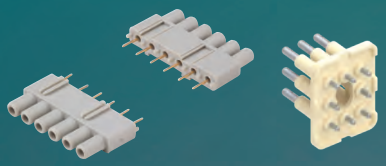
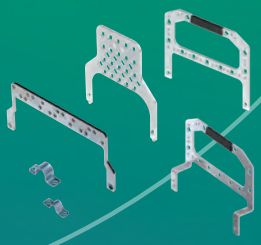
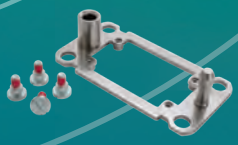
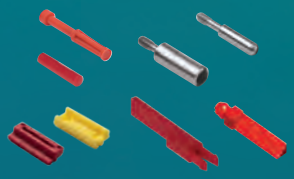
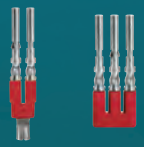
ACCESSORIES AND TOOLS

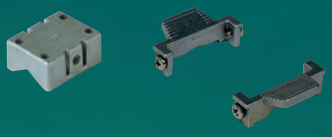


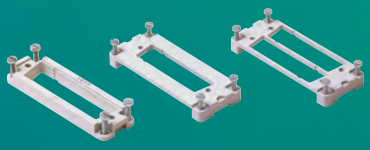












CR CLK locking device for CLASS locking levers

enclosures		page:
CHI	10/16/24 poles + ⏚	**393, 402, 412**
CHP and MHP	10/16/24 poles + ⏚	**394, 403, 413**

stainless steel locking device for two-lever housings

padlock, 40 mm arc clearance, optional

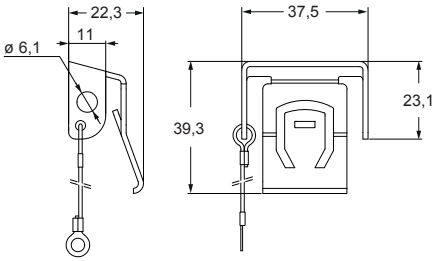
description	part No.	part No.
stainless steel locking device, with eyelet, for fixing on the housings	**CR CLK**	
padlock, supplied with 2 keys		**TM BLC125**

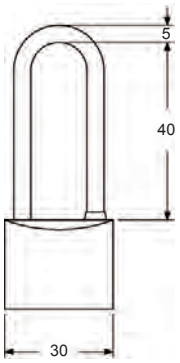
✎ NOTE: Not suitable neither for hoods with locking levers and gasket nor for surface-mounting housings, high profile.

- **Locking device,** made in **stainless steel,** that can be easily placed on the "Class" locking lever handle of a **two-lever bulkhead mounting housing or a "low profile" surface mounting housing** of sizes "57.27", "77.27" and "104.27", in order to avoid unwanted and potentially hazardous accidental opening of the locking lever while the connectors are under working condition;

- **possibility to apply, optionally, a padlock** (**TM BLC125,** separately available, 5 mm shackle diameter, 40 mm arc clearance) with **anti-tamper function,** i.e. to secure the locking against unauthorized attempts to open the locking lever and disconnect the connector coupling;

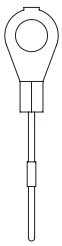
- with eyelet cord end, for fastening the locking device to the intended housing when not in use.





For fixing on housings

eyelet

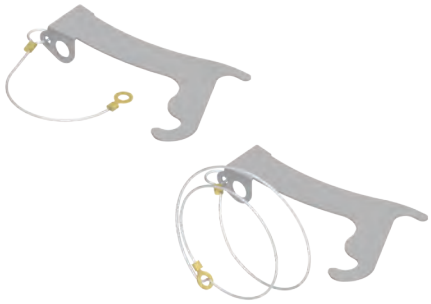


Anti-tamper function by TM BLC125 padlock (to be ordered separately)

CR YLK24 – CR YLK24 SL CENTRAL LEVER

enclosures	page:
Central lever size “104.27”	**612 - 614**

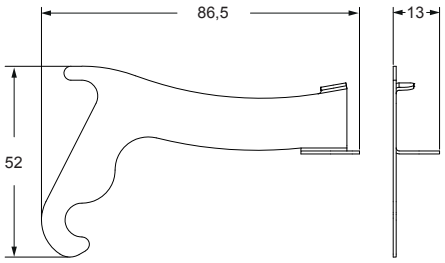
locking device for enclosure with central lever size “104.27”

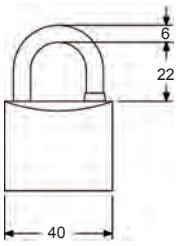


padlock, 22 mm arc clearance, optional

description	part No. (with eyelet)	part No. (with loop)	part. No.
locking device with eyelet for fixing on housings	**CR YLK24**		
locking device with loop for fixing on hoods		**CR YLK24 SL**	
padlock, supplied with 2 keys			**CR BLC622**

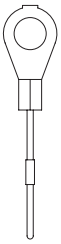
CR YLK24 and **CR YLK24 SL**





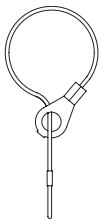
For fixing on housings

eyelet



For fixing on hoods

loop



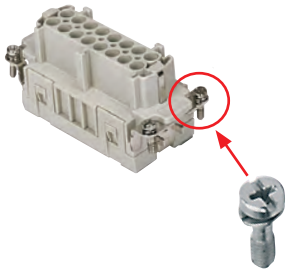
ACCESSORIES

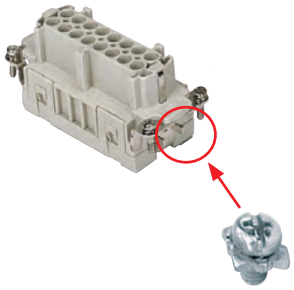
screws

	insert fastening screws	screws for second protective earth terminal (PE)
		
description	part No.	part No.
to be fitted instead of the current insert fastening screws [1]	**CRIC M3**	
for CDA/CDC, CSAH inserts		**CR VATG**
for CD 15/25, CDD 38 inserts		**CR VDTG**
for CD 40/64, CDD 24/42/72/108, CQE, CQEE, CNE, CSS, CX 8/24, CCE, CMSH, CME, CMCE, CSH, CDSH inserts		**CR VNTG**
for CP, CX 12/2, CX 6/36, CX 6/12, CX 4/0, CX 4/2 inserts		**CR VPTG**

[1] The approved method of mounting inserts is by fixing the four screws in an ILME enclosure or housing.

ILME will not be responsible for any different mounting applications. It is the responsibility of the installer to ensure the correct coupling and the continuity of the protective earth contact of the inserts.





support for rail mounting DIN EN 60715

CT/CTS/CTSE inserts coupling screws cable-clamping plates

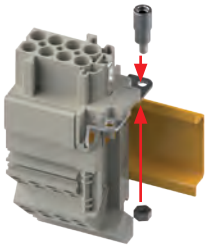
description	part No.	part No.
supports for CT, CTS, CTSE inserts	**CT APE**	
bush for CT, CTS, CTSE inserts screw pin for CD, CNE, CCE, CSH inserts		**CRBF** **CRBM**
straight cable clamping plate angled cable clamping plate		**CRAD** **CRAS**

Coupling screws for CT/CTSE inserts

The use of CRBF (female) and CRBM (male coupling screws is recommended to guarantee a stable and safe coupling between inserts (without enclosures) with terminal blocks and inserts without terminal blocks.

CRBM

CRBF

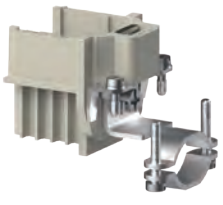


Use of cable-clamping plates

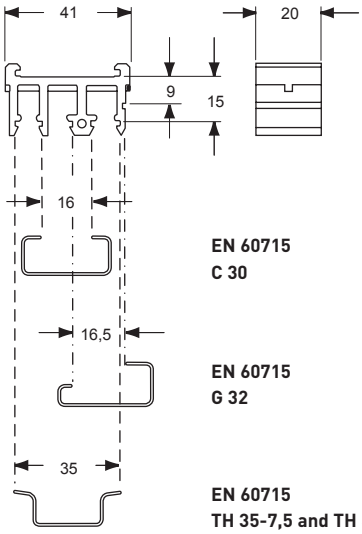
In accordance with the recommendations of standard IEC 60352-2, the weight of the conductor groups or multipolar cables must not cause any stress on the contacts inside the inserts. It is therefore advisable to use cable-clamping plates in those inserts without enclosures.

CRAD

CRAS



CT APE

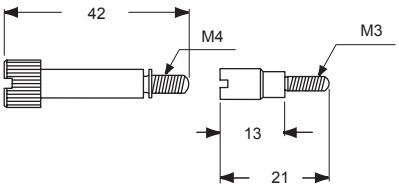


EN 60715
C 30

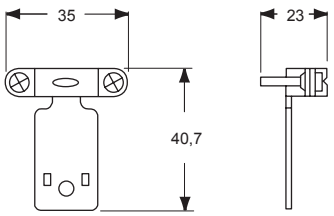
EN 60715
G 32

EN 60715
TH 35-7,5 and TH 35-15

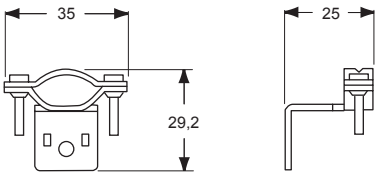
CRBM **CRBF**



CRAD



CRAS

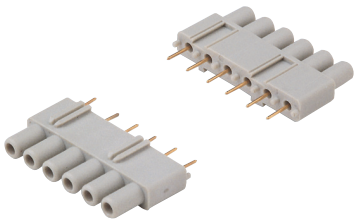


Note:
for conductor groups or cable with
Ø min = 12 mm and Ø max = 23 mm

CIF adattatori PCB

frutti:		pag.:
CDD	24 poli + ⏚	**76**
CDD	42 poli + ⏚	**78**
CDD	72 poli + ⏚	**79**
CDD	108 poli + ⏚	**81**
CX	8/24 poli + ⏚	**194**
CX	6/36 poli + ⏚	**198**
CX 12 (MIXO)	12 poli	**281**

interfaccia per circuito stampato



contatti argentati e dorati 6 A per interfaccia

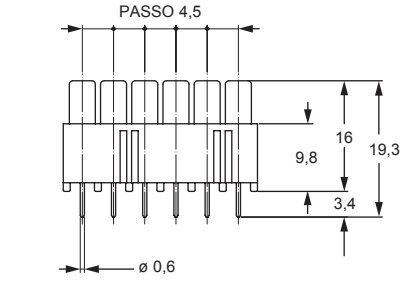
descrizione	codice articolo	codice articolo	codice articolo
modulo di interfaccia con 6 contatti femmina (dorati) per PCB fino a 2,4 mm di spessore	**CIF 2.4**		
modulo di interfaccia con 6 contatti femmina (argentati) per PCB fino a 2,4 mm di spessore	**CIF 2.4 A**		
contatti femmina 6 A per frutti presa con morsetto Ø 1 mm		**CDFA 6A** argentati	**CDFD 6A** dorati
contatti maschio 6 A per frutti spina con morsetto Ø 1 mm		**CDMA 6A** argentati	**CDMD 6A** dorati

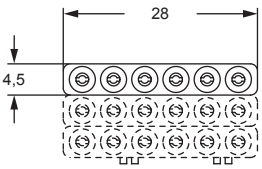
Interfaccia CIF

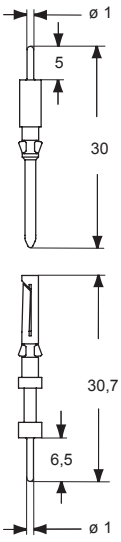
Il blocco di interfaccia viene realizzato secondo il connettore multipolare utilizzato assemblando un numero adeguato di moduli CIF (vedere la tabella).

serie frutti	n. poli	n. moduli "CIF"
CDD	24	4
CDD	42	7
CDD	72	12
CDD	108	18
CX	8/24	4
CX	6/36	6
CX (MIXO)	12	2

Il blocchetto così realizzato viene saldato sul circuito stampato sul quale viene poi inserito il connettore multipolare (femmina o maschio) equipaggiato con gli appositi contatti ad innesto.

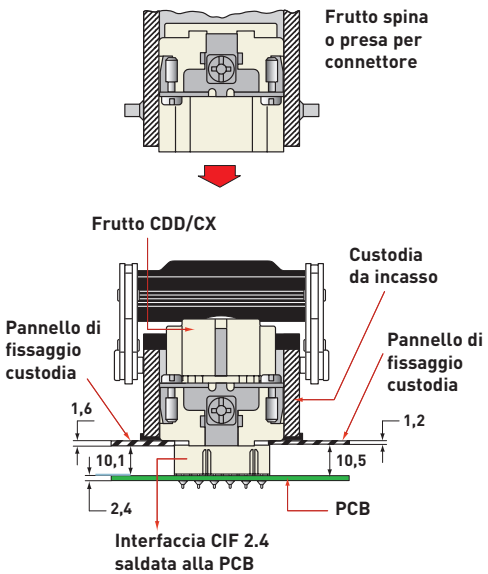


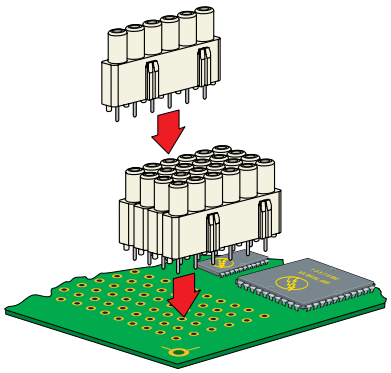




ISTRUZIONI DI MONTAGGIO

ADATTATORI PCB CIF 2.4, CIF 2.4 A





ACCESSORI

CIF PCB adapters

inserts		page:
CQ	8 poles + ⏚	192

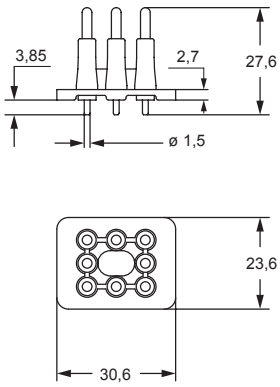
interface for printed circuit

16 A contacts for interface silver plated

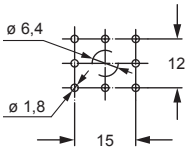
description	part No.	part No.
PCB adapter with 8 contacts, for up to 1,6 mm thick PCB	**CIF Q08 1.6**	
16 A female contacts for female inserts		**CCFFA** silver plated
16 A male contacts for male inserts		**CCMFA** silver plated

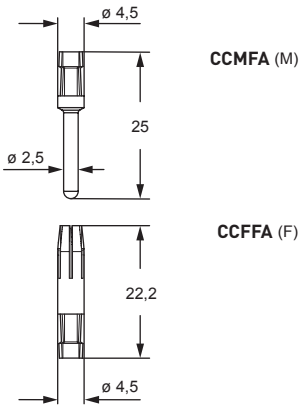
The block is soldered on the printed circuit on which the multipole connector (female or male) equipped with coupling contacts will then be inserted.

NOTE:
This PCB interface connector foresees the protective earth connection (PE) of the corresponding CQ 08 connector to be pass-through.
For this purpose, a Ø 6,4 mm hole is foreseen in the PCB layout in correspondence of the PE contact.



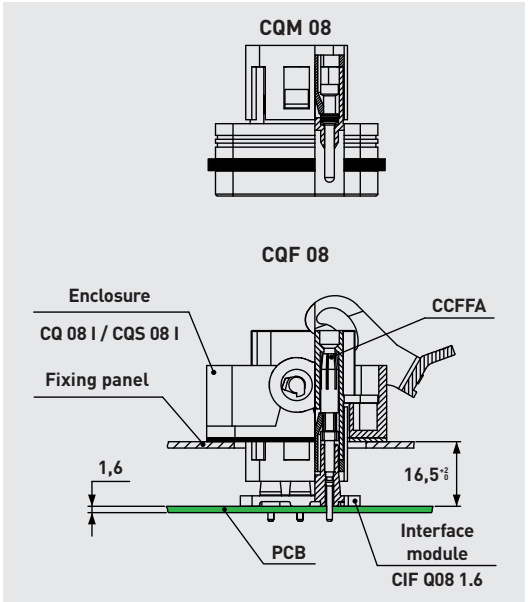
PCB-Layout

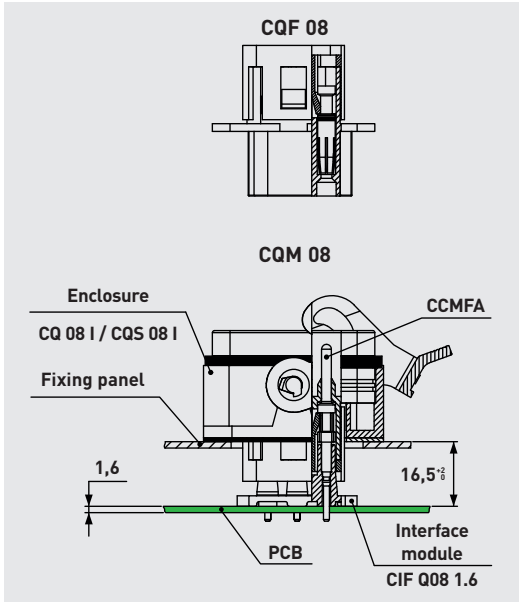




ASSEMBLY INSTRUCTIONS

CIF Q08 1.6 PCB ADAPTERS





CIF PCB adapters

inserts		page:
CQ	4 poles + 2 poles + ⏚	191

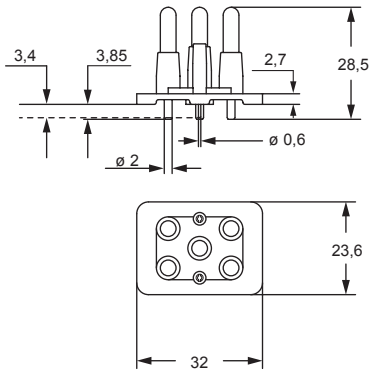
interface for printed circuit

7,5 A and 30 A contacts for interface silver plated

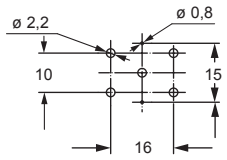
description	part No.	part No.
PCB adapter with contacts for up to 2,4 mm thick PCB	**CIF Q4/2 2.4**	
7,5 A female contacts for female inserts 7,5 A male contacts for male inserts		**CDFA 6A28** **CDMA 6A**
30 A female contacts for female inserts 30 A male contacts for male inserts		**CXFFA** **CXMFA**

silver plated

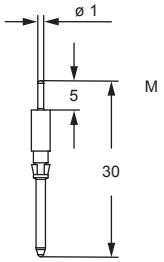
The block is soldered on the printed circuit on which the multipole connector (female or male) equipped with coupling contacts will then be inserted.



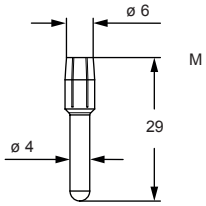
PCB-Layout



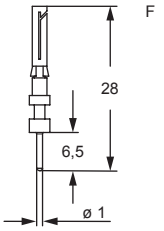
CDMA 6A



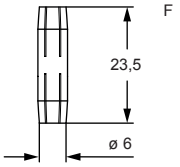
CXMFA



CDFA 6A28

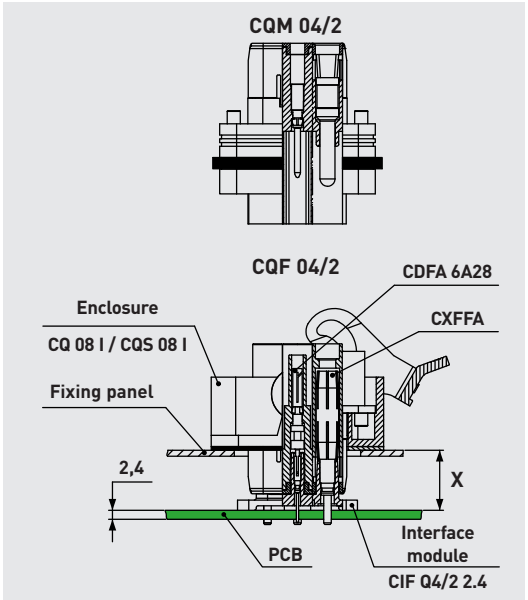


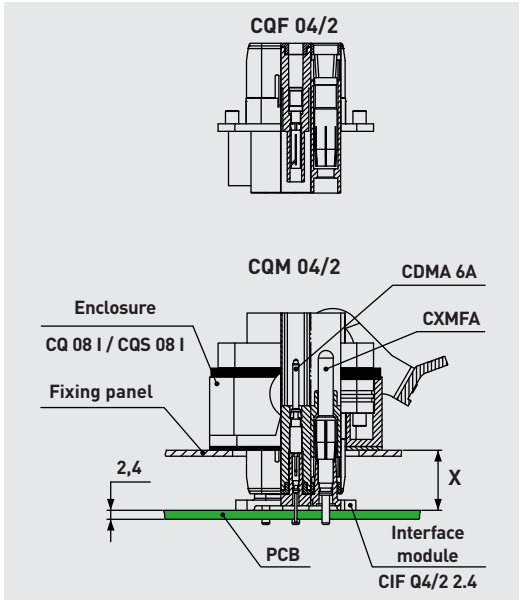
CXFFA



ASSEMBLY INSTRUCTIONS

PCB CIF Q4/2 2.4 ADAPTERS





X = 16 $^{+1}_{0}$ WITH SIGNAL CONTACT
X = 16 $^{+2}_{0}$ WITHOUT SIGNAL CONTACT

CC crimp contacts

inserts		page:
CDC	10, 16 poles + ⏚	**104 - 105**
CCE	6, 10, 16, 24, 32, 48 poles + ⏚	**130 - 135**
CMCE	3+2, 6+2, 10+2, 12+4, 20+4 (aux) poles + ⏚	**137 - 145**
CQE	10, 18, 32, 46, 64, 92 poles + ⏚	**168 - 173**
CQEE	40, 64 poles + ⏚	**176 - 177**
CQ	5 poles + ⏚	**186**
CX	8/24 poles + ⏚	**194**
CX	6/6 poles + ⏚	**206**
MIXO (16A)		**275 - 289**

constantan (Cu Ni)
crimp contacts

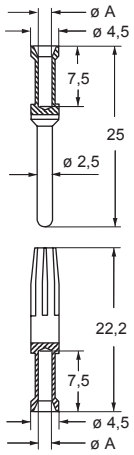
iron (Fe)
crimp contacts

description	part No.	part No.
16A, 0,3 mm², AWG 22 female contacts	**CCFC 0.3**	**CCFF 0.3**
16A, 0,3 mm², AWG 22 male contacts	**CCMC 0.3**	**CCMF 0.3**
16A, 0,5 mm², AWG 20 female contacts	**CCFC 0.5**	**CCFF 0.5**
16A, 0,5 mm², AWG 20 male contacts	**CCMC 0.5**	**CCMF 0.5**

Note:
A mixed combination of iron, constantan and silver and gold plated contacts can be fitted in the same insert.

- **it is recommended to crimp the contacts with crimping tools homologated by ILME** (please see the crimping tool section 16A contacts, CCF and CCM on pages 705 - 741)
- for type J (iron - constantan) thermocouples compliant with EN 60584-1
- contact resistance ≤ 1 Ohm

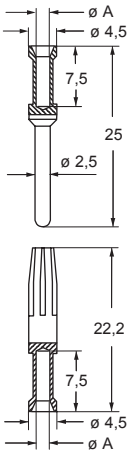
CCF and **CCM**



CCF and CCM contacts

conductor section mm²	conductor slot ø A (mm)	conductors stripping length mm
0,3	1,1	7,5
0,5	1,1	7,5

CCF and **CCM**



CCF and CCM contacts

conductor section mm²	conductor slot ø A (mm)	conductors stripping length mm
0,3	1,1	7,5
0,5	1,1	7,5

CD crimp contacts 10A

inserts		page:
CD	(10A)	**66 - 74**
CDD	(10A)	**76 - 83**
CQ	(10A)	**187 - 193**
CX 8/24	(16A / 10A)	**194**
CX 6/36	(10A)	**198**
CX 12/2	(10A)	**199**
MIXO	(10A)	**271 - 283**

10A crimp contacts
high thickness gold plated

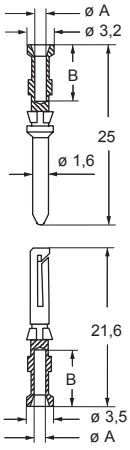
10A crimp contacts
basic gold plated

description			part No.	part No.
10A female contacts				
0,14-0,37 mm²	AWG 26-22	identification No. 1	**CDF2D 0.3**	**CDFJD 0.3**
0,5 mm²	AWG 20	identification No. 2	**CDF2D 0.5**	**CDFJD 0.5**
0,75 mm²	AWG 18	identification No. ②	**CDF2D 0.7**	**CDFJD 0.7**
1,0 mm²	AWG 18	identification No. 3	**CDF2D 1.0**	**CDFJD 1.0**
1,5 mm²	AWG 16	identification No. 4	**CDF2D 1.5**	**CDFJD 1.5**
2,5 mm²	AWG 14	identification No. 5	**CDF2D 2.5**	**CDFJD 2.5**
10A male contacts				
0,14-0,37 mm²	AWG 26-22	identification No. 1	**CDM2D 0.3**	**CDMJD 0.3**
0,5 mm²	AWG 20	identification No. 2	**CDM2D 0.5**	**CDMJD 0.5**
0,75 mm²	AWG 18	identification No. ②	**CDM2D 0.7**	**CDMJD 0.7**
1,0 mm²	AWG 18	identification No. 3	**CDM2D 1.0**	**CDMJD 1.0**
1,5 mm²	AWG 16	identification No. 4	**CDM2D 1.5**	**CDMJD 1.5**
2,5 mm²	AWG 14	identification No. 5	**CDM2D 2.5**	**CDMJD 2.5**

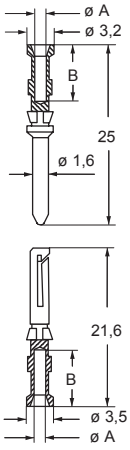
gold plated

The gold plated contacts provide:
- corrosion resistance (according to EN 60068)
- mechanical life: ≥ 500 coupling cycles
- in compliance with EN 61984:2009, IEC 60512, EN 60352-2: 1994
- compliant to directive RoHS2
- contact resistance: ≤ 3 mΩ
- certifications: c UL us (UL for USA and Canada),

CDF2D and **CDM2D**



CDFJD and **CDMJD**



contacts CDF2D and CDM2D

conductor section mm²	conductor slot ø A (mm)	conductors stripping length B (mm)
0,14-0,37	0,9	8
0,5	1,1	8
0,75	1,3	8
1,0	1,45	8
1,5	1,8	8
2,5	2,2	6

contacts CDFJD and CDMJD

conductor section mm²	conductor slot ø A (mm)	conductors stripping length B (mm)
0,14-0,37	0,9	8
0,5	1,1	8
0,75	1,3	8
1,0	1,45	8
1,5	1,8	8
2,5	2,2	6

CC crimp contacts 16A

inserts		page:
CDC	(16A)	**104 - 106**
CCE	(16A)	**130 - 135**
CMCE	(16A)	**137 - 145**
CQE	(16A)	**168 - 173**
CQEE	(16A)	**176 - 177**
CX 8/24	(16A / 10A)	**194**
CX 6/6	(16A / 10A)	**206**
MIXO	(16A)	**275 - 289**

16A crimp contacts high thickness gold plated

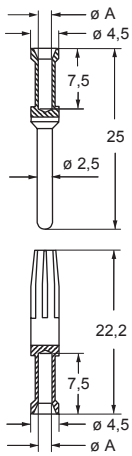
16A crimp contacts basic gold plated

description			part No.	part No.
16A female contacts				
0,14-0,37 mm²	AWG 26-22	one groove	**CCF2D 0.3**	**CCFJD 0.3**
0,5 mm²	AWG 20	with no grooves	**CCF2D 0.5**	**CCFJD 0.5**
0,75 mm²	AWG 18	one groove (back side)	**CCF2D 0.7**	**CCFJD 0.7**
1 mm²	AWG 18	one groove	**CCF2D 1.0**	**CCFJD 1.0**
1,5 mm²	AWG 16	two grooves	**CCF2D 1.5**	**CCFJD 1.5**
2,5 mm²	AWG 14	three grooves	**CCF2D 2.5**	**CCFJD 2.5**
3 mm²	AWG 12	one wide groove	**CCF2D 3.0**	**CCFJD 3.0**
4 mm²	AWG 12	with no grooves	**CCF2D 4.0**	**CCFJD 4.0**
16A male contacts				
0,14-0,37 mm²	AWG 26-22	one groove	**CCM2D 0.3**	**CCMJD 0.3**
0,5 mm²	AWG 20	with no grooves	**CCM2D 0.5**	**CCMJD 0.5**
0,75 mm²	AWG 18	one groove (back side)	**CCM2D 0.7**	**CCMJD 0.7**
1 mm²	AWG 18	one groove	**CCM2D 1.0**	**CCMJD 1.0**
1,5 mm²	AWG 16	two grooves	**CCM2D 1.5**	**CCMJD 1.5**
2,5 mm²	AWG 14	three grooves	**CCM2D 2.5**	**CCMJD 2.5**
3 mm²	AWG 12	one wide groove	**CCM2D 3.0**	**CCMJD 3.0**
4 mm²	AWG 12	with no grooves	**CCM2D 4.0**	**CCMJD 4.0**

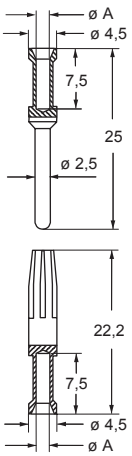
gold plated

The gold plated contacts provide:
- corrosion resistance (according to EN 60068)
- mechanical life: ≥ 500 coupling cycles
- in compliance with EN 61984:2009, IEC 60512, EN 60352-2: 1994
- compliant to directive RoHS2
- contact resistance: ≤ 1 mΩ
- certifications: c UL us (UL for USA and Canada),

CCF2D and **CCM2D**



CCFJD and **CCMJD**



contacts CCF2D and CCM2D

conductor section mm²	conductor slot ø A (mm)	conductors stripping length mm
0,14-0,37	0,9	7,5
0,5	1,1	7,5
0,75	1,3	7,5
1,0	1,45	7,5
1,5	1,8	7,5
2,5	2,2	7,5
3,0	2,55	7,5
4,0	2,85	7,5

contacts CCFJD and CCMJD

conductor section mm²	conductor slot ø A (mm)	conductors stripping length mm
0,14-0,37	0,9	7,5
0,5	1,1	7,5
0,75	1,3	7,5
1,0	1,45	7,5
1,5	1,8	7,5
2,5	2,2	7,5
3,0	2,55	7,5
4,0	2,85	7,5

POF contacts
series CLF DD and CLM DD

Fibre optic cables provide data transmission not subject to electromagnetic interference, contrary to copper-based (electric) data transmission.

The fibre optic contacts **CL series (CLF DD and CLM DD)** can be used in combination with POF (polymer optical fibre) Ø 1,0 mm (core) / 2,2 mm (sheath) in ILME range of heavy duty multipole connectors, offering the following features:

- inherent immunity to EMI (electromagnetic interference);
- perfect electrical insulation;
- lightweight;
- high transmission capacity and high bandwidth;
- high data security;
- IP66/IP67 recommended to minimize impairing effect of dust contamination;
- male and female contacts CL series for POF Ø 1,0 mm (core) / 2,2 mm (sheath), with same geometry of crimp contacts CD series for conventional copper conductors;
- usable in connector inserts with contact cavities geometry of CDD series, including some modules of MIXO series and some inserts of CQ series, according to **Table 1**.
  Not for use in CD inserts series [1];

Table 1.

CDD series NOTE – Not suitable for CDDF/M 38 /38 N	CDDF/M 24 CDDF/M 42 CDDF/M 72, CDDF/M 72 N CDDF/M 108, CDDF/M 108 N
CQ series	CQF/M 07 CQF/M 12 CQF/M 17
MIXO series modular connectors	CX 12 DF/DM CX 17 DF/DM
CX series combined connectors – aux poles number of cavities highlighted in **bold**	CXF/M 8/**24** CXF/M 6/**36** CXF/M 12/**2**

[1] For CD inserts series a similar solution for use of POF Ø 1 mm may be developed upon request: please contact our Sales Department or our local Subsidiaries/Distributors.

- use of **alignment/coding pins on connectors/connector modules is mandatory** for fibre optic applications, in order to avoid damages to contacts and in order to minimize the natural attenuation of light signal which is mainly due to inaccuracy of the mating surfaces of the POF (polishing and perfect cleanliness of the two mating fibres) and to axial misalignment;
- POF to be stripped, crimped, cut and polished according to instructions on pages besides.
- for size “77.62” 2-insert combinations use JCHI 32 L/LP (page 120 catalogue XDG JEI 415) or a special version with stainless steel rigid lever available upon request.
- for the installation of fibre optic, **it is recommended to use only bulkhead mounting housings and corresponding hoods with vertical cable outlet.**

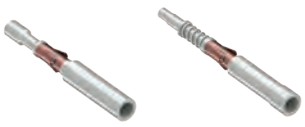
ACCESSORIES

Watch our online tutorial

CLF DD / CLM DD

inserts:		page:
CDD	(10A)	76 - 83
CQF/M 07	(10A)	187
CQF/M 12	(10A)	189
CQF/M 17	(10A)	193
CXF/M 8/24	(10A)	194
CXF/M 6/36	(10A)	198
CXF/M 12/2	(10A)	199
MIXO CX 12 DF/DM	(10A)	281
MIXO CX 17 DF/DM	(10A)	282

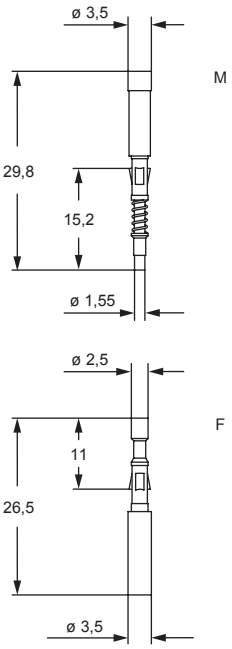
POF crimp contacts



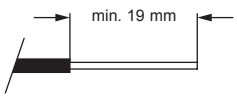
description	part No.
female contacts for **POF** *	**CLF DD**
male contacts for **POF** *	**CLM DD**

* **POF = Polymer Optical Fibre**

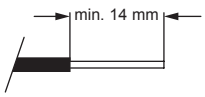
- ambient temperature limit: -40 °C ... +85 °C
- max external diameter: 2,2 mm (POF)
- polymer fibre diameter: 1 mm (POF)
- to crimp contacts CLF DD and CLM DD please use tool CLPZ R
- we recommend use of guide pins CRM/CRF (refer to page 685)



conductor stripping



male contacts



female contacts

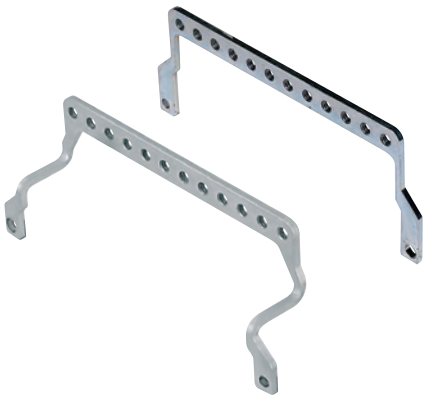
CR anchorages

inserts

MIXO series **from page 262**

shield earthing anchorage for shielded cables (for MIXO series)
clamps for cables w/shield Ø 5 mm and Ø 10 mm

anchorages for several PE connection cables (for MIXO series)



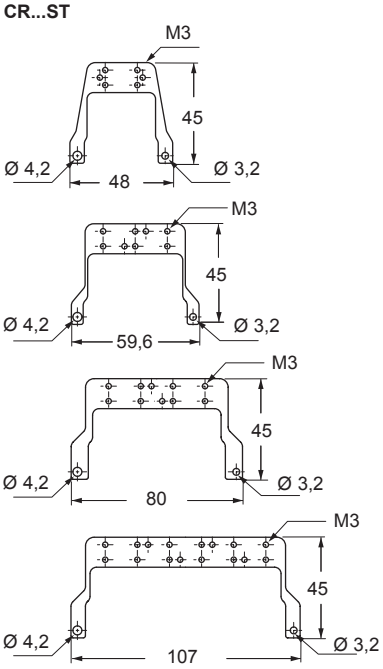
description	part No.	part No.
in zinc plated steel, to be mounted on MIXO frames in bulkhead mounting housings, COB series enclosures and high construction hoods with top entry		
enclosures ”44.27” and MIXO frames for 2 modular units	**CR 06 ST**	
enclosures ”57.27” and MIXO frames for 3 modular units *	**CR 10 ST**	
enclosures ”77.27”, ”77.62” and MIXO frames for 4 modular units	**CR 16 ST**	
enclosures ”104.27”, ”104.62” and MIXO frames for 6 modular units	**CR 24 ST**	
to be mounted on CR..ST earthing terminals		
clamp for shielding cables Ø 5 mm	**CR 05 CA**	
clamp for shielding cables Ø 10 mm	**CR 10 CA**	
in zinc plated steel, to be mounted on MIXO frames in bulkhead mounting housings, COB series enclosures and high construction hoods with top entry		
enclosures ”44.27” and MIXO frames for 2 modular units		**CR 06 AT**
enclosures ”57.27” and MIXO frames for 3 modular units		**CR 10 AT**
enclosures ”77.27”, ”77.62” and MIXO frames for 4 modular units		**CR 16 AT**
enclosures ”104.27”, ”104.62” and MIXO frames for 6 modular units		**CR 24 AT**
enclosures ”104.27”, ”104.62” and MIXO frames for 6 modular units		**CR 24 ATD**

* Fixed using the standard screws of the MIXO frame, the drew size are supplied with a special M4 screw that replaces the standard one.

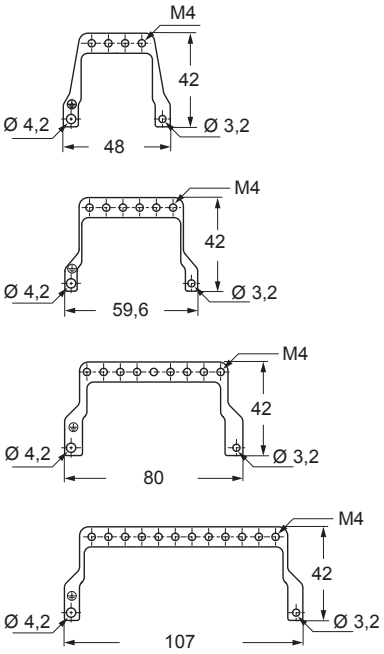
Anchorages CR .. ST are designed for installation on the frames of the MIXO modular connectors, for earth connecting the screening braid of shielded cables.

Anchorages CR .. AT / ATD are designed for installation on the frames of the MIXO modular connectors for earth connecting several cables.

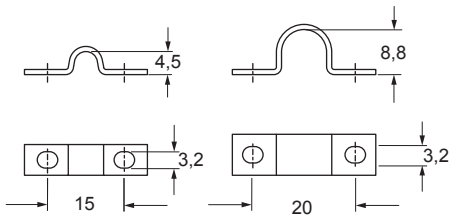
CR...ST



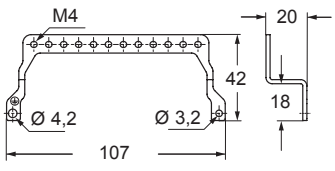
CR...AT



CR...CA



CR 24 ATD



CR anchorages

inserts		page:
CD	40, 64 poles + ⏚	**70 and 72**
CDD	24, 42, 72, 108 poles + ⏚	**76 - 81**
CDS	9, 18, 27, 42 poles + ⏚	**-**
CDSH	9, 18, 27, 42 poles + ⏚	**86 - 89**
CDSH NC	6 poles + ⏚	**95**
CNE	6, 10, 16, 24 poles + ⏚	**110 - 113**
CSE	6, 10, 16, 24 poles + ⏚	**-**
CSH	6, 10, 16, 24 poles + ⏚	**110 - 113**
CSH S	6, 10, 16, 24 poles + ⏚	**122 - 125**
CCE	6, 10, 16, 24 poles + ⏚	**130 - 133**
CMSH	3+2, 6+2, 10+2 (aux) poles + ⏚	**136 - 140**
CSS	6, 10, 16, 24 poles + ⏚	**148 - 151**
CQE	10, 18, 32, 46 poles + ⏚	**168 - 171**
CQEE	40, 64 poles + ⏚	**176 - 177**
CP	6 poles + ⏚	**178**
CX	8/24, 6/36, 12/2 poles + ⏚	**194 - 199**

ground terminals for shielded cables and for several earth connections

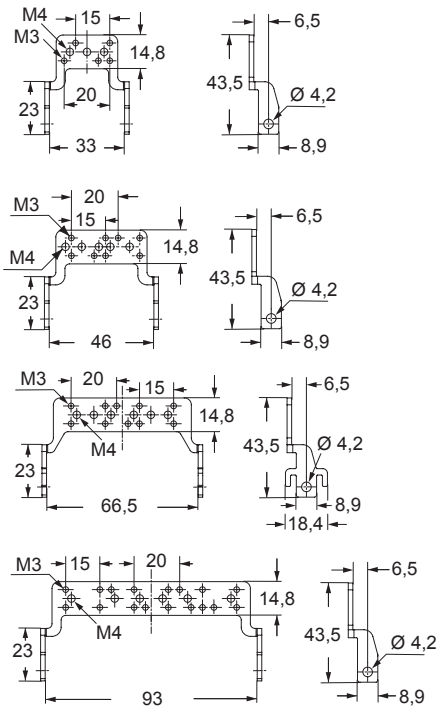
clamps for cables Ø 5 mm and Ø 10 mm

description	part No.	part No.
in zinc plated iron, to be fitted on connectors in bulkhead housings, COB series enclosures and high construction hoods with top entry		
“44.27” enclosures and inserts	**CR 06 SC**	
”57.27” enclosures and inserts	**CR 10 SC**	
”77.27”, ”77.62” enclosures and inserts	**CR 16 SC**	
”104.27”, ”104.62” enclosures and inserts	**CR 24 SC**	
CSS ”104.27” enclosures and inserts *	**CR 24 SCA**	
to be fitted on CR..SC anchors in bulkhead mounting housings and high construction hoods		
U-bolt for Ø 5 mm cable screening		**CR 05 CA**
U bolt for Ø 10 mm cable screening		**CR 10 CA**

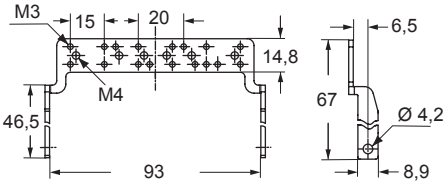
***** Can be used only in bulkhead housings.

The CR... SC anchors are fitted on connectors for connecting to earth multiple cables and screened cables braids.

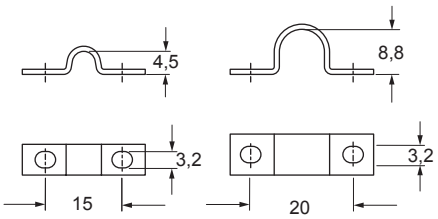
CR...SC



CR...SCA



CR...CA



ACCESSORIES

CR anchorages

The CR..FS series anchorages are employed for use of connector inserts (normal or MIXO modular) without enclosures and enable anchoring cables with clamps to prevent transmitting traction forces to contacts. CR..SS anchorages (with grip to facilitate connector disconnection) are used for earth connecting of several conductors and/or of the screen of shielded cables.

cable anchorages shield / earthing strain relief

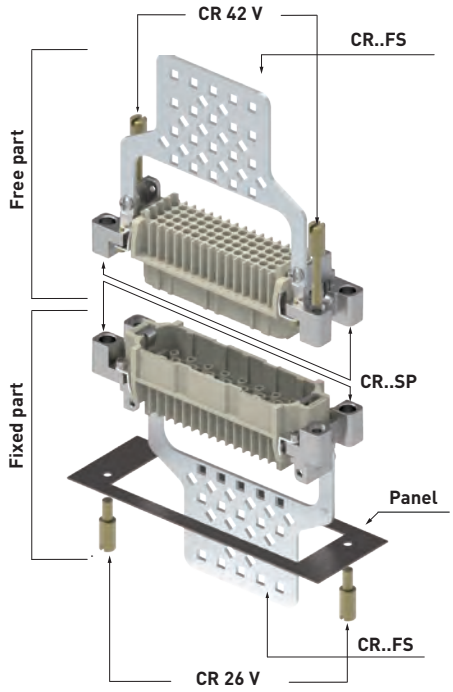
supports, screws and clamps for grip panels of cables outside enclosure

description	part No.	part No.
in zinc plated steel, to be mounted on:		
inserts size ”44.27” * and MIXO frames for 2 modular units	**CR 06 FS**	
inserts size ”57.27” * and MIXO frames for 3 modular units	**CR 10 FS**	
inserts size ”77.27” * and MIXO frames for 4 modular units	**CR 16 FS**	
inserts size ”104.27” * and MIXO frames for 6 modular units	**CR 24 FS**	
for shielded cables with grip handle, to be mounted on:		
inserts size ”77.27” * and MIXO frames for 4 modular units	**CR 16 SS**	
inserts size ”104.27” * and MIXO frames for 6 modular units	**CR 24 SS**	
supports in die-cast zinc, 2 pcs. equipped with fixing screws and washers for earth connection		**CR SP**
short screws in zinc iron, 2 pcs.		**CR 26 V**
long screws in zinc iron, 2 pcs.		**CR 42 V**
to be mounted on CR..SS anchorage		
clamp for shielding cables Ø 5 mm		**CR 05 CA**
clamp for shielding cables Ø 10 mm		**CR 10 CA**

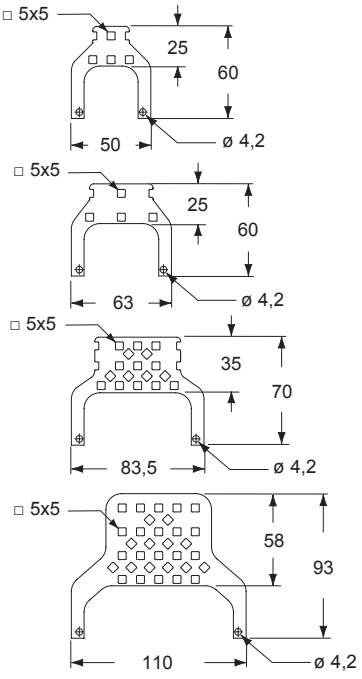
* Except CT, CTS and CTSE

In the fixed part, a pair of **CR SP** supports is fitted on the connector, using its securing screws.
A **CR..FS** or **CR..SS** anchorage is fitted on the supports, using the supplied fixing screws and washers.
All parts are secured on the rear panel with the pair of **CR 26 V** short + + screws.
In the mobile part too, a pair of **CR SP** supports are fitted on the connector and a **CR..FS** or **CR..SS** anchorage is secured on it. The pair of **CR 42 V** screws fasten the mobile part to the fixed part.

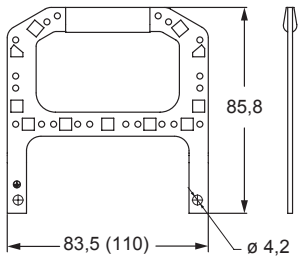
NOTE: By unscrewing the **CR 26 V** special short screws, the whole assembly (free part + fixed part) can be removed from the panel for inspection.



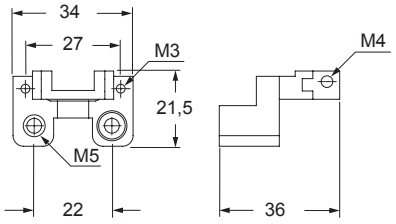
CR...FS



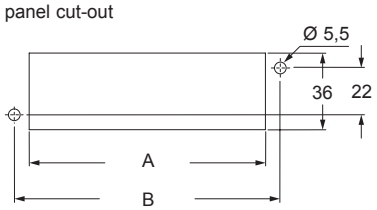
CR 16 SS (CR 24 SS)



CR SP

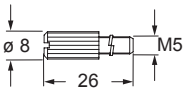


panel cut-out

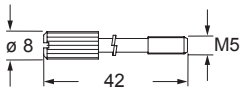


poles	06	10	16	24
A	52	65	85,5	112
B	65	78	98,5	125

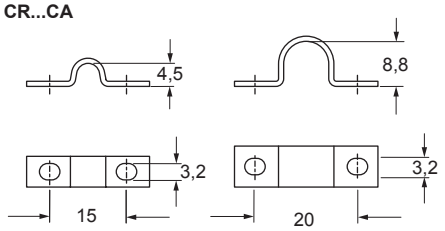
CR 26 V



CR 42 V



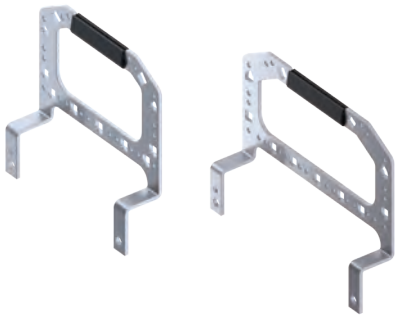
CR...CA



dimensions shown in mm are not binding and may be changed without notice

CR anchorages

anchorage for cables outside enclosure, equipped with fixing screws and washers



supports, screws and clamps for grip panels of cables outside enclosure

description	part No.	part No.
for cables, to be mounted on: inserts size ”77.27” * with CR SP support and MIXO frames for 4 inserts without support inserts size ”104.27” * with CR SP support and MIXO frames for 6 inserts without support	**CR 16 SSD** **CR 24 SSD**	
support in die-cast zinc, 2 pcs. equipped with fixing screws and rings for earth connecting		**CR SP**
short screws in zinc plated steel, 2 pcs. long screws in zinc plated steel, 2 pcs.		**CR 26 V** **CR 42 V**
to be mounted on CR..SS anchorage clamp for (shielded) cables ø 5 mm clamp for (shielded) cables ø 10 mm		 **CR 05 CA** **CR 10 CA**

* Except CT, CTS and CTSE

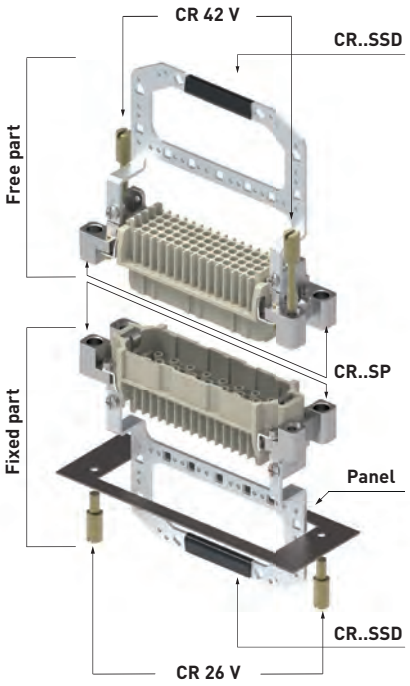
In the fixed part, a pair of **CR SP** supports is fitted on the connector insert, using the insert’s fixing screws.

A **CR..SSD** anchorage is then fitted on the **CR SP** supports, using the supplied fixing screws and washers.

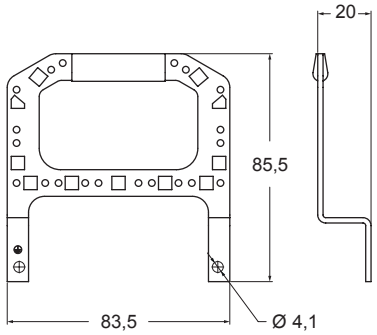
All parts are secured on the rear panel with a pair of **CR 26 V** special short screws.

Also in the free part, a pair of **CR SP** supports is fitted on the connector insert and a **CR..SSD** anchorage is similarly secured on it. A pair of **CR 42 V** long screws fasten the free part to the fixed part.

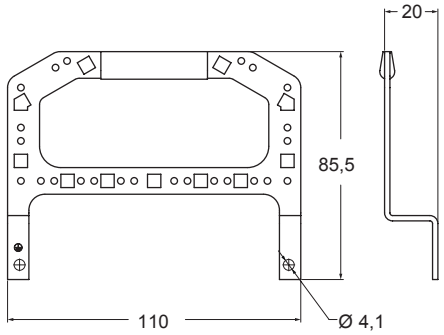
NOTE: By unscrewing the **CR 26 V** special short screws, the whole assembly (free part + fixed part) can be removed from the panel for inspection.



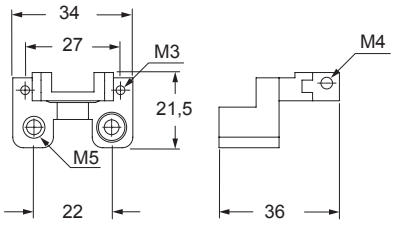
CR 16 SSD



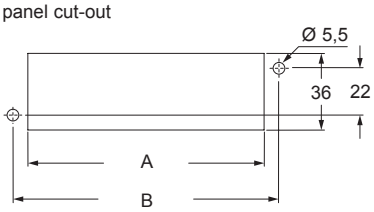
CR 24 SSD



CR SP

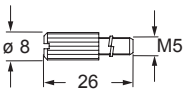


panel cut-out

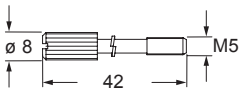


poles	06	10	16	24
A	52	65	85,5	112
B	65	78	98,5	125

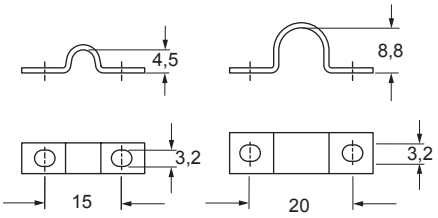
CR 26 V



CR 42 V



CR...CA



CR...DF self-centring floating frame

CAUTION: As the frames are floating, **the PE earthing connection of the metal surfaces on which they are mounted** (mounting bases) **must be performed separately** and cannot be done by connecting the PE earthing contact to the corresponding connector inserts.

NOTE: The supply includes 1 frame and 4 shoulder screws with cylindrical head and notch to fix the frame in place.

For use with MIXO inserts CX 04 X, please contact ILME S.p.A.

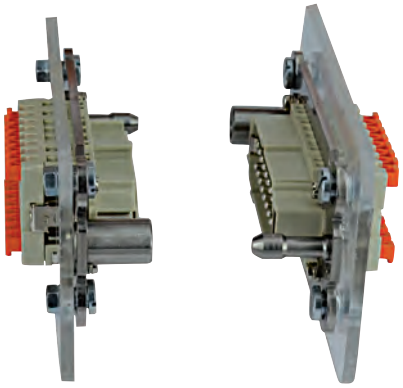
self-centring floating frame

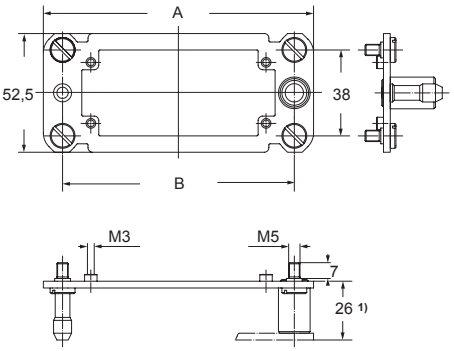
description	part No.
in stainless steel, to be mounted on:	
inserts size “44.27” * and MIXO frames for 2 modular units	**CR 06 DF**
inserts size “57.27” * and MIXO frames for 3 modular units	**CR 10 DF**
inserts size “77.27” * and MIXO frames for 4 modular units	**CR 16 DF**
inserts size “104.27” * and MIXO frames for 6 modular units	**CR 24 DF**

* Except CT, CTS and CTSE

Technical specifications
- materials
  - floating frame, inserts: stainless steel
  - fixing screws: zinc-plated steel
- mechanical endurance: ≥ 500 cycles
- compensation range:
  - x axis: ± 1,5 mm
  - y axis: ± 1,5 mm

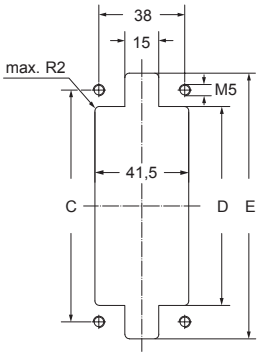
Characteristics
- Suitable, depending on size, for all standard and MIXO connector inserts and frames, except series CT, CTS and CTSE.
- Designed to be used in the transportation, printing and power electronic industries (for example boxes for rack cabinets) and in all industrial applications that require, during assembly or maintenance, the connection of connectors without possibility of controlling the alignment.
- Enables the **self-centring coupling of two corresponding** connectors without the use of enclosures; they freely move on their base plate (± 1,5 mm on both axes) ensuring the **alignment of the coupling**.



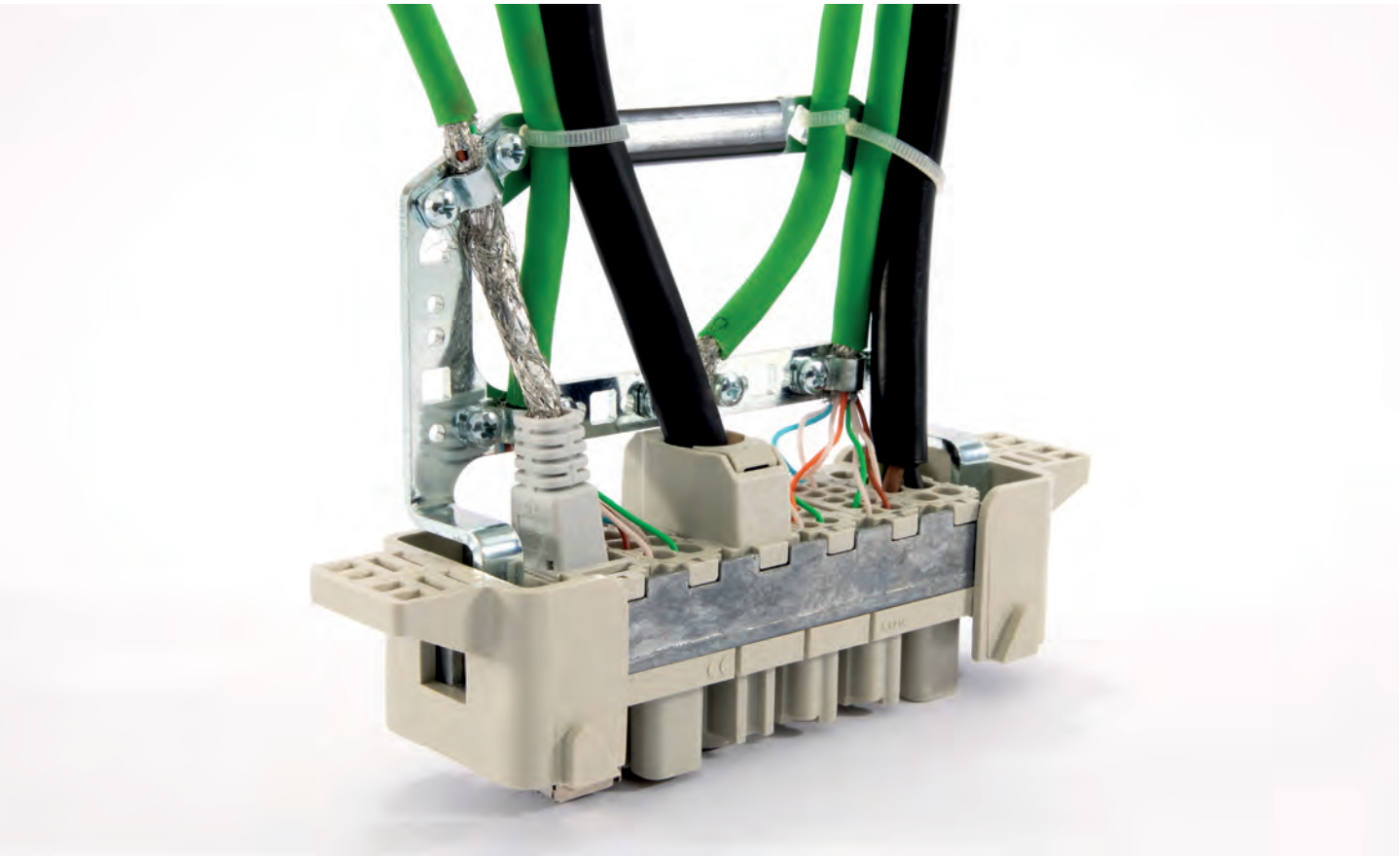


1) distance for electric and fibre optic contacts: max 27 mm
distance for pneumatic contacts: max 26,5 mm

panel cut-out



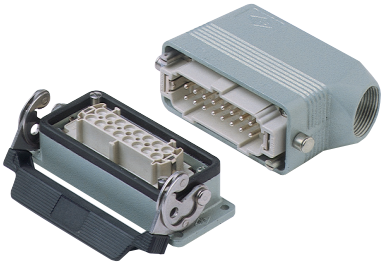
part No.	A	B	C	D	E
CR 06 DF	86	69	69	54,5	84
CR 10 DF	99	82	82	67,5	97
CR 16 DF	119,5	102,5	102,5	88	117,5
CR 24 DF	146	129	129	114,5	144



CR coding pins

single coding pin for 6 codings

coding options using single coding pins

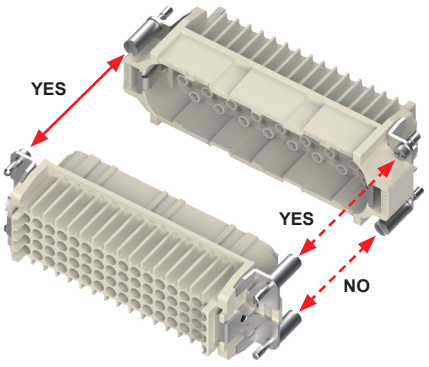


description	part No.	part No
single coding pin (not for MIXO inserts)	stainless steel **CR 20**	zinc plated steel **CR 20 D**
single coding pin (for MIXO inserts only)	stainless steel **CR 20 CX**	zinc plated steel **CR 20 CX D**

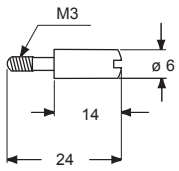
CR 20/CR 20 D and CR 20 CX/CR 20 CX D coding pins

Each series of connector inserts is made in such a way as to make incorrect coupling between inserts of different series impossible.
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.

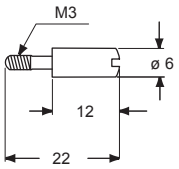
Coding pins are supplied to apply in place of the normal insert fastening screws (see example below). In this way the coupling of identical connectors is assured. The combination of coding pins makes it possible to obtain a high number of selective couplings.



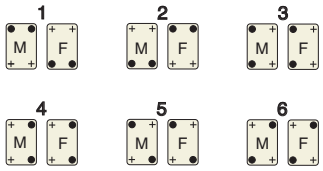
CR 20 / CR 20 D



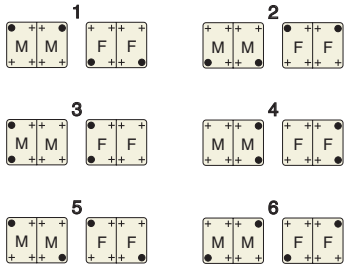
CR 20 CX / CR 20 CX D



Application with single insert



Application with double inserts



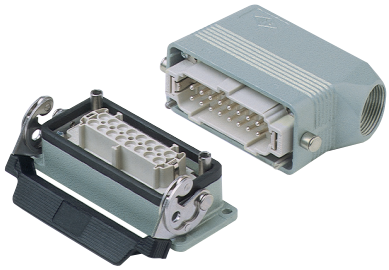
● coding pin (CR 20/CR 20 D and CR 20 CX/CR 20 CX D)
\+ normal fixing screw
M = male insert
F = female insert

ACCESSORIES

CR coding pins

double coding and guiding pins for 16 codings

available coding options by using double coding and guiding pins

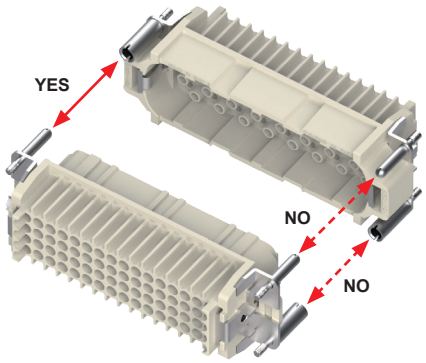


description	part No.	part No
double coding and guiding pins (excluding MIXO inserts)	stainless steel	zinc plated steel
male pin	**CRM**	**CRM D**
female pin	**CRF**	**CRF D**
double coding and guiding pins (for MIXO inserts only)	stainless steel	zinc plated steel
male pin	**CRM CX**	**CRM CX D**
female pin	**CRF CX**	**CRF CX D**

Coding pins
- CRM/CRM D and CRF/CRF D
- CRM CX/CRM CX D and CRF CX/CRF CX D

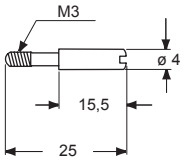
Each series of connector inserts is made in such a way as to make incorrect coupling between inserts of different series impossible.
When a number of identical connectors with different functions are mounted closely together these must be selected in such a way as to prevent the coupling of a mobile part on a non-corresponding fixed part and consequent damage and breakdown.

Coding pins are supplied to be applied in place of the normal insert fastening screws (see example below).
In this way the coupling of identical connectors is assured.
The combination of coding pins makes it possible to obtain a high number of selective couplings.

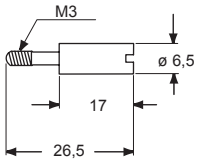


Even when coding is not required, it is recommended to use CRM and CRF pins with CD and CDD inserts to reduce movements when fitting and removing the connectors and to avoid contact damages.
Within this scope, the EN 175301-801 standard (former DIN 43 652) requires a maximum angular fluctuation of ± 5° on the long side, ± 2° on the short side.

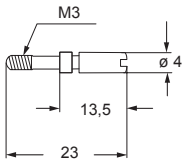
CRM / CRM D



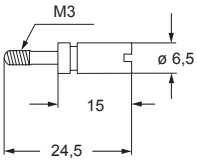
CRF / CRF D



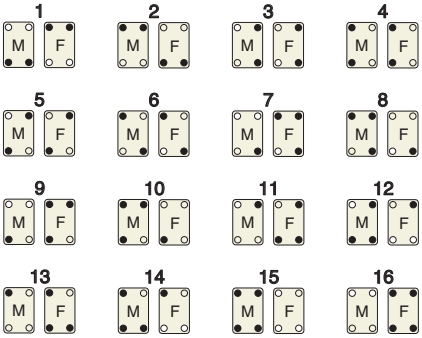
CRM CX / CRM CX D



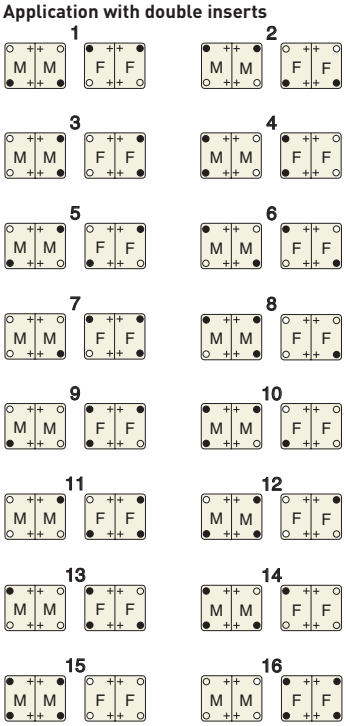
CRF CX / CRF CX D



Application with single insert



Application with double inserts



● female coding and guiding pins (CRF/CRF D and CRF CX/CRF CX D)
○ male coding and guiding pins (CRM/CRM D and CRM CX/CRM CX D)
\+ normal fixing screw
M = male insert
F = male insert

CR coding pins

coding and guiding pins, for 72 codings

description	part No.	part No
double coding and guiding pins (excluding MIXO inserts)	stainless steel	zinc plated steel
male pin	**CRM**	**CRM D**
female pin	**CRF**	**CRF D**
single code pin	**CR 72**	**CR 72 D**
double coding and guiding pins (for MIXO inserts only)	stainless steel	zinc plated steel
male pin	**CRM CX**	**CRM CX D**
female pin	**CRF CX**	**CRF CX D**
single code pin	**CR 72 CX**	**CR 72 CX D**

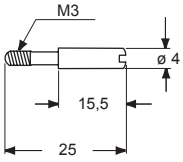
Coding pins

- **CRM/CRM D, CRF/CRF D and CR 72/CR 72 D**
- **CRM CX/CRM CX D, CRF CX/CRF CX D and CR 72 CX/CR 72 CX D**

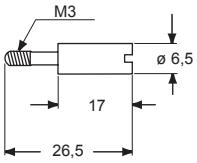
Each series of connector inserts is made in such a way as to make incorrect coupling between inserts of different series impossible.
When a number of identical connectors with different functions are mounted closely together these must be selected in such a way as to prevent the coupling of a mobile part on a non-corresponding fixed part and consequent damage and breakdown.

Coding pins are supplied to be applied in place of the normal insert fastening screws.
In this way the coupling of identical connectors is assured.
The combination of coding pins makes it possible to obtain a high number of selective couplings.

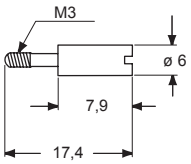
CRM / CRM D



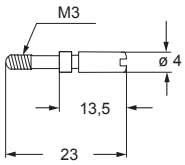
CRF / CRF D



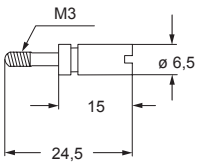
CR 72 / CR 72 D



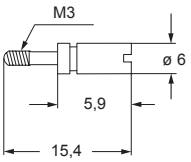
CRM CX / CRM CX D



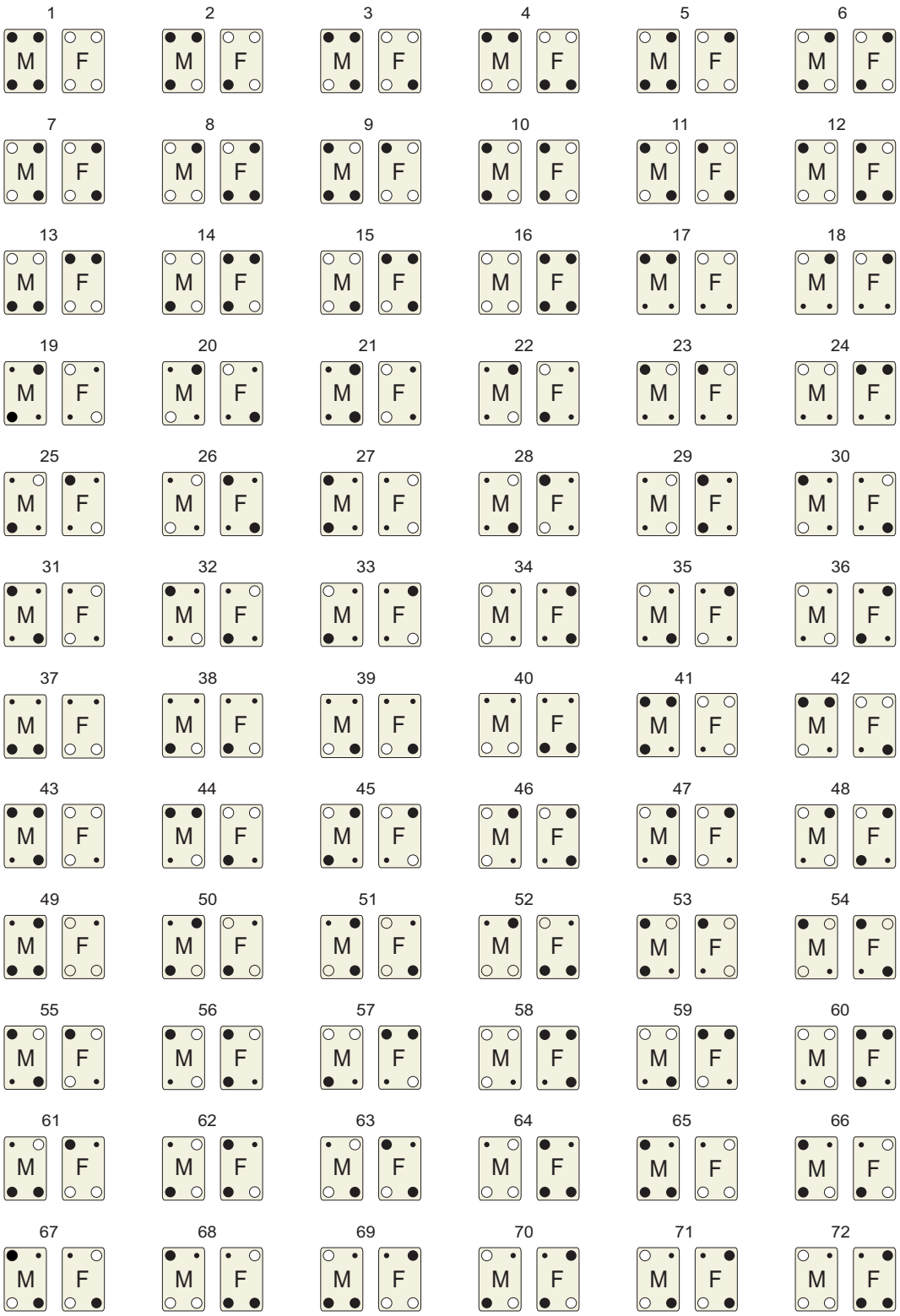
CRF CX / CRF CX D



CR 72 CX / CR 72 CX D



Coding options using the three coding and guiding pins



● female coding and guiding pin (CRF/CRF D and CRF CX/CRF CX D)
○ male coding and guiding pin (CRM/CRM D and CRM CX/CRM CX D)
• single coding pin (CR 72/CR 72 D and CR 72 CX/CR 72 CX D)
M = male insert
F = female insert

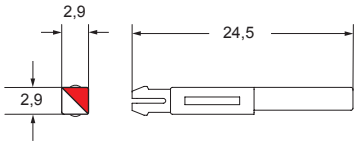
CR coding pins

coding pin
for CK / CKSH 03 inserts

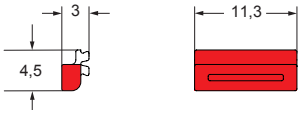
coding pins
for CK / CKSH 04 inserts

description	part No.	part No.	part No.
coding pin for CK/CKSH 03 inserts	**CR K03**		
coding pins for CK/CKSH 04 inserts		red **CR K04R**	yellow **CR K04G**

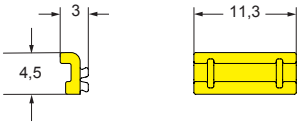
CR K03

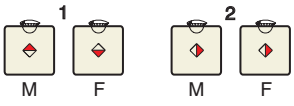


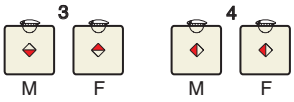
CR K04R



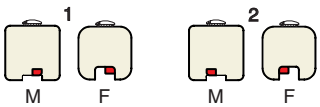
CR K04G

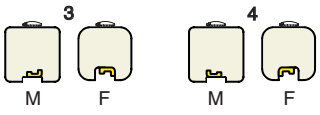






M = male insert
F = female insert





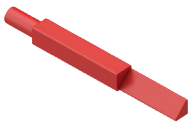
M = male insert
F = female insert

With coding pin
CR K03

CR coding pins

coding pins for crimp inserts

coding pin for CQ 12 inserts



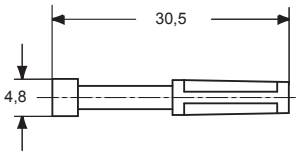
description	part No.	part No.
coding pin for CDC, CQ 05, CQ 08, CQE, CCE, CMCE, MIXO (16A) inserts pin to be inserted into one contact cavity of the female insert instead of the crimp contact, the corresponding contact cavity of the male insert must be left empty	**CR CPQ**	
coding pin for CD and CDD inserts plastic pin, to be inserted into one contact cavity of the female insert instead of a crimp contact, the corresponding contact cavity of the male insert must be left empty	**CR CP**	
coding pin for CQ 12 inserts		**CR Q12**

Coding pins

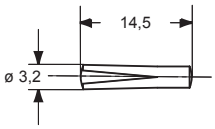
Each series of connector inserts is made in such a way as to make incorrect coupling between inserts of different series impossible.
When a number of identical connectors with different functions are mounted closely together these must be selected in such a way as to prevent the coupling of a mobile part on a non-corresponding fixed part and consequent damage and breakdown.

Within this scope, special coding pins have been manufactured in order to restrict or avoid mating identical multiple connectors.
By combining multiple coding pins, a high number of selected matings can be produced.

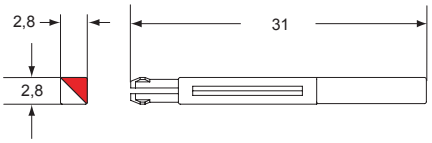
CR CPQ

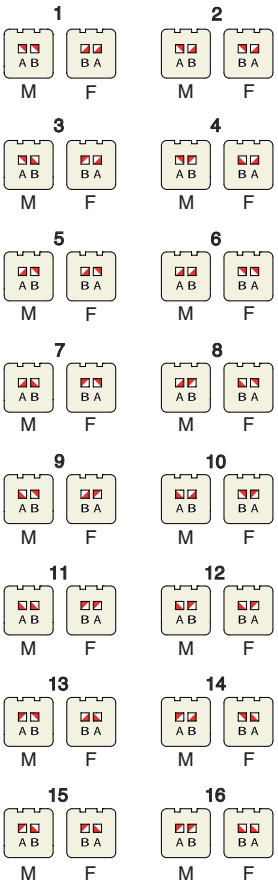


CR CP



CR Q12

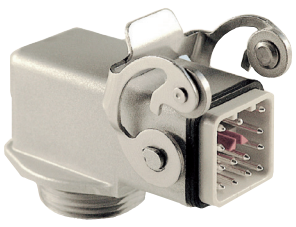




(A B) CQ 12 coding pin

M = male insert
F = female insert

With coding pins CR Q12



With coding pin CR CP

ACCESSORIES

CR coding pins

coding pin for CQF 07 insert

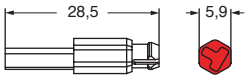
coding pin for CQM 07 insert

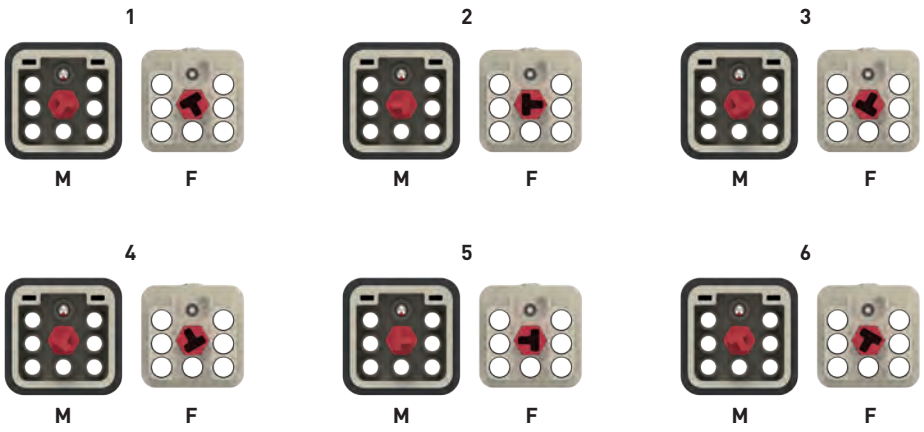
description	part No.	part No.
coding pin for CQF 07 insert	**CR QF07**	
coding pin for CQM 07 insert		**CR QM07**

Coding pins

Each series of connector inserts is made in such a way as to make incorrect coupling between inserts of different series impossible.
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 free part on a non-corresponding fixed part and possible consequent damage and breakdown.

Within this scope, special coding pins have been made available in order to restrict or avoid incorrect mating between multiple identical connectors.





CR QF07 coding pin

CR QM07 coding pin

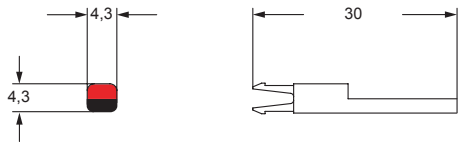
M = male insert
F = female insert

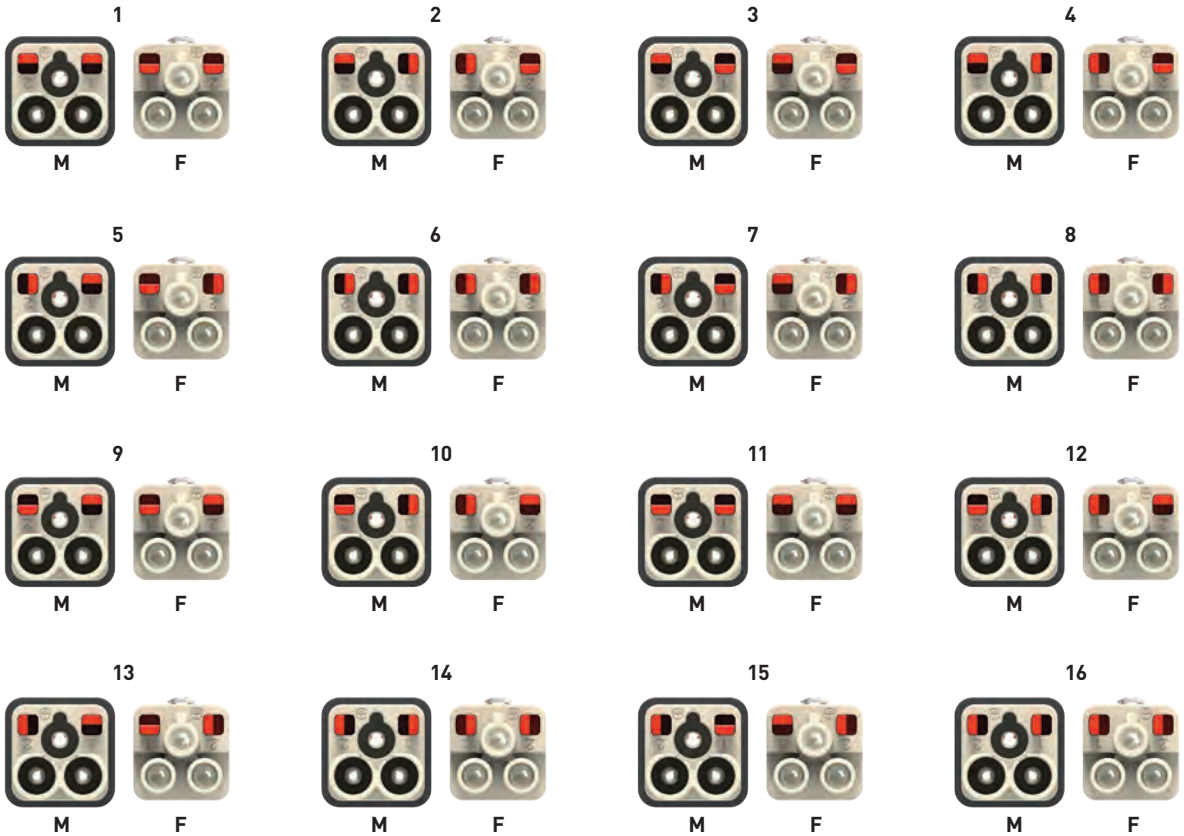
CR coding pins

coding pin
for CQ4 02 inserts

description	part No.
coding pin for CQ4 02 inserts	**CR Q02**

It is possible to achieve up to **16 different codings** thanks to the use of **two optional CR Q02 coding pins: 4 coding pins for each connector coupling.** It is possible to install two pins with 4 positions each.





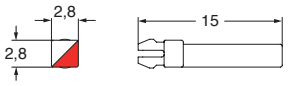
CR Q02 coding pins

M = male insert
F = female insert

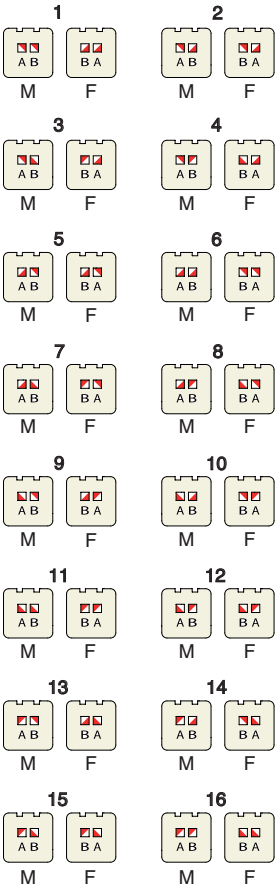
CR coding pins

coding pin
for CQAM 12 T1 and CQ4F/M 03

description	part No.
coding pin for CQAM 12 T1 termination connectors and for CQ4F/M 03 connectors	**CR Q03**



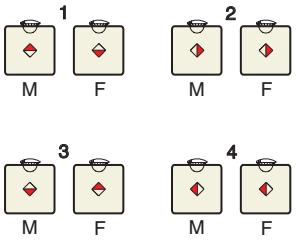
for CQAM 12 T1 (2 pins)



(A B) CQ 12 coding pin

M = male insert
F = female insert

for CQ4F/M 03 (1 pin)

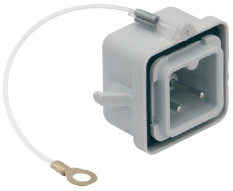


M = male insert
F = female insert

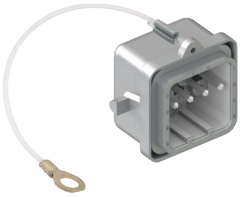
ACCESSORIES

CKM - CQAM termination connectors

termination connector for CKF/CKSF/CKSHF 03 inserts



termination connector for CQF 12 insert



description	part No.	part No.
with pegs and seal, connects pole 2 with pole 3	**CKM 03 T1**	
with pegs and seal, connects pole 1 with pole 2	**CKM 03 T3**	
with pegs and seal, connects pole 5 with pole 6 and pole 7 with pole 8		**CQAM 12 T1**

CKM 03 T1 - CKM 03 T3

- characteristics according to EN 61984:
  10A 400V 4kV 3
- c UL us (UL for USA and Canada), DNV·GL BUREAU VERITAS
  EAC certified

When the termination connector is mated with a CKF/CKSF/CKSHF 03 insert (complete with an enclosure with lever), it performs a dual function:
- connects two socket insert poles
- acts as a cover (IP65 protection rating compliant with EN 60529 standard, with lever closed).

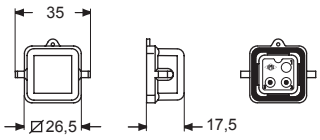
CQAM 12 T1

- characteristics according to EN 61984:
  10A 400V 6kV 3
  10A 400/690V 6kV 2
- c UL us (UL for USA and Canada), DNV·GL BUREAU VERITAS
  EAC certified

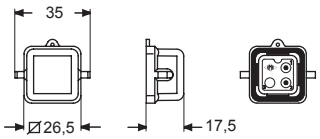
When the terminal connector is mated with a CQF 12 insert (complete with an enclosure with lever), it performs a dual function:
- connects two socket insert poles
- acts as a cover (IP65 protection rating compliant with EN 60529 standard, with lever closed).

CR Q03 coding pins can be used with CQAM 12 T1, in this case the CQF 12 inserts must be provided by CR Q12.

CKM 03 T1

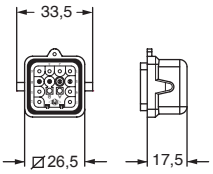


CKM 03 T3



● interconnected male contacts

CQAM 12 T1



● interconnected male contacts

ACCESSORIES

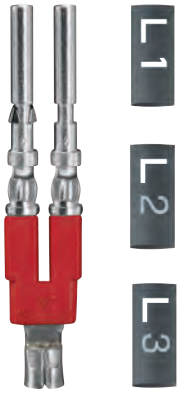
CR bridges for delta connection

inserts

CQF *	12 poles + ⏚
CDDF	24, 42, 72 (144), 108 (216) poles + ⏚
CX 17 DF (MIXO)	1 module

* for enclosures C-TYPE series (CKA/MKA ..I/VS) only

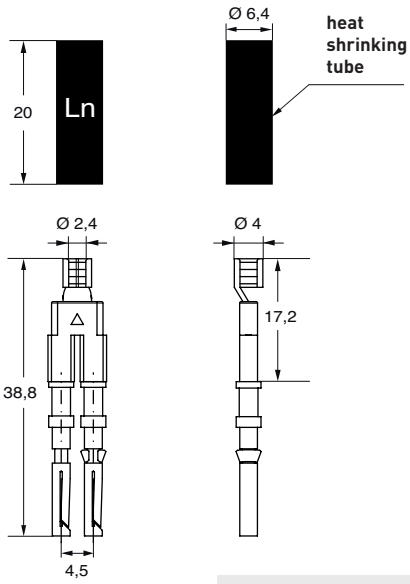
bridges for delta connection



description	part No.
bridge with 2 female 10A contacts, silver plated and open type crimp barrel	**CR BDE**

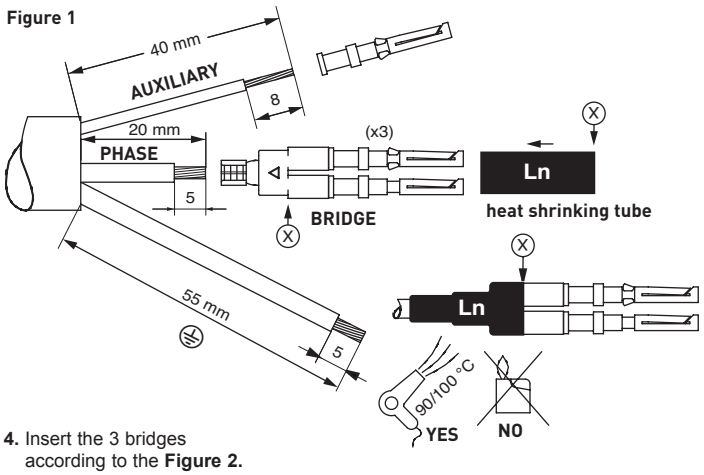
NOTE:
The typical use of the product requires three bridges each with its shrinking tube with L1 / L2 / L3 marking to identify the phases in the wiring.

1. Cut and strip the wires as shown in **Figure 1.**
2. Crimp the contacts on the auxiliary wires and the bridge end to the phase wires (3 units) using CRPZ pliers and CRD matrix (position 2,5).
3. Insert the insulating heat shrinking tubes on the bridges, their end must be aligned with the position Ⓧ. Then heat them at 90/100 °C till they shrink over the wires.



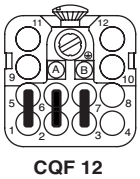
For wires with cross-section ranging from 1,5 to 2,5 mm² (16-14 AWG), crimp connection with **CRPZ** pliers (model CEMBRE IDT) and **CRD** matrix.

Figure 1



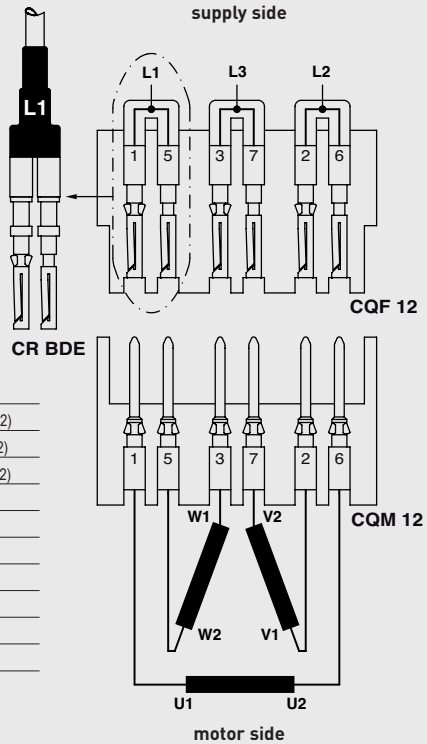
4. Insert the 3 bridges according to the **Figure 2.**

Figure 2



CQF 12
termination side

Example of DELTA connection using inserts CQ 12



1-5	BRIDGE L1 (winding U1/W2)
2-6	BRIDGE L2 (winding V1/U2)
3-7	BRIDGE L3 (winding W1/V2)
4	auxiliary circuit
8	auxiliary circuit
9	auxiliary circuit
10	auxiliary circuit
11	auxiliary circuit
12	auxiliary circuit
⏚	protective earth

ACCESSORIES

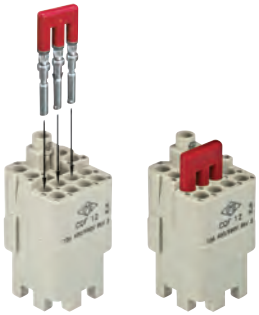
CR bridges for star connection

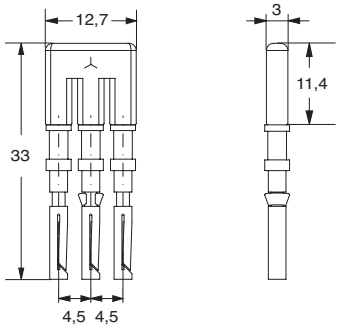
inserts

CQF	12 poles + ⏚
CDDF	24, 42, 72 (144), 108 (216) poles + ⏚
CX 17 DF (MIXO)	1 module

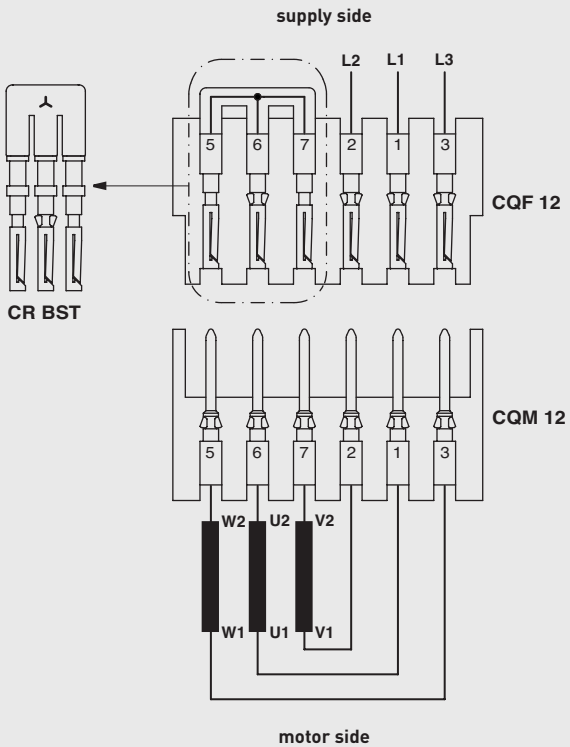
bridges for star connection

description	part No.
bridge with 3 female 10A contacts, silver plated	**CR BST**

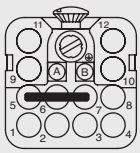




Example of STAR connection using inserts CQ 12



5-6-7	BRIDGE W2-U2-V2
1	L1
2	L2
3	L3
4	auxiliary circuit
8	auxiliary circuit
9	auxiliary circuit
10	auxiliary circuit
11	auxiliary circuit
12	auxiliary circuit
⏚	protective earth



CQF 12
termination side

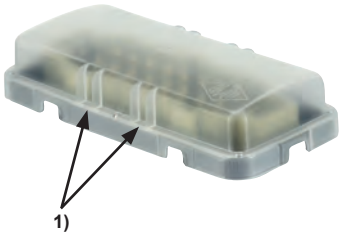
CHCP protection cover

enclosures

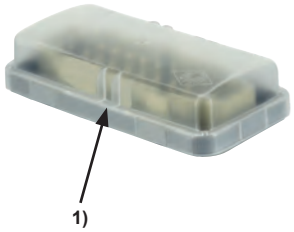
size “44.27”, “57.27”, “77.27”, “104.27”

for versions:
- **C-TYPE IP65/IP66**
- **C7 IP67 stainless steel lever**
- **V-TYPE IP65/IP66 stainless steel lever**
- **BIG hoods**
- **W-TYPE for aggressive environments**
- **EMC**
- **180 °C**
- **central lever**
- **LS-TYPE**

dust protection cover



painting protection cover [2)]

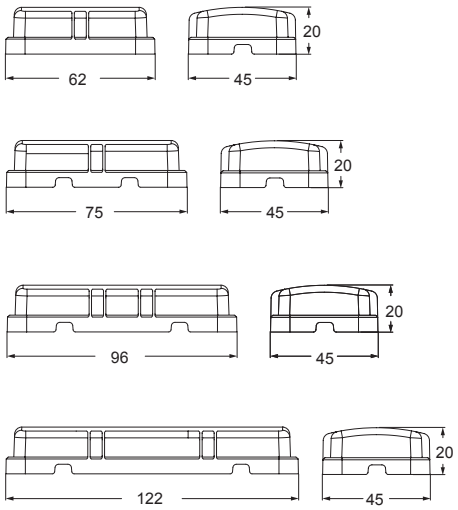


description	part No.	part No.
for housings and hoods with 1 or 2 levers, with 2 or 4 pegs		
size “44.27”	**CHCP 06**	
size “57.27”	**CHCP 10**	**CHCP 10 V**
size “77.27”	**CHCP 16**	
size “104.27”	**CHCP 24**	

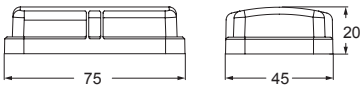
[1)] Possibility of using cable ties to increase the retention of the insulating cover on the hood.

[2)] For housings and hoods with gasket only.

CHCP



CHCP 10 V



CGKCP - CGCP protection cover

for versions:
- **IP68**

size “21.21”, “44.27”, “57.27”, “77.27”, “104.27”

dust protection cover, for housings

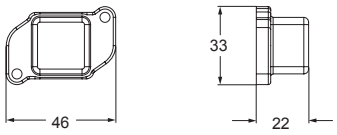
dust protection cover, for hoods

description	part No.	part No.
for housings and hoods		
size “21.21”	**CGKCP FX**	**CGKCP MB**
size “44.27”	**CGCP 06 FX**	**CGCP 06 MB**
size “57.27”	**CGCP 10 FX**	**CGCP 10 MB**
size “77.27”	**CGCP 16 FX**	**CGCP 16 MB**
size “104.27”	**CGCP 24 FX**	**CGCP 24 MB**

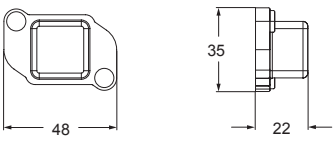
1) Possibility of using cable ties to increase the retention of the insulating cover on the hood.

2) Possibility to fix by screw:
- CGKCP FX: 2xM3
- CGCP FX: 2xM6

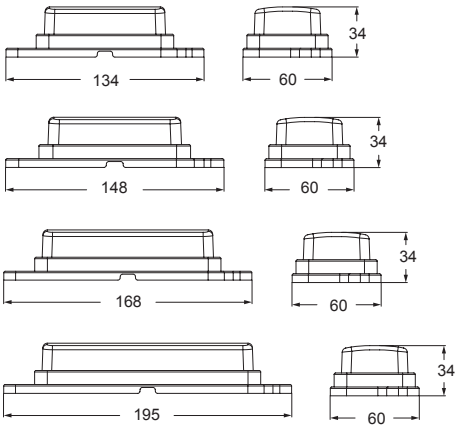
CGKCP FX



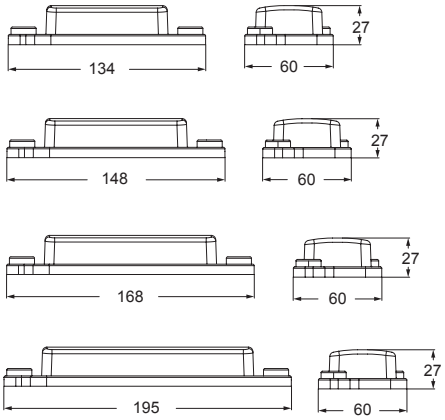
CGKCP MB



CGCP FX



CGCP MB



ACCESSORIES

CBGF CR TM-1

insert joining block

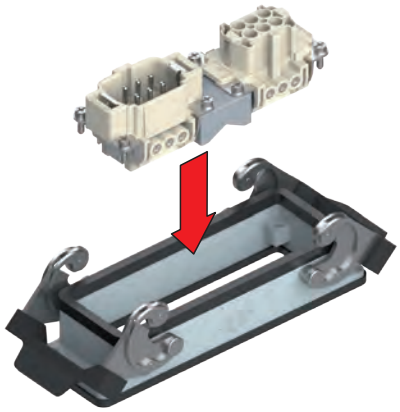
metal replacement handles

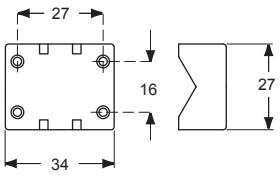
description	part No.	part No.
made of die cast aluminium alloy to mate two inserts (see below)	**CBGF**	
to replace thermoplastic handles		**CR TM-1**
2 component kit for dual lever enclosures [1]		

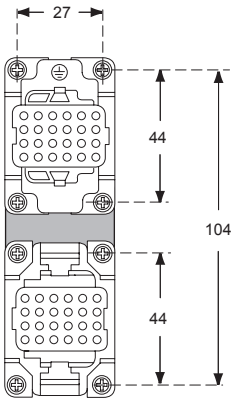
[1] can only be used on dual lever enclosures sizes 57.27, 77.27 and 104.27

CBGF combination block

- Allows two "44.27 size" inserts to be inserted in "104.27 size" enclosures and on the following COB series items: COB TCQ, COB 24 BC, COB TSF, COB TSFS, COB 24 CMS
- Allows female inserts and male inserts in the same enclosure or mounting
- Allows mixed type inserts in the same enclosure or mounting (for example, 6 poles 16A CNEF + 24 poles 10A CDDF)







NOTE
Inserts shown in the drawing are just an example; any "44.27" sized inserts may be combined in a "104.27" housing, including of different gender.

C-TYPE enclosures:
size "104.27" from page 412

panel supports:
COB page 652 - 653

C-TYPE enclosures (with two levers only):
size "57.27" from page 393
size "77.27" from page 402
size "104.27" from page 412

CPT - CPES

inserts

size “104.27” **from page 412**

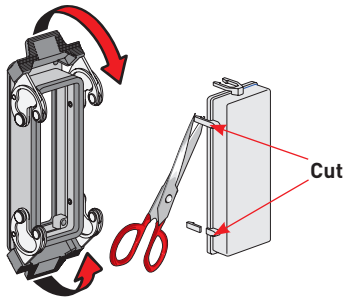
temporary protection cover for transportation

pliers for uncoupling connectors

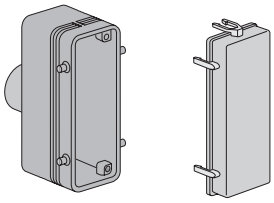
description	part No.	part No.
for housings and hoods with 1 or 2 levers, with 2 or 4 pegs [1]	**CPT 24**	
for housings and hoods with 2 levers and 4 pegs		**CPES**

[1] Cannot be used with T-TYPE series

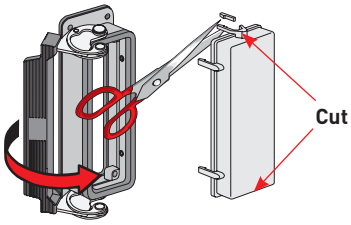
CPT 24 for enclosures with 2 levers



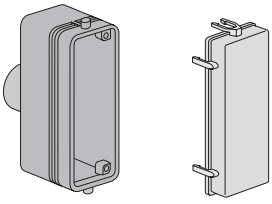
CPT 24 for enclosures with 4 pegs

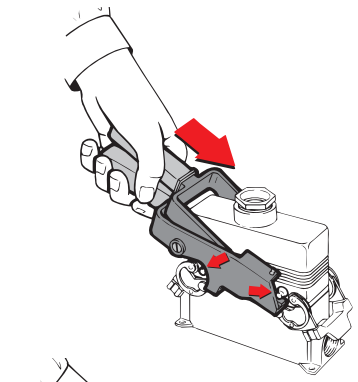


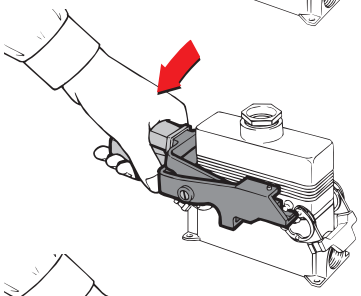
CPT 24 for enclosures with 1 lever

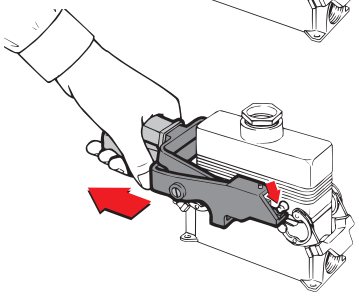


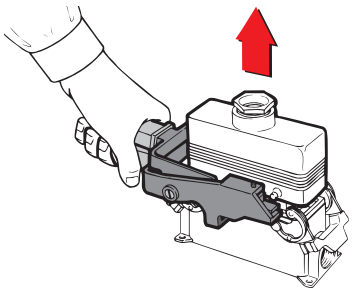
CPT 24 for enclosures with 2 pegs











CR..AD - CR..AD1 - CR..AD2 plates

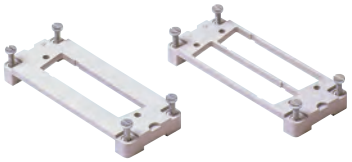
enclosures

size “49.16” **from page 374**
size “66.16” **from page 378**
size “44.27” **from page 387**
size “57.27” **from page 393**
size “77.27” **from page 402**

Use M3 passing screws tightened with nut and washer (not included).
Verify connection continuity of coupled connectors

adapter plates for D-Sub inserts (IEC 60807-2) CZ / MZ / MZF enclosures

adapter plates for D-Sub inserts (IEC 60807-2) CH / CA and MH / MA / MF enclosures



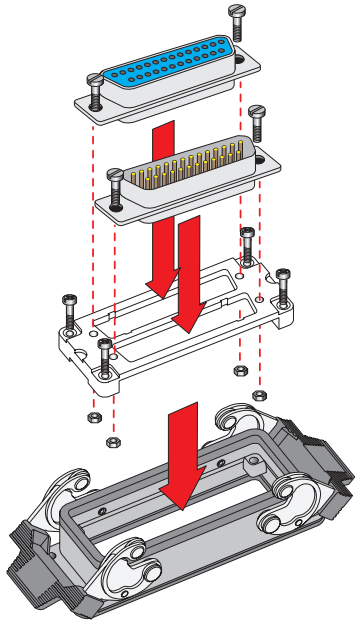
description	part No.	for enclosures size	part No.	for enclosures size
for 1 D-Sub insert 9 poles (not included)	**CR 09 AD**	“49.16”	**CR 09 AD1**	“44.27”
for 1 D-Sub insert 15 poles (not included)	**CR 15 AD**	“49.16”	**CR 15 AD1**	“44.27”
for 1 D-Sub insert 25 poles (not included)	**CR 25 AD**	“49.16”	**CR 25 AD1**	“57.27”
for 1 D-Sub insert 37 poles (not included)	**CR 37 AD**	“66.16”	**CR 37 AD1**	“77.27”
for 1 D-Sub insert 50 poles (not included)	**CR 50 AD**	“66.16”	**CR 50 AD1**	“77.27”
for 2 D-Sub inserts 9 poles (not included)			**CR 09 AD2**	“44.27
for 2 D-Sub inserts 15 poles (not included)			**CR 15 AD2**	“44.27
for 2 D-Sub inserts 25 poles (not included)			**CR 25 AD2**	“57.27”
for 2 D-Sub inserts 37 poles (not included)			**CR 37 AD2**	“77.27
for 2 D-Sub inserts 50 poles (not included)			**CR 50 AD2**	“77.27

Plates CR...AD, CR...AD1 and CR...AD2
For machinery or command equipment that need connection with programming and control electronic devices. The plate housings have notches for the rear insertion of cabled D-Sub inserts.

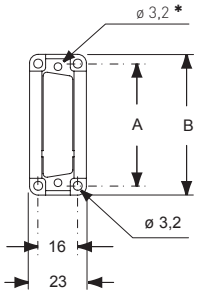
CR...AD
mounting on bulkhead housings and hoods
one-way mounting in bulkhead housings or hoods.

CR...AD1 and CR...AD2
mounting on bulkhead housings (Figure 1)
The D-Sub connector must be mounted on the side marked with the letter “A“

Mounting on hoods (Figure 2)
The D-Sub connector must be mounted on the side marked with the letter “T“



CR...AD



*** For pass-through screws type M3**

The electrical continuity is guaranteed only if mounted in our enclosures.

part No.	A	B
CR 09 AD	49,5	56,5
CR 15 AD	49,5	56,5
CR 25 AD	49,5	56,5
CR 37 AD	66	73,5
CR 50 AD	66	73,5

CR...AD1

Figure 1

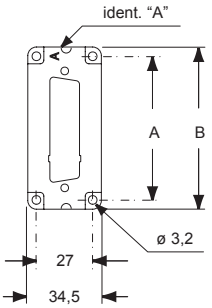
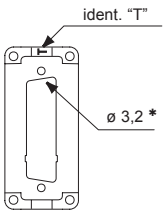


Figure 2



*** For pass-through screws type M3**

CR...AD2

Figure 1

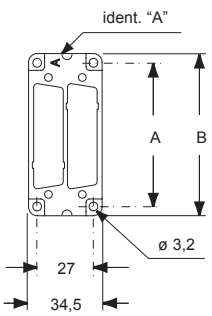
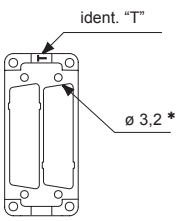


Figure 2



*** For pass-through screws type M3**

part No.	A	B
CR 09 AD1 / 2	44	51,5
CR 15 AD1 / 2	44	51,5
CR 25 AD1 / 2	57	64,5
CR 37 AD1 / 2	77,5	85
CR 50 AD1 / 2	77,5	85

SDS - CHSDS kit for control equipment

enclosures *)	page:
size "104.62"	
C-TYPE IP65/IP66	**430**

*) normally bulkhead type

kit for control equipment plate only

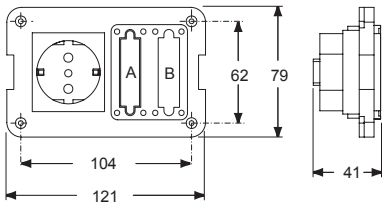
kit for control equipment plate with enclosure

description	part No.	for enclosures	part No.
with Schuko® socket 16A and 2 seats for: CR 09 AD, CR 15 AD, CR 25 AD plates	**SDS**	CHI 48 LS	
with Schuko® socket 16A and 2 seats for: CR 09 AD, CR 15 AD, CR 25 AD plates			**CHSDS**

Kit for control equipment

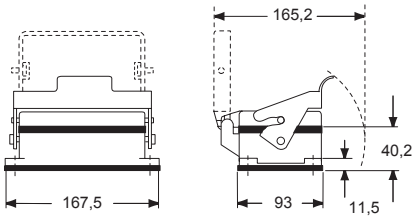
For machinery or command equipment that need connection with programming and control electronic devices.
The kit includes the Schuko® socket and 2 seats for the CR…AD plates (not included) for D-sub inserts (not included).
Personal computers, notebooks or printers can be power supplied using a 16A socket.
Monitors, printers and other peripheral devices may be interfaced using D-sub connectors

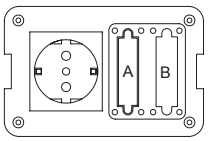
CR…AD usable plates	
part No.	
CR 09 AD	for 1 D-sub insert 9 poles (not included)
CR 15 AD	for 1 D-sub insert 15 poles (not included)
CR 25 AD	for 1 D-sub insert 25 poles (not included)



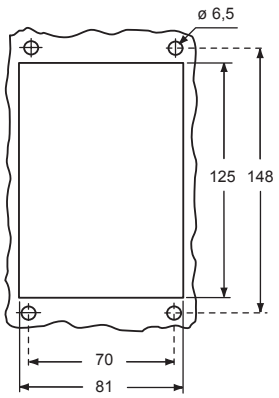
Closed seat "A" for use with one insert only.
The closing is achieved by means of a plastic membrane that can easily be removed if the second seat is required.

CR.. AD plates to be ordered separately.





housing panel cut-out



ACCESSORIES

CRH - CRZ closure and reduction plate

enclosures

size “44.27” **from page 387**
size “57.27” **from page 393**
size “77.27” **from page 402**
size “104.27” **from page 412**

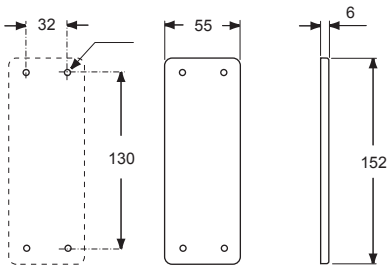
“104.27” closure plate

reduction plate

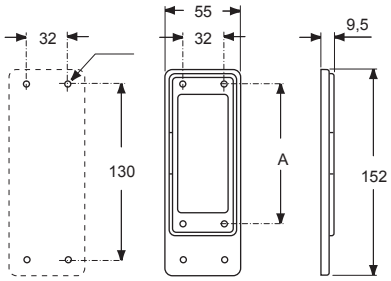
description	part No.	part No.
in self-extinguishing thermoplastic resin with gasket in vinil-nitrile elastomer	**CRH 24**	
in self-extinguishing thermoplastic resin with gasket in vinil-nitrile elastomer		
for bulkhead mounting housings [1] size “44.27”		**CRZ 06**
for bulkhead mounting housings [1] size “57.27”		**CRZ 10**
for bulkhead mounting housings [1] size “77.27”		**CRZ 16**
for bulkhead mounting housings [1] size “104.27”		**CRZ 24**

[1] Cannot be used with T-TYPE series and IP68 CG/MG series

CRH 24



CRZ



CRZ	A
06	44
10	44
16	57
24	77,5

CX BES extraction tool

extraction tool for MIXO BUS connectors

description	part No.
tool for the extraction of the shielded connectors (coax **CX 01 BF/M** page 291, **CX 01 BCF/M** page 289, **CX 04 BF/M** page 291, **CX 08 BF/M** page 293) from either the **CX 1/2 BDF/M** adapters (page 243) or the MIXO BUS **CX 02 BF/M** (page 290) modular units.	**CX BES**