

CT - CTS series

Inserts with incorporated terminal block for multipole connectors (10A max versions)

Use.

The CT-series multipole connectors (with incorporated terminal block) are recommended for greater cost-saving and safety for use on machines and command and control panels.

For control panel mounting, bulkhead housings must be used.

The CT series inserts (10A max versions) are supplied in the plug or socket versions and must be mounted <u>with insertion from the rear of the enclosure</u> (**Figures 1** and **2**). The space occupied by the

the enclosure (Figures 1 and 2). The space occupied by the terminal block does not allow for the passage of the insert and insertion from the front of the enclosure.

As an alternative to the traditional terminal blocks, the inserts can be mounted inside the control panels on DIN EN 60715 rails (**Figure 5**) using suitable accessories providing the added advantage of easy sectioning.

The special structure of the CT inserts has all the conductor connections on the same side providing for easier wiring and a complete view of the work area.

The terminal block also has slots for housing the identification wire markers of each contact. Wire markers of different manufacturers may be used such as: Cabur, Grafoplast, Modernotecnica, Phoenix,

Siemens, Wago, Weidmüller.

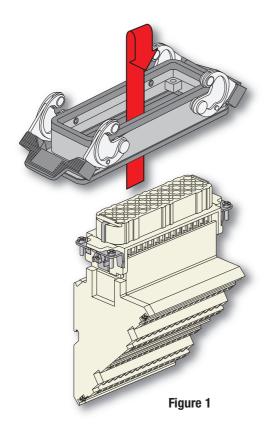
The CT series is available in the versions "left" and "right" for mounting on the left (**Figure 3**) or on the right (**Figure 4**) of the control panel walls.

This characteristic is determined by the position of contact "1" and the ground terminal in the upper part of the insert terminal block for both left and right mounting.

The installation of inserts on DIN rails (**Figure 5**) inside the control panels is usually made to facilitate the wiring in sectionable parts. In this case the degree of protection for coupled connectors is IP20 (in accordance with EN 60529).

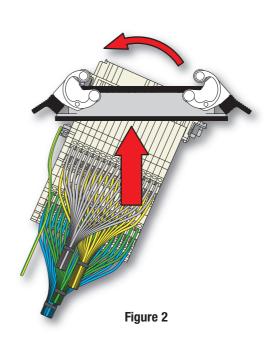
This type of mounting requires supports (CT APE) to be provided to the inserts suitable for mounting on DIN EN 60715 rail

In addition, CRBF (female) and CRBM (male) coupling screws instead of normal screws are recommended for fixing the inserts to the enclosures (**Figure 5**) in order to guarantee a stable and safe coupling between the CT and CTS inserts installed on the DIN rails and corresponding CD inserts.



Figures 1 and 2 (rear mounting)

The insert is inserted into the bulkhead housing with pre-wired conductors connected at the opposite end.





CT - CTS series

Inserts with incorporated terminal block for multipole connectors

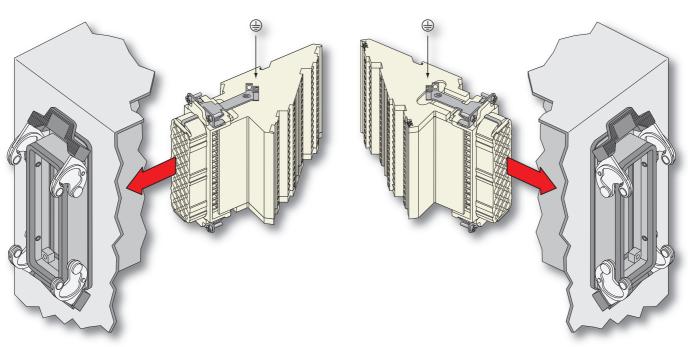


Figure 3 (left mounting)

Figure 4 (right mounting)

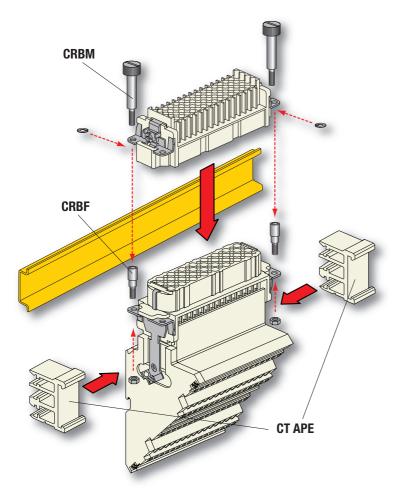
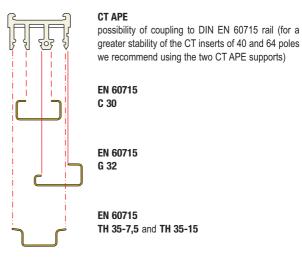


Figure 5 (mounting on DIN rail)



Accessories for CT inserts

- support for mounting on DIN rail (CT APE page 476)
- inserts coupling screws (CRBM and CRBF page 476)
- cable-clamping plates (CRAD and CRAS page 476)

enclosures *): size "77.27"	age:
C-TYPE IP65/IP66	250
C7 IP67, two levers	276
V-TYPE IP65/IP66, single lever 282	292
W-TYPE for aggressive environments	375
EMC	394
central lever	408
LS-TYPE	454

- *) only bulkhead mounted housings
- can be mated with CD inserts

side-mounting (see page 63)

- rear-mounted inserts

description

- CTS

terminal block inserts screw terminal connection



terminal block inserts spring terminal connection



ari ino.	part No.	part No.	part No

left CTF 40 R CTF 40 L CTM 40 L **CTM 40 R**

> CTSF 40 L CTSF 40 R CTSM 40 R CTSM 40 L

side-mounting (see page 63) female inserts with female contacts

male inserts with male contacts

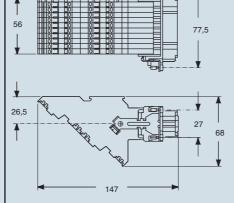
male inserts with male contacts 1)

female inserts with female contacts 1)

- 1) for non-prepared conductors
- characteristics according to EN 61984: 10A 250V 4kV 3 10A 230/400V 4kV 2
- UL, CSA, CCC *, GL, EAC certified * CQC certification being applied for
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 4 mΩ
- for maximum current load, see the following load curves inserts, for more information see page 557

dimensions in mm

female inserts (CTF and CTSF)



male inserts (CTM and CTSM)

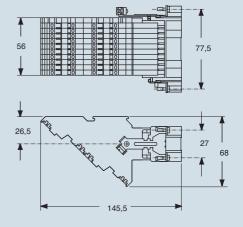
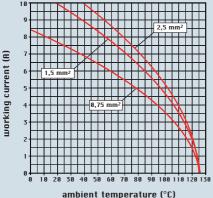
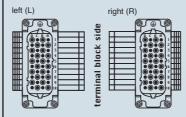


diagram CT and CTS 40 poles



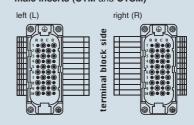
contacts side (front view)

female inserts (CTF and CTSF)

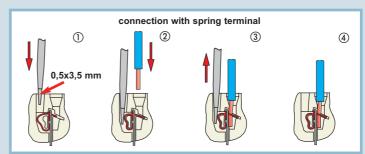


- CT inserts with plate, for section conductors: 0.75 - 2.5 mm² - AWG 18 - 14
- conductors stripping lenght: 12 mm
- terminal screw torque: 0.4 Nm (3.54 lb.in), for more information see page 34 and 35

male inserts (CTM and CTSM)



- CTS spring inserts for section conductors: effective sections for non-prepared conductors 0.14 - 2.5 mm² - AWG 26 - 14 effective sections for prepared conductors 0.14 - 1 mm² - AWG 26 - 18
- conductors stripping lenght: 9...11 mm



dimensions shown are not binding and may be changed without notice

CT - CTS

64 poles + 🕀 10A - 250V

enclosures *): size "104.27"	age:
C-TYPE IP65/IP66	258
C7 IP67, two levers	277
V-TYPE IP65/IP66, single lever 283	296
W-TYPE for aggressive environments	376
EMC	395
central lever	410
LS-TYPE	456

- *) only bulkhead mounted housings
- can be mated with CD inserts
- rear-mounted inserts

description

terminal block inserts screw terminal connection



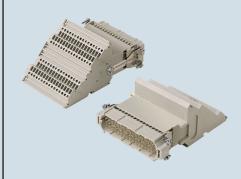
part No.

CTF 64 R

CTM 64 R

right

terminal block inserts spring terminal connection



part No. part No.

side-mounting (see page 63) female inserts with female contacts 1) male inserts with male contacts 1)

side-mounting (see page 63) female inserts with female contacts male inserts with male contacts

1) for non-prepared conductors

- characteristics according to EN 61984: 10A 250V 4kV 3 10A 230/400V 4kV 2
- UL, CSA, CCC *, GL, EAC certified * CQC certification being applied for
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C

diagram CT and CTS 64 poles

- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 4 mΩ

current

- for maximum current load, see the following load curves inserts, for more information see page 557

ambient temperature (°C)

dimensions in mm

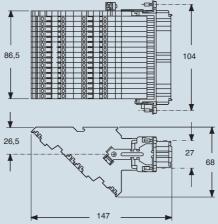
part No.

CTF 64 L

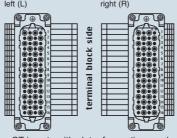
CTM 64 L

left

female inserts (CTF and CTSF)



contacts side (front view) female inserts (CTF and CTSF)

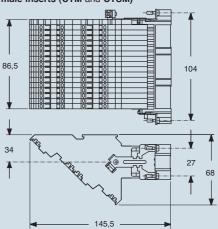


CT inserts with plate, for section conductors: 0.75 - 2.5 mm² - AWG 18 - 14
 conductors stripping lenght: 9...11 mm - terminal screw torque: 0.4 Nm (3.54 lb.in), for more information see page 34 and 35

male inserts (CTM and CTSM)

CTSF 64 L

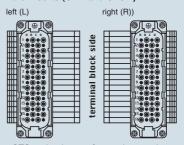
CTSM 64 L



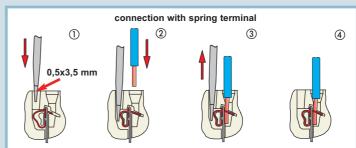
CTSF 64 R

CTSM 64 R

contacts side (front view) male inserts (CTM and CTSM)



- CTS spring inserts for section conductors: effective sections for non-prepared conductors 0.14 - 2.5 mm² - AWG 26 - 14 effective sections for prepared conductors 0.14 - 1 mm² - AWG 26 - 18 - conductors stripping lenght: 9...11 mm



dimensions shown are not binding and may be changed without notice