

Die Modulareinsätze sind in die dafür vorgesehenen Rahmen zu montieren, die in Aluminiumdruckguss-, Kunststoffgehäuse * oder Komponenten des COB-Systems eingebaut werden können.

Rahmen für Modulareinsätze * Seite: 215

*** ACHTUNG:**

Modulareinsätze HT nur mit hohen Tüllen-, Sockelgehäusen oder Anbaugehäusen verwenden.

- Eigenschaften gemäß EN 61984 **:

16A 2900/5000V 15kV 3

** soweit anwendbar

- Isolationswiderstand: $\geq 10 \text{ G}\Omega$
- Grenzwerte Umgebungstemperatur: $-40 \text{ }^\circ\text{C} \dots +125 \text{ }^\circ\text{C}$
- Die Kontakteinsätze werden aus selbstverlöschendem Thermoplastharz UL94 V0 hergestellt
- Mechanische Lebensdauer: ≥ 500 Zyklen
- Kontaktwiderstand: $\leq 1 \text{ m}\Omega$
- Für das Crimpen der Kontakte siehe Kapitel Crimpwerkzeuge (Kontakte 16A Serie CCF, CCM und CC...AN), S. 534, 538, 544, 546, 548

Modulareinsätze mit Crimpanschluss Demontagewerkzeug



Crimpkontakte 16A versilbert oder vergoldet

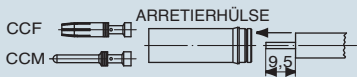


Beschreibung	Artikelbezeichnung	Artikelbezeichnung	Artikelbezeichnung
Die Crimpkontakte sind separat zu bestellen - Buchseneinsatz - Stifteinsatz	CX 02 HF CX 02 HM		
Demontagewerkzeug	CHES		
Crimpkontaktbuchsen 16A 0,14–0,37 mm ² AWG 26–22 1 Rille 0,5 mm ² AWG 20 ohne Rillen 0,75 mm ² AWG 18 1 Rille am Schaft 1,0 mm ² AWG 18 1 Rille 1,5 mm ² AWG 16 2 Rillen 2,5 mm ² AWG 14 3 Rillen 3,0 mm ² AWG 12 1 breite Rille 4,0 mm ² AWG 12 ohne Rillen		CCFA 0.3 CCFA 0.5 CCFA 0.7 CCFA 1.0 CCFA 1.5 CCFA 2.5 CCFA 3.0 CCFA 4.0	CCFD 0.3 CCFD 0.5 CCFD 0.7 CCFD 1.0 CCFD 1.5 CCFD 2.5 CCFD 3.0 CCFD 4.0
Crimpkontaktstifte 16A 0,14–0,37 mm ² AWG 26–22 1 Rille 0,5 mm ² AWG 20 ohne Rillen 0,75 mm ² AWG 18 1 Rille am Schaft 1,0 mm ² AWG 18 1 Rille 1,5 mm ² AWG 16 2 Rillen 2,5 mm ² AWG 14 3 Rillen 3,0 mm ² AWG 12 1 breite Rille 4,0 mm ² AWG 12 ohne Rillen		CCMA 0.3 CCMA 0.5 CCMA 0.7 CCMA 1.0 CCMA 1.5 CCMA 2.5 CCMA 3.0 CCMA 4.0	CCMD 0.3 CCMD 0.5 CCMD 0.7 CCMD 1.0 CCMD 1.5 CCMD 2.5 CCMD 3.0 CCMD 4.0

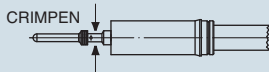
Verwendung der Modulareinsätze HT

Montageanleitung:

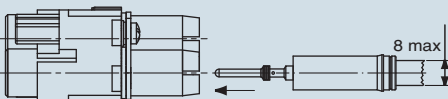
1) Anschlusskabel auf einer Länge von 9,5 mm abisolieren und in die Arretierhülse einführen



2) Crimpkontakt der Serie CC mit dem abisolierten Teil des Anschlusskabels vercrimpen



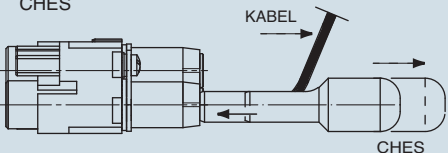
3) Angecrimptes Kabel mit der Arretierhülse in den Isolierkörper einführen und einrasten



Wärmeschumpfschlauch zur zusätzlichen Isolierung zwischen Anschlusskabel und Arretierhülse ist im Lieferumfang bereits enthalten

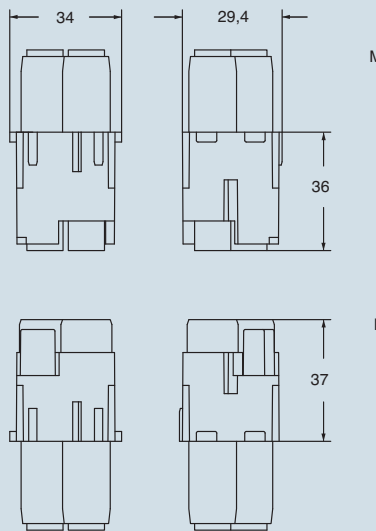
Demontage der Arretierhülse:

1) Zur Demontage der Arretierhülse aus dem Isolierkörper benutzen Sie das Demontagewerkzeug CHES



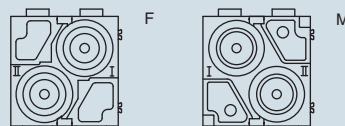
Die angegebenen Abmessungen sind nicht verbindlich. Technische Änderungen bleiben vorbehalten.

Abmessungen in mm



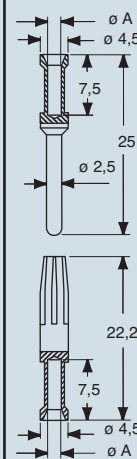
Ansicht von der Kontaktseite

Referenzpfeil für Modulpolarität ▲



- Platzbedarf 2 Modulbreiten

Abmessungen in mm



Kontakte CCF und CCM

Leiterquerschnitt	Durchmesser ϕA	Abisolierlänge
0,14–0,37 mm ²	0,9 mm	7,5 mm
0,5 mm ²	1,1 mm	7,5 mm
0,75 mm ²	1,3 mm	7,5 mm
1,0 mm ²	1,45 mm	7,5 mm
1,5 mm ²	1,8 mm	7,5 mm
2,5 mm ²	2,2 mm	7,5 mm
3 mm ²	2,55 mm	7,5 mm
4 mm ²	2,85 mm	7,5 mm

1) 2 μm - oder NiP-Vergoldung auf Seite 481

MIXO

CX 02 CHF/CHM



MIXO High Voltage
2 poles single module,
16A (crimp),
2500V AC or DC



Find more
information on
our products at
www.ilme.com

TECHNICAL FEATURES

CX 02 CHF/CHM

A new **high-voltage single module** has been added to the ILME MIXO series of modular industrial connectors, allowing the transmission of power up to 16A rated current at very high working voltage of 2500V AC or DC with half space requirement compared with the previously available solution.

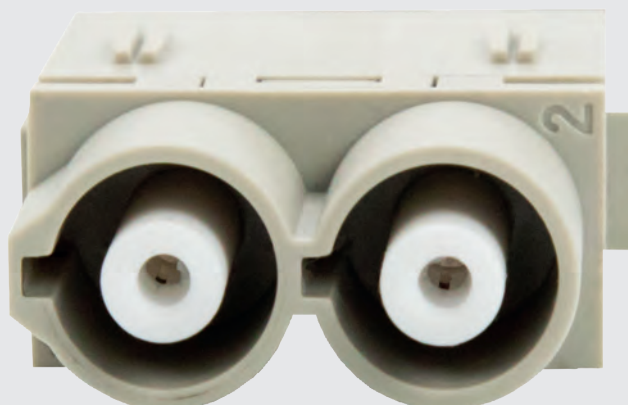
The new ILME **MIXO HT single module CX 02 CHF/CHM** is based on the space-saving design of MIXO 70A modules CX 02 7F/ 7M with two power contacts per module, incorporating in that module two contact holders made of PTFE that provides outstanding high-voltage insulation, for the installation of two removable crimp contacts **CC series**, that can handle stranded copper conductor connection with cross-sections 0,5 mm² (20 AWG) through 4 mm² (12 AWG).

This new **MIXO HV single module** allows – for example – to design a MIXO size “104.27” connector equipped with up to 12 power contacts rated 16A – 2500V AC or DC. The module can also be combined with other power modules (200A, 100A, 70A, 40A) for use at lower rated voltage (e.g. 500V or 690V or 1000V) or signal modules (10A, 5A), pneumatic modules and optical or data transmission modules.

The main features of the new MIXO HV single module CX 02 CHF/CHM are:

- single-sized module: halves the space required for power & high voltage for operating voltages ≤ 2500V AC or DC (CX 02 CHF/CHM double-sized module offers the same number of poles for 16A – 2900/5000V AC or DC);
- up to 16A rated current at up to 2500V AC or DC rated operating voltage, pollution degree 3 per IEC/EN 60664-1;
- contact holders and seats made of PTFE for outstanding dielectric withstand properties, external module support made by glass fibre reinforced polycarbonate;
- for 2 removable crimp contacts CC series; same crimping tools for these contacts;
- heat shrinking tube provided for the two contacts CC series to be applied after crimping on a suitably rated medium voltage wire, to establish the required insulation on the cable entry side;
- dedicated extraction tool **CH1ES** for contact removal;
- suitable for connection to appliances requiring high voltage even transient, e.g. starters for high power discharge lamps, storage capacitors, high voltage testing equipment, etc.

shielded module with
9-pole D-Sub female
connector



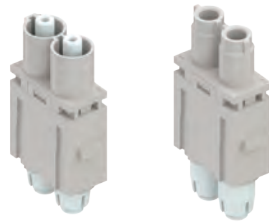
HV 2 poles single module 16A - 2500V

The modular inserts must be installed in suitable frames which are then mounted in traditional housings* or COB panel support.

frames for modular units* pages
44-45

* enclosures: bulkhead mounting housings, high construction housings or high construction hoods

high voltage modular units, crimp connections



AVAILABLE JUNE 2018

16A crimp contacts silver and gold plated



description	part No.	part No.
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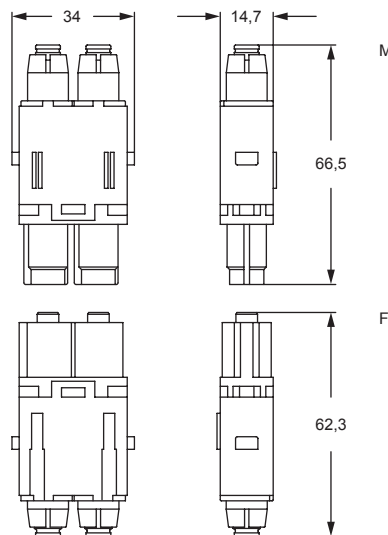
without contacts (to be ordered separately)		
- high voltage female inserts for female contacts	CX 02 CHF	
- high voltage male inserts for male contacts	CX 02 CHM	
contact holder removal tool	CH1ES	

16A female contacts					silver plated		gold plated ⁺	
0,5 mm ²	AWG 20	with no grooves	CCFA 0.5		CCFD 0.5			
0,75 mm ²	AWG 18	one groove (back side)	CCFA 0.7		CCFD 0.7			
1 mm ²	AWG 18	one groove	CCFA 1.0		CCFD 1.0			
1,5 mm ²	AWG 16	two grooves	CCFA 1.5		CCFD 1.5			
2,5 mm ²	AWG 14	three grooves	CCFA 2.5		CCFD 2.5			
3 mm ²	AWG 12	one wide groove	CCFA 3.0		CCFD 3.0			
4 mm ²	AWG 12	with no grooves	CCFA 4.0		CCFD 4.0			
16A male contacts			CCMA 0.5		CCMD 0.5			
0,5 mm ²	AWG 20	with no grooves	CCMA 0.7		CCMD 0.7			
0,75 mm ²	AWG 18	one groove (back side)	CCMA 1.0		CCMD 1.0			
1 mm ²	AWG 18	one groove	CCMA 1.5		CCMD 1.5			
1,5 mm ²	AWG 16	two grooves	CCMA 2.5		CCMD 2.5			
2,5 mm ²	AWG 14	three grooves	CCMA 3.0		CCMD 3.0			
3 mm ²	AWG 12	one wide groove	CCMA 4.0		CCMD 4.0			
4 mm ²	AWG 12	with no grooves						

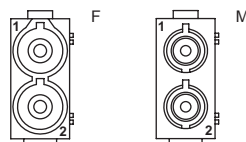
- characteristics according to EN 61984**:
- 16A 2500V 15kV 3**
- ** used for guidance as applicable
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40 \text{ }^\circ\text{C} \dots +125 \text{ }^\circ\text{C}$
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$
- for contact crimping instructions, please refer to the crimping tool section (16A contacts, CCF and CCM series on pages 531-539 and 544-549 catalogue CN.16
- contact holder removal tool: **CH1ES**



CH1ES

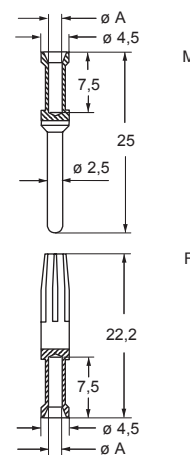


contacts side (front view)
side with reference arrow ▲



- 1 frame slot

CCF and CCM



CCF and CCM contacts

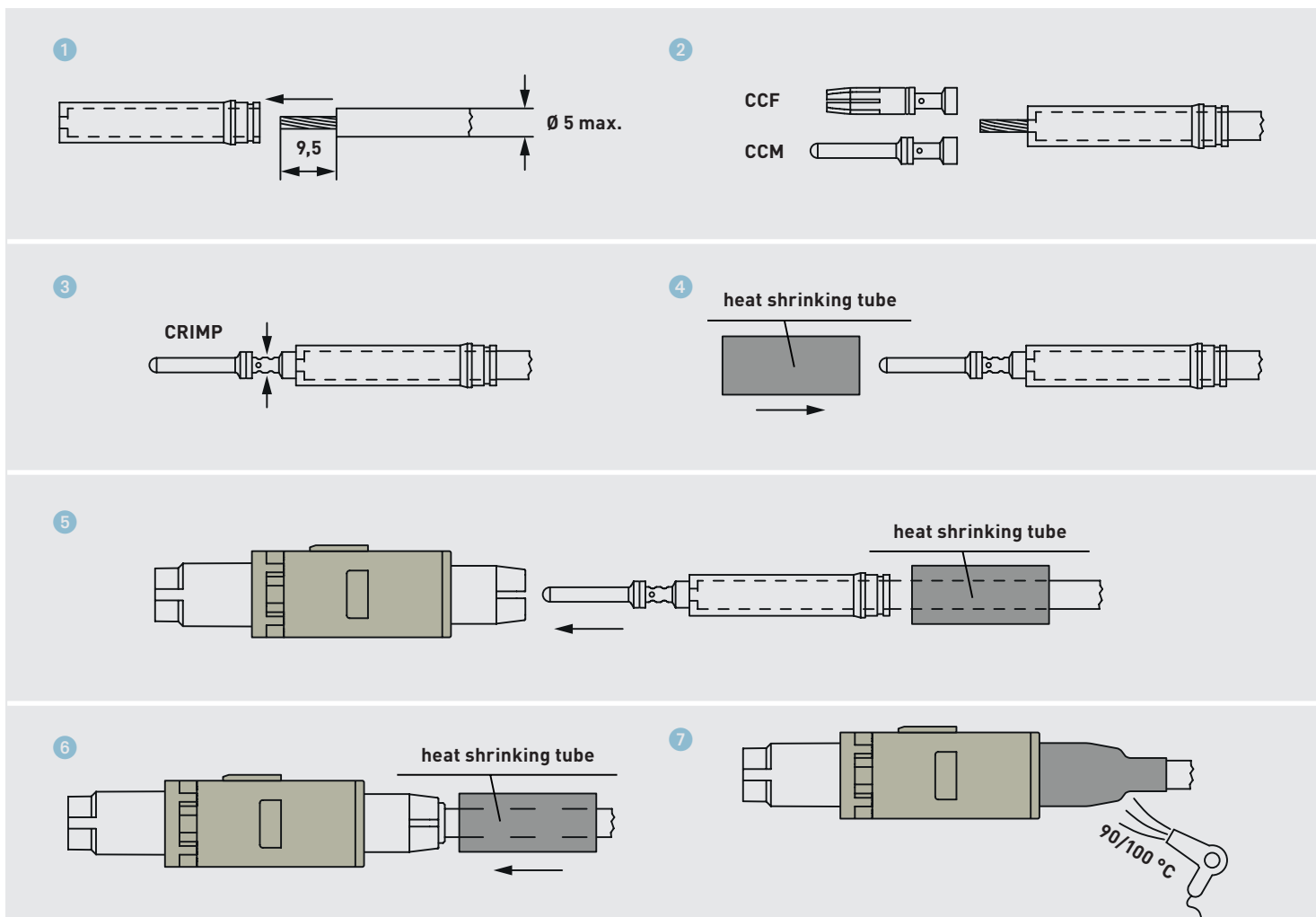
conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(mm)
0,5	1,1	7,5
0,75	1,3	7,5
1,0	1,45	7,5
1,5	1,8	7,5
2,5	2,2	7,5
3	2,55	7,5
4	2,85	7,5

⁺ for basic or high thickness gold plating, please refer to page 481 of catalogue CN.16



ASSEMBLY INSTRUCTIONS

CX 02 CHF/CHM



CONTACT HOLDER REMOVAL

