

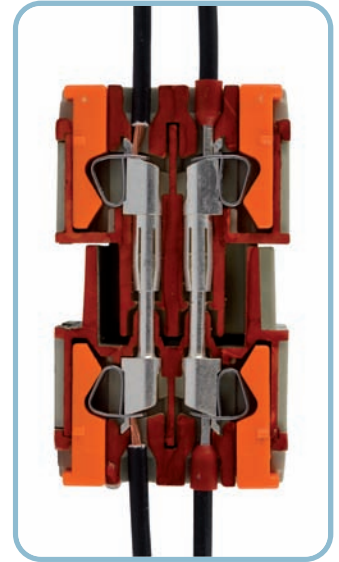
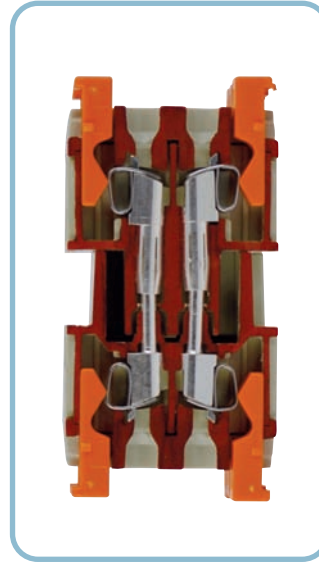
# CSH - SQUICH® series

## Spring connection contacts with actuator button

### Inserts series: CSH

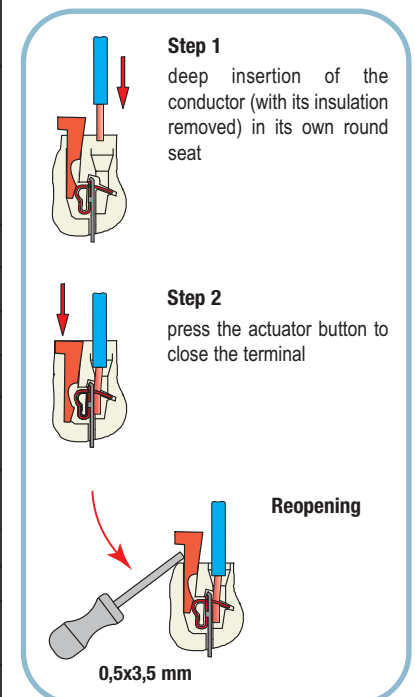
In this layout the wires are connected to the socket and plug insert contacts by means of a spring terminal with actuator button. This type of connection offers the following advantages:

- › no special wire preparation (**other than stripping**);
- › no cabling tool is necessary;
- › it offers an excellent fastening solution and a great resistance to strong vibrations;
- › it allows the use of rigid and flexible wires with cross-sections between 0,14 and 2,5 mm<sup>2</sup> (26 - 14 AWG);
- › it greatly reduces insert preparation and cabling times;
- › a screwdriver with a 0,5 x 3,5 mm blade is the only tool required to remove the wire from the contact.



Inserts series		CSH
No. of poles <sup>1)</sup>	main contacts + ⊕	<b>6, 10, 16, 24, (32), (48)</b>
	auxiliary contacts	--
rated current <sup>2)</sup>		16A
EN 61984 pollution degree 3	rated voltage	500V
	rated holding impulse withstand voltage	6kV
	pollution degree	3
EN 61984 pollution degree 2	rated voltage	400V/690V
	rated holding impulse withstand voltage	6kV
	pollution degree	2
UL/CSA certification	rated voltage (a.c./d.c.)	600V
certifications		UL, CSA, CCC, EAC
contact resistance		≤ 3 mΩ
insulation resistance		≥ 10 GΩ
ambient temperature limit (°C)	min	-40 °C
	max	+125 °C
degree of protection	with enclosures	IP65, IP66, IP67, IP68, IP69K (according to type)
	without enclosures	IP20
conductor connections		spring and clamp with actuator button
conductor cross-section	mm <sup>2</sup>	0,14 - 2,5
	AWG	26 - 14
mechanical endurance (mating cycles)		≥ 500

- 1) Polarities shown in brackets may be achieved by using two inserts in their own double housings.
- 2) Please check the insert load curves to establish the actual maximum operating current according to the ambient temperature.



enclosures:  
size "44.27"

page:

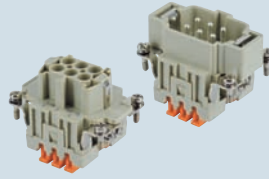
C-TYPE IP65/IP66 .....	240 - 243
C7 IP67, single lever .....	274
V-TYPE IP65/IP66, single lever .....	280/284 - 286
BIG hoods .....	304 - 306
T-TYPE IP65 insulating .....	326 - 327
T-TYPE / W IP66 insulating .....	336 - 337
HYGIENIC T-TYPE / H IP66/IP69 .....	350 - 351
HYGIENIC T-TYPE / C IP66/IP69, -50 °C .....	358 - 359
W-TYPE for aggressive environments .....	373
EMC .....	392
central lever .....	404 - 405
IP68 .....	420 - 423
LS-TYPE .....	450 - 451

panel supports:

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inserts,  
spring terminal connections



silver  
plated  
contacts

description

part No.

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

CSHF 06  
CSHM 06

- characteristics according to EN 61984:

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

- cUL - UL for USA and Canada, CSA, CCC \*, 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:  $\geq 500$  cycles
- contact resistance:  $\leq 3 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 559

dimensions in mm

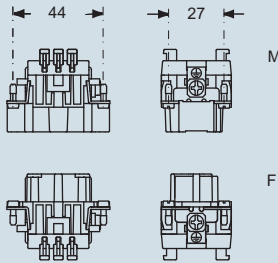
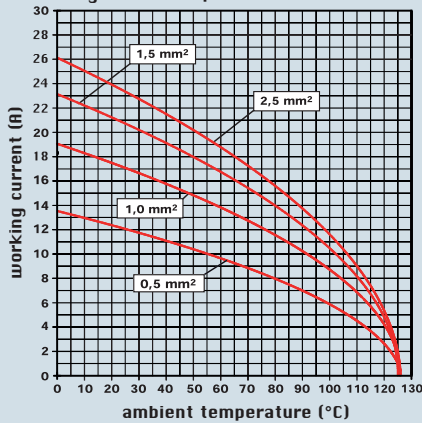
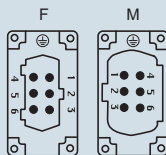


diagram CSH 06 poles

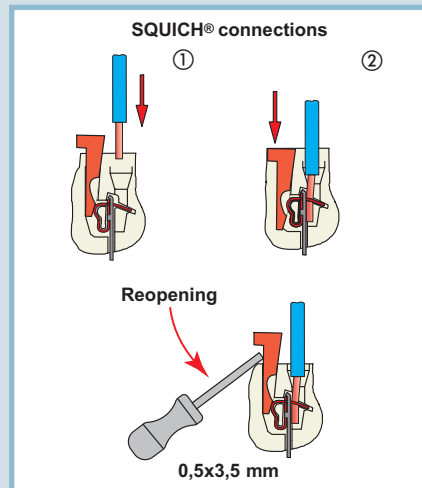


contacts side (front view)



- inserts for connectors with the following sections: 0,14 - 2,5 mm<sup>2</sup> - AWG 26 - 14
- conductors stripping length: 9...11 mm

dimensions shown are not binding  
and may be changed without notice

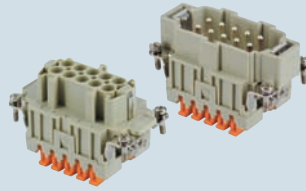


enclosures:  
size "57.27"

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C-TYPE IP65/IP66 .....	244 - 249
C7 IP67, two levers .....	275
V-TYPE IP65/IP66, single lever .....	281/288 - 291
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 - 407
IP68 .....	424 - 427
LS-TYPE .....	452 - 453
panel supports:	page:
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inserts,  
spring terminal connections



silver  
plated  
contacts

description

part No.

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

CSHF 10  
CSHM 10

- characteristics according to EN 61984:

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

- cUL - UL for USA and Canada, CSA, CCC \*, 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:  $\geq 500$  cycles
- contact resistance:  $\leq 3 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 559

dimensions in mm

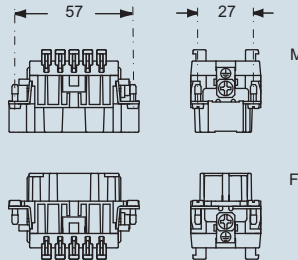
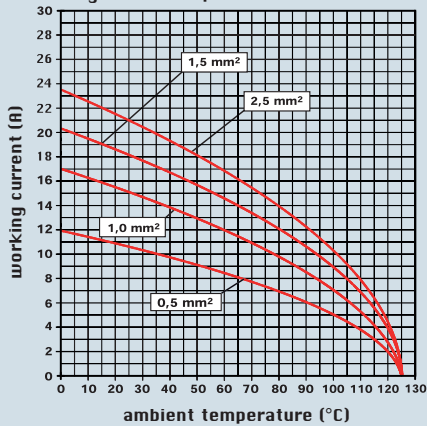
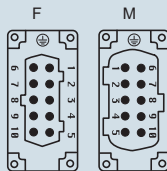


diagram CSH 10 poles

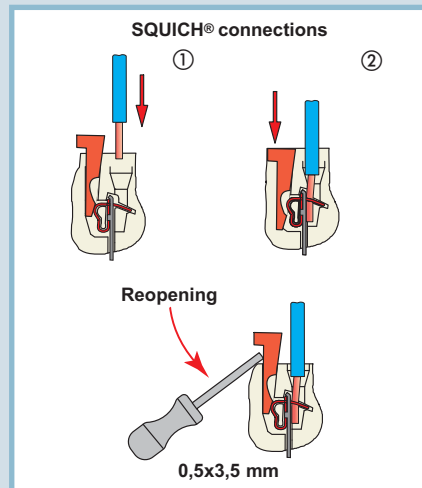


contacts side (front view)



- inserts for connectors with the following sections: 0,14 - 2,5 mm<sup>2</sup> - AWG 26 - 14
- conductors stripping length: 9...11 mm

dimensions shown are not binding  
and may be changed without notice



enclosures:  
size "77.27"

page:

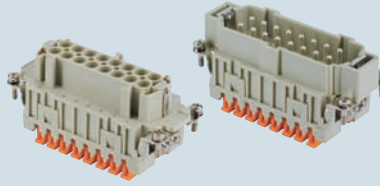
C-TYPE IP65/IP66 .....	250 - 256
C7 IP67, two levers .....	276
V-TYPE IP65/IP66, single lever .....	282/292 - 295
BIG hoods .....	312 - 315
T-TYPE IP65 insulating .....	330 - 331
T-TYPE / W IP66 insulating .....	340 - 341
HYGIENIC T-TYPE / H IP66/IP69 .....	354 - 355
HYGIENIC T-TYPE / C IP66/IP69, -50 °C .....	362 - 363
W-TYPE for aggressive environments .....	375
EMC .....	394
central lever .....	408 - 409
IP68 .....	428 - 431
LS-TYPE .....	454 - 455

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inserts,  
spring terminal connections



silver  
plated  
contacts

description

part No.

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

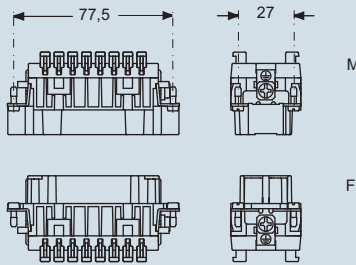
CSHF 16  
CSHM 16

- characteristics according to EN 61984:

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

- cUL - UL for USA and Canada, CSA, CCC \*, 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:  $\geq 500$  cycles
- contact resistance:  $\leq 3 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 559

dimensions in mm



contacts side (front view)

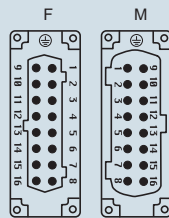
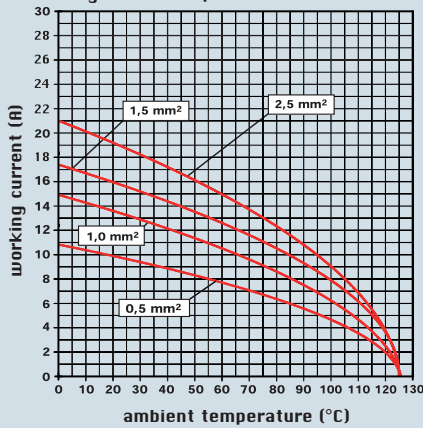
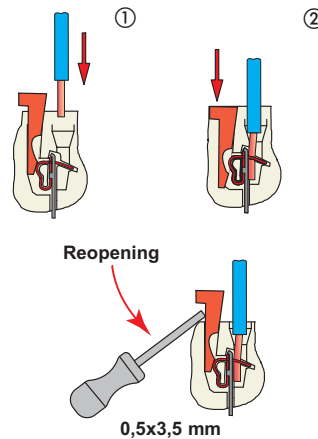


diagram CSH 16 poles



- inserts for connectors with the following sections: 0,14 - 2,5 mm<sup>2</sup> - AWG 26 - 14
- conductors stripping length: 9...11 mm

SQUICH® connections



dimensions shown are not binding  
and may be changed without notice

enclosures:  
size "104.27" page:

C-TYPE IP65/IP66 .....	258 - 266
C7 IP67, two levers .....	277
V-TYPE IP65/IP66, single lever .....	283296 - 299
BIG hoods .....	316 - 319
T-TYPE IP65 insulating .....	332 - 333
T-TYPE / W IP66 insulating .....	342 - 343
HYGIENIC T-TYPE / H IP66/IP69 .....	356 - 357
HYGIENIC T-TYPE / C IP66/IP69, -50 °C .....	364 - 365
W-TYPE for aggressive environments .....	376
EMC .....	395
central lever .....	410 - 412
IP68 .....	432 - 435
LS-TYPE .....	456 - 457

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description

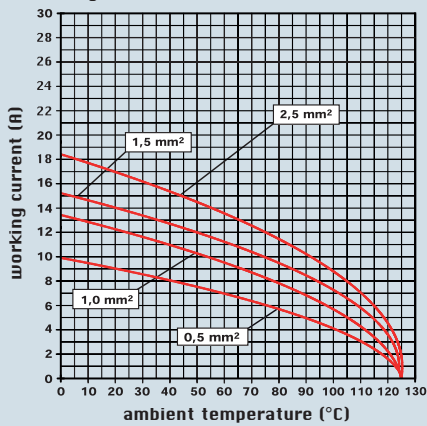
spring terminals with actuator button  
female inserts with female contacts  
male inserts with male contacts

- characteristics according to EN 61984:

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

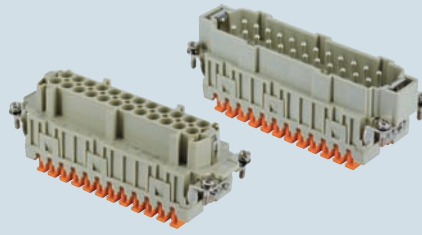
- cUL - UL for USA and Canada, CSA, CCC \*, EAC certified
- \* CQC certification being applied for
- rated voltage according to UL/CSA: 600V
- insulation resistance:  $\geq 10 \text{ G}\Omega$
- ambient temperature limit:  $-40 \text{ }^\circ\text{C} \dots +125 \text{ }^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life:  $\geq 500$  cycles
- contact resistance:  $\leq 3 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 559

diagram CSH 24 poles



dimensions shown are not binding  
and may be changed without notice

inserts,  
spring terminal connections

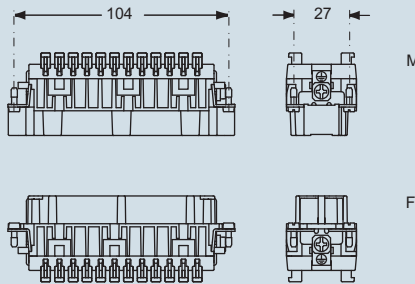


silver  
plated  
contacts

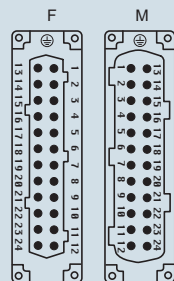
part No.

CSHF 24  
CSHM 24

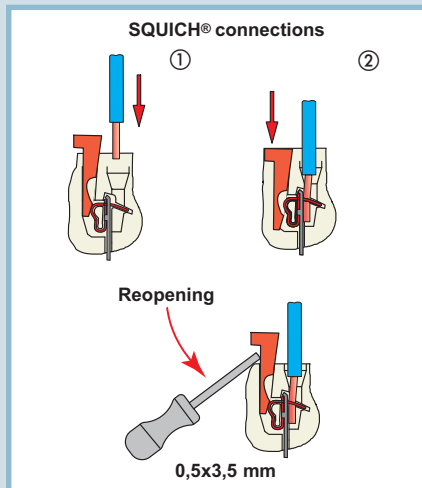
dimensions in mm



contacts side (front view)



- inserts for connectors with the following sections: 0,14 - 2,5 mm<sup>2</sup> - AWG 26 - 14
- conductors stripping length: 9...11 mm

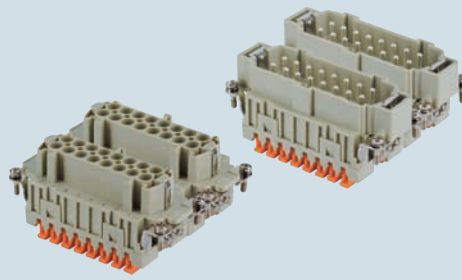


enclosures:  
size "77.62"

page:

C-TYPE IP65/IP66 ..... 267 - 270  
W-TYPE for aggressive environments ..... 377

inserts,  
spring terminal connections



silver  
plated  
contacts

description

part No.

part No.

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

CSHF 16  
CSHM 16

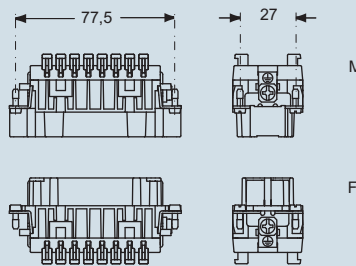
CSHF 16 N  
CSHM 16 N

- characteristics according to EN 61984:

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

- cUL - UL for USA and Canada, CSA, CCC \*, 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:  $\geq 500$  cycles
- contact resistance:  $\leq 3 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 559

dimensions in mm



contacts side (front view)

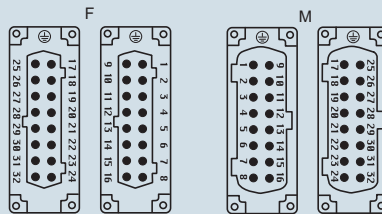
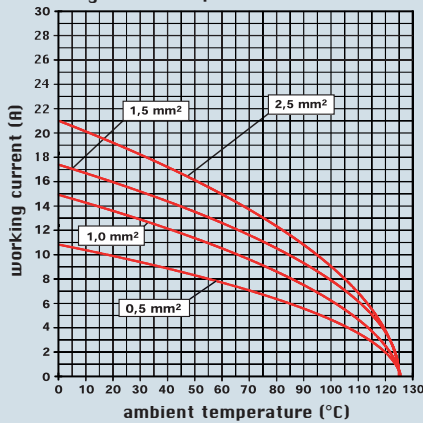
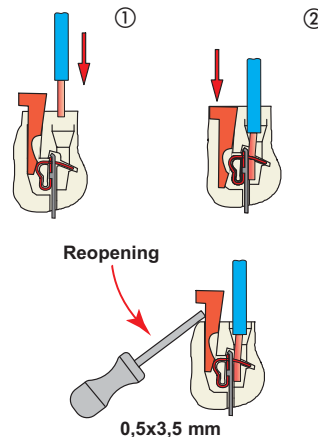


diagram CSH 32 poles



- inserts for connectors with the following sections: 0,14 - 2,5 mm<sup>2</sup> - AWG 26 - 14
- conductors stripping length: 9...11 mm

SQUICH® connections



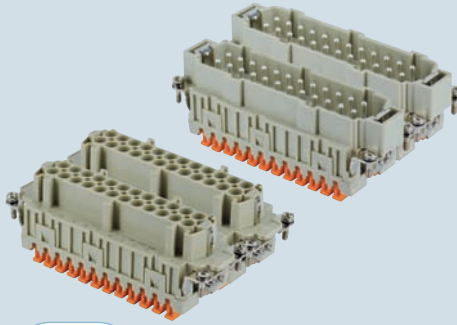
dimensions shown are not binding  
and may be changed without notice

enclosures:  
size "104.62"

page:

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

inserts,  
spring terminal connections



silver plated contacts

description

part No.

part No.

spring terminals with actuator button  
female inserts with female contacts, No. (1-24) and (25-48)  
male inserts with male contacts, No. (1-24) and (25-48)

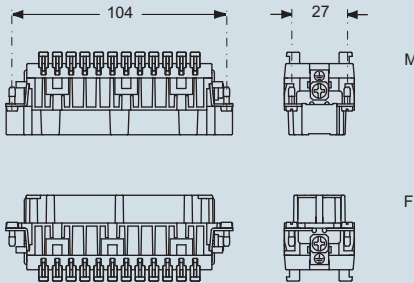
CSHF 24  
CSHM 24

CSHF 24 N  
CSHM 24 N

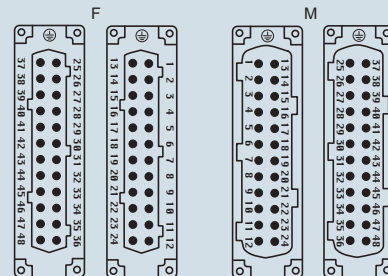
- characteristics according to EN 61984:

- 16A 500V 6kV 3
- 16A 400/690V 6kV 2
- cUL - UL for USA and Canada, CSA, CCC \*, 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:  $\geq 500$  cycles
- contact resistance:  $\leq 3 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 559

dimensions in mm

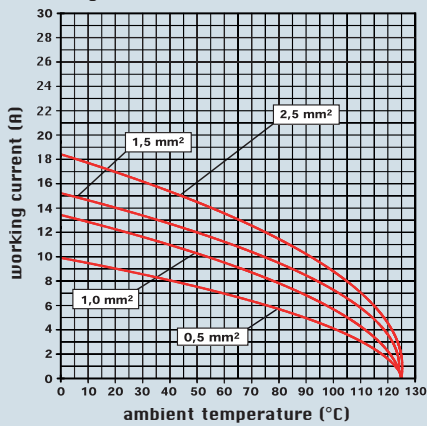


contacts side (front view)



- inserts for connectors with the following sections: 0,14 - 2,5 mm<sup>2</sup> - AWG 26 - 14
- conductors stripping length: 9...11 mm

diagram CSH 48 poles



dimensions shown are not binding  
and may be changed without notice

