JAYCOR
INTERNATIONAL

ILME

Industrial Connectors

General Features

❶ Threaded cable passage in various Pg diameters (types with pre-code "C") or metric passage (types with pre-code "M") in accordance with EN 60423, for cable entry devices in accordance with EN 50262 (NPT threading on request), may be located vertically, horizontally or frontally.

❷ Heavy duty enclosures in die-cast aluminium alloy or self-extinguishing thermoplastic (CK and MK series).
cRUus (E) certified
Wall mounting or bulkhead housings and hoods are available, with or without fixed covers or with mobile protection covers.
The types of enclosures CH-CA (Pg cable entries) and MH-MA (metric cable entries) have a tab that prevents the insertion of inserts series CME (all) and CMCE (only 16+2 poles), while CM (Pg) enclosures series and MM (metric) do not have any tabs and contain supplementary insulating strips inside.

❸ Metallic enclosures with a coated finish of epoxy-polyester with high resistance to mechanical stress and external agents. Enclosures used with temperatures of up to 180 °C and in aggressive environments are treated with special coatings. Where electromagnetic compatibility is necessary: EMC enclosures with high conductivity and high corrosion resistance surface treatment.

❹ Inserts in self-extinguishing thermoplastic material reinforced with glass fibres, UL approved, with a limit working temperature from -40 °C to +125 °C.
The inserts CME (all) and CMCE (only 16+2 poles) for 830V have a key that prevents the insertion of inserts for use other than that prescribed (types CM - Pg and MM - metric).
For some series, inserts in PPS (polyphenylene sulphide) may be requested for special uses with temperatures of up to 180 °C.

❺ Polarized inserts with asymmetric guide rails for preventing incorrect coupling.
The inserts have a mechanical duration equal to or over 500 coupling cycles.

❻ Inserts manufactured in conformity with EN 61984 (DIN VDE 0627 standard and are certified and identified with the UL and CSA marks.

❼ Special seal gaskets in vinyl nitrile elastomer or fluoro elastomer (on enclosures for use with maximum temperatures of 180 °C and for aggressive environments), in anti-aging, oil-resistant, fuel-resistant, together with the cable entry devices (not supplied) provide an IP66 degree of protection for coupled connectors.
Special conductive seals for EMC enclosures.

❽ Stainless steel closure levers and springs guarantee a perfect closure and sealing.

❾ Locking device available in two versions, simple (with one lever), or double (with two levers).

❿ Various types of handles are available: in self-extinguishing, thermoplastic material reinforced with glass fibres; in die-cast aluminium (for special use with temperatures of up to 180 °C); monoblock stainless steel handles (CK, CZ, MK, MZ enclosures and for special uses with temperatures of up to 180 °C).

⓫ Unlosable insert fastening screws, with antiloosening flexible washer.

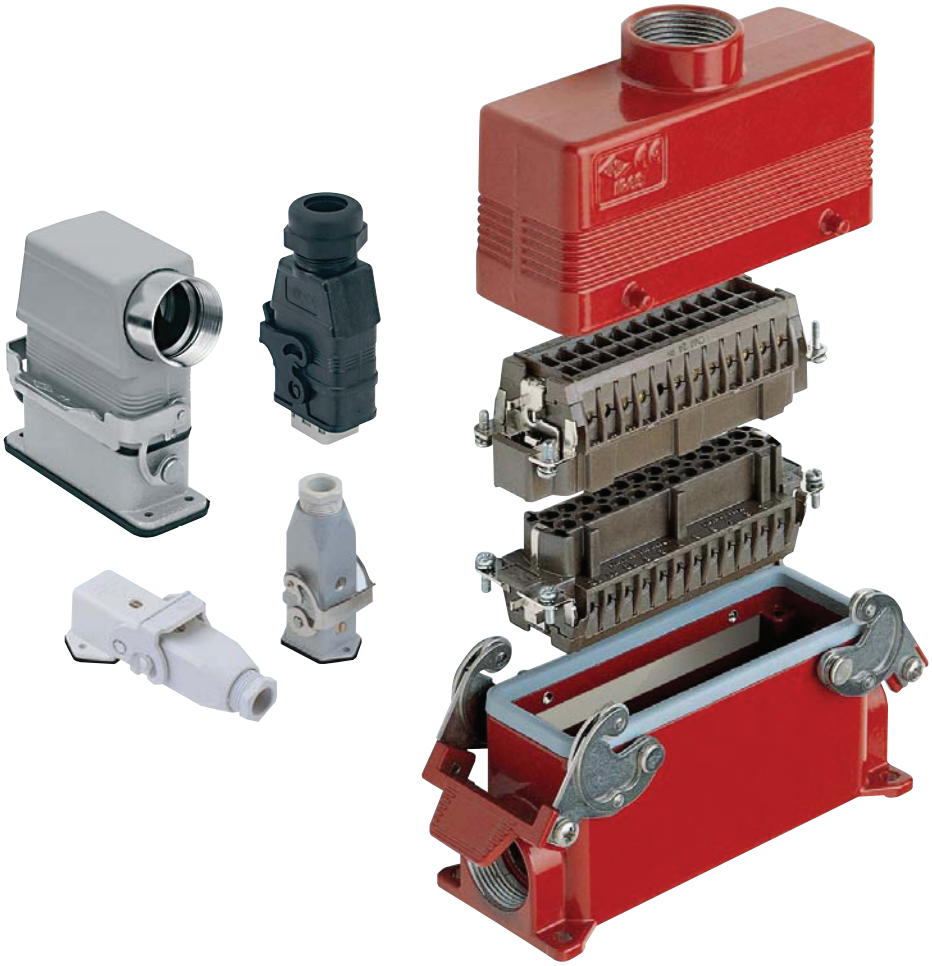
⓬ Contacts position identified with numbers or codes on both sides of each insert and laser printed or moulded.

⓭ Contacts in silver or gold-plated brass with connections to the conductors made via unlosable unloosened screws, spring terminal, crimping or incorporated 45° terminal block connectors (with screw or spring terminal).

⓮ Earth terminal protection with wide contact surface.

⓯ Pegs and levers supplied with anti-friction rings that facilitate closure and limit wear and tear.

⓰ CE marking attesting conformity to the requirements of the Low Voltage directive 73/23/EEC and its modification 93/68/EEC.



Insert Overview

Inserts series	No. of poles [1]			EN 61984 (2001-11) pollution degree 3			EN 61984 (2001-11) pollution degree 2			UL/CSA certification [3]	certifications [3]
code	main contacts + m	auxiliary contacts	rated current [4]	rated voltage	rated impulse withstand voltage	pollution degree	rated voltage	rated impulse withstand voltage	pollution degree	rated voltage AC or DC	
CK	3, 4	---	10A	250V	4kV	3	230/400V	4kV	2	600V	UL, CSA, CCC, GL
CKS	3, 4	---	1 0A	400V	4kV	3				600V	(UL), (CSA)
CD	8 (without m)	---	1 0A	50V	0.8kV	3				50V	UL, CSA, CCC, GL
CD	7, 15, 25, 40, (50), 64, (80), (128)	---	10A	250V [2]	4kV	3	230/400V [2]	4kV	2	600V	UL, CSA, CCC, GL
CT	40, 64	---	10A	250V	4kV	3	230/400V	4kV	2	600V	UL, CSA, CCC, GL
CTS	40, 64	---	10A	250V	4kV	3	230/400V	4kV	2	600V	UL, CSA, CCC, GL
CDD	24, 38, 42, 72, (76), 108, (144), (216)	---	1 0A				250V	4kV	2	600V	UL, CSA, CCC, GL
CQ 12	12	---	10A	400V	6kV	3	400/690V	6kV	2	600V	(UL), (CSA)
CQ 05	5	---	16A	230/400V	4kV	3	320/500V	4kV	2	600V	UL, CSA, CCC, GL
CQ 04/2	4	--- 2	40A 10A	400/690V 250V	6kV 4kV	3 3				600V	cUL [A]
CQ 08	8	---	16A	500V	6kV	3	400/690V	6kV	2	600V	cUL [A], CCC
CDA	10, 16, (32)	---	16A	250V	4kV	3	230/400V	4kV	2	600V	UL, CSA, CCC, GL
CDC	10, 16, (32)	---	16A	250V	4kV	3	230/400V	4kV	2	600V	UL, CSA, CCC, GL
CQE	10, 18, 32, 46, (64), (92)	---	16A	500V [2]	6kV	3	830V [2]	8kV	2	600V	UL, CSA, CCC, GL
CCE	6, 10, 16, 24, (32), (48)	---	16A	500V	6kV	3	400/690V	6kV	2	600V	UL, CSA, CCC, GL
CN	6, 10, 16, 24, (32), (48)	---	1 6A				400V	4kV	2	600V	UL, CSA, CCC, GL
CNE	6, 10, 16, 24, (32), (48)	---	16A	500V	6kV	3	400/690V	6kV	2	600V	UL, CSA, CCC, GL
CSE	6, 10, 16, 24, (32), (48)	---	16A	500V	6kV	3	400/690V	6kV	2	600V	UL, CSA, CCC, GL
CSS	6, 10, 16, 24, (32), (48)	---	16A	500V	6kV	3	400/690V	6kV	2	600V	UL, (CSA), CCC
CTE (**)	6, 10, 16, 24	---	16A	500V (**)	6kV	3				600V	(UL), (CSA), CCC, GL
CTSE	6, 10, 16, 24	---	16A	500V	6kV	3	400/690V	6kV	2	600V	UL, (CSA), CCC, GL
CME	3, 6, 10, (12), (20), (32) 16	--- --- 2, (4)	16A	830V 400/690V 500V	8kV 6kV 6kV	3 3 3	1000V 720/1250V	8kV 8kV	2 2	600V	UL, (CSA), CCC
CMSE	3, 6, 10, (12), (20)	--- 2, (4)	16A	830V 500V	8kV 6kV	3 3	1000V 720/1250V	8kV 8kV	2 2	600V	UL, (CSA), CCC
CMCE	3, 6, 10, (12), (20), (32) 16	--- --- 2, (4)	16A	830V 400/690V 500V	8kV 6kV 6kV	3 3 3	1000V 720/1250V	8kV 8kV	2 2	600V	UL, (CSA), CCC
CP	6, (12)	---	35A	400/690V	6kV	3				600V	UL, CSA, CCC
CX 8/24	8	--- 24	16A 10A	230/400V 160V	4kV 2.5kV	3 3	400V 250V	4kV 4kV	2 2	600V	UL, CSA, CCC, GL
CX 6/36	6	--- 36	40A 10A	690V 160V	8kV 2.5kV	3 3	250V	4kV	2	600V	UL, CSA, CCC, GL
CX 12/2	12	--- 2	40A 10A	690V 250V	8kV 4kV	3 3				600V	UL, CSA, CCC, GL
CX 4/0	4	0	80A	690V	8kV	3				600V	UL, CSA, CCC, GL
CX 4/2	4	--- 2	80A 16A	690V 400V	8kV 6kV	3 3	400/690V	6kV	2	600V	UL, CSA, CCC, GL
CX 4/8	4	--- 8	80A 16A	400V 230/400V	6kV 4kV	3 3	400/690V 400V	6kV 4kV	2 2	600V	UL, CSA, CCC, GL

(**) = until stocks of CT series connectors with rated voltage 400V - 4kV - 2, UL, CSA certified last

N.B. : all inserts have a mechanical life equal to or higher than 500 mating cycles

1) Polarities shown in brackets may be achieved by using two inserts.
2) Contacts partially fitted inside an insert allow inserts to be used for applications requiring rated voltages higher than tho se shown.
See tables in page 38 (CD inserts), page 52 (CDD inserts) and page 73 (CQE inserts)
3) Certifications shown in brackets are currently being applied for.
4) Please check the insert load curves to establish the actual maximum operating current according to the ambient temperature.
See diagrams from page 28 to page 34
A) UL for USA and Canada

Miniature CK Multipole Connectors

3, 4 & 7 Poles + Earth, 10 Amp – 250V a.c.

- Inserts in self extinguishing polyamid
- Metallic enclosures in die-cast aluminium alloy, grey coated finish with epoxy powder
- Contacts in silver-plated copper alloy
- Zinc – plated metallic parts
- Gaskets in anti-aging rubber
- Screw terminals for cable-sections up to 1,5 sq. mm, wire gauge AWG 18-14
- Degree of protection for coupled connectors IP 44 (CEI 70-1)

	Female Inserts		Male Inserts
	3 poles + E Part No: JCCKF03		3 poles + E Part No: JCCKM03
	4 poles + E Part No: JCCKF04		4 poles + E Part No: JCCKM04
	7 poles + E (shell only) Part No: JCCDF07 (Uses female crimp pins – See Below)		7 poles + E (shell only) Part No: JCCDM07 (Uses male crimp pins – See Below)
Female Silver Crimp Pin 0,14mm2/0,37mm2 Conductor: JCCDFA0,3		Male Silver Crimp Pin 0,14mm2/0,37mm2 Conductor: JCCDMA0,3	
Female Silver Crimp Pin 1,0mm2 Conductor: JCCDFA1,0		Male Silver Crimp Pin 1,0mm2 Conductor: JCCDMA1,0	

Housings		Straight Bulkhead Types: Thermoplastic: JCCK031 Metal: JCCKA031		Angled bulkhead types: Thermoplastic: JCCK031A Metal: JCCKA031A
Hoods		Standard Hoods Thermoplastic: JCCK03V Metal: JCCKA03V		Hoods with coupling clips: Thermoplastic: JCCK03VG Metal: JCCKA03VG
Right Angle Hoods		Right Angle Hoods Thermoplastic: JCCK03VA Metal: JCCKA03VA		
Housing Covers		Thermoplastic: JCCK03C Metal: JCCKA03C		

Additional housings and inserts are available on special request.

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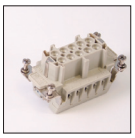
Multipole Rectangular Connectors

6, 10, 16 & 24 Poles + E, 16 Amp – 380V a.c. 72 Poles + E 10Amp - 250V a.c.

- Inserts in glass-fibre reinforced polycarbonate (UL approved)
- Enclosures in die-cast aluminium alloy, grey coated finish with epoxy powder
- Contacts in silver-plated copper alloy
- Stainless steel metallic parts
- Gaskets in anti-aging rubber
- Screw terminals for cable-sections up to 2,5 sq. mm, wire gauge AWG 18-14 (72 Pole version crimp pins AWG 26-22)
- Unlosable screws, already unscrewed, torsion torque 0,5 Nm
- Degree of protection for coupled connectors IP 65 (CEI 70-1)

Inserts

Crimp Pins



Female Inserts

Poles	Part No.
6+E	JCCNF06
10+E	JCCFN10
16+E	JCCNF16
24+E	JCCNF24
72+E (Crimp)	JCCNF72
	JCCDFA0,3 (Crimp Pin)

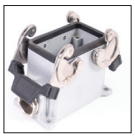
Male Inserts

Poles	Part No.
6+E	JCCNM06
10+E	JCCNM10
16+E	JCCNM16
24+E	JCCNM24
72+E (Crimp)	JCCNM72
	JCCDMA0,3 (Crimp Pin)

Housings

Bulkhead Type

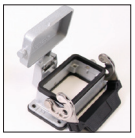
Poles	Part No.
6+E	JCCHI06L (1 Lever)
10+E	JCCHI10
16+E	JCCHI16
24+E	JCCHI24



Surface Type

Poles	Part No.
6+E	JCCHP06L (1 Lever)
10+E	JCCHP10
16+E	JCCHP16
24+E	JCCHP24

Housings with Covers



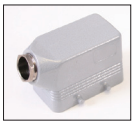
Bulkhead Type with Spring Cover

Poles	Part No.
6+E	JCCHI06LS
10+E	JCCHI10LS
16+E	JCCHI16LS
24+E	JCCHI24LS

Surface Type with Spring Cover

Poles	Part No.
6+E	JCCHP06LS
10+E	JCCHP10LS
16+E	JCCHP16LS
24+E	JCCHP24LS

Hoods



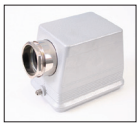
Side Entry

Poles	Part No.
6+E	JCCHO06L 13 (1 Lever)
10+E	JCCHO10
16+E	JCCHO16
24+E	JCCHO24

Top Entry

Poles	Part No.
6+E	JCCHV06L13 (1 Lever)
10+E	JCCHV10
16+E	JCCHV16
24+E	JCCHV24

Hoods for Housings with Spring Covers



Side Entry (1 Lever)

Poles	Part No.
6+E	JCCHO06L13
10+E	JCCHO10L
16+E	JCCHO16L
24+E	JCCHO24L

Top Entry (1 Lever)

Poles	Part No.
6+E	JCCHV06L13
10+E	JCCHV10L
16+E	JCCHV16L
24+E	JCCHV24L

Hoods with Lever's

Top Entry

Poles	Part No.
6+E	JCCHV06LG (1 Lever)
10+E	JCCHV10LG
16+E	JCCHV16LG
24+E	JCCHV24LG

Dust Covers

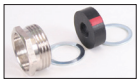
Covers for Housings

Poles	Part No.
6+E	JCCHC06L (1 Lever)
10+E	JCCHC10
16+E	JCCHC16
24+E	JCCHC24

Covers for Hoods

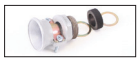
Poles	Part No.
6+E	JCCHC06LG (1 Lever)
10+E	JCCHC10G
16+E	JCCHC16G
24+E	JCCHC24G

Accessories



Cable sealing gland in brass with multiple gasket (various sizes)

Screw connection for flexible conduits in nickel-plated brass (various sizes)



Cable clamp with collar (various sizes)

blocking screw (various sizes)

Additional housings and inserts are available on special request.

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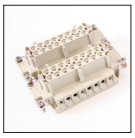
Multipole Rectangular Connectors

32 & 48 Poles + E, 16 Amp – 380V a.c.

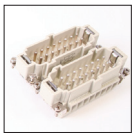
- Inserts in glass-fibre reinforced polycarbonate (UL approved)
- Enclosures in die-cast aluminium alloy, grey coated finish with epoxy powder
- Contacts in silver-plated copper alloy
- Stainless steel metallic parts
- Gaskets in anti-aging rubber
- Screw terminals for cable-sections up to 2,5 sq. mm, wire gauge AWG 18-14
- Unlosable screws, already unscrewed, torsion torque 0,5 Nm
- Degree of protection for coupled connectors IP 65 (CEI 70-1)

Inserts



Female Inserts

Poles	Part No.
16+E (1-16)	JCCNF16
24+E (1-24)	JCCFN24
16+E (17-32)	JCCNF16N
24+E (25-48)	JCCNF24N



Male Inserts

Poles	Part No.
16+E (1-16)	JCCNM16
24+E (1-24)	JCCFM24
16+E (17-32)	JCCNM16N
24+E (25-48)	JCCNM24N

Housings

Bulkhead Type

Poles	Part No.
32+E	JCCHI32

Surface Type

Poles	Part No.
32+E	JCCHP32

Housings with Covers

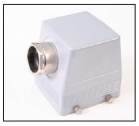
Bulkhead Type with Spring Cover

Poles	Part No.
32+E	JCCHI32LS
48+E	JCCHI48LS

Surface Type with Spring Cover

Poles	Part No.
32+E	JCCHP32LS
48+E	JCCHP48LS

Hoods



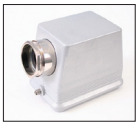
Side Entry

Poles	Part No.
32+E	JCCHO32

Top Entry

Poles	Part No.
32+E	JCCHV32

Hoods for Housings with Spring Covers



Side Entry (1 Lever)

Poles	Part No.
32+E	JCCHO32L
48+E	JCCNE48OP

Top Entry (1 Lever)

Poles	Part No.
32+E	JCCHV32L
48+E	JCCNE48VP

Hoods with Lever's

Top Entry

Poles	Part No.
32+E	JCCHV32G

Dust Covers

Covers for Housings

Poles	Part No.
32+E	JCCHC32

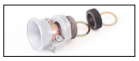
Covers for Hoods

Poles	Part No.
32+E	JCCHC32G

Accessories

Cable sealing gland in brass with multiple gasket (various sizes)

Screw connection for flexible conduits in nickel-plated brass (various sizes)



Cable clamp with collar (various sizes)

blocking screw (various sizes)

Additional housings and inserts are available on special request.

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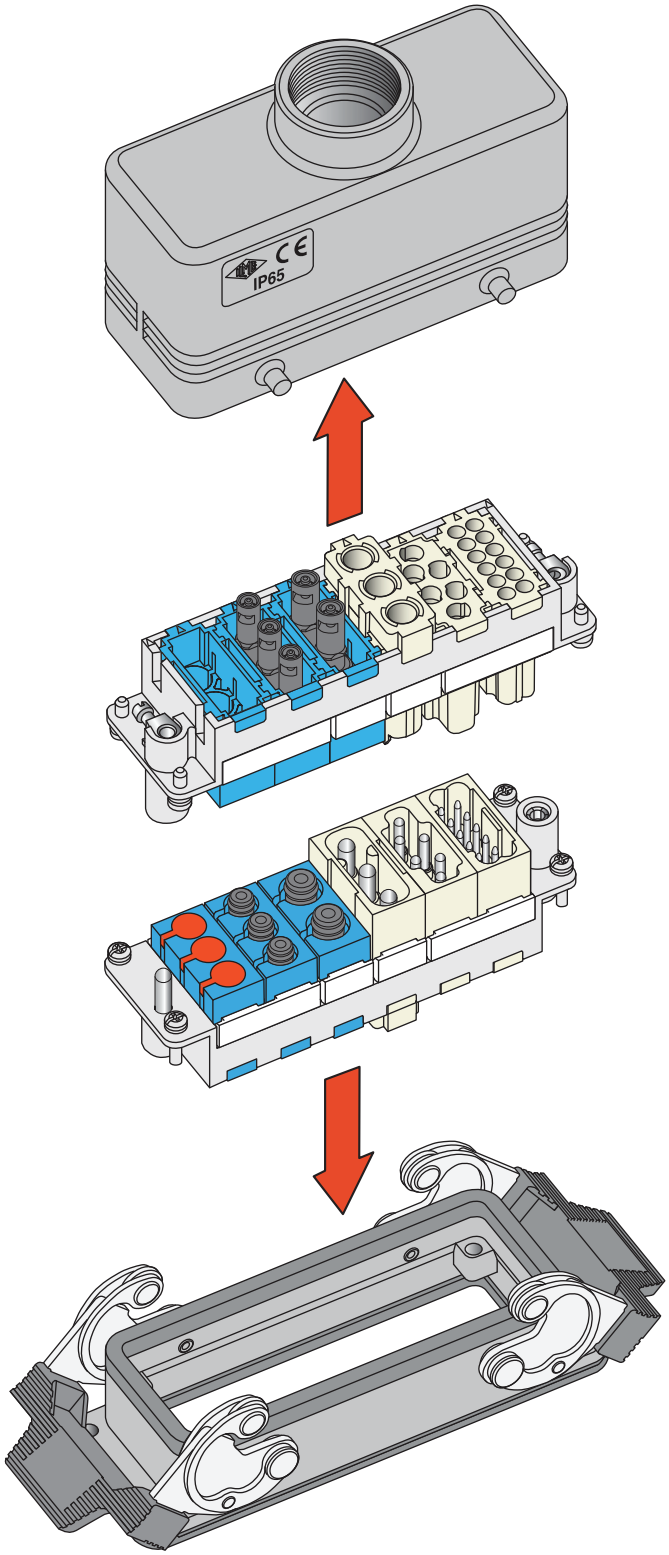
MIXO - Modular Units for Multipole Connectors



The MIXO series is a system of modular units for special applications that uses the traditional ILME enclosures.

Each enclosure can house different types of connections such as, for example: electric signals and contacts for the conduction of compressed air and liquids with pressure values of up to 8 bars.

The inserts are arranged side by side to form a single compact block which is inserted into metallic frames with mandatory housings. Once the modules have been inserted and locked with the special tabs, the connector can then be inserted into the enclosure.

The modular structure system makes it easy to access a series of contacts inserted in the frame (e.g., for substitution, checks or the addition of signals with new inserts for needs not foreseen during the initial installation) without having to disassemble the entire connector.

The use of standard die-cast alluminium enclosures with degree of protection IP65 provides the possibility of innumerable applications.

The MIXO series may be used with 5 different frame sizes.
The following table lists the frames and the metallic enclosures that may be used.

frames	one or two-lever metallic enclosures
CX 01 T	size “49.16”
CX 02 TM/TF	size “44.27”
CX 03 TM/TF	size “57.27”
CX 04 TM/TF	size “77.27”
CX 06 TM/TF	size “104.27”
CX 04 TM/TF (x 2)	size “77.62”
CX 06 TM/TF (x 2)	size “104.62”

In addition, the MIXO series can be used with the COB series panel supports

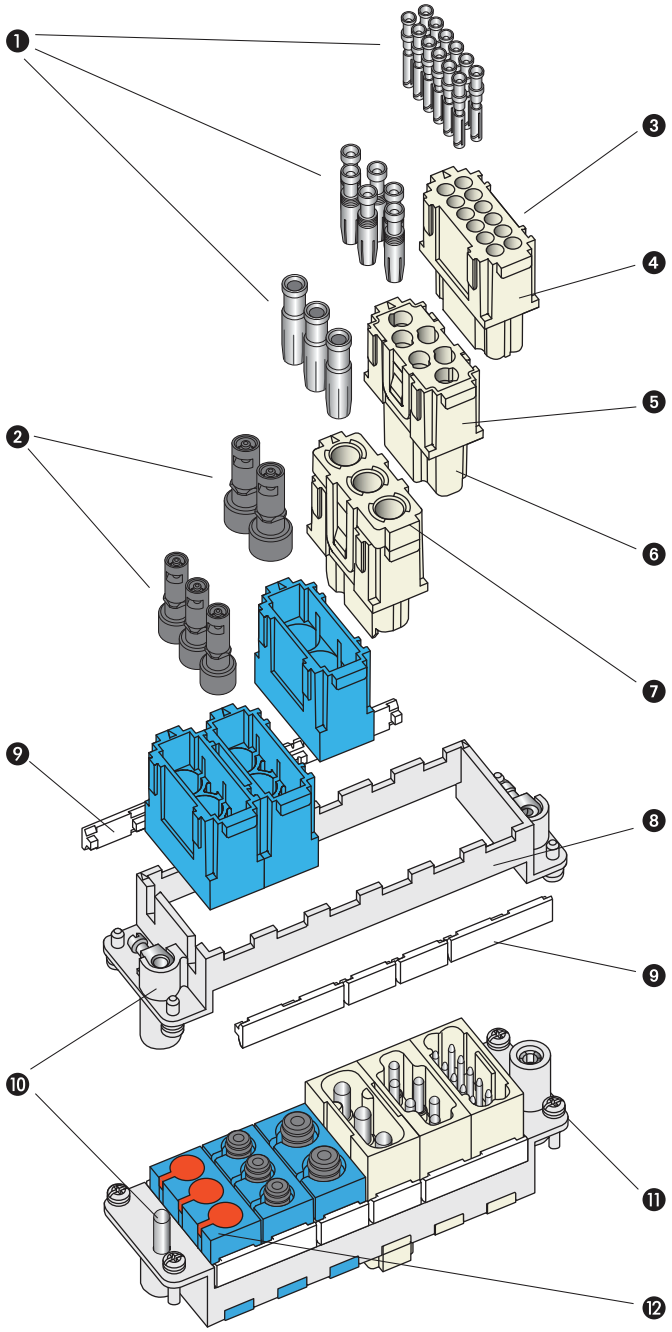
frames	panel supports part No.	
CX 02 TM/TF	fixed:	COB 06 BC and COB TCQ
	mobile:	COB TSF , COB TSFS and COB 06 CMS
CX 03 TM/TF	fixed:	COB 10 BC and COB TCQ
	mobile:	COB TSF , COB TSFS and COB 10 CMS
CX 04 TM/TF	fixed:	COB 16 BC and COB TCQ
	mobile:	COB TSF , COB TSFS and COB 16 CMS
CX 06 TM/TF	fixed:	COB 24 BC and COB TCQ
	mobile:	COB TSF , COB TSFS and COB 24 CMS

The MIXO series currently includes 6 different types of inserts.
The field of application is provided in the table at the bottom of the next page.

MIXO - Modular Units for Multipole Connectors

Characteristics

1. electric contacts in silver-plated or gold-plated brass with connections to the conductors via crimping.
2. pneumatic contacts in plastic with insertion tube connection
3. modular inserts of identical size with insertion system for forming the complete module and frame lock tab.
4. inserts in self-extinguishing thermoplastic material, reinforced with glass fibre, UL 94-V0 approved, with a working temperature range of -40 °C to +125 °C.
5. inserts in conformance with the requirements of the EN 61984 standard and certified and marked with the UL, CSA, CCC, GL marks.
6. inserts with asymmetric guide rails to prevent incorrect coupling.
7. position of contacts identified with numbers or codes on both sides of every insert.
8. male/female module carrier frames with mandatory housings and polarity, in die-cast zinc alloy.
9. module lock tab, may be divided according to the number of modules used; guarantees a perfect stability of the modules during wiring and coupling/uncoupling of the connectors.
10. asymmetric earth contacts (two for frame) with wide contact surface to prevent incorrect coupling; when two or more identical connectors of the MIXO series are used, coded pins prevent incorrect coupling (see pages 269, 270 and 271).
11. captive frame fastening screws, with flexible spring washer.
12. dummy module for unused frame slots.



inserts	contact type	signal type	connectors and tubes connections	rated current A max	rated voltage V	No. of modules footprint
CX 02 GF/M	main	electric	crimp	1 00	1 000	2
CX 02 4AF/M	main	electric	axial screw	40	1 000	1
CX 03 4F/M	main	electric	crimp	40	400/690	1
CX 05 SF/M	main	electric	spring	1 6	400	1
CX 06 CF/M	main	electric	crimp	1 6	500	1
CX 08 CF/M	main	electric	crimp	1 6	400	1
CX 20 CF/M	main	electric	crimp	1 6	500	2
CX 12 DF/M	main / auxiliary	electric	crimp	1 0	250	1
CX 02 HF/M	main	electric	crimp	1 6	2900/5000	2
CX 02 BF/M	multiaxial connectors	see CX 04 B	---	---	---	2
CX 01 BF/M	main / auxiliary + shield	electric	crimp	10	50	---
CX 04 BF/M	main / auxiliary + shield	electric	crimp	10	50	---
CX 03 P	pneumatic Ø 1.6 - 3.0 - 4.0 mm	gas / liquid **	insertion	---	---	1
CX 02 P	pneumatic Ø 6.0 mm	gas / liquid **	insertion	---	---	1
CX FM	none (dummy module)	---	---	---	---	1
CX 01 JF	RJ45 + auxiliary	electric	crimp	---	---	2
CX 02 JF	RJ45 + auxiliary	electric	crimp	---	---	3

** Warning: For obvious reasons of safety, the VDE standard does not permit electric contacts to be present within the same connector group together with contacts for the transmission of liquids.