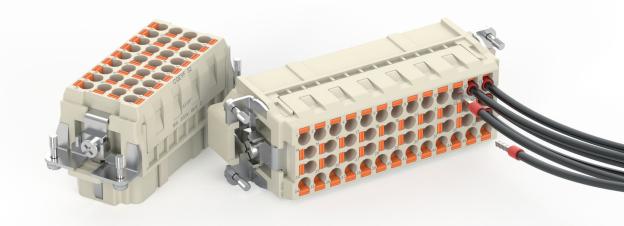


Multipole connectors

20 23

Newsbook

Extract 6/9





NEW 16 A INSERTS
WITH AXYR® TECHNOLOGY



TECHNICAL FEATURES

The 16 A range of connector inserts using the AXYR® technology (spring push-in with actuator button) which can equal the crimp connectors versions in terms of high density without requiring any crimping tool, is furtherly widened by the new series CQEY, intermateable with the corresponding available models of series CQE (crimp)(#).

The crimp series CQE, born as the high-density version of the historic crimp series CCE, is now made available in a tool-less version.

The AXYR® 16 A toolless spring push-in contacts cover a wiring range:

- Q 0,25 mm² to 2,5 mm² (AWG 24-14) for ferruled (prepared) flexible copper wires:
- Q 0,25 mm² to 4 mm² (AWG 24-12) for unferruled (unprepared) solid or flexible copper wires.
- are provided either silver plated or gold plated in sizes ranging from 0.3 through 4.0, covering cross-sectional areas from 0,14 mm² / 26 AWG to 4 mm² /12 AWG

Like for series CQE, the inserts of AXYR® series CQEY are available in the standard sizes and double-inserts sizes.

As improvement over series CQE, series CQEY connector inserts allow additional coding of the mating face by means of CR Q08E coding pins, that must be fitted in the dedicated dovetailshaped seats on the contour of the mating face in specular pattern:

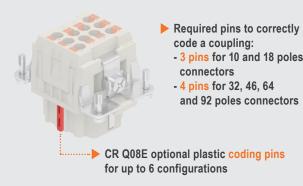
- Q CQEY 10 and CQEY 18 are provided with 3 seats for the optional coding pins CR Q08E on each part of the connector. On these sizes is possible to achieve up to 6 different codings: 3 coding pins are required for each connector coupling (two fitted on one connector part, one fitted specularly on the other connector part); it is necessary to install two coding pins on each connector part.
- Q CQEY 18 and CQEY 46 are provided with 4 seats for the optional coding pins CR Q08E on each part of the connector. On these sizes is possible to achieve up to 6 different codings: 4 coding pins are required for each connector coupling (two fitted on one connector part, two on the opposite connector part in specular way). It is necessary to install two coding pins on each connector part.

- be coupled to corresponding connector parts (female or male) of series CQE, only uncoded connector parts of series CQEY can be coupled to corresponding connector parts of series CQE. Performance of a mixed CQEY/CQE coupling is equivalent to that of an equivalent unmixed (CQE/CQE or CQEY/CQEY) coupling where both sides are wired with the lowest of the wire sizes used by the mixed cou-pling, considering the slightly narrower range covered by AXYR® series CQEY when using ferruled (prepared) stranded copper wires (0,25 mm² to 2,5mm², AWG 24-14) vs crimp series CQE (0,14 mm² to 4 mm², AWG 26-12).
- Q Current-temperature derating diagrams (current-carrying capacity curves): like those of the equivalent CQE crimp versions of the same-sized wiring.
- Q Conductors stripping length: 9..11 mm.
- Q Silver plated contacts, stainless steel spring and tin plated brass stamped cage terminals (gold plated contact versions are not foreseen).
- Actuator button of line contacts: orange colour, to be operated by means of a flat-blade screwdriver sized 0,5 × 3 mm.
- Q PE terminal: screw-type, on the PE side bracket closer to line contact #1. Suitable for up to two wires (one on each side of the terminal under the pressure plate) sized up to 2,5 mm² / 14 AWG.
- Q Max diameter of wire sheathing or ferrule funnel: ø 5 mm (unprepared wire size 4 mm² / AWG 12 or ferruled wire size 2,5 mm² / AWG 14)

CERTIFICATIONS

- cURus, CQC, DNV, BV, EAC pending.
- · (€ and UK markings.
- RoHS: compliant with exemption 6(c).

(#) Intermateability with series CQE (crimp) is ensured within the features of the new AXYR® CQEY series, considering the slightly different wiring range between the two series when using stranded ferruled (prepared) copper wires and the added coding feature of the new AXYR® CQEY series that series CQE does not yet provide.





EXTRACT 6/9

CQEY 10 poles + ⊕ 16 A - 500 V

enclosures: size "44.27" page: C-TYPE IP65 or IP66/IP69 387 - 392 C7 IP67, single lever V-TYPE IP65 or IP66/IP69, single lever 436 - 437 444 - 447 **BIG** hoods 466 - 467 T-TYPE IP65 insulating 480 - 481 T-TYPE/W IP66/IP69 insulating 489 HYGIENIC T-TYPE/H IP66/IP69 501 HYGIENIC T-TYPE/C IP66/IP69, -50 °C 506 W-TYPE for aggressive environments 521 E-Xtreme® corrosion proof 530 - 531, 542, 550 - 551 **EMC** 578 Central lever 603 - 605 LS-TYPE 618 - 619 IP68 632 - 635 panel supports: COB

refer to CN.19 pages

AXYR® inserts. push-in spring clamp with actuator button



Q SILVER PLATED CONTACTS

FROM SEPTEMBER 2023

coding pins



description part No. part No.

652 - 653

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

CQEYF 10 CQEYM 10

- characteristics according to EN 61984:

16 A 500 V 6 kV 3 16 A 830 V 8 kV

- cURus (ECBT2/8 and PVVA2/8) pending
- CQC, DNV, BV, EAC pending
- rated voltage according to UL/CSA: 600 V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 3 mΩ
- max diameter of wire sheathing or ferrule funnel: ø 5 mm (unprepared wire size 4 mm² / AWG 12 or ferruled wire size 2,5 mm² / AWG 14)
- for max. current load see the connector inserts derating diagram below; for more information see page 28 of CN.19 catalogue.







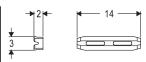


contacts side (front view)



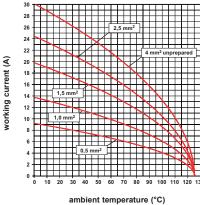


CR Q08E



- Coding pins to be ordered separately.
- Q It is possible to achieve up to 6 different codings thanks to the use of the optional CR Q08E coding pin: 3 coding pins are required for each connector coupling

CQEY 10 poles connector inserts Maximum current load derating diagram



inserts for conductors with the following cross-sectional areas:

- unprepared conductor
- 0,25 mm² 4 mm² (AWG 24-12)
- prepared conductor with crimped end-sleeve 0,25 mm² - 2,5 mm² (AWG 24-14)
- conductors stripping length: 9..11 mm

CQEY 18 poles + ⊕ 16 A - 500 V



enclosures: size "57.27"	- nogo:
SIZE 37.27	page:
C-TYPE IP65 or IP66/IP69	393 - 401
C7 IP67, two levers	438
V-TYPE IP65 or IP66/IP69, single lever	448 - 453
BIG hoods	468 - 469
T-TYPE IP65 insulating	482 - 483
T-TYPE/W IP66/IP69 insulating	490
HYGIENIC T-TYPE/H IP66/IP69	502
HYGIENIC T-TYPE/C IP66/IP69, -50 °C	507
W-TYPE for aggressive environments	522
E-Xtreme® corrosion proof 532 - 533, 543,	552 - 553
EMC	579
Central lever	606 - 608
LS-TYPE	620 - 621
IP68	636 - 639
panel supports:	
COB	652 - 653

AXYR® inserts. push-in spring clamp with actuator button



coding pins



Q SILVER PLATED CONTACTS

FROM SEPTEMBER 2023

description part No. part No.

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

CQEYF 18 **CQEYM 18**

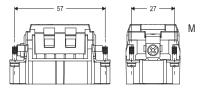
plastic coding pin

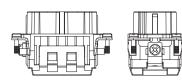
refer to CN.19 pages

- characteristics according to EN 61984:

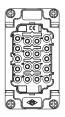
16 A 500 V 6 kV 3 16 A 830 V 8 kV

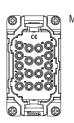
- cURus (ECBT2/8 and PVVA2/8) pending
- CQC, DNV, BV, EAC pending
- rated voltage according to UL/CSA: 600 V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 3 mΩ
- max diameter of wire sheathing or ferrule funnel: ø 5 mm (unprepared wire size 4 mm² / AWG 12 or ferruled wire size 2,5 mm² / AWG 14)
- for max. current load see the connector inserts derating diagram below; for more information see page 28 of CN.19 catalogue.



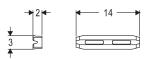


contacts side (front view)



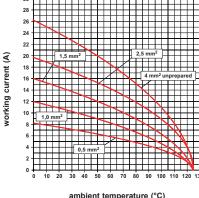






- Coding pins to be ordered separately.
- Q It is possible to achieve up to 6 different codings thanks to the use of the optional CR Q08E coding pin: 3 coding pins are required for each connector coupling

CQEY 18 poles connector inserts Maximum current load derating diagram



inserts for conductors with the following cross-sectional areas:

- unprepared conductor
- 0,25 mm² 4 mm² (AWG 24-12)
- prepared conductor with crimped end-sleeve 0,25 mm² - 2,5 mm² (AWG 24-14)
- conductors stripping length: 9..11 mm

4

CQEY 32 poles + 🕀 16 A - 500 V



enclosures: page: size "77.27" C-TYPE IP65 or IP66/IP69 402 - 411 C7 IP67, two levers 439 - 440 V-TYPE IP65 or IP66/IP69, single lever 454 - 458 470 - 471 **BIG** hoods T-TYPE IP65 insulating 484 - 485 T-TYPE/W IP66/IP69 insulating 491 HYGIENIC T-TYPE/H IP66/IP69 503 HYGIENIC T-TYPE/C IP66/IP69, -50 °C 508 W-TYPE for aggressive environments E-Xtreme® corrosion proof 534 - 535, 544, 554 523 - 555 **EMC** 580 Central lever 609 - 611 LS-TYPE 622 - 623 IP68 640 - 643 panel supports: COB

refer to CN.19 pages

AXYR® inserts. push-in spring clamp with actuator button



Q SILVER PLATED CONTACTS

FROM SEPTEMBER 2023

coding pins



description part No. part No.

652 - 653

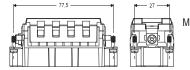
spring/AXYR® push-in connection female insert with female contacts male insert with male contacts plastic coding pin

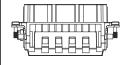
CQEYF 32 CQEYM 32

- characteristics according to EN 61984:

16 A 500 V 6 kV 3 16 A 830 V 8 kV

- cURus (ECBT2/8 and PVVA2/8) pending
- CQC, DNV, BV, EAC pending
- rated voltage according to UL/CSA: 600 V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 3 mΩ
- max diameter of wire sheathing or ferrule funnel: ø 5 mm (unprepared wire size 4 mm² / AWG 12 or ferruled wire size 2,5 mm² / AWG 14)
- for max. current load see the connector inserts derating diagram below; for more information see page 28 of CN.19 catalogue.

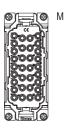




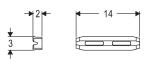


contacts side (front view)



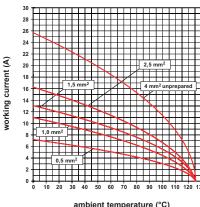


CR Q08E



- Coding pins to be ordered separately.
- 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.

CQEY 32 poles connector inserts Maximum current load derating diagram



inserts for conductors with the following cross-sectional areas:

- unprepared conductor
- 0,25 mm² 4 mm² (AWG 24-12)
- prepared conductor with crimped end-sleeve 0,25 mm² - 2,5 mm² (AWG 24-14)
- conductors stripping length: 9..11 mm

46 poles + ⊕ 16 A - 500 V CQEY



enclosures:	
size "104.27"	page:
C-TYPE IP65 or IP66/IP69	412 - 423
C7 IP67, two levers	441 - 442
V-TYPE IP65 or IP66/IP69, single lever	459 - 463
BIG hoods	472 - 473
T-TYPE IP65 insulating	486 - 487
T-TYPE/W IP66/IP69 insulating	492
HYGIENIC T-TYPE/H IP66/IP69	504
HYGIENIC T-TYPE/C IP66/IP69, -50 °C	509
W-TYPE for aggressive environments	524
E-Xtreme® corrosion proof 536 - 537, 545,	556 - 557
EMC	581
Central lever	612 - 614
LS-TYPE	624 - 625
IP68	644 - 647
panel supports:	
COB	652 - 653

refer to CN.19 pages

AXYR® inserts. push-in spring clamp with actuator button



Q SILVER PLATED CONTACTS

FROM SEPTEMBER 2023

coding pins



description part No. part No.

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

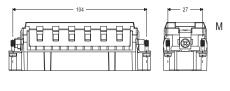
CQEYF 46 **CQEYM 46**

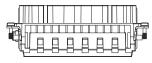
plastic coding pin

- characteristics according to EN 61984:

16 A 500 V 6 kV 3 16 A 830 V 8 kV 2

- cURus (ECBT2/8 and PVVA2/8) pending
- CQC, DNV, BV, EAC pending
- rated voltage according to UL/CSA: 600 V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 3 mΩ
- max diameter of wire sheathing or ferrule funnel: ø 5 mm (unprepared wire size 4 mm² / AWG 12 or ferruled wire size 2,5 mm² / AWG 14)
- for max. current load see the connector inserts derating diagram below; for more information see page 28 of CN.19 catalogue.







contacts side (front view)

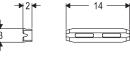




inserts for conductors with the following cross-sectional areas:

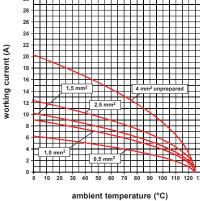
- unprepared conductor
- 0,25 mm² 4 mm² (AWG 24-12)
- prepared conductor with crimped end-sleeve 0,25 mm² - 2,5 mm² (AWG 24-14)
- conductors stripping length: 9..11 mm

CR Q08E



- Coding pins to be ordered separately.
- 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.

CQEY 46 poles connector inserts Maximum current load derating diagram



64 poles + ⊕ 16 A - 500 V CQEY

enclosures: size "77.62"

C-TYPE IP65 or IP66/IP69 W-TYPE for aggressive environments E-Xtreme® corrosion proof

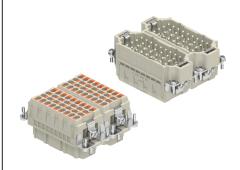
page: 424 - 429

525

546

AXYR® inserts.

push-in spring clamp with actuator button



Q SILVER PLATED CONTACTS

FROM SEPTEMBER 2023

coding pins



refer to CN.19 pages

description part No. part No. part No.

spring/AXYR® push-in connection

female insert with female contacts, No. (1-32) and (33-64) male insert with male contacts, No. (1-32) and (33-64)

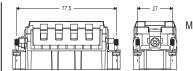
CQEYF 32 **CQEYM 32** CQEYF 32 N **CQEYM 32 N**

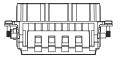
plastic coding pin

- characteristics according to EN 61984:

16 A 500 V 6 kV 3 16 A 830 V 8 kV

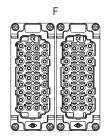
- cURus (ECBT2/8 and PVVA2/8) pending
- CQC, DNV, BV, EAC pending
- rated voltage according to UL/CSA: 600 V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 3 mΩ
- max diameter of wire sheathing or ferrule funnel: ø 5 mm (unprepared wire size 4 mm² / AWG 12 or ferruled wire size 2,5 mm² / AWG 14)
- for max. current load see the connector inserts derating diagram below; for more information see page 28 of CN.19 catalogue.

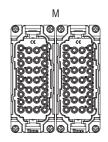




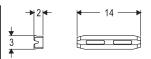


contacts side (front view)



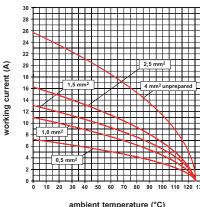


CR Q08E



- Coding pins to be ordered separately.
- 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.

CQEY 64 poles connector inserts Maximum current load derating diagram



inserts for conductors with the following cross-sectional areas:

- unprepared conductor
- 0,25 mm² 4 mm² (AWG 24-12)
- prepared conductor with crimped end-sleeve 0,25 mm² - 2,5 mm² (AWG 24-14)
- conductors stripping length: 9..11 mm

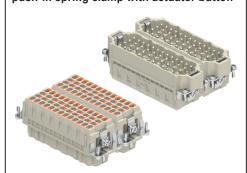
CQEY 92 poles + ⊕ 16 A - 500 V

page:

enclosures: size "104.62"

C-TYPE IP65 or IP66/IP69 430
W-TYPE for aggressive environments 526
E-Xtreme® corrosion proof 547

AXYR® inserts, push-in spring clamp with actuator button



coding pins



Q SILVER PLATED CONTACTS

FROM SEPTEMBER 2023

description part No. part No. part No.

spring/AXYR® push-in connection female insert with female contacts, No. (1-46) and (47-92) male insert with male contacts, No. (1-46) and (47-92)

CQEYF 46 CQEYM 46 CQEYF 46 N

plastic coding pin

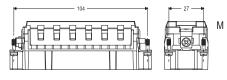
refer to CN.19 pages

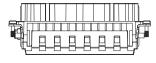
- characteristics according to EN 61984:

16 A 500 V 6 kV 3 16 A 830 V 8 kV 2

- cURus (ECBT2/8 and PVVA2/8) pending
- CQC, DNV, BV, EAC pending
- rated voltage according to UL/CSA: 600 V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 3 mΩ
- max diameter of wire sheathing or ferrule funnel:

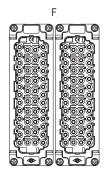
 ø 5 mm (unprepared wire size 4 mm² / AWG 12 or ferruled wire size 2,5 mm² / AWG 14)
- for max. current load see the connector inserts derating diagram below; for more information see page 28 of CN.19 catalogue.

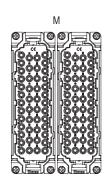




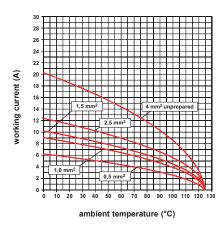


contacts side (front view)





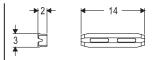
CQEY 92 poles connector inserts Maximum current load derating diagram



inserts for conductors with the following cross-sectional areas:

- unprepared conductor 0,25 mm² - 4 mm² (AWG 24-12)
- prepared conductor with crimped end-sleeve 0,25 mm² 2,5 mm² (AWG 24-14)
- conductors stripping length: 9..11 mm

CR Q08E



- Q Coding pins to be ordered separately.
- 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.



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