CDA-CDC series The compact inserts

CDA inserts with screw-type termination

The screw-type connector inserts CDA series with 10 and 16 poles + ⊕ are now made using screw-type terminals (CNE series) with a built-in wire protection pressure plate of proven reliability and practicality.

The wire protection pressure plate preserves the conductors in case of wiring with **unprepared conductors** (i.e. without wire end ferrules) up to a maximum wire cross-section of **4 mm²** (12 AWG).

The variant without a wire protection pressure plate (code with suffix X) is also available, for use with **prepared conductors** featuring a wire end ferrule with a maximum usable wire cross-section of **2,5 mm²** (14 AWG).





CDC inserts with crimp termination

The crimp termination CDC series of inserts with 10 and 16 poles + ⊕ now adopt the tried and tested contact retention technique of connector series CCE and CQE for removable crimp contacts (series CC, max 16A).



CDA-CDC INSERTS SUM-UP

- □ According to standard EN 61984:
 16A 250V 4kV 3
 16A 230/400V 4kV 2
- Insulation resistance: ≥ 10 GΩ
- □ Ambient temperature limit: -40 °C ... +125 °C
- □ Construction material: UL 94 V-0 self-extinguishing thermoplastic resin
- Mechanical life: ≥ 500 cycles
- ☐ Built-in silver plated contacts (only CDA series)

The applications

Like those of the previous series, CDA and CDC inserts and their enclosures are used in accordance with the recommendations EUROMAP 12, EUROMAP 13, EUROMAP 14-1, EUROMAP 16 and EUROMAP 62 (European industry consortium for moulding machines and plastic processing).

The CDC inserts can also be used with CC series crimp contacts made of iron/constantan (Fe-CuNi) for the cabling of J type thermocouples in accordance with IEC/EN 60584-1 (EUROMAP 14-1 recommendation).

The CDA/CDC series inserts can also be coupled with previous insert versions,





CSAH-SQUICH® series

Connection without tools, slim version

CSAH-SQUICH® inserts

To improve high performance industrial connections, ILME has developed and evolved its own spring clamp connectors to meet the market needs and make installation simpler.

The SQUICH® inserts are adaptable to any type of solid or flexible conductor, including unprepared conductors

Each of the spring terminals has an actuator button, suitably shaped and incorporated in the cavity. When this button is pressed, it triggers the closure of the spring device of the corresponding terminal, safely and reliably connecting the conductor to its respective electric contact in the connector.

The actuator buttons are supplied raised, in the "open terminal" position and are easily distinguisheable by the orange colour which makes them stand out from the insulating body of the connector. The advantage of such an exclusive solution is that the actuators disappear completely within the body of the connector, making it easy to identify terminals not yet closed and eliminating possible obstacles to the movement of the conductors during installation and maintenance. In this manner during the cabling phase the need for a tool to activate the terminal is completely eliminated and a simple operation is all you need to make the connection.

Shaped button for measuring instruments

The profile of the button used in the SQUICH® series inserts allow a measuring probe to be inserted.

This allows checks to be carried out to ensure that the wiring is correct.



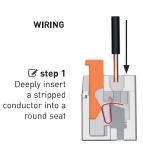
CSAH-SQUICH® INSERTS SUM-UP

- □ Reduced space
- □ Reduced wiring time
- \square No need for tools
- \square Quick identification of wired and non-wired terminals
- □ Terminals already open and ready for conductor clamping
- \square Built-in silver plated contacts
- □ Excellent fastening solution
- □ Great resistance to strong vibration

Simple terminal reopening

To reopen the terminals, simply introduce the tip of a common 0.5×3.5 mm flat blade screwdriver in the shaped pocket on the head of the actuator, and slightly rotate the screwdriver downwards: this will lift the actuator into its open terminal position.

□ SQUICH® Connection technology





RE-OPENING 0,5 x 3,5 mm blade step 3 Insert a 0,5 x 3,5 mm flat blade screwdriver in the actuator button side window and pull it up by levering down.

10 poles + 🕀 16A - 250V **CDA**

enclosures: size "49.16" page: IL-BRID 374 - 377, 382 CZ7 IP67, single lever W-TYPE for aggressive environments E-Xtreme® corrosion proof 384 519 540

panel supports: page: 652 - 654 COB + adaptor

screw terminal connection



inserts, screw terminal connection



description part No. part No.

CDAF 10

CDAM 10

indirect, with pressure plate 1) female inserts with female contacts male inserts with male contacts

direct, without pressure plate 2) female inserts with female contacts

male inserts with male contacts

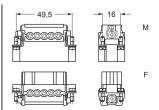
- characteristics according to EN 61984:

16A 250V 4kV 3 16A 230/400V 4kV 2

- c Nus (UL for USA and Canada), 👀 😥 🔤



- VERITAS [certified
- rated voltage according to UL/CSA: 600V insulation resistance: \geq 10 $G\Omega$
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 1 mΩ
- according to recommendations EUROMAP $\ensuremath{\text{N}^{\circ}}$ 16
- for max. current load see the connector inserts derating diagram below; for more information see page 28



contacts side (front view)

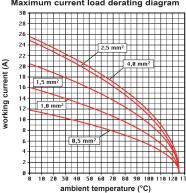




- inserts with pressure plate for conductors cross-sections:
- 0,5 4 mm² AWG 20 12
- conductors stripping length: 7 mm
- terminal screw torque: 0,5 Nm (4.4 lb.in), for more information see page 20 and 21
- 1) for unprepared conductors 2) for conductors with end sleeve ferrule

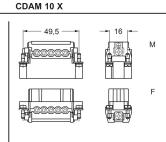


CDA 10 poles connector inserts Maximum current load derating diagram



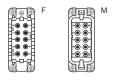
CDA ...





contacts side (front view)

CDAF 10 X



- inserts without pressure plate for prepared conductors with cross-sections: 0,25 - 2,5 mm² - AWG 24 - 14
- terminal screw torque: 0,5 Nm (4.4 lb.in), for more information see page 20 and 21

CSAH-SQUICH® 10 poles + 🕀 16A - 250V

enclosures: size "49.16" page:

IL-BRID 374 - 377, 382
CZ7 IP67, single lever 384
W-TYPE for aggressive environments 519
E-Xtreme® corrosion proof 540
EMC 576

panel supports: page: COB + adaptor 652 - 654 inserts, spring terminal connections without tools



description part No.

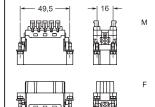
spring terminals with actuator button female inserts with female contacts male inserts with male contacts

- characteristics according to EN 61984:

16A 250V 4kV 3 16A 400V 4kV 2

- c Sus (UL for USA and Canada), DNV-GL WERTTAS
- rated voltage according to UL/CSA: 600V
- 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
- for max. current load see the connector inserts derating diagram below; for more information see page 28

CSAHF 10 CSAHM 10



contacts side (front view)





- inserts for conductors with the following sections: $0.14 2.5 \text{ mm}^2$ AWG 26 14
- for wires with crimped ferrule, usable section: up to 1,5 mm² (AWG 16)
- conductors stripping length: 9...11 mm

SQUICH®-spring connection technology

WIRING



Deeply insert a stripped conductor into a round terminal.



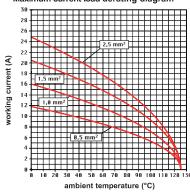
Push the actuator button to close the terminal.

RE-OPENING



Insert a **0,5 x 3,5 mm** flat blade screwdriver in the actuator button side window and pull it up by levering down.

CSAH 10 poles connector inserts Maximum current load derating diagram



16 poles + ⊕ 16A - 250V **CDA**

enclosures: size "66.16" page: IL-BRID 378 - 382 CZ7 IP67, single lever W-TYPE for aggressive environments E-Xtreme® corrosion proof 385 520 541

panel supports: page: 652 - 654 COB + adaptor

screw terminal connection



inserts, screw terminal connection



description part No. part No.

CDAF 16

CDAM 16

indirect, with pressure plate 1) female inserts with female contacts male inserts with male contacts

direct, without pressure plate 2) female inserts with female contacts male inserts with male contacts

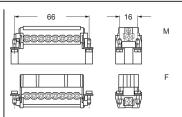
- characteristics according to EN 61984:

16A 250V 4kV 3 16A 230/400V 4kV 2

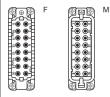
- c 🗫 us (UL for USA and Canada), 👀 🗪

VERITAS EM certified

- rated voltage according to UL/CSA: 600V
- 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: ≤ 1 mΩ
- according to recommendations EUROMAP N° 13 / N° 14.1
- for max. current load see the connector inserts derating diagram below; for more information see page 28



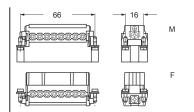
contacts side (front view)



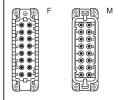
- inserts with pressure plate for conductors cross-sections:
- 0,5 4 mm² AWG 20 12
- conductors stripping length: 7 mm terminal screw torque: 0,5 Nm (4.4 lb.in), for more information see page 20 and 21
- 1) for unprepared conductors



CDAF 16 X **CDAM 16 X**

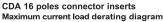


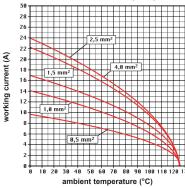
contacts side (front view)



- inserts without pressure plate for prepared
- conductors with cross-sections: 0,25 2,5 mm² AWG 24 14 terminal screw torque: 0,5 Nm (4.4 lb.in), for more information see page 20 and 21
- 2) for conductors with end sleeve ferrule









CSAH-SQUICH® 16 poles + ⊕ 16A - 250V

enclosures: size "66.16" page: IL-BRID 378 - 382 CZ7 IP67, single lever W-TYPE for aggressive environments E-Xtreme® corrosion proof 385 520 541 577

page:

652 - 654

spring terminal connections without tools



description

panel supports: COB + adaptor

part No.

spring terminals with actuator button female inserts with female contacts male inserts with male contacts

- characteristics according to EN 61984:

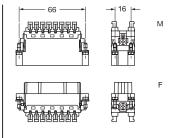
16A 250V 4kV 3 16A 400V 4kV 2

- c Nus (UL for USA and Canada), DNV-GL VERITAS EHI certified



- rated voltage according to UL/CSA: 600V
- 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
- for max, current load see the connector inserts derating diagram below; for more information see page 28

CSAHF 16 CSAHM 16



contacts side (front view)



- inserts for conductors with the following sections: 0,14 - 2,5 mm² - AWG 26 - 14
- for wires with crimped ferrule, usable section: up to 1,5 mm² (AWG 16)
- conductors stripping length: 9...11 mm

SQUICH®-spring connection technology

WIRING



Deeply insert a stripped conductor into a round terminal.

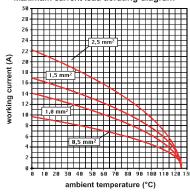


Push the actuator button to close the terminal.

RE-OPENING

Insert a 0,5 x 3,5 mm flat blade screwdriver in the actuator button side window and pull it up by levering down.

CSAH 16 poles connector inserts Maximum current load derating diagram



CDA

CDA 32 poles + 🕀 16A - 250V

enclosures: size "66.40"

page:

527 548

C-TYPE IP65 or IP66/IP69 431 - 434 W-TYPE for aggressive environments E-Xtreme® corrosion proof

screw terminal connection



inserts, screw terminal connection

CDAF 16 X

CDAM 16 X

66

contacts side (front view)



CDAF 16 XN

CDAM 16 XN

М

16

description part No. part No. part No. part No.

indirect, with pressure plate 1) female inserts, No. (1-16) and (17-32) male inserts, No. (1-16) and (17-32)

CDAF 16 CDAF 16 N CDAM 16 **CDAM 16 N**

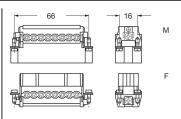
direct, without pressure plate 2) female inserts, No. (1-16) and (17-32) male inserts, No. (1-16) and (17-32)

- characteristics according to EN 61984:

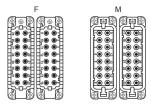
16A 250V 4kV 3 16A 230/400V 4kV 2

- c 🗫 us (UL for USA and Canada), 🐠 📀

- rated voltage according to UL/CSA: 600V 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: ≤ 1 mΩ
- according to recommendations EUROMAP N° 12 / N° 62
- for max. current load see the connector inserts derating diagram below; for more information see page 28



contacts side (front view)

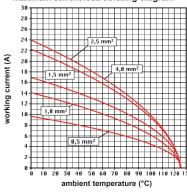


- inserts with pressure plate for conductors cross-sections:
- 0,5 4 mm² AWG 20 12
- conductors stripping length: 7 mm
- terminal screw torque: 0,5 Nm (4.4 lb.in), for more information see page 20 and 21
- inserts without pressure plate for prepared conductors with cross-sections: 0,25 - 2,5 mm² - AWG 24 - 14 terminal screw torque: 0,5 Nm (4.4 lb.in), for more information see page 20 and 21

CDA ... X

1) for unprepared conductors 2) for conductors with end sleeve ferrule

CDA 32 poles connector inserts Maximum current load derating diagram





CSAH-SQUICH® 32 poles + ⊕ 16A - 250V

page:

enclosures: size "66.40"

C-TYPE IP65 or IP66/IP69 431 - 434 W-TYPE for aggressive environments E-Xtreme® corrosion proof 527 548 spring terminal connections without tools



description part No. part No.

spring terminals with actuator button female inserts, No. (1-16) and (17-32) male inserts, No. (1-16) and (17-32)

- characteristics according to EN 61984:

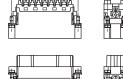
16A 250V 4kV 3 16A 400V 4kV 2

- c Nus (UL for USA and Canada), DNYGL VERITAS EHI certified



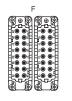
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 3 mΩ
- for max. current load see the connector inserts derating diagram below; for more information see page 28

CSAHF 16 CSAHF 16 N CSAHM 16 CSAHM 16 N М





contacts side (front view)





- inserts for conductors with the following sections: 0,14 - 2,5 mm² - AWG 26 - 14
- for wires with crimped ferrule, usable section: up to 1,5 mm² (AWG 16)
- conductors stripping length: 9...11 mm

SQUICH®-spring connection technology

WIRING



Deeply insert a stripped conductor into a round terminal.



Push the actuator button to close the terminal.

RE-OPENING



Insert a 0,5 x 3,5 mm flat blade screwdriver in the actuator button side window and pull it up by levering down.

CSAH 32 poles connector inserts Maximum current load derating diagram

