

CT - CTSE series

Inserts with incorporated terminal block for multipole connectors (16A max versions)

Use.

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

The CT - CTSE series inserts (16A max versions) are supplied in the plug or socket versions and may be mounted with insertion from the front of the enclosure (Figure 1 for all the polarities of the inserts) or with insertion from the rear of the enclosure (Figure 2, only for 16 and 24-pole inserts).

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

The special structure of the CT - CTSE 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 - CTSE 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 into 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 rails.

Furthermore, to ensure a stable and secure mating between the CT and CTSE inserts installed on DIN rails and counterparts CNE, CSE, CCE, CSH, CSS mating screws CRBF (female) and CRBM (male) are recommended, to replace the ordinary fastening screws to the enclosures (Figure 5).

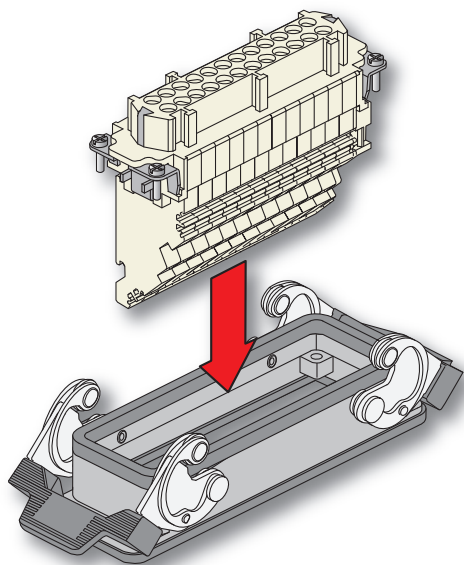


Figure 1 (front mounting)

The insert is inserted into the bulkhead housing without wired conductors or with pre-wired conductors that are not connected at the opposite end.

Mounting for inserts of 06, 10, 16 and 24 poles

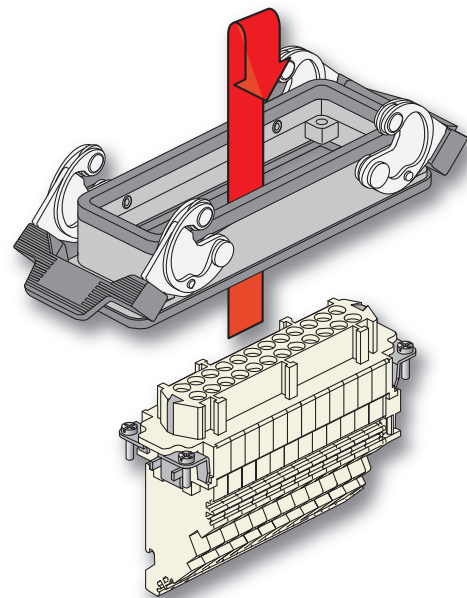


Figure 2 (rear mounting)

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

Mounting for inserts of 16 and 24 poles

Except version T-TYPE

CT - CTSE series

Inserts with incorporated terminal block for multipole connectors

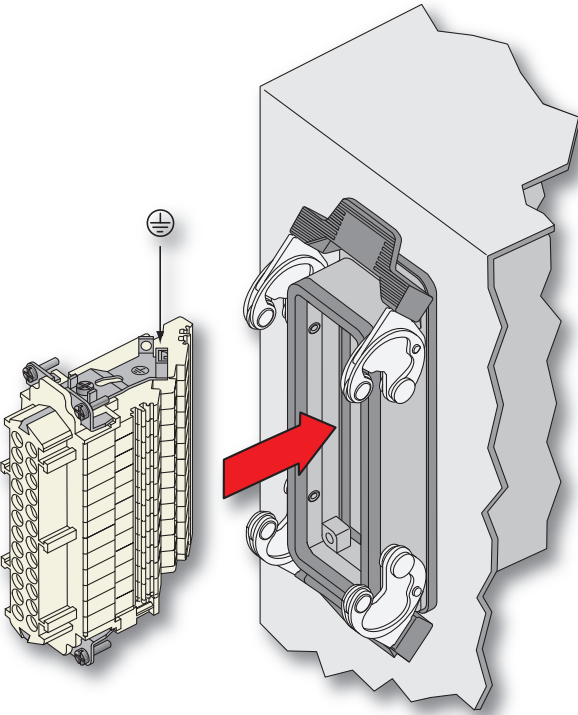


Figure 3 (left mounting)

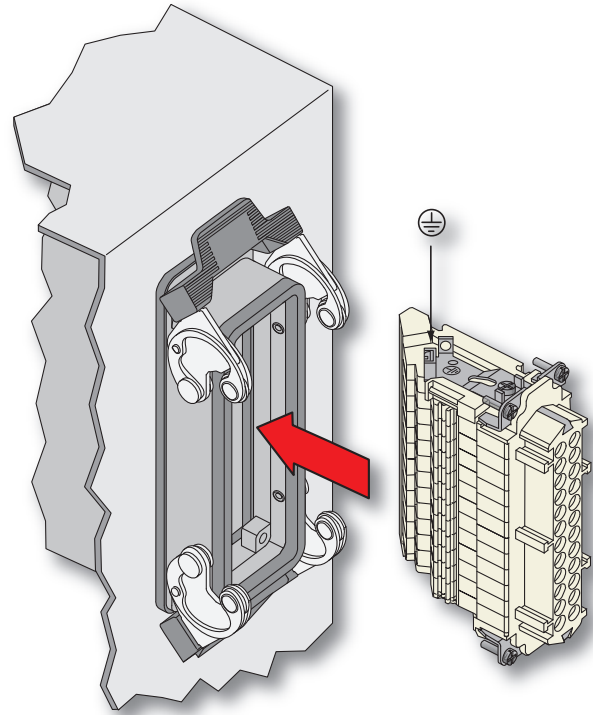


Figure 4 (right mounting)

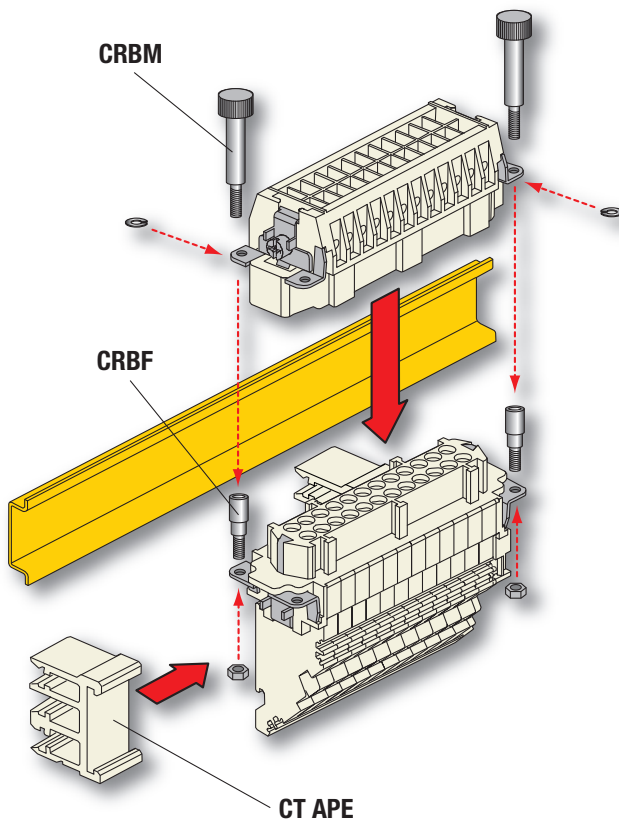


Figure 5 (mounting on DIN rail)



CT APE
possibility of coupling to DIN EN 60715 rail (for a greater stability of the CT, CTSE inserts of 16 and 24 poles we recommend using the two CT APE supports)



EN 60715 C 30



EN 60715 G 32



EN 60715 TH 35-7,5 and TH 35-15

Accessories for CT, CTSE 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 "44.27"

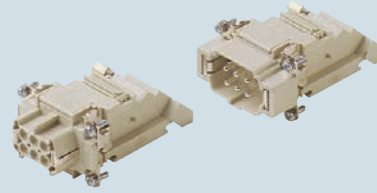
page:

C-TYPE IP65/IP66 240 and 243
 C7 IP67, single lever 274
 V-TYPE IP65/IP66, single lever 280/284
 BIG hoods 304 - 306
 T-TYPE IP65 insulating 326 - 327
 T-TYPE / W IP66 insulating 336 - 337
 HYGIENIC T-TYPE / H IP66/IP69 350 - 351
 HYGIENIC T-TYPE / C IP66/IP69, -50 °C 358 - 359
 W-TYPE for aggressive environments 373
 EMC 392
 central lever 404
 LS-TYPE 450

*) only bulkhead mounted housing and BIG hoods

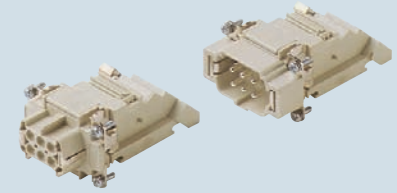
- can be mated with CNE, CCE, CSS, CSE, CSH inserts
 - inserts may be fitted from front of enclosure

terminal block inserts
 screw terminal connection



silver plated contacts

terminal block inserts
 spring terminal connection



silver plated contacts

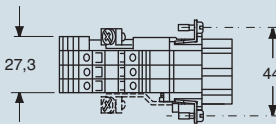
description	part No.	part No.	part No.	part No.
side mounting (see page 129) female inserts with female contacts 1) male inserts with male contacts 1)	left CTF 06 L CTM 06 L	right CTF 06 R CTM 06 R	left CTSEF 06 L CTSEM 06 L	right CTSEF 06 R CTSEM 06 R
side mounting (see page 129) female inserts with female contacts male inserts with male contacts				

1) for non-prepared conductors

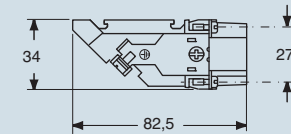
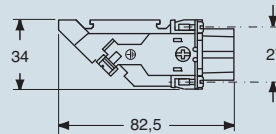
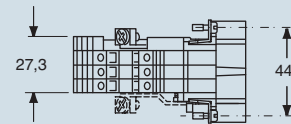
- characteristics according to EN 61984:
 16A 230/400V 4kV 3 (CT)
 16A 400V 4kV 2 (CT)
 16A 500V 6kV 3 (CTSE)
 16A 400/690V 6kV 2 (CTSE)
- UL, CSA, CCC *, GL, EAC certified
- * CQC certification being applied for
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40 \text{ }^\circ\text{C} \dots +125 \text{ }^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 4 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see pages 560, 561

dimensions in mm

female inserts (CTF and CTSEF)

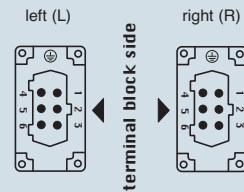


male inserts (CTM and CTSEM)

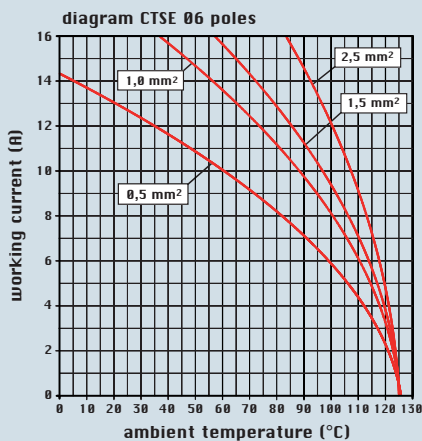
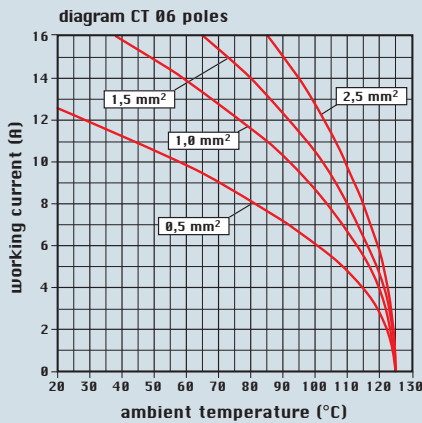
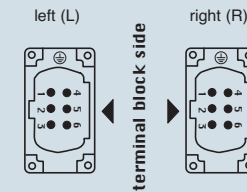


contacts side (front view)

female inserts (CTF and CTSEF)



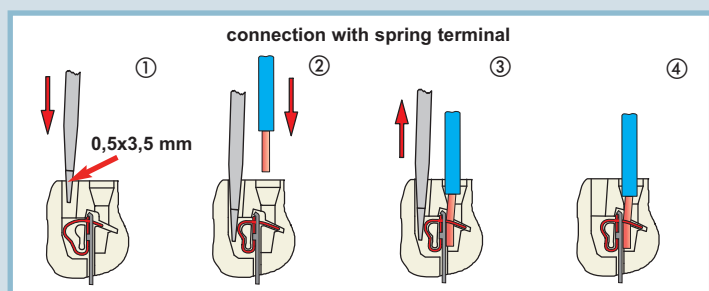
male inserts (CTM and CTSEM)



dimensions shown are not binding
 and may be changed without notice

- CT inserts with plate, for section conductors:
 0,75 - 2,5 mm² - AWG 18 - 14
- conductors stripping length: 12 mm
- terminal screw torque: 0,4 Nm (3,54 lb.in), for more information see page 34 and 35

- CTSE spring inserts for section conductors:
 0,14 - 2,5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm



enclosures *) :

size "57.27"

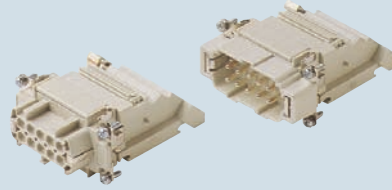
page:

C-TYPE IP65/IP66	244
C7 IP67, two levers	275
V-TYPE IP65/IP66, single lever	281/288
BIG hoods	308 - 311
T-TYPE IP65 insulating	328 - 329
T-TYPE / W IP66 insulating	338 - 339
HYGIENIC T-TYPE / H IP66/IP69	352 - 353
HYGIENIC T-TYPE / C IP66/IP69, -50 °C	360 - 361
W-TYPE for aggressive environments	374
EMC	393
central lever	406
LS-TYPE	452

*) only bulkhead mounted housing and BIG hoods

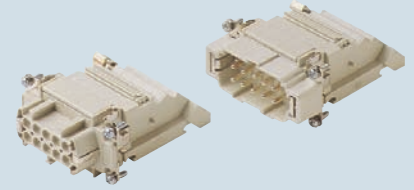
- can be mated with CNE, CCE, CSS, CSE, CSH inserts
- inserts may be fitted from front of enclosure

terminal block inserts
screw terminal connection



silver plated contacts

terminal block inserts
spring terminal connection

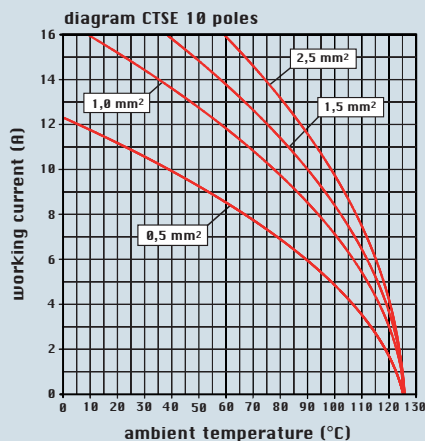
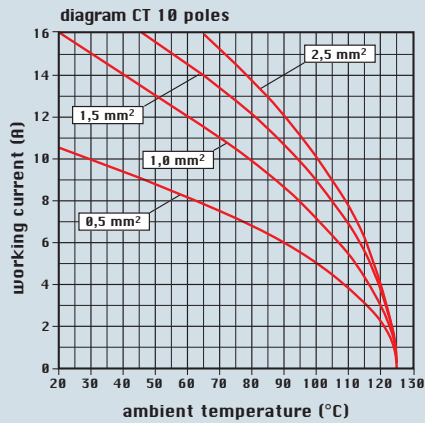


silver plated contacts

description	part No.		part No.	
	left	right	left	right
side mounting (see page 129) female inserts with female contacts 1) male inserts with male contacts 1)	CTF 10 L CTM 10 L	CTF 10 R CTM 10 R	CTSEF 10 L CTSEM 10 L	CTSEF 10 R CTSEM 10 R
side mounting (see page 129) female inserts with female contacts male inserts with male contacts				

1) for non-prepared conductors

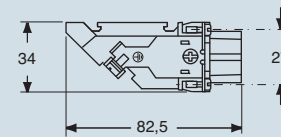
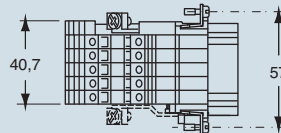
- characteristics according to EN 61984:
- **16A 230/400V 4kV 3 (CT)**
- **16A 400V 4kV 2 (CT)**
- **16A 500V 6kV 3 (CTSE)**
- **16A 400/690V 6kV 2 (CTSE)**
- UL, CSA, CCC *, GL, EAC certified
- * CQC certification being applied for
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40 \text{ }^\circ\text{C} \dots +125 \text{ }^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 4 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see pages 560, 561



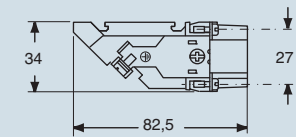
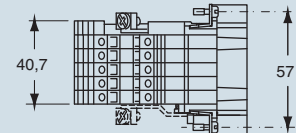
dimensions shown are not binding and may be changed without notice

dimensions in mm

female inserts (CTF and CTSEF)

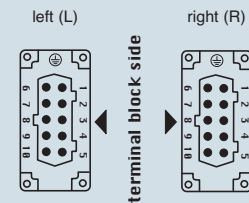


male inserts (CTM and CTSEM)

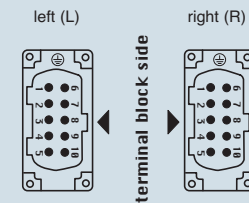


contacts side (front view)

female inserts (CTF and CTSEF)

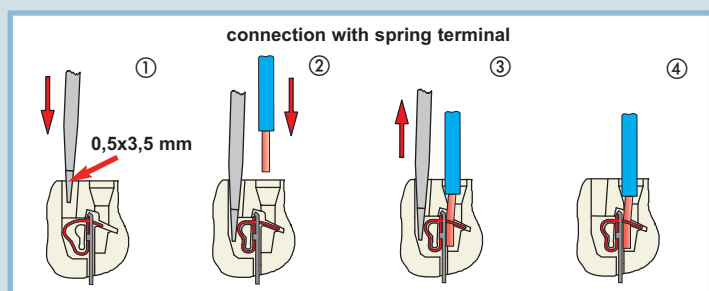


male inserts (CTM and CTSEM)



- CT inserts with plate, for section conductors: 0,75 - 2,5 mm² - AWG 18 - 14
- conductors stripping length: 12 mm
- terminal screw torque: 0,4 Nm (3,54 lb.in), for more information see page 34 and 35

- CTSE spring inserts for section conductors: 0,14 - 2,5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm



enclosures *) :

size "77.27"

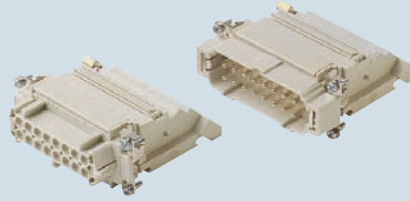
page:

C-TYPE IP65/IP66	250
C7 IP67, two levers	276
V-TYPE IP65/IP66, single lever	282/292
BIG hoods	312 - 315
T-TYPE IP65 insulating	330 - 331
T-TYPE / W IP66 insulating	340 - 341
HYGIENIC T-TYPE / H IP66/IP69	354 - 355
HYGIENIC T-TYPE / C IP66/IP69, -50 °C	362 - 363
W-TYPE for aggressive environments	375
EMC	394
central lever	408
LS-TYPE	454

*) only bulkhead mounted housing and BIG hoods

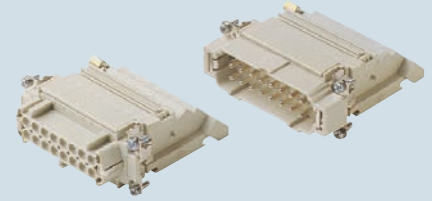
- can be mated with CNE, CCE, CSS, CSE, CSH inserts
- inserts may be fitted from front of enclosure

terminal block inserts
screw terminal connection



silver plated contacts

terminal block inserts
spring terminal connection



silver plated contacts

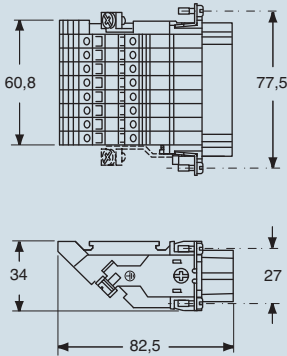
description	part No.	part No.	part No.	part No.
side mounting (see page 129) female inserts with female contacts 1) male inserts with male contacts 1)	left CTF 16 L CTM 16 L	right CTF 16 R CTM 16 R	left CTSEF 16 L CTSEM 16 L	right CTSEF 16 R CTSEM 16 R
side mounting (see page 129) female inserts with female contacts male inserts with male contacts				

1) for non-prepared conductors

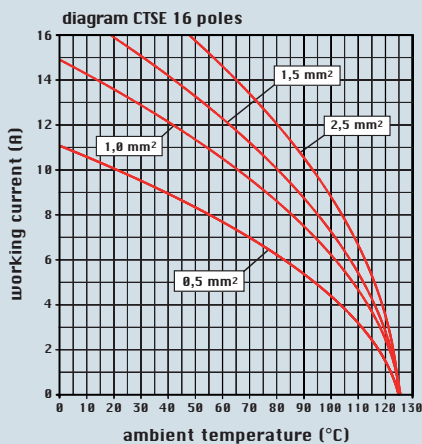
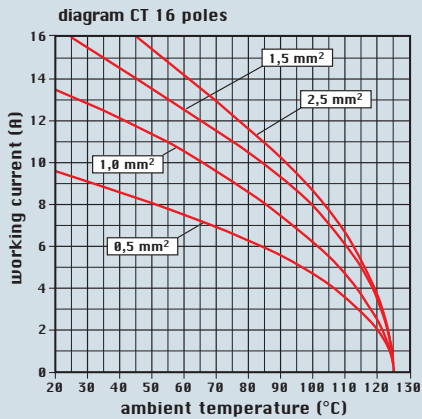
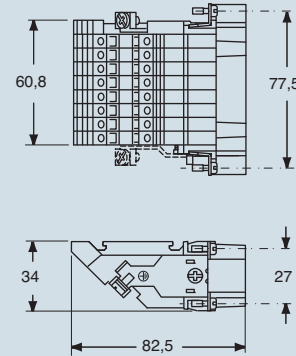
- characteristics according to EN 61984:
16A 230/400V 4kV 3 (CT)
16A 400V 4kV 2 (CT)
16A 500V 6kV 3 (CTSE)
16A 400/690V 6kV 2 (CTSE)
- UL, CSA, CCC *, GL, EAC certified
- * CQC certification being applied for
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 GΩ
- ambient temperature 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 pages 560, 561

dimensions in mm

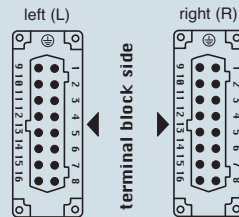
female inserts (CTF and CTSEF)



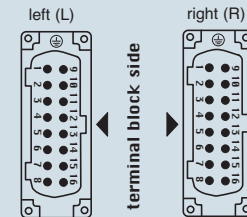
male inserts (CTM and CTSEM)



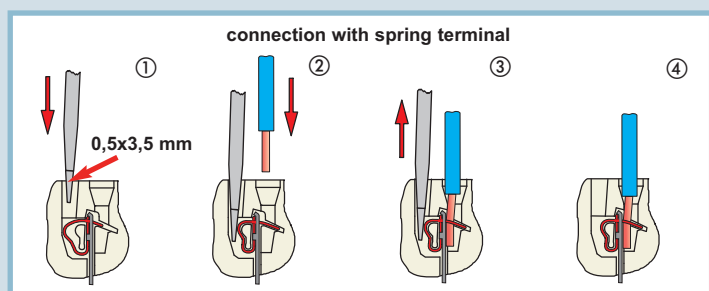
contacts side (front view)
female inserts (CTF and CTSEF)



male inserts (CTM and CTSEM)



- CT inserts with plate, for section conductors: 0,75 - 2,5 mm² - AWG 18 - 14
- conductors stripping length: 12 mm
- terminal screw torque: 0,4 Nm (3,54 lb.in), for more information see page 34 and 35
- CTSE spring inserts for section conductors: 0,14 - 2,5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm



dimensions shown are not binding
and may be changed without notice

enclosures *) :

size "104.27"

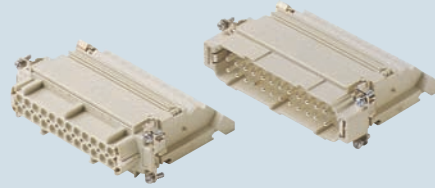
page:

C-TYPE IP65/IP66	258
C7 IP67, two levers	277
V-TYPE IP65/IP66, single lever	283/296
BIG hoods	316 - 319
T-TYPE IP65 insulating	332 - 333
T-TYPE / W IP66 insulating	342 - 343
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HYGIENIC T-TYPE / C IP66/IP69, -50 °C	364 - 365
W-TYPE for aggressive environments	376
EMC	395
central lever	410
LS-TYPE	456 - 457

*) only bulkhead mounted housing and BIG hoods

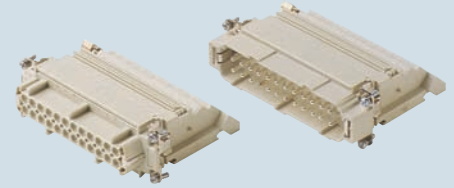
- can be mated with CNE, CCE, CSS, CSE, CSH inserts
- inserts may be fitted from front of enclosure

terminal block inserts
screw terminal connection



silver plated contacts

terminal block inserts
spring terminal connection



silver plated contacts

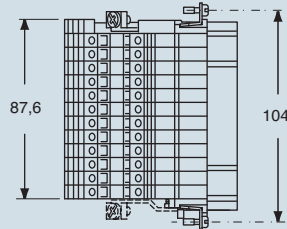
description	part No.	part No.	part No.	part No.
side mounting (see page 129) female inserts with female contacts 1) male inserts with male contacts 1)	left CTF 24 L CTM 24 L	right CTF 24 R CTM 24 R	left CTSEF 24 L CTSEM 24 L	right CTSEF 24 R CTSEM 24 R
side mounting (see page 129) female inserts with female contacts male inserts with male contacts			left CTSEF 24 L CTSEM 24 L	right CTSEF 24 R CTSEM 24 R

1) for non-prepared conductors

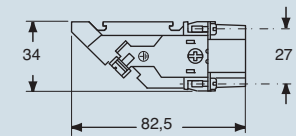
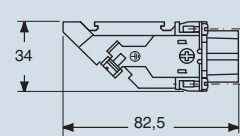
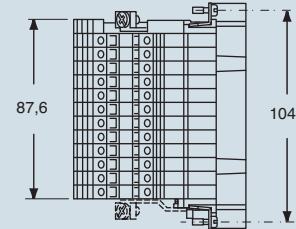
- characteristics according to EN 61984:
- **16A 230/400V 4kV 3 (CT)**
- **16A 400V 4kV 2 (CT)**
- **16A 500V 6kV 3 (CTSE)**
- **16A 400/690V 6kV 2 (CTSE)**
- UL, CSA, CCC *, GL, EAC certified
- * CQC certification being applied for
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40 \text{ }^\circ\text{C} \dots +125 \text{ }^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 4 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see pages 560, 561

dimensions in mm

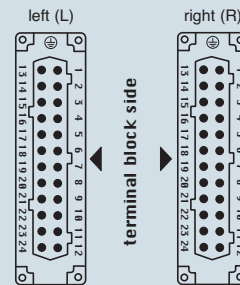
female inserts (CTF and CTSEF)



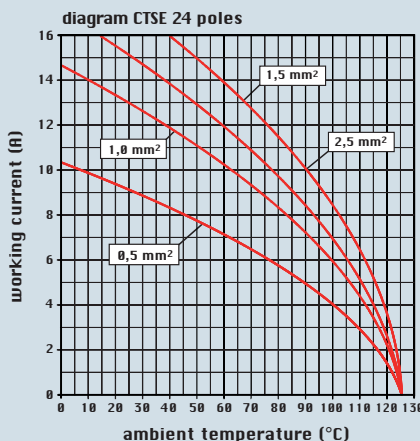
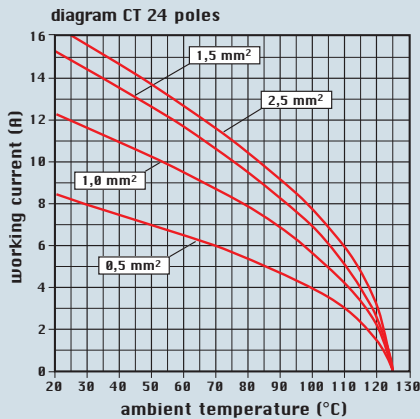
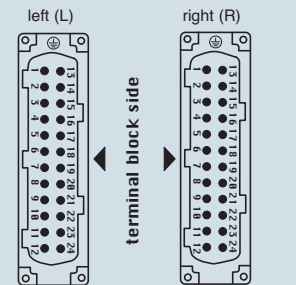
male inserts (CTM and CTSEM)



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

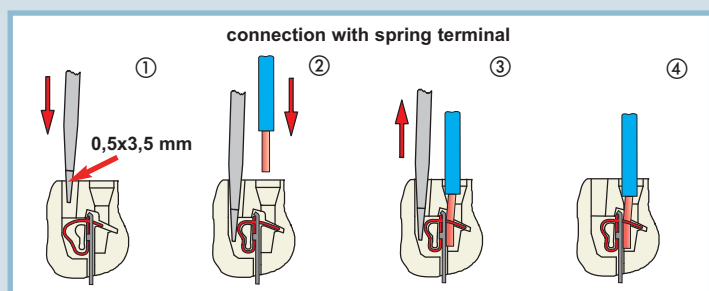


male inserts (CTM and CTSEM)



dimensions shown are not binding and may be changed without notice

- CT inserts with plate, for section conductors: 0,75 - 2,5 mm² - AWG 18 - 14
- conductors stripping length: 12 mm
- terminal screw torque: 0,4 Nm (3,54 lb.in), for more information see page 34 and 35
- CTSE spring inserts for section conductors: 0,14 - 2,5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm



enclosures *) :
size "77.62"

page:

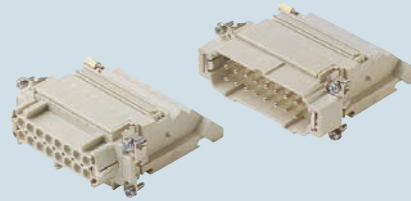
C-TYPE IP65/IP66 267

W-TYPE for aggressive environments .. 377

*) only bulkhead mounted housing

- CT screw version: on request
- can be mated with CNE, CCE, CSS, CSE, CSH inserts
- inserts may be fitted from front of enclosure

terminal block inserts
spring terminal connection



silver plated contacts

NEW

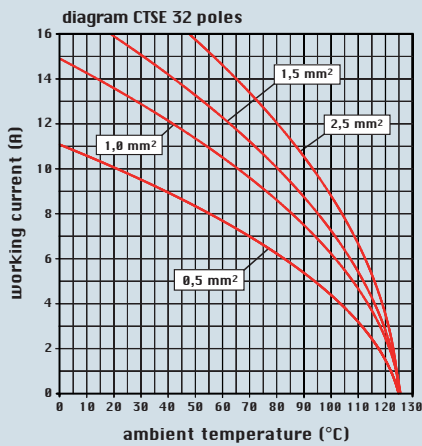
description	part No.	part No.	part No.	part No.
side mounting (see page 129)	left	right		
female inserts with female contacts, No. (1-16) and (17-32) 1)	CTSEF 16 LN	CTSEF 16 R	CTSEF 16 L	CTSEF 16 RN
male inserts with male contacts, No. (1-16) and (17-32) 1)	CTSEM 16 LN	CTSEM 16 R	CTSEM 16 L	CTSEM 16 RN

1) for non-prepared conductors

- characteristics according to EN 61984:

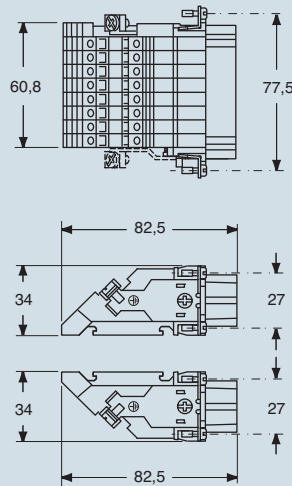
16A 500V 6kV 3
16A 400/690V 6kV 2

- UL, CSA, CCC *, GL, EAC certified
- * CQC certification being applied for
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40 \text{ }^\circ\text{C} \dots +125 \text{ }^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 4 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see pages 561

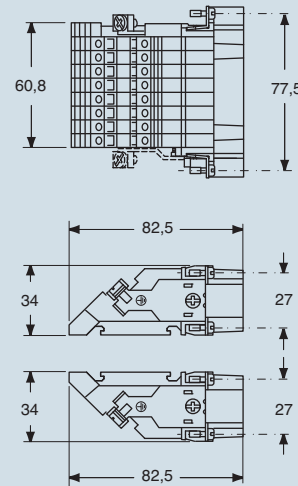


dimensions in mm

female inserts (CTSEF)

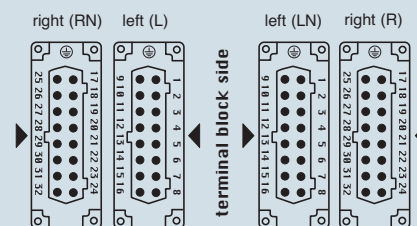


male inserts (CTSEM)

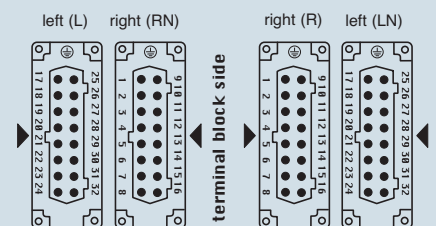


contacts side (front view)

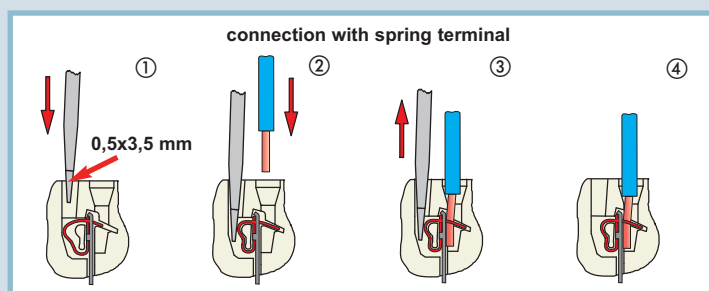
female inserts (CTSEF)



male inserts (CTSEM)



- CTSE spring inserts for section conductors: 0,14 - 2,5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm



dimensions shown are not binding
and may be changed without notice

enclosures *) :
size "104.62"

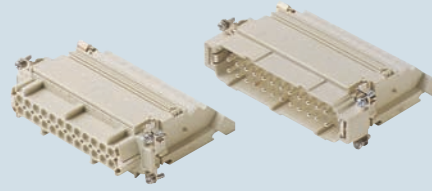
page:

C-TYPE IP65/IP66 271
W-TYPE for aggressive environments . 378

*) only bulkhead mounted housing

- CT screw version: on request
- can be mated with CNE, CCE, CSS, CSE, CSH inserts
- inserts may be fitted from front of enclosure

terminal block inserts
spring terminal connection



silver plated contacts

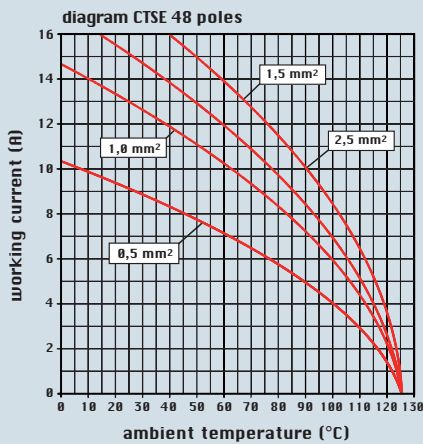
NEW

CTSE

description	part No.	part No.	part No.	part No.
side mounting (see page 129)	left	right		
female inserts with female contacts, No. (1-24) and (25-48) 1)	CTSEF 24 LN	CTSEF 24 R	CTSEF 24 L	CTSEF 24 RN
male inserts with male contacts, No. (1-24) and (25-48) 1)	CTSEM 24 LN	CTSEM 24 R	CTSEM 24 L	CTSEM 24 RN

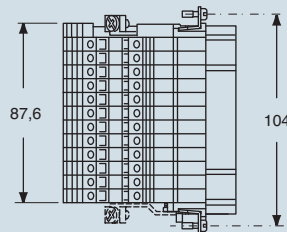
1) for non-prepared conductors

- characteristics according to EN 61984:
- 16A 500V 6kV 3**
- 16A 400/690V 6kV 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 pages 561

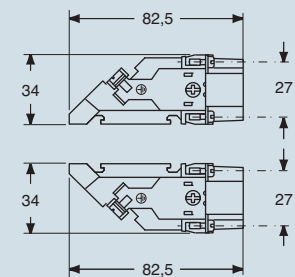
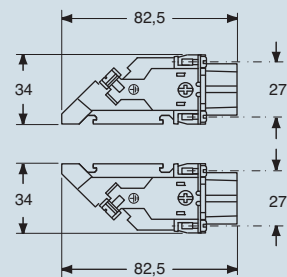
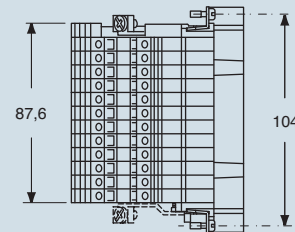


dimensions in mm

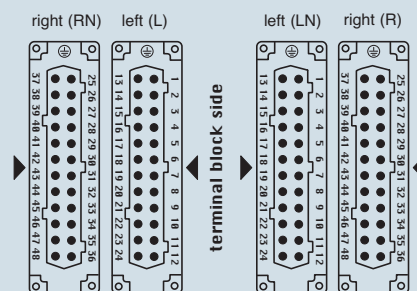
female inserts (CTF and CTSEF)



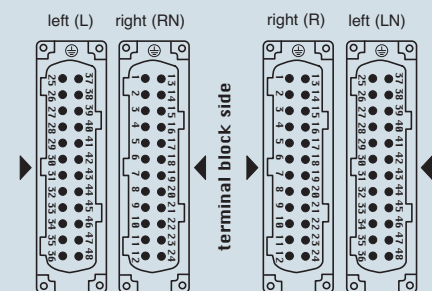
male inserts (CTM and CTSEM)



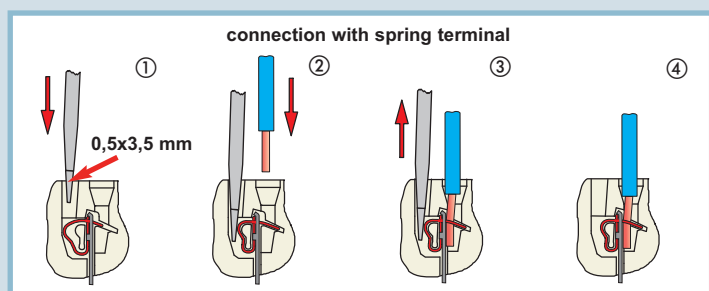
contacts side (front view)
female inserts (CTSEF)



male inserts (CTSEM)



- CTSE spring inserts for section conductors: 0,14 - 2,5 mm² - AWG 26 - 14
- conductors stripping length: 9...11 mm



dimensions shown are not binding
and may be changed without notice