

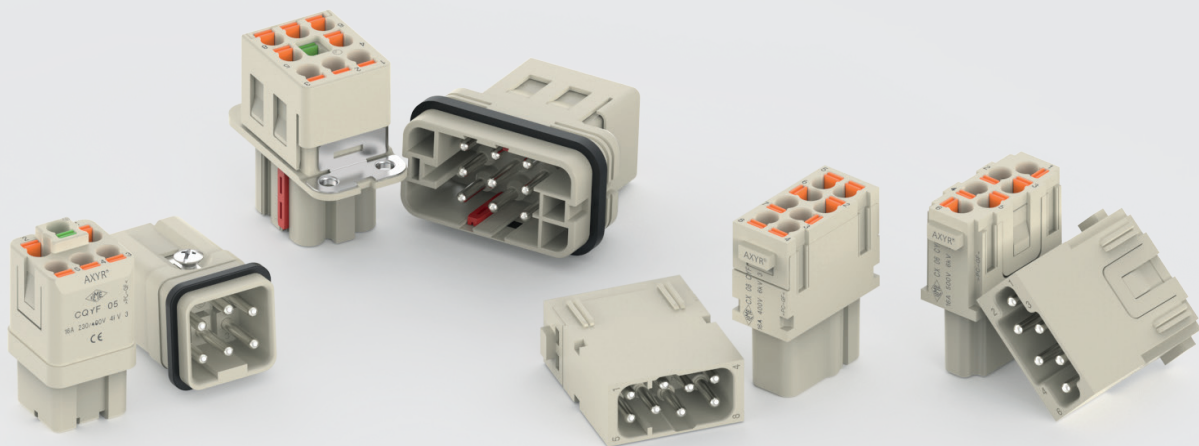
AXYR®

HIGH-DENSITY, FAST & TOOL-LESS CONNECTIONS

PRODUCT RANGE FOR 16 A CONNECTIONS

The research of new termination technologies aims to develop a reliable and qualitatively stable connection between conductor and contact, meeting any possible application requirement in terms of current carrying-capacity and available number of poles, as much as possible independently from the skill of the operator.

Crimped connection, with its typical irreversible process, achieves the best performance and the highest possible connection density, but requires specific wiring procedures and special tools, while being also non-rewirable.



- Q **ILME AXYR® technology** offers an extremely compact **spring push-in** termination, which equals the crimp connectors in **high density**, but requires **no special crimping tool**, yet granting an optimal electrical performance. **An easy, tool-less and operator skill independent connection**, resistant to mechanical stress and vibrations, suitable for any installation requirement.
- Q **AXYR®** features a harmonic steel spring and a tiny, yet stiff, properly designed actuator button working together to allow a **simple push-in action** guaranteeing a safe wiring.
- Q Thanks to a **boxed terminal**, the wire contact pressure does not rely upon surrounding insulating parts, likely to possibly relax under heating when the connector is under current load.

- Q Solid and ferruled flexible wires, when sufficiently stiff, can be **directly inserted** into the connection terminal*; unprepared stranded wires require instead the initial opening of the spring by means of a simple flat-blade screwdriver, thanks to the actuator button.
- Q **AXYR®** technology makes the **user free to choose** the connector that best suits his needs, naturally reusable and **independent of the required wire cross-section**, compatible with the crimp connectors of the ILME product portfolio: **one size fits the whole range of cross-sectional areas** (compared to competing solution with radial spring that require two sizes).

* Cross-sectional area $\geq 0,75 \text{ mm}^2 / 18 \text{ AWG}$

AXYR® FROM INSIDE

THE WIRING



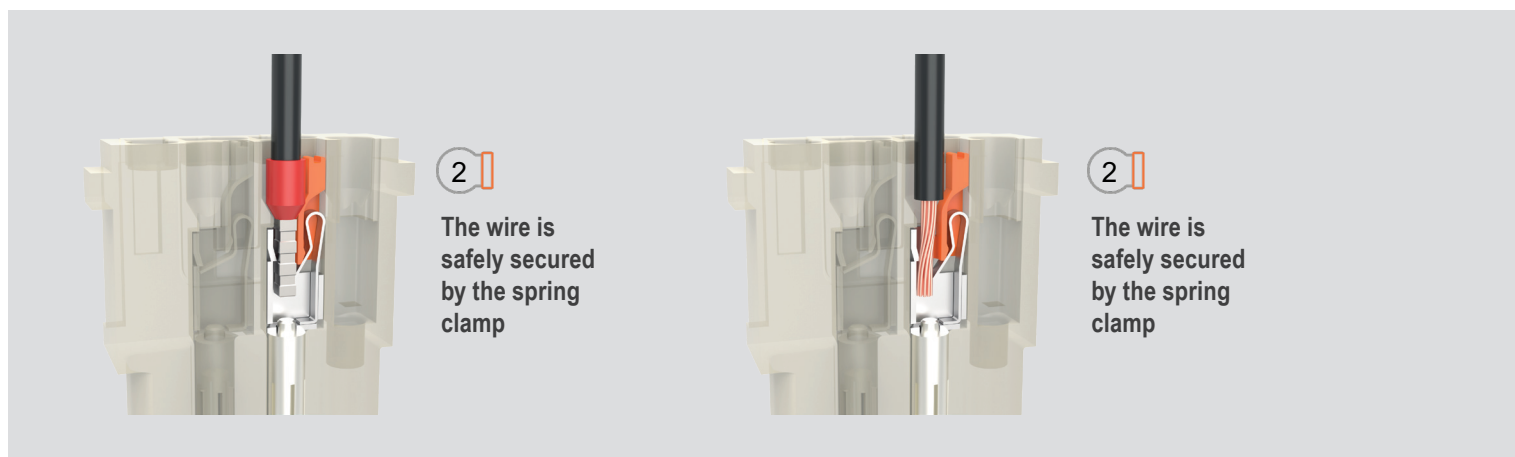
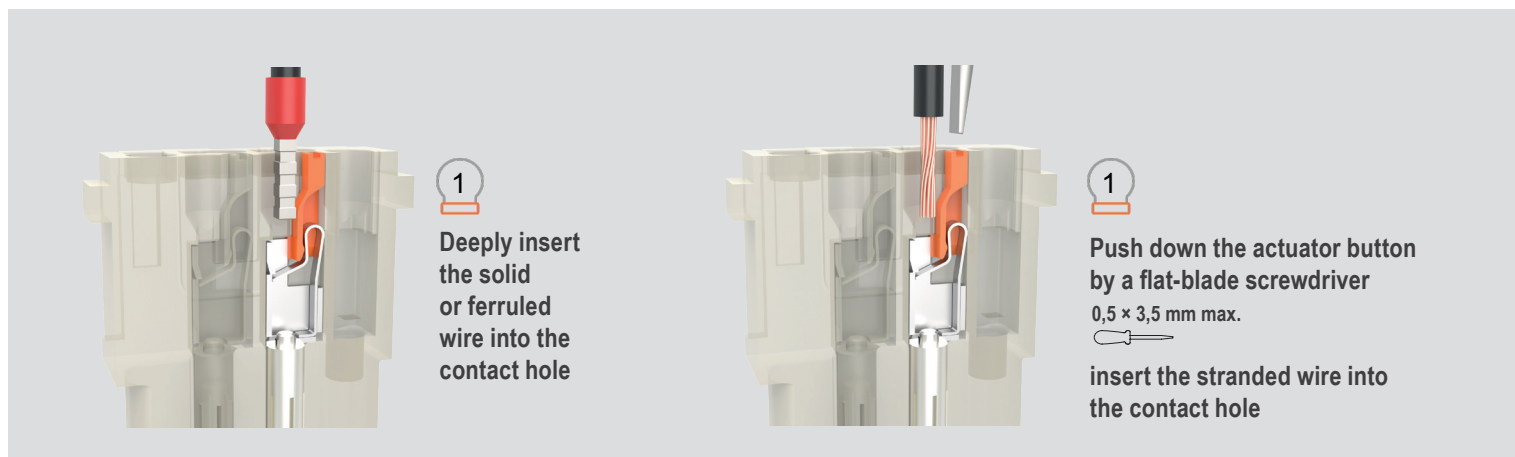
Watch our
Technical Clip



**SOLID
OR FERRUED WIRE**
(CSA* \geq 0,75 mm² / 18 AWG)



STRANDED WIRE
(all CSA)
SOLID OR FERRUED WIRE
(CSA < 0,75 mm² / 18 AWG)



*CSA = Cross-Sectional Area

Re-opening



Push down the actuator button by a flat-blade 0,5 × 3,5 mm max. screwdriver to remove the wire



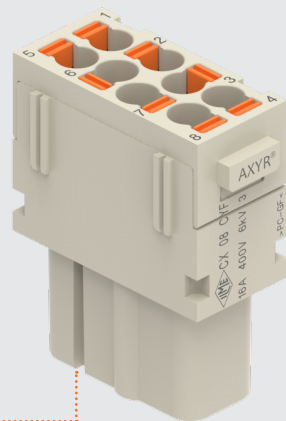
AXYR® TECHNOLOGY

ZOOM-IN AND BENEFITS

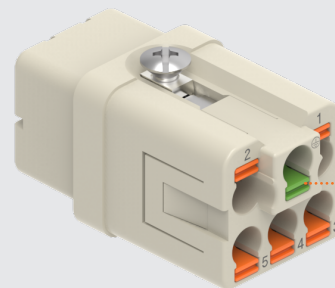
- ▶ AXYR® connection equals the density of the crimp connection, without need for any crimping tool

Wire release with a **simple** flat-blade screwdriver.

- ▶ AXYR® trademark on the product



- ▶ **Mateable** with the corresponding crimp versions



- ▶ AXYR® PE contact

- ▶ **Machined** brass contacts
- ▶ One size fits the **whole range** of cross-sectional areas
- ▶ Suitable for **rigid or ferrule-prepared** stranded wires **as well as** for unprepared stranded wires



- ▶ **Patented** technology



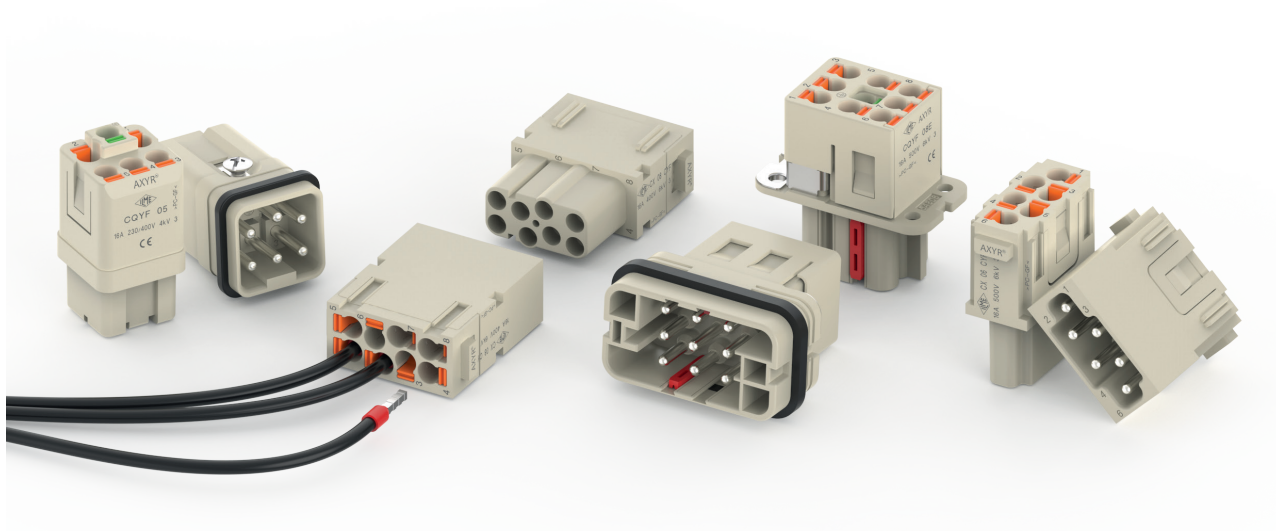
AXYR[®] PRODUCT RANGE

FOR 16 A CONNECTIONS



Watch our
Technical Clip

Inserts		EN 61984 Rating	Poles	Series	Size
CX 06 CYF	CX 06 CYM	16 A 500 V 6 kV 3	6	MIXO	1 module
CX 08 CYF	CX 08 CYM	16 A 400 V 6 kV 3	8	MIXO	1 module
CQYF 05	CQYM 05	16 A 230/400 V 4 kV 3	5 + ⊕	CQ	"21.21"
CQYF 08E	CQYM 08E	16 A 500 V 6 kV 3	8 + ⊕	CQ	"32.13"



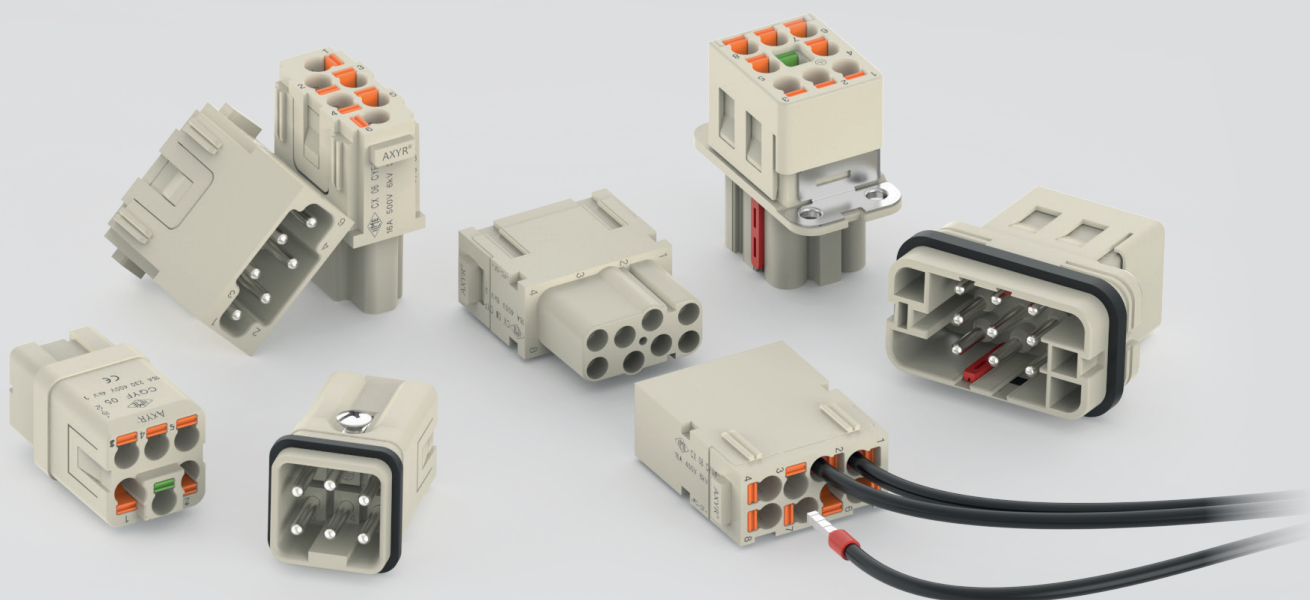
AXYR[®] 16 A inserts and modules

AXYR®

Product range for 16 A connections

CQY 05 / CQY 08E inserts

MIXO CX 06 CY / CX 08 CY modules



CQY 05 inserts

5 P + ⊕: 16 A 230/400 V 4 kV 3

CQY 08E inserts

8 P + ⊕: 16 A 500 V 6 kV 3

16 A 400/690 V 8 kV 2

MIXO CX 06 CY and CX 08 CY modules

6 P: 16 A 500 V 6 kV 3

8 P: 16 A 400 V 6 kV 3



Find out more
www.ilme.com

enclosures:
size "21.21"

page:

Insulating type	339 - 348
Metallic type	349 - 363
W-TYPE for aggressive environments	512 - 518
EMC	564 - 572
IP68	628 - 631
E-Xtreme® corrosion proof	538 - 539

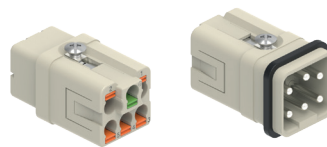
page:

COB 03/3 BC 134

refer to CN.19 pages

refer to News 2020 pages

inserts,
AXYR® terminal connections



Q SIZE "21.21"

description

part No.

spring/AXYR® push-in connection
female inserts with female contacts
male inserts with male contacts

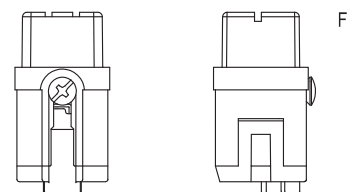
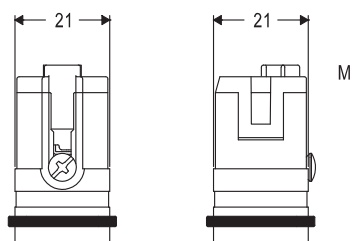
CQYF 05
CQYM 05

- characteristics according to EN 61984:
16 A 230/400 V 4 kV 3

- cURus (ECBT2/8 and PVVA2/8) pending
- CQC, EAC, DNV-GL, BV pending

- rated voltage according to UL/CSA: 600 V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40 \text{ }^\circ\text{C} \dots +125 \text{ }^\circ\text{C}$
- made by UL 94V-0 glass reinforced polycarbonate, EN 45545-2:2015 compliant
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 3 \text{ m}\Omega$

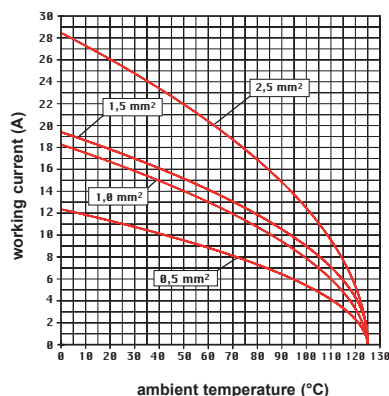
- for max. current load see the connector inserts derating diagram under construction; for more information see page 28 of CN.19 catalogue



contacts side (front view)



CQY 5 poles connector inserts
Maximum current load derating diagram



- inserts for conductors with the following cross-sectional areas, either ferruled or unferruled:
0,25 mm² - 2,5 mm² (AWG 24-14)

- conductors stripping length: 9...11 mm

CQYF /M 08E 8 poles + ⊕ 16 A - 500 V

enclosures:
size "32.13"

page:

metallic

38

insulating type
EMC (insulating)

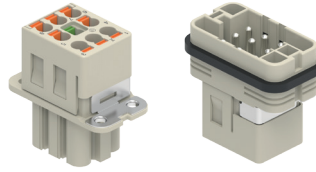
365 - 367
573 - 574

ISO 23570-3
standard and DESINA,
specification compliant



refer to CN.19 pages

inserts,
AXYR® terminal connections



Q SILVER PLATED CONTACTS

description

part No.

spring/AXYR® push-in connection
female insert with female contacts
male insert with male contacts

CQYF 08E
CQYM 08E

- characteristics according to EN 61984:

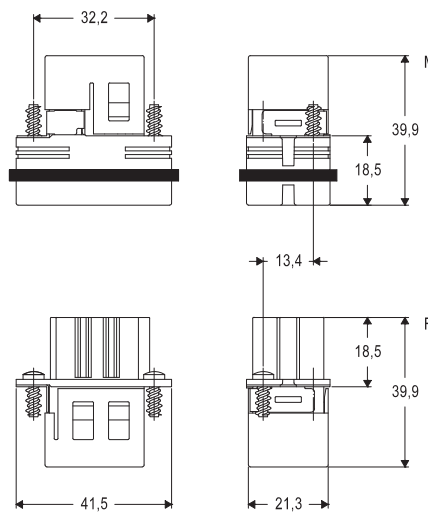
16 A 500 V 6 kV 3
16 A 400/690 V 8 kV 2

- cURus (ECBT2/8 and PVVA2/8) pending
- CQC, EAC, DNV-GL, BV pending

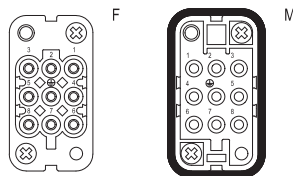
- rated voltage according to UL/CSA: 600 V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40 \text{ }^\circ\text{C} \dots +125 \text{ }^\circ\text{C}$
- made by UL 94V-0 glass reinforced polycarbonate, EN 45545-2:2015 compliant
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 3 \text{ m}\Omega$

- coded for use with "32.13" metallic enclosures (and insulating enclosures)

- for max. current load see the connector inserts derating diagram under construction; for more information see page 28 of CN.19 catalogue

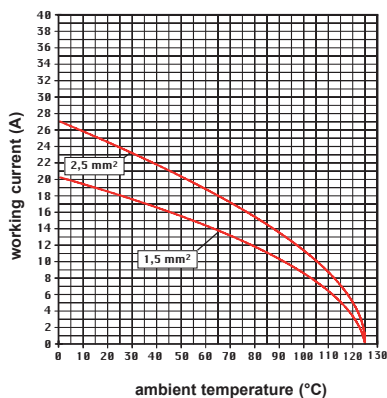


contacts side (front view)



Q Please refer to page 34 for the CQ 08 NEW METAL CONCEPT solution

CQY..E 8 poles connector inserts
Maximum current load derating diagram



- inserts for conductors with the following sections either ferruled or unferruled:
0,25 mm² - 2,5 mm² (AWG 24-14)

- conductors stripping length: 9...11 mm

CR coding pin

coding pin



description

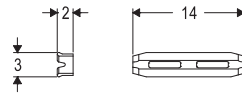
part No.

plastic coding pin

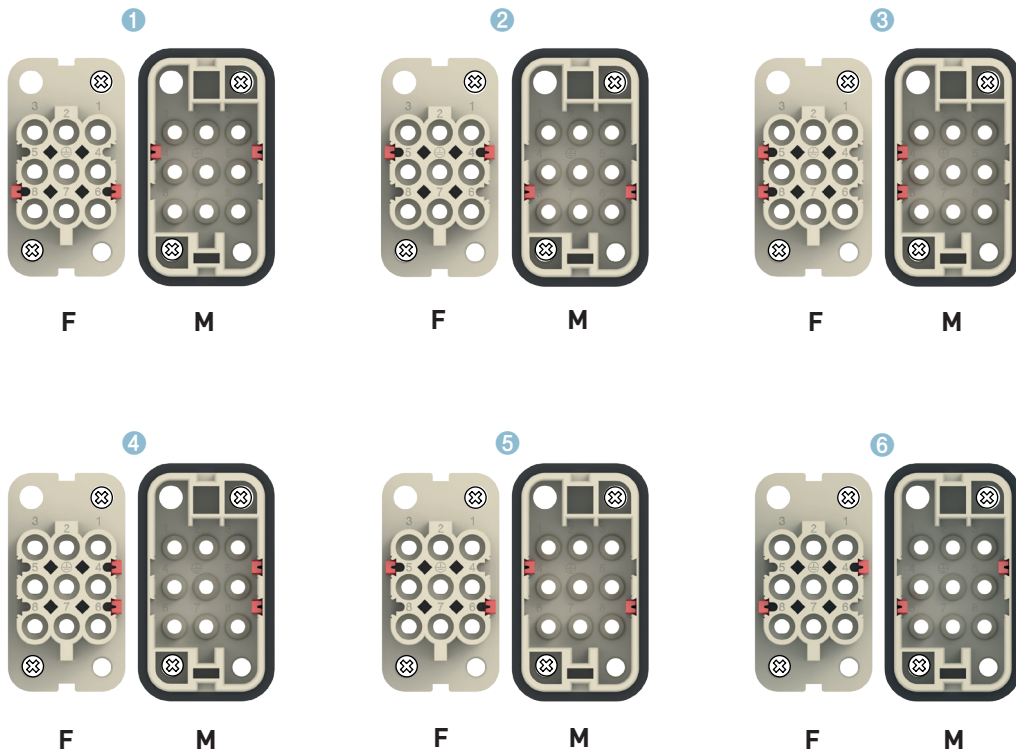
CR Q08E

Q It is possible to achieve up to **6 different codings** thanks to the use of the optional CR Q08E coding pin: 4 coding pins are required for each connector coupling.

Q It is necessary to install two coding pins on each connector part.



CR Q08E CODING OPTIONS



MIXO CX 06 CYF /CYM 6 poles 16 A - 500 V

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

Single-sized modular units may be directly mounted inside MIXO ONE enclosures.

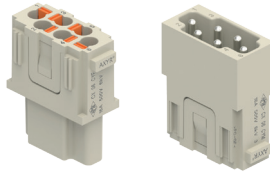
page:

frames for modular units 316 - 317

MIXO ONE enclosures 369

refer to CN.19 pages

modular units,
AXYR® terminal connections



description

part No.

spring/AXYR® push-in connection
female inserts with female contacts
male inserts with male contacts

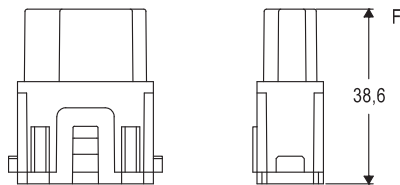
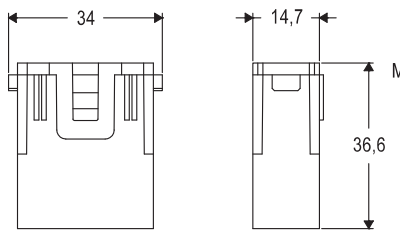
CX 06 CYF
CX 06 CYM

- characteristics according to EN 61984:
16 A 500 V 6 kV 3

- cURus (ECBT2/8 and PVVA2/8) pending
- CQC, EAC, DNV-GL, BV pending

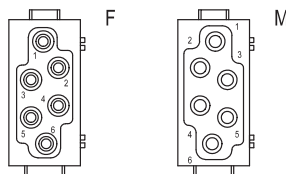
- rated voltage according to UL/CSA: 600 V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40 \text{ }^\circ\text{C} \dots +125 \text{ }^\circ\text{C}$
- made by UL 94V-0 glass reinforced polycarbonate, EN 45545-2:2015 compliant
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 3 \text{ m}\Omega$

- for max. current load see the connector inserts derating diagram under construction; for more information see page 28 of CN.19 catalogue

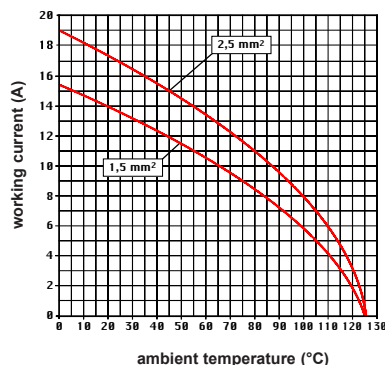


contacts side (front view)

side with reference arrow ▲



CX..CY 6 poles connector inserts
Maximum current load derating diagram



- inserts for conductors with the following cross-sectional areas, either ferruled or unferruled:
0,25 mm² - 2,5 mm² (AWG 24-14)

- conductors stripping length: 9...11 mm

1 frame slot

MIXO CX 08 CYF /CYM 8 poles 16 A - 400 V

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

Single-sized modular units may be directly mounted inside MIXO ONE enclosures.

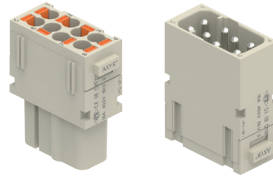
page:

frames for modular units 316 - 317

MIXO ONE enclosures 369

refer to CN.19 pages

modular units,
AXYR® terminal connections



description

part No.

spring/AXYR® push-in connection
female inserts with female contacts
male inserts with male contacts

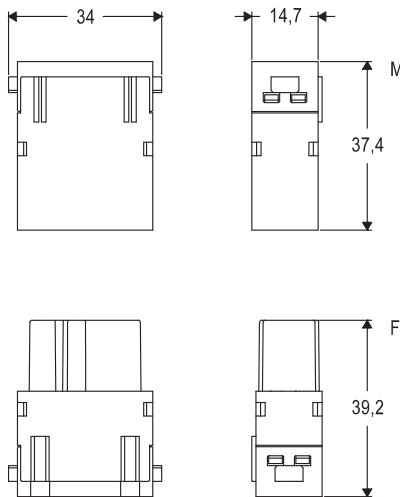
CX 08 CYF
CX 08 CYM

- characteristics according to EN 61984:
16 A 400 V 6 kV 3

- cURus (ECBT2/8 and PVVA2/8) pending
- CQC, EAC, DNV-GL, BV pending

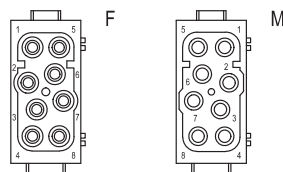
- rated voltage according to UL/CSA: 600 V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40 \text{ }^\circ\text{C} \dots +125 \text{ }^\circ\text{C}$
- made by UL 94V-0 glass reinforced polycarbonate, EN 45545-2:2015 compliant
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 3 \text{ m}\Omega$

- for max. current load see the connector inserts derating diagram under construction; for more information see page 28 of CN.19 catalogue

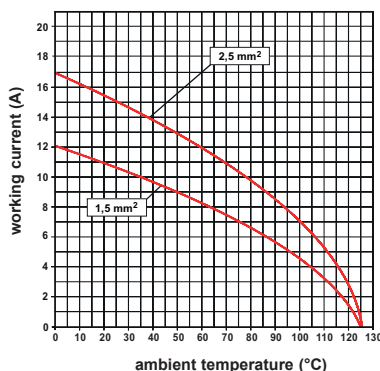


contacts side (front view)

side with reference arrow ▲



CX..CY 8 poles connector inserts
Maximum current load derating diagram



- inserts for conductors with the following cross-sectional areas, either ferruled or unferruled:
0,25 mm² - 2,5 mm² (AWG 24-14)

- conductors stripping length: 9...11 mm

1 frame slot