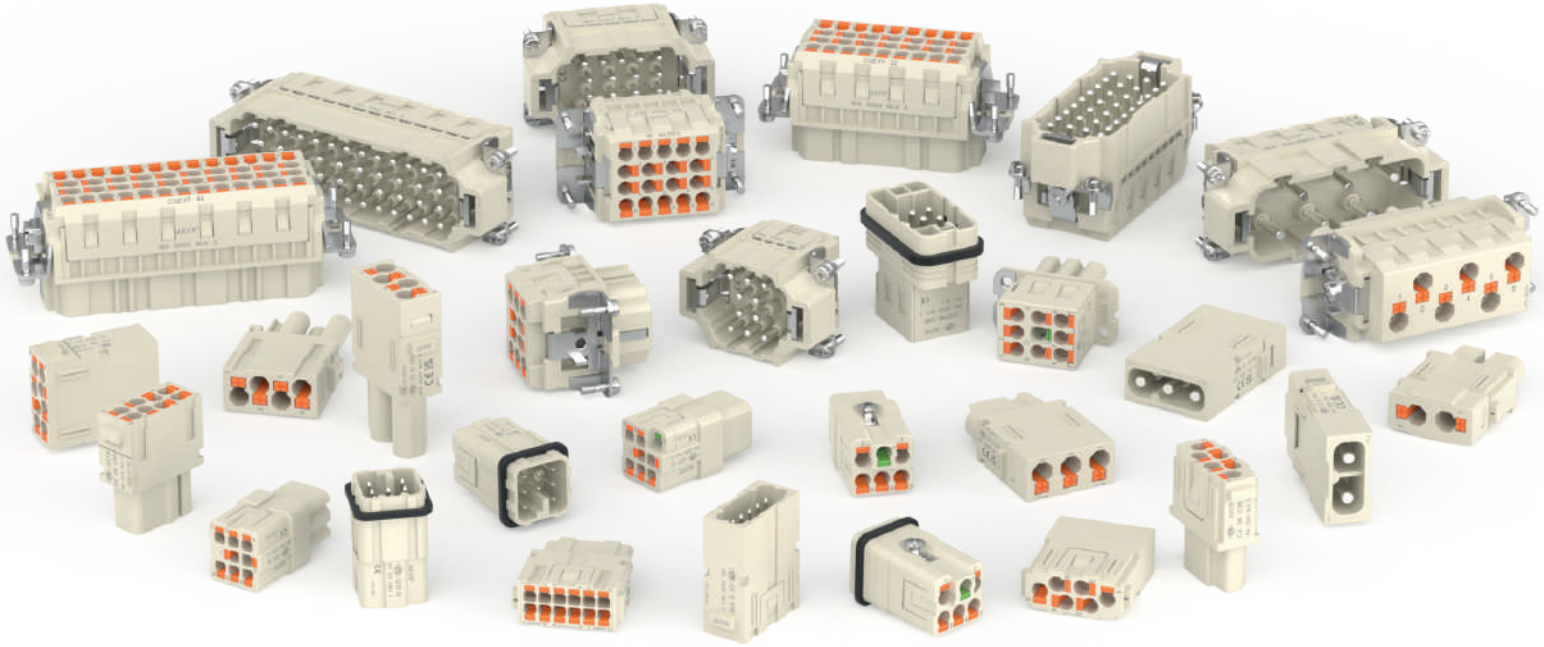
AXYR®

Size	44.27		57.27		77.27		104.27	
Standard	10 poles + ⏚		18 poles + ⏚		32 poles + ⏚		46 poles + ⏚	
16 A 500 V	Male	Female	Male	Female	Male	Female	Male	Female
								
	CQEYM 10	CQEYF 10	CQEYM 18	CQEYF 18	CQEYM 32	CQEYF 32	CQEYM 46	CQEYF 46



AXYR®

Wiring in axis



40 A, 35 A, 16 A and 10 A high-density tool-less connectors for faster and easier wiring

CRIMP connectors

Male	C..M ..
Female	C..F ..

Size 44.27

6 poles (16 A 500 V) + ⏚	10 poles (16 A 500 V) + ⏚	24 poles (10 A 250 V) + ⏚
 CCEM 06 CCEF 06	 CQEM 10 CQEF 10	 CDDM 24 CDDF 24

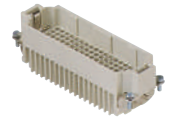
Size 57.27

10 poles (16 A 500 V) + ⏚	18 poles (16 A 500 V) + ⏚	42 poles (10 A 250 V) + ⏚
 CCEM 10 CCEF 10	 CQEM 18 CQEF 18	 CDDM 42 CDDF 42

Size 77.27

16 poles (16 A 500 V) + ⏚	32 poles (16 A 500 V) + ⏚	40 poles (16 A 500 V) + ⏚	40 poles (10 A 250 V) + ⏚	72 poles (10 A 250 V) + ⏚
 CCEM 16 CCEF 16	 CQEM 32 CQEF 32	 CQEEM 40 CQEEF 40	 CDM 40 CDF 40	 CDDM 72 CDDF 72

Size 104.27

24 poles (16 A 500 V) + ⏚	46 poles (16 A 500 V) + ⏚	64 poles (16 A 500 V) + ⏚	64 poles (10 A 250 V) + ⏚	108 poles (10 A 250 V) + ⏚
 CCEM 24 CCEF 24	 CQEM 46 CQEF 46	 CQEEM 64 CQEEF 64	 CDM 64 CDF 64	 CDDM 108 CDDF 108

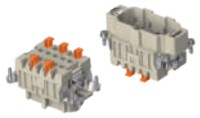
For pictures of contacts and crimping tools refer to page 19

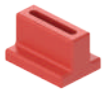
To complete the contact part number add the wire cross sectional area (e.g. CDMA 1.0 = 1 mm²)

Crimp contacts								Crimping tools	
	Silver	Male	Female		Gold	Male	Female		
5 A		CIMA	CIFA	5 A		CIMD	CIFD		CIPZ D + CITP D
10 A		CDMA	CDFA	10 A		CDMD	CDFD		CCPZ TP CCPZ MIL + CCTP 10 CCPZ RN
16 A		CCMA CC..AN advanced opening	CCFA	16 A		CCMD	CCFD		CCPZ TP CCPZ MIL + CCTP 16 CCPZ RN
40 A		CXMA	CXFA						CXPZ TP CCPZ RN
70 A		CX7MA CX7MA..P*	CX7FA						CPPZ C + dies + positioners
100 A		CGMA	CGFA						CCPZE C EU + dies + positioners
200 A		CYMA	CYFA						
300 A		C30MA CX30MA..P*	C30FA						C13PZ C + dies
									C13PZ EL EU + dies

*** Fingerproof version for MIXO modular inserts only**

To complete the contact part number add the wire cross sectional area (e.g. CDMA 1.0 = 1 mm²)

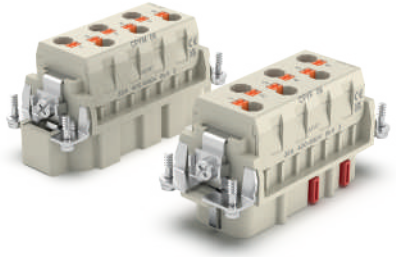
Size		57.27		77.27		104.27	
830 V		3 poles + 2 AUX + ⏚		6 poles + 2 AUX + ⏚		10 poles + 2 AUX + ⏚	
16 A 830 V		Male	Female	Male	Female	Male	Female
	SQUICH®	CMSHM 03	CMSHF 03	CMSHM 06	CMSHF 06	CMSHM 10	CMSHF 10
	Crimp	CMCEM 03	CMCEF 03	CMCEM 06	CMCEF 06	CMCEM 10	CMCEF 10

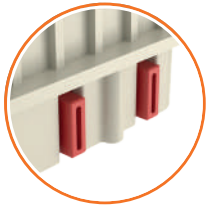
Size		57.27		77.27		Accessories	
Power				6 poles (35 A 400/690 V) + ⏚			
		Male	Female	Male	Female		
	Screw			CPM 06	CPF 06		
	AXYR®			CPYM 06 *	CPYF 06 *		CR CPC

* Can be used at operating voltages up to 830 V 8 kV 3 provided they are coded with CR CPC to avoid mismating with CPM /F 06

For pictures of contacts and crimping tools refer to page 19

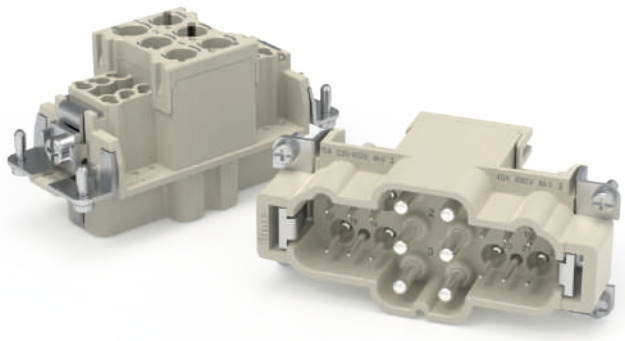
To complete the contact part number add the wire cross sectional area (e.g. CDMA 1.0 = 1 mm²)





▶ Up to 6 different codings option with optional CR CPC coding pins for CPYM 06 and CPYF 06 inserts (4 coding pins per each connector coupling).

Combined inserts



Male	CX..M ..
Female	CX..F ..

Size 57.27

	8 poles (16 A 230/400 V) + 24 poles (10 A 160 V) + ⏚
Crimp	 CXM 8/24 CXF 8/24
Screw	

Size 77.27

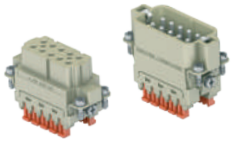
	4 poles (80 A 830 V) + ⏚	4 poles (80 A 830 V) + 2 poles (16 A 400 V) + ⏚	6 poles (40 A 690 V) + 12 poles (10 A 230/400 V) + ⏚	6 poles (40 A 690 V) + 36 poles (10 A 160 V) + ⏚	9 poles (40 A 690 V) + 42 poles (10 A 250 V) + ⏚	12 poles (40 A 690 V) + 2 poles (10 A 250 V) + ⏚
Crimp		 CXCM 4/2 CXCF 4/2	 CXM 6/12 CXF 6/12	 CXM 6/36 CXF 6/36	 CXM 9/42 CXF 9/42	 CXM 12/2 CXF 12/2
Screw	 CXM 4/0 CXF 4/0	 CXM 4/2 CXF 4/2				

Size 104.27

	8 poles (100 A 690 V) + ⏚	6 poles (100 A 690 V) + 6 poles (16 A 400 V) + ⏚	4 poles (80 A 400 V) + 8 poles (16 A 230/400 V) + ⏚
Crimp	 CXM 8/0 CXF 8/0	 CXM 6/6 CXF 6/6	 CXCM 4/8 CXCF 4/8
Screw			 CXM 4/8 CXF 4/8

For pictures of contacts and crimping tools refer to page 19

To complete the contact part number add the wire cross sectional area (e.g. CDMA 1.0 = 1 mm²)

Size		49.16		66.16		
Male CD..M Female CD..F		10 poles (16 A 250 V) + ⏚	15 poles (10 A 250 V) + ⏚	16 poles (16 A 250 V) + ⏚	25 poles (10 A 250 V) + ⏚	38 poles (10 A 250 V) + ⏚
	Screw	CDAM 10 CDAF 10		CDAM 16 CDAF 16		
	SQUICH®	CSAHM 10 CSAHF 10		CSAHM 16 CSAHF 16		
	Crimp	CDCM 10 CDCF 10	CDM 15 CDF 15	CDCM 16 CDCF 16	CDM 25 CDF 25	CDDM 38 CDDF 38

For pictures of contacts and crimping tools refer to page 19
To complete the contact part number add the wire cross sectional area (e.g. CDMA 1.0 = 1 mm²)

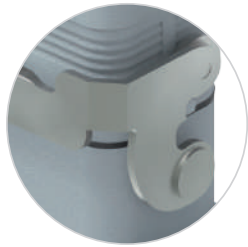
Examples of enclosures size 49.16

IL–BRID
IP66

The coordinated effect of two materials

CZ7/MZ7
IP67

Rigid stainless steel locking lever



Bulkhead mounting		Size 49.16	Size 66.16	Size 66.40 ■
	IL-BRID	**CZI 15 L***	**CZI 25 L***	**CHI 50**

Surface mounting		Size 49.16		Size 66.16		Size 66.40 ■	
	IL-BRID	CZP 15 L*	**MZP 15 L25*** **MZP 15 L225***	CZAP 25 L* CZAP 25 L21*	**MZAP 25 L25*** **MZAP 25 L225***	CHP 50.21 CHP 50.29	**MHP 50.32**

Hoods		Size 49.16		Size 66.16		Size 66.40 ■	
	IL-BRID	CZO 15 L CZAO 15 L16 CZAO 15 L21	**MZO 15 L20** **MZFO 15 L25**	CZO 25 L CZAO 25 L16 CZAO 25 L21	**MZO 25 L20** **MZFO 25 L25**	CHO 50 CAO 50.21 CAO 50.29	**MHO 50.25** **MFO 50.32**
		CZV 15 L CZAV 15 L16 CZAV 15 L21	**MZV 15 L20** **MZFV 15 L25**	CZV 25 L CZAV 25 L16 CZAV 25 L21	**MZV 25 L20** **MZFV 25 L25**	CAV 50.21 CAV 50.29 CAV 50 G29	**MFV 50.25** **MFV 50.32**
		CZV 15 LG	**MZV 15 LG20**	CZV 25 LG	**MZV 25 LG20**		**MFV 50 G32**

■ Double-inserts size: allows the mounting of two inserts inside the same enclosure
* Versions with hinged cover (IP65) available
Part numbers for enclosures with cable entry are shown in normal text for Pg threads **and in bold text for metric threads**

Locking systems

C-TYPE
Elastic closing with riveted rolls

IL-BRID
Hybrid design

V-TYPE
Vertical Closing

T-TYPE
Insulating

Bulkhead mounting		Size 44.27	Size 57.27		Size 77.27		Size 104.27	
	Series	One lever	One lever	Two levers	One lever	Two levers	One lever	Two levers
	C-TYPE	CHI 06 L ■	CHI 10 L ■	CHI 10	CHI 16 L ■	CHI 16	CHI 24 L ■	CHI 24
	IL-BRID	CLI 06 L ■	CLI 10 L ■	CLI 10	CLI 16 L ■	CLI 16	CLI 24 L ■	CLI 24
	V–TYPE (IP67)	C7I 06 L ■		C7I 10		C7I 16 ■		C7I 24 ■
	T–TYPE	TCHI 06 L		TCHI 10		TCHI 16		TCHI 24

■ Versions with metal and/or plastic hinged cover (IP65) available

Surface mounting		Size 44.27	Size 57.27		Size 77.27		Size 104.27	
	Series	One lever	One lever	Two levers	One lever	Two levers	One lever	Two levers
	Low construction **C-TYPE**	CHP 06 L ■ **MHP 06 L20** ■	CHP 10 L ■ **MHP 10 L20** ■	CHP 10 **MHP 10.20**	CHP 16 L ■ **MHP 16 L25** ■	CHP 16 **MHP 16.25**	CHP 24 L ■ **MHP 24 L25** ■	CHP 24 **MHP 24.25**
	Low construction **IL-BRID**	**MLP 06 L20** ■	**MLP 10 L20** ■	**MLP 10.20**	**MLP 16 L25** ■	**MLP 16.25**	**MLP 24 L25** ■	**MLP 24.25**
	Low construction **V–TYPE (IP67)**	C7P 06 L **M7P 06 L20** ■		C7P 10 **M7P 10.20**		C7P 16 **M7P 16.25**		C7P 24 **M7P 24.25**
	High construction **C-TYPE**	CAP 06 L ■ CAP 06 L29 ■ **MAP 06 L25** **MAP 06 L32** ■ **MAP 06 L40** ■	CAP 10 L ■ CAP 10 L29 ■ **MAP 10 L32** ■ **MAP 10 L40** ■	CAP 10.21 CAP 10.29 **MAP 10.25** **MAP 10.32** **MAP 10.40**	CAP 16 L ■ CAP 16 L29 ■ **MAP 16 L32** ■ **MAP 16 L40** ■	CAP 16.21 CAP 16.29 **MAP 16.25** **MAP 16.32** **MAP 16.40**	CAP 24 L ■ CAP 24 L29 ■ **MAP 24 L32** ■ **MAP 24 L40** ■	CAP 24.21 CAP 24.29 **MAP 24.25** **MAP 24.32** **MAP 24.40**
	High construction **IL-BRID**	**MLAP 06 L25** **MLAP 06 L32** ■ **MLAP 06 L40** ■	**MLAP 10 L32** ■ **MLAP 10 L40** ■	**MLAP 10.25** **MLAP 10.32** **MLAP 10.40**	**MLAP 16 L32** ■ **MLAP 16 L40** ■	**MLAP 16.25** **MLAP 16.32** **MLAP 16.40**	**MLAP 24 L32** ■ **MLAP 24 L40** ■	**MLAP 24.25** **MLAP 24.32** **MLAP 24.40**
	High construction **V–TYPE (IP67)**	C7AP 06 L **M7AP 06 L32** ■ **M7AP 06 L40** ■		C7AP 10 **M7AP 10.32** **M7AP 10.40**		C7AP 16 **M7AP 16.32** ■ **M7AP 16.40**		C7AP 24 **M7AP 24.32** ■ **M7AP 24.40**
	High construction **T–TYPE**	**TMAP 06 L25** **TMAP 06 L32**		**TMAP 10.25** **TMAP 10.32**		**TMAP 16.32** **TMAP 16.40**		**TMAP 24.32** **TMAP 24.40**

■ Versions with metal and/or plastic hinged cover (IP65) available

Part numbers for enclosures with cable entry are shown in normal text for Pg threads **and in bold text for metric threads**

Hoods with pegs			Size 44.27	Size 57.27		Size 77.27		Size 104.27	
		Series	2 pegs	2 pegs	4 pegs	2 pegs	4 pegs	2 pegs	4 pegs
	Top entry	Low construction	**C-TYPE**	CHV 06 L13 CHV 06 L16 **MHV 06 L20** **MHV 06 L25**	CHV 10 L **MHV 10 L20** **MHV 10 L25**	CHV 10 **MHV 10.20** **MHV 10.25**	CHV 16 L **MHV 16 L25** **MHV 16 L32**	CHV 16 **MHV 16.25** **MHV 16.32**	CHV 24 L CHV 24 L29 **MHV 24 L25** **MHV 24 L32**	CHV 24 CHV 24.29 **MHV 24.25** **MHV 24.32**
	Side entry	Low construction	**C-TYPE**	CHO 06 L13 CHO 06 L16 **MHO 06 L20** **MHO 06 L25**	CHO 10 L **MHO 10 L20** **MHO 10 L25**	CHO 10 **MHO 10.20** **MHO 10.25**	CHO 16 L **MHO 16 L25** **MHO 16 L32**	CHO 16 **MHO 16.25** **MHO 16.32**	CHO 24 L **MHO 24 L25** **MHO 24 L32**	CHO 24 **MHO 24.25** **MHO 24.32**
	Top entry	High construction	**C-TYPE** ◉	CAV 06 L21 CAV 06 L29 **MFV 06 L25** **MFV 06 L32** **MFV 06 L40**	CAV 10 L21 CAV 10 L29 **MFV 10 L32** **MFV 10 L40**	CAV 10.21 CAV 10.29 **MFV 10.32** **MFV 10.40**	CAV 16 L21 CAV 16 L29 **MFV 16 L32** **MFV 16 L40**	CAV 16.21 CAV 16.29 **MFV 16.32** **MFV 16.40**	CAV 24 L21 CAV 24 L29 **MFV 24 L32** **MFV 24 L40**	CAV 24.21 CAV 24.29 **MFV 24.32** **MFV 24.40**
	Top entry	High construction	**T–TYPE**	**TMAV 06 L25** **TMAV 06 L32**		**TMAV 10.25** **TMAV 10.32**		**TMAV 16.32** **TMAV 16.40**		**TMAV 24.32** **TMAV 24.40**
	Side entry	High construction	**C-TYPE** ◉	CAO 06 L21 CAO 06 L29 **MFO 06 L25** **MFO 06 L32** **MFO 06 L40**	CAO 10 L21 CAO 10 L29 **MFO 10 L32** **MFO 10 L40**	CAO 10.21 CAO 10.29 **MFO 10.32** **MFO 10.40**	CAO 16 L21 CAO 16 L29 **MFO 16 L32** **MFO 16 L40**	CAO 16.21 CAO 16.29 **MFO 16.32** **MFO 16.40**	CAO 24 L21 CAO 24 L29 **MFO 24 L32** **MFO 24 L40**	CAO 24.21 CAO 24.29 **MFO 24.32** **MFO 24.40**
	Side entry	High construction	**T–TYPE**	**TMAO 06 L25** **TMAO 06 L32**		**TMAO 10.25** **TMAO 10.32**		**TMAO 16.32** **TMAO 16.40**		**TMAO 24.32** **TMAO 24.40**

◉ Without adapter, to be used with a complete cable gland

Part numbers for enclosures with cable entry are shown in normal text for Pg threads **and in bold text for metric threads**

Hoods with levers				Size 44.27	Size 57.27		Size 77.27		Size 104.27	
			Serie	One lever	One lever	Two levers	One lever	Two levers	One lever	Two levers
	Top entry	Low construction	C-TYPE	CHV 06 LG **MHV 06 LG25**	CHV 10 LG **MHV 10 LG25**	CHV 10 G **MHV 10 G25**	CHV 16 LG **MHV 16 LG25** **MHV 16 LG32**	CHV 16 G **MHV 16 G32**	CHV 24 LG **MHV 24 LG32**	CHV 24 G **MHV 24 G32**
			IL-BRID	**MLV 06 LG25**	**MLV 10 LG25**	**MLV 10 G25**	**MLV 16 LG25** **MLV 16 LG32**	**MLV 16 G32**	**MLV 24 LG32**	**MLV 24 G32**
		High construction	C-TYPE ◉	CAV 06 LG21 CAV 06 LG29 **MFV 06 LG25** **MFV 06 LG32** **MFV 06 LG40**	CAV 10 LG21 CAV 10 LG29 **MFV 10 LG25** **MFV 10 LG32** **MFV 10 LG40**	CAV 10 G CAV 10 G29 **MFV 10 G25** **MFV 10 G32** **MFV 10 G40**	CAV 16 LG21 CAV 16 LG29 **MFV 16 LG25** **MFV 16 LG32** **MFV 16 LG40**	CAV 16 G CAV 16 G29 **MFV 16 G25** **MFV 16 G32** **MFV 16 G40**	CAV 24 LG21 CAV 24 LG29 **MFV 24 LG25** **MFV 24 LG32** **MFV 24 LG40**	CAV 24 G CAV 24 G29 **MFV 24 G25** **MFV 24 G32** **MFV 24 G40**
			IL-BRID ◉	**MLFV 06 LG25** **MLFV 06 LG32** **MLFV 06 LG40**	**MLFV 10 LG25** **MLFV 10 LG32** **MLFV 10 LG40**	**MLFV 10 G25** **MLFV 10 G32** **MLFV 10 G40**	**MLFV 16 LG25** **MLFV 16 LG32** **MLFV 16 LG40**	**MLFV 16 G25** **MLFV 16 G32** **MLFV 16 G40**	**MLFV 24 LG25** **MLFV 24 LG32** **MLFV 24 LG40**	**MLFV 24 G25** **MLFV 24 G32** **MLFV 24 G40**
			T–TYPE	**TMAV 06 LG25** **TMAV 06 LG32**		**TMAV 10 G25** **TMAV 10 G32**		**TMAV 16 G32** **TMAV 16 G40**		**TMAV 24 G32** **TMAV 24 G40**
	Side entry		C-TYPE ◉	**MFO 06 LG40**	**MFO 10 LG40**	**MFO 10 G40**	**MFO 16 LG40**	**MFO 16 G40**	**MFO 24 LG40**	**MFO 24 G40**
			IL-BRID ◉	**MLFO 06 LG40**	**MLFO 10 LG40**	**MLFO 10 G40**	**MLFO 16 LG40**	**MLFO 16 G40**	**MLFO 24 LG40**	**MLFO 24 G40**

◉ Without adapter, to be used with a complete cable gland

Part numbers for enclosures with cable entry are shown in normal text for Pg threads **and in bold text for metric threads**

T-TYPE HYGIENIC /H series enclosures

The HYGIENIC multi-pole connector hood versions (series T-TYPE/H and T-TYPE/C) have been designed for installation on food industry machines and systems.

Compliant with the Machinery Directive 2006/42/EC in chapter 2.1, they comply with the requirements of:

- material cleanability and resistance to the cleaning and sanitising agents normally used in the food industry;
- materials in terms of the requirements for accidental contact with food products.

The T-TYPE/H and T-TYPE/C series hoods fit different sealing gaskets. For T-Type/H series hoods, the sealing gasket is in HNBR rubber, a material with excellent resistance to both acidic and alkaline detergents as well as any animal and vegetable fats it could come into contact with in food industry applications.

A dedicated variant of this new HYGIENIC version may be used where a high risk of accidental contact with food is occurring during production (catalogue CN.19, page 497, Table 1, Application Zones, Food Area). For more information about this possible special version, please contact our offices.

In accordance with the requirements set forth in EHEDG Guideline no. 32 "Materials of construction for food equipment in contact with food" (EHEDG = European Hygienic Engineering & Design Group), the locking levers and sealing gaskets are coloured **blue** to easily identify any accidental contaminations in food products and to facilitate the visual identification of their complete cleanliness.

T-TYPE /H for production lines

Key features

- Hoods in thermoplastic material, dark grey RAL 7012 colour, with high thicknesses providing structural solidity and durability
- Sealing gaskets made by HNBR rubber formulated in accordance with FDA Guideline 21 CFR §177.2600
- The locking levers are made of self-extinguishing thermoplastic material detectable by metal detectors, blue colour
- M25, M32 and M40 threaded cable entries
- IP66 and IP69 degree of protection according to EN 60529
- Each hood carries its own part number, thread/size and conformity markings
- Ambient temperature limits -40 °C / +70 °C

Resistance to chemicals comparison table

The classification herewith provided is only a generic reference guide in order to enable a first selection. It is based on literature data provided by the suppliers of the raw materials used, which are related to tests carried out on specimens under test conditions which are not always homogeneous and involving accelerating techniques, therefore not necessarily describing real operational conditions. The actual behaviour of products in the field may therefore be positively or negatively influenced by several variable environmental parameters like temperature, relative humidity, presence at the same time of a plurality of substances and their concentration, exposure time, dynamic or static application condition, and so on.The accuracy of transferring the indications given herein to the actual conditions of use is therefore merely indicative and does not imply any guarantee or responsibility by ILME.

NOTE: As the characterizing element of the T-TYPE/W series is the differentsealing gasket material, **hoods and covers without sealing gaskets for this series are the same of T-TYPE Standard.**

A	T-TYPE	T-TYPE /W	T-TYPE /H	T-TYPE /C
Ammonium acetate	●	x	●	●
Wine vinegar	x	□	●	□
Acetone	x	x	x	x
Fatty Acids	●	●	●	□
Boric acid	●	●	●	●
Boric acid, 10% aqueous solution	●	●	●	●
Citric acid 50% aqueous solution	x	x	●	●
Hydrochloric acid, <2% aqueous solution	x	x	●	□
Lactic acid	●	●	●	●
Concentrated hydrochloric acid	x	x	x	x
Oleic acid	●	●	●	x
Oxalic acid	●	●	●	●
Sulphuric acid, 2% aqueous solution	x	x	□	□
Stearic acid	●	●	●	●
Succinic acid	●	●	●	●
Tartaric acid	●	●	●	●
Water	●	●	●	●
Boric water (boric acid 3%)	●	●	●	●
Sea water	●	●	●	●
Aqua regia (1:3 nitric acid : hydrochloric acid)	x	x	x	x
Amyl alcohol	□	□	□	x
White alcohol (ethanol + isopropanol)	□	●	●	●
Alcool etilico, soluzione acquosa al 10%	●	●	●	●
Isopropyl alcohol	□	●	●	●
Methyl alcohol, diluted 50%	□	□	●	●
Alum	●	●	●	●
Aqueous starch	●	●	●	●

A	T-TYPE	T-TYPE /W	T-TYPE /H	T-TYPE /C
Gaseous ammonia	□	x	●	●
Liquid ammonia	x	x	●	●
Ammonia, 10% aqueous solution	●	x	●	●
Aniline	□	□	x	x
Asphalt	□	□	□	x
B				
Benzene	x	□	x	x
Petrol	□	□	□	x
Sodium bicarbonate (oxide)	●	●	●	●
Beer	●	●	●	●
Sodium bisulfite, aqueous solution	●	●	●	●
Borax	□	□	□	□
Gaseous butane	□	□	□	x
Liquid butane	□	□	□	x
C				
Ammonium carbonate	●	●	●	x
Potassium carbonate	●	●	●	●
Sodium carbonate (soda)	●	●	●	●
Tar	□	□	x	□
Potassium cyanide, aqueous solution	●	●	●	●
Cyclohexane	□	□	□	x
Potassium chlorate	●	●	x	●
Sodium chlorate	●	●	x	●
Chlorine	x	x	x	x

C	T-TYPE	T-TYPE /W	T-TYPE /H	T-TYPE /C
Ammonium chloride	●	●	●	x
Calcium chloride	●	●	●	●
Calcium chloride, 10% aqueous solution	●	●	●	●
Calcium chloride, diluted suspension	●	●	●	●
Ferric chloride, 10% aqueous solution	x	x	x	x
Potassium chloride	●	●	●	●
Sodium chloride (salt)	●	●	●	●
Cresol	□	□	x	x
D				
Deca-hydro-naphtalene	x	x	x	x
Potassium dichromate	□	□	●	●
Diethylphthalate	●	x	x	x
Diisononphthalate	●	x	x	x
Sulphur dioxide (sulphurous anhydride)	□	x	x	□
Di-optyl phtalate	●	●	x	x
E				
Heptane	□	□	□	x
Hexane	□	□	□	x
Petroleum spirit (dry cleaning)	□	□	x	x
Turpentine	x	□	□	x
Ethanol (ethyl alcohol)	x	x	●	●
Light petroleum	□	□	□	□

F	T-TYPE	T-TYPE /W	T-TYPE /H	T-TYPE /C
Diluted phenol	□	□	x	x
Formalin (formaldehyde 40% aqueous solution)	x	x	●	●
Ammonium phosphate	●	●	●	●
Sodium phosphate	●	●	●	x

G				
Diesel	□	□	□	□
Gypsum (see calcium sulfate)	●	●	x	●
Glycerine	●	●	●	●
Diluted glycerine	●	●	●	●
Diluted glycol	●	●	●	●
Ethylene-glycol or propylene-glycol	●	●	●	●
Diluted glucose	●	●	●	●

I				
Hydrogen sulphide	□	x	●	x
Sodium hydroxide (caustic soda)	x	x	●	●
sodium hydroxide 12.5% (lye)	□	x	●	●
Ink	●	●	●	●
Potassium iodide	□	□	●	●
Sodium hypochlorite (bleach)	x	x	●	●

M				
Mercury	●	●	●	●
Methanol	x	x	●	●

N				
Naphthalene	□	●	x	x
Naftalina	□	□	x	x
N-Butanol	●	●	●	●
Ammonium nitrate	●	●	●	●
Calcium nitrate	●	●	●	●
Potassium nitrate	□	x	x	●
Sodium nitrate	●	●	●	x
Sodium nitrite	□	□	●	x

O	T-TYPE	T-TYPE /W	T-TYPE /H	T-TYPE /C
Fuel oils	□	□	□	x
Mineral oils (tasteless)	●	●	●	●
Motor Oils	□	□	□	x
Mineral oil	●	●	●	●
Cutting oil	□	□	□	x
Linseed oil	●	●	●	●
Paraffin oil	●	●	●	●
Silicone oil	●	●	●	x
IRM oil 901	●	●	●	●
IRM oil 902	□	●	●	x
IRM oil 903	x	□	□	□
Lubricating oil	●	●	●	x
Grinding oil	□	□	□	x
Transformer oil	●	●	●	●
Vegetable oil	●	●	●	●
Octane	□	□	□	x
Ozone	x	x	x	□

P				
Sodium perborate	●	●	●	●
Potassium persulphate	□	□	x	●
Petroleum	●	●	●	●
Caustic potash (potassium hydroxide) 10%	x	●	●	x
Gaseous propane	x	●	●	x

S				
Kitchen salt, aqueous solution	●	●	●	●
Liquid soap	x	●	●	●
Tallow	●	●	●	●
Sodium silicate	●	x	x	●
Ammonium sulphate	●	●	●	●
Calcium sulphate	●	●	x	●
Potassium sulphate	□	□	●	●
Copper sulphate 10% aqueous solution	●	●	●	●
Sodium sulphate	●	●	●	●
Sodium sulphide	●	●	●	●
Cresolic solution	□	□	x	x
Solution for photo development	●	●	●	●
Soap solution	□	●	●	●
Fruit juices	●	●	●	●

T	T-TYPE	T-TYPE /W	T-TYPE /H	T-TYPE /C
Sodium thiosulphate (fixing salt)	●	●	●	●
Toluene	x	x	x	x
Trichloroethylene	x	x	x	x
Tricresyl phosphate	●	●	x	x

U				
Diluted urea	●	●	●	●
Urine	●	●	●	●

X				
Xylene	x	x	x	x

Z				
Sulphur	●	●	x	x

Legend

●: Resistant □: Limited resistance x: Not resistant

Size 21.21

Bulkhead mounting

Straight	Angled	Angled with cable entry
 **CKH 03 I**	 **CKH 03 IA** **CKH 03 IA4**	 **MKH IAP20** **MKH IAP25** **MKH AP25**

Hoods

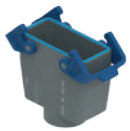
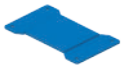
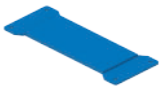
With pegs		With lever
Straight	**Angled**	**For free connector coupling**
 **MKH V20** **MKH V25** **MKGH V20** (with gasket) **MKGH V25** (with gasket)	 **MKH VA20** **MKH VA25** **MKGH VA20** (with gasket) **MKGH VA25** (with gasket)	 **MKH VG20** **MKH VG25**

Covers

With pegs for enclosures with lever	With lever for hoods with pegs
 **CKH 03 CAS** **CKH 03 CA** **CKH 03 CS** (with gasket) **CKH 03 C** (with gasket)	 **CKH 03 CX** **CKH 03 CXA** (with gasket)

Accessories

Kit for degree of protection IP66 / IP67 / IP69 (EN 60529)	
 **CKRH 65**	 **Gasket** **CR 21.21 GMH**

	Size 44.27	Size 57.27	Size 77.27	Size 104.27
Housings				
Bulkhead mounting	 THIH 06 L	 THIH 10	 THIH 16	 THIH 24
Surface mounting	 TAPH 06 L25 TAPH 06 L32	 TAPH 10.25 TAPH 10.32	 TAPH 16.32 TAPH 16.40	 TAPH 24.32 TAPH 24.40
Hoods				
Top enty	 TMAV 06 L25 TMAV 06 L32	 TMAV 10.25 TMAV 10.32	 TMAV 16.32 TMAV 16.40	 TMAV 24.32 TMAV 24.40
Side entry	 TMAO 06 L25 TMAO 06 L32	 TMAO 10.25 TMAO 10.32	 TMAO 16.32 TMAO 16.40	 TMAO 24.32 TMAO 24.40
With levers for free connector coupling	 TAVH 06 LG25 TAVH 06 LG32	 TAVH 10 G25 TAVH 10 G32	 TAVH 16 G32 TAVH 16 G40	 TAVH 24 G32 TAVH 24 G40
Covers				
With pegs for enclosures with levers	 TCHC 06 L	 TCHC 10	 TCHC 16	 TCHC 24
Accessories				
Planarity gasket for surface mounting housings	 CR 06 GTPC	 CR 10 GTPC	 CR 16 GTPC	 CR 24 GTPC

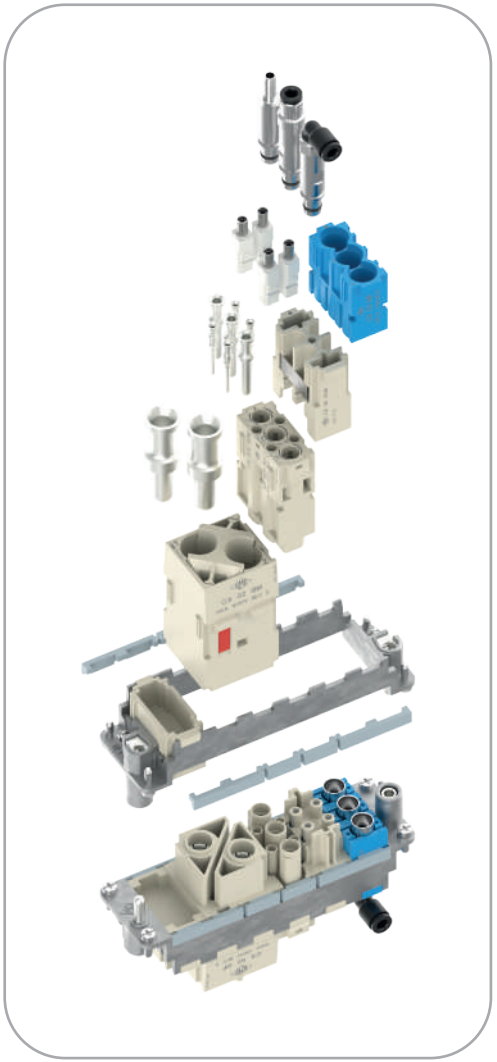
STANDARD AND SPECIAL HOODS

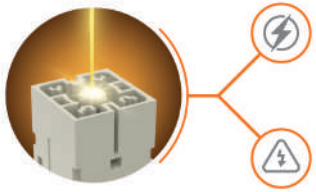
CHOOSE YOUR CONNECTOR

Wide range available with multiple combinations of features and materials

MIXO – Modular connectors system

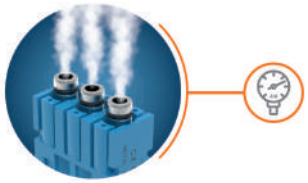
For countless combinations



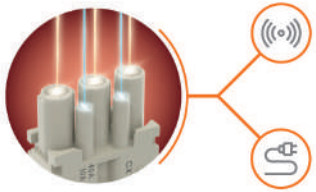


POWER

HIGH VOLTAGE



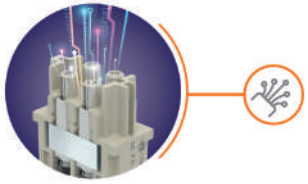
PNEUMATIC



SIGNAL

POWER

DATA TRANSMISSION



FIBRE OPTIC

Current	300 A				200 A			
Voltage	1000 V 1300 V_{DC}	PE Module	1000 V 1300 V_{DC}	PE Module	1000 V	PE Module	1000 V	PE Module
Number of poles	1	1	1	1	1	1	1	1
Code (add M or F at the end for male and female)	 CX 01 30 CX 01B 30	 CX 01 30PE CX 01B 30PE	Angled  CX 01 30A	Angled  CX 01 30PEA	 CX 01 Y	 CX 01 YPE	Angled  CX 01 YA	Angled  CX 01 YPEA
Wiring	Crimp	Crimp	Screw	Screw	Crimp	Crimp	Screw	Screw
Contacts (to be purchased separately)	 C30FA C30MA..P	 C30FA C30MA	Built-in, check wire section	Built-in, check wire section	 CYFA CYMA	 CYFA CYMA	Built-in, check wire section	Built-in, check wire section
Module size (Slots)	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2

For pictures of contacts and crimping tools refer to page 19

To complete the contact part number add the wire cross sectional area (e.g. CDMA 1.0 = 1 mm^2)

Current	100 A			70 A	
Voltage	**830 V**	**1000 V**	**PE Module**	**1000 V**	**PE Module**
Number of poles	**1**	**2**	**1**	**2**	**1**
Code (add M or F at the end for male and female)	 **CX 01 G**	 **CX 02 G**	 **CX 01 GPE**	 **CX 02 7**	 **CX 01 PE**
Wiring	**Crimp**	**Crimp**	**Crimp**	**Crimp**	**Screw**
Contacts (to be purchased separately)	 **CGFA CGMA**	 **CGFA CGMA**	 **CGFA CGMA**	 **CX7FA CX7MA CX7MA..P**	**Suitable for MIXO thermoplastic docking frames only** Built-in, check wire section
Module size (Slots)	1	1 2	1	1	1

For pictures of contacts and crimping tools refer to page 19
To complete the contact part number add the wire cross sectional area (e.g. CDMA 1.0 = 1 mm^2)

Current	40 A							
Voltage	1000 V		690 V	400/ 690 V	500 V	830 V		
Number of poles	2	2	3	3	3	3 + 4 AUX	4	4
Code (add M or F at the end for male and female)	 CX 02 4Y	 CX 02 4	 CX 03 4Y	 CX 03 4	 CX 03 4B	 CX 3/4 XD	 CX 04 XY	 CX 04 X
Wiring	AXYR®	Crimp	AXYR®	Crimp	Crimp	Crimp	AXYR®	Crimp
Contacts (to be purchased separately)	Built-in, check wire section	 CXFA CXMA	Built-in, check wire section	 CXFA CXMA	 CXFA CXMA	 CXFA CXMA CDFA CDMA	Built-in, check wire section	 CXFA CXMA
Module size (Slots)	1	1	1	1	1	1	1	1

For pictures of contacts and crimping tools refer to page 19

To complete the contact part number add the wire cross sectional area (e.g. CDMA 1.0 = 1 mm²)

Current	16 A						
Voltage	**400 V**	**500 V**	**830 V**	**500V**	**400 V**	**400V**	**500 V**
Number of poles	**5**	**6**	**6**	**6**	**8**	**8**	**20**
Code (add M or F at the end for male and female)	 **CX 05 SH**	 **CX 06 C**	 **CX 06P C**	 **CX 06 CY**	 **CX 08 C**	 **CX 08 CY**	 **CX 20 C**
Wiring	**SQUICH®**	**Crimp**	**Crimp**	**AXYR®**	**Crimp**	**AXYR®**	**Crimp**
Contacts (to be purchased separately)	Built-in, check wire section	 **CCFA CCMA***	 **CCFA CCMA***	Built-in, check wire section	 **CCFA CCMA***	Built-in, check wire section	 **CCFA CCMA***
Module size (Slots)	1	1	1	1	1	1	1 2

* For wiring use 2 mm hex wrench, or CXAS tool

For pictures of contacts and crimping tools refer to page 19

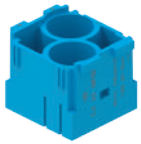
To complete the contact part number add the wire cross sectional area (e.g. CDMA 1.0 = 1 mm²)

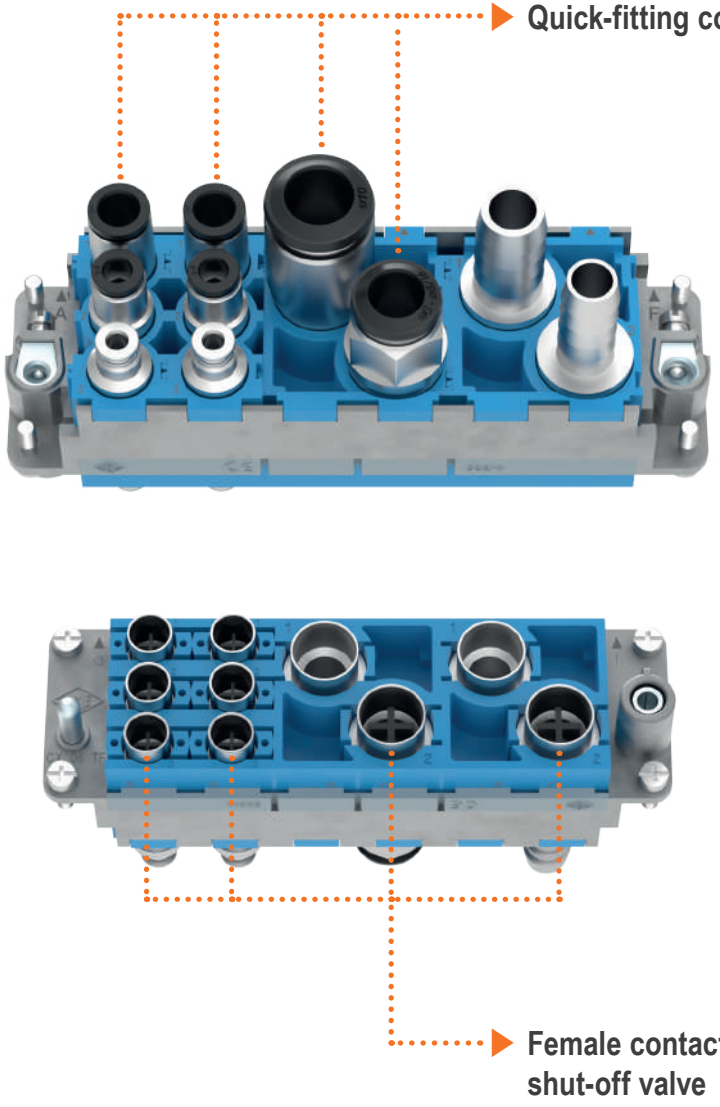
Current	10 A				4 A	
Voltage	**250 V**	**250V**	**160 V**	**150 V**	**50 V**	**32 V**
Number of poles	**12**	**12**	**17**	**42**	**25**	**36**
Code (add M or F at the end for male and female)	 **CX 12 D**	 **CX 12 DY**	 **CX 17 D**	 **CX 42 D**	 **CX 25 IB**	 **CX 36 I**
Wiring	**Crimp**	**AXYR®**	**Crimp**	**Crimp**	**Crimp**	**Crimp**
Contacts (to be purchased separately)	 **CDFA CDMA**	Built-in, check wire section	 **CDFA CDMA**	 **CDFA CDMA**	 **CIFA CIMA**	 **CIFA CIMA**
Module size (Slots)	1	1	1	1 2	1	1

For pictures of contacts and crimping tools refer to page 19
To complete the contact part number add the wire cross sectional area (e.g. CDMA 1.0 = 1 mm²)

Pipe diameter	Ø 1,6 – Ø 4			Ø 6			Ø 3 – Ø 4 – Ø 6		
Locations for contacts	3			2			3		
Code (male and female are equal)	 CX 03 P			 CX 02 P			 CX 03 MP		
Contacts (internal diameter) hose gland coupling	Male	Female	Female with shut-off valve	Male	Female	Female with shut-off valve	Male	Female	Female with shut-off valve
	 CX 1.6 PM* CX 3.0 PM* CX 4.0 PM*	 CX 1.6 PF* CX 3.0 PF* CX 4.0 PF*	 CX 1.6 VC* CX 3.0 VC* CX 4.0 VC*	 CX 6.0 PM*	 CX 6.0 PF*	 CX 6.0 VC*	 CX 3.0 MPM** CX 4.0 MPM** CX 6.0 MPM**	 CX 3.0 MPF** CX 4.0 MPF** CX 6.0 MPF**	 CX 3.0 MPV** CX 4.0 MPV** CX 6.0 MPV**
Contacts (outer diameter) quick coupling							 CX 3.0 MPQM** CX 4.0 MPQM** CX 6.0 MPQM** CX 3.0 MPAM** CX 4.0 MPAM** CX 6.0 MPAM**	 CX 3.0 MPQF** CX 4.0 MPQF** CX 6.0 MPQF** CX 3.0 MPAF** CX 4.0 MPAF** CX 6.0 MPAF**	 CX 3.0 MPQV** CX 4.0 MPQV** CX 6.0 MPQV** CX 3.0 MPAV** CX 4.0 MPAV** CX 6.0 MPAV**
Module size (Slots)	1			1			1		

* Pneumatic contacts for pressure values up to 8 bar, for use with clean and dry compressed air
** Pneumatic contacts for pressure values up to 10 bar, for use with clean and dry compressed air
It is recommended to use CRM CX / CRF CX code pins

Pipe diameter	**Ø 8 – Ø 10**		
Locations for contacts	**2**		
Code (add M or F at the end for male and female)	 **CX 02 MPB**		
Contacts (internal diameter) hose gland coupling	**Male**	**Female**	**Female with shut-off valve**
	 **CX 8.0 MPM** CX 10 MPM****	 **CX 8.0 MPF** CX 10 MPF****	 **CX 8.0 MPV** CX 10 MPV****
Contacts (outer diameter) quick coupling	 **CX 8.0 MPQM** CX 10 MPQM****	 **CX 8.0 MPQF** CX 10 MPQF****	 **CX 8.0 MPQV** CX 10 MPQV****
Module size (Slots)	 **1 2**		



** Pneumatic contacts for pressure values up to 10 bar, for use with clean and dry compressed air

It is recommended to use CRM CX / CRF CX code pins

Current	**16 A**	**16 A**	**40 A**
Voltage	**2500 V**	**2900/5000 V**	**2900/5000 V**
Number of poles	**2**	**2**	**2**
Code (add M or F at the end for male and female)	 **CX 02 CH**	 **CX 02 H**	 **CX 02 4H**
Wiring	**Crimp**	**Crimp**	**Crimp**
Contacts (to be purchased separately)	 **CCFA – CCMA** (silver plated)  **CCFD – CCMD** (gold plated)	 **CCFA – CCMA** (silver plated)  **CCFD – CCMD** (gold plated)	 **CXFA – CXMA**
Module size (Slots)	1	1 2	1 2

For pictures of contacts and crimping tools refer to page 19

To complete the contact part number add the wire cross sectional area (e.g. CDMA 1.0 = 1 mm²)

	MIXO Gigabit*	MIXO Megabit*	MIXO BUS				RJ45
	Cat. 6_A shielded	Cat. 5e shielded	Ethernet, Feldbus				Cat. 6_A Ethernet, Feldbus
Current	5 A – 50 V	10 A – 50 V	10 A – 50 V	10 A – 50 V	10 A – 50 V	16 A – 50 V	1 A – 50 V
Number of poles	8	8	1	4	8	1	8
Code (add M or F at the end for male and female)	 CX 08 I6	 CX 08 D5 CX 08 D5..2	 CX 02 B + CX 01 B	 CX 02 B + CX 04 B	 CX 02 B + CX 08 B	 CX 02 B + CX 01 BC	A list of the possible combinations can be found on page 47 of this guide.
Wiring	Crimp	Crimp	Crimp	Crimp	Crimp	Crimp	Crimp or IDC
Contacts	CIFD – CIMD	CDFD – CDMD	CDFA – CDMA	CDFA – CDMA	CIFD – CIMD	CCFA – CCMA	Built-in
Module size (Slots)	1	1	1 2	1 2	1 2	1 2	1
Accessories	**Cable Clamp:** **CX 5/7 CA** **CX 7/10 CA** **CX 10/12 CA** **CX 11/14 CA** according to the diameter of the cable	**Cable Clamp:** **CX 5/7 CA** **CX 7/10 CA** **CX 10/12 CA** **CX 11/14 CA** according to the diameter of the cable	The shield of the BUS modules is not connected to the PE potential of the housing. To earth the shield, please use appropriate shield brackets or the earthing adapter **CR GND.**				

* For use in high construction enclosures

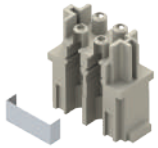
For pictures of contacts and crimping tools refer to page 19

To complete the contact part number add the wire cross sectional area (e.g. CDMA 1.0 = 1 mm^2)

It is recommended to use CRM CX / CRF CX code pins. For other types of connections (e.g. optical fibre, D-SUB, USB) contact the reference technician

	MIXO shielded	MIXO HDMI HDMI – Type A		MIXO D-SUB
Current	4 A	0,5 A		5 A
Voltage	32 V	40 V		50 V
Number of poles	20			9
Code	 CX 20S IF CX 20S IM	Male  CX 01 MIM	Female  CX 01 MIF	 CX 01 9VF / 9VF2 CX 01 9VM / 9VM2
Wiring	Crimp	Patch cord		Crimp
Contacts (to be purchased separately)	 CIFD – CIMD	for male module  CW 2 MIAM CW 5 MIAM	for female module	 CIFD – CIMD
Module size (Slots)	1	1	1	1
Accessories	Cable clamp CX 5/7 CA CX 7/10 CA CX 10/12 CA CX 11/14 CA		 CW 2 MIAF CW 5 MIAF	It is recommended to use code pins CRM CX / CRF CX

For pictures of contacts and crimping tools refer to page 19
To complete the contact part number add the wire cross sectional area (e.g. CDMA 1.0 = 1 mm²)

	MIXO Fibre optic				
Number of poles	4		6		4
Code (add M or F at the end for male and female)	 CX 04 SC		 CX 06 LC		 CX 04 L
Wiring	**Patch cord**	**SC contact**	**Patch cord**	**LC contact**	**POF contact**
Single-mode (GI FIBRE)	 CW..SC9	 CL 9/125 SC	 CW..LC9	 CL 9/125LC2 CL 9/125LC3	
Multi-mode (GI FIBRE)	 CW..SC50 CW..SC62	 CL 125 SC	 CW..LC50 CW..LC62	 CL 125 LC2 CL 125 LC3	
Multi-mode (POF FIBRE)		 CL POF SC			 CX PLM* CX PLF*
Module size (Slots)	1		1		1

* MOST Multi-mode contacts available on request.

To complete the part numbers of the patch cables, the cable lengths must be added (for example CW 1 SC9 for 1 m cable length).

Solutions with MIXO adapters

Female module

CX 01 J8F
(female-female
for male plug RJ45)

CX 01 J8AIF
(RJ45-IDC Modul)e – TIA 568A

CX 01 J8BIF
(RJ45-IDC Module) – TIA 568B

CX 01 J8PIF
(RJ45-IDC Module) – PROFINET

Adapter and RJ45 male IDC connector

CX 8 J6IM*
+
CX 01 J8IM

Adapter and RJ45 male crimp connector

CX 8 J6M
CJPZ T required
crimping tool
+
CX 01 J8M

* For use in high construction enclosures

Solution with MIXO universal RJ45 adapter

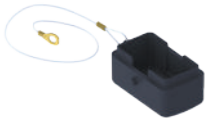
Adapter for patch cord

CX 01 J8UM

**Watch
our online
tutorial**

MIXO ONE and MIXO TWO enclosures

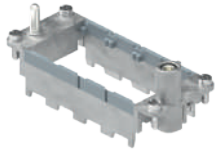
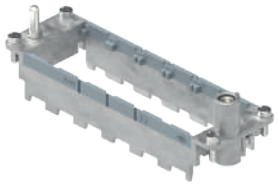
Robust and compact metal enclosures for connections
with a single MIXO module (MIXO ONE)
or two single MIXO modules (MIXO TWO).

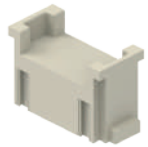
	Bulkhead mounting	Straight hood	Angled hood	Covers	Coding pins
MIXO ONE	 **CXA 01 I**	 **MXA 01 V25** **MXA 01 V32**	 **MXA 01 O25**	 **CXP 01 C** with pegs and eyelet  **CXP 01 CLG** with lever and loop	 **CR CX01R**  **CR CX01B**  **CR CX01N**  **CR CX01G**

The 4 MIXO ONE code pins offer up to 16 different coding combinations that can be consulted in the general catalogue.

		Bulkhead mounting		Straight hood	Angled hood	Covers
MIXO TWO	Straight	 CXA 02 I		 MXA 02 V25 MXA 02 V32	 MXA 02 O25 MXA 02 O32	 CXP 02 C with pegs and eyelet
	Angled	without cable entry, open bottom flange				
		 CXA 02 IA				 CXP 02 CLG with lever and loop
		with cable entry, open bottom flange	with cable entry, closed bottom flange			
		 CXA 02 IAP25 CXA 02 IAP32	 CXA 02 AP25 CXA 02 AP32			

1. The chosen modular units are added, paying attention to how many slots they occupy in the fixing frame.
2. The reference frame is chosen:

MIXO frames	1	1 2	1 2 3	1 2 3 4	1 2 3 4 5 6
					
	CX 01 T	CX 02 TM/TF	CX 03 TM/TF	CX 04 TM/TF	CX 06 TM/TF
Enclosure size					
	Size 49.16	Size 44.27	Size 57.27	Size 77.27	Size 104.27

3. As a result, the size of the enclosure is chosen.
4. If the modules do not fill the entire frame, the dummy CX FM module is used 

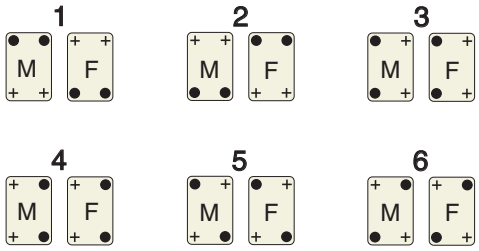
The module frames are made of zinc alloy

Coding pins for standard and MIXO series connectors

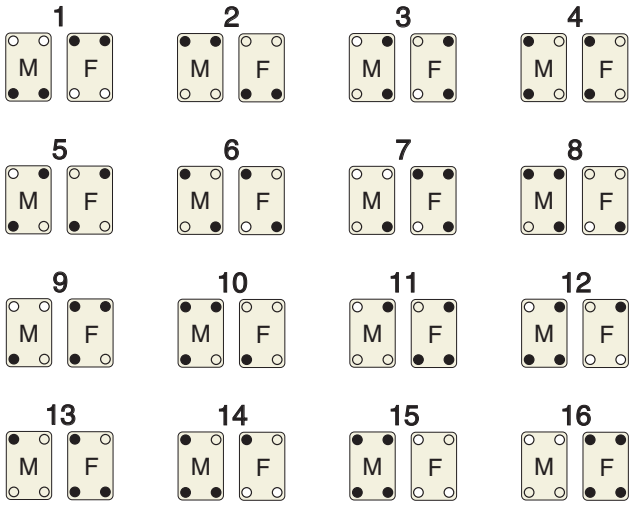
When a number of identical connectors with different functions are mounted closely together, these must be selected in such a way as to prevent the coupling of a mobile part on a non-corresponding fixed part and consequent damage and breakdown. Coding pins are supplied to be applied in lieu of the normal insert fastening screws.

Coding pins	Standard Connectors		MIXO series connectors	
CODINGS	STAINLESS	GALVANISED	STAINLESS	GALVANISED
Up to 6	CR 20	CR 20 D	CR 20 CX	CR 20 CX D
Up to 16	CRM CRF	CRM D CRF D	CRM CX CRF CX	CRM CX D CRF CX D
Up to 72	CR 72	CR 72 D	CR 72 CX	CR 72 CX D

Application examples



● code pin (CR 20/CR 20 D and CR 20 CX/CR 20 CX D)
+ normal fixing screw
M = plug receptacle
F = socket-outlet receptacle

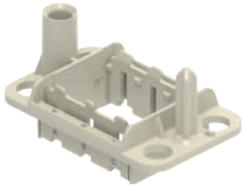
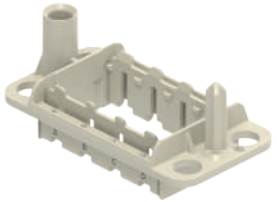
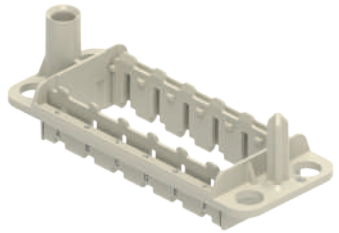


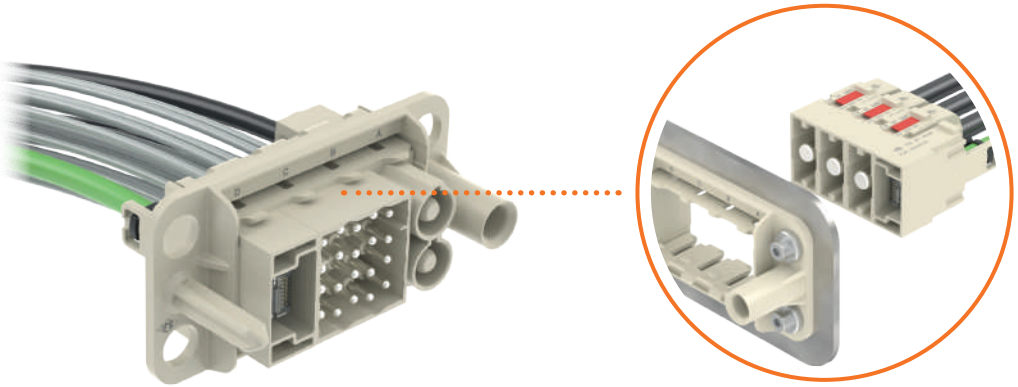
● female code pin (CRF/CRF D and CRF CX/CRF CX D)
○ male code pin (CRM/CRM D and CRM CX/CRM CX D)
M = plug receptacle
F = socket receptacle

All coding combinations can be consulted in the general catalogue

1. **The MIXO modules are mounted in the docking frame. The appropriate docking frame is choosen depending on how many slots are occupied.**
2. **The following docking frames are available:**

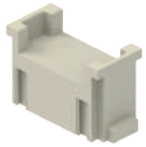
Thermoplastic docking frames

1 2	1 2 3	1 2 3 4	1 2 3 4 5 6
			
CX 02 PDF/PDM	**CX 03 PDF/PDM**	**CX 04 PDF/PDM**	**CX 06 PDF/PDM**



Installation by simply snapping the MIXO modules monobloc into place, frame made of thermoplastic material UL 94 V-0

3. **the modules do not fill the entire frame, the dummy CX FM module is used**



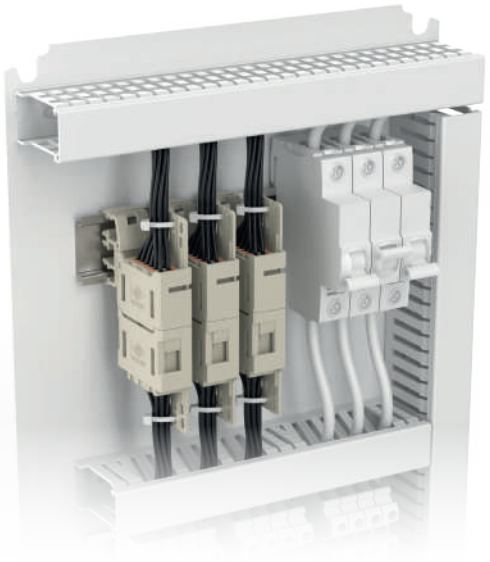
Insulating holders for 1-slot sized MIXO modules

It consists of a 2-part insulating holder with snap-in lateral lockings between the two parts and strain relief capability to be used where needed.

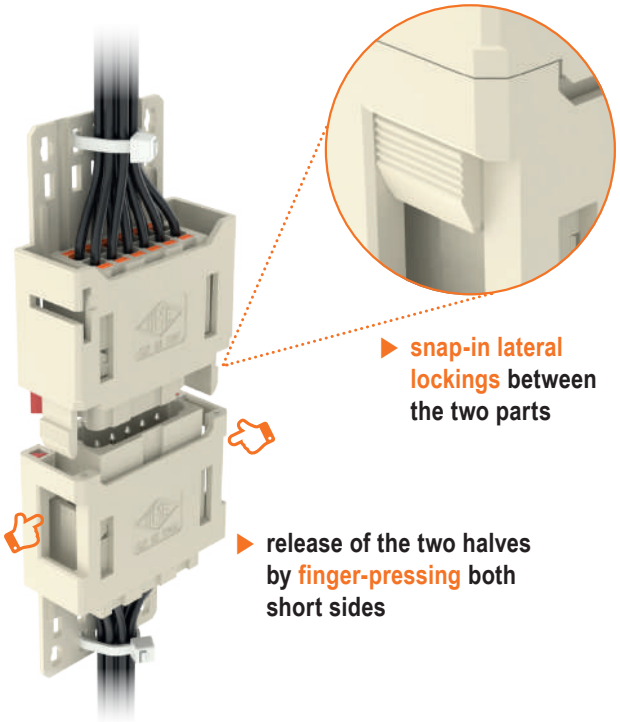
By using CX 01 TP insulating holder, single-sized MIXO modules can form a locked connector coupling that can be:

- free (e.g., inside a cable tray);
- flat-fixed by 4 screws to the back-plane of a panel.

Additionally, when fitted with the CX APE optional adapter, it can be fixed to the EN 60715 rails (not provided).



MIXO Holder		CX 01 TPF
		CX 01 TPM
Accessories		CX APE
		CR Q03/2



▶ snap-in lateral lockings between the two parts

▶ release of the two halves by finger-pressing both short sides

▶ Up to 16 different codings option with optional CR Q03/2 coding pins (4 coding pins per each connector coupling).

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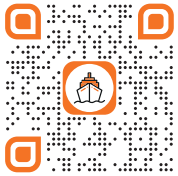
your technical requirements



Applications Pages
focused on the installation areas,
the requirements of each sector
and the technical details

Certifications Area
for information and documentation
on declarations of conformity