

## CSH S-SQUICH® series

### TECHNICAL FEATURES

Demand for cost-effective solutions for large serial production is constantly growing and stamped contacts meet the basic needs for such applications.

- ILME stamped contacts, thanks to their **silver-plated** treatment are suitable for up to **500 mating cycles**, consistently with the turned ones.

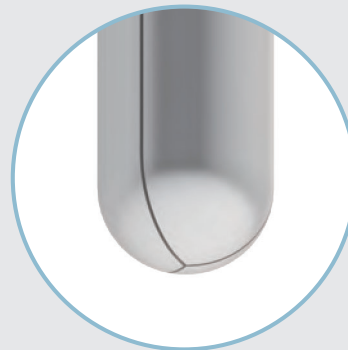
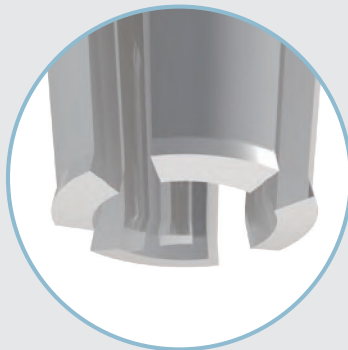


**Q** In order to easily recognize them, each insert is marked with an “S” at the end of the product code, meaning “stamped”.

- Stamped contacts applied to the SQUICH® connection feature all the well-known advantages of the ILME proprietary technology:

- **reduced wiring time** (spring-clamp terminals are presented “open”, with the actuator button lifted up); up to **50% saving time** compared to screw connection;
- **operator skill independence** (no need to open the spring-clamp terminals by direct operation of a possibly unsuitable tool on the spring);
- **no special wire preparation** (only stripping at the correct length);
- no wiring tool needed;
- **resistance to strong vibrations** typical of the self-compensating spring-clamp technology;
- possibility **to use solid and flexible** stranded copper conductors with range of cross sectional area between 0,14 mm<sup>2</sup> and 2,5 mm<sup>2</sup> (26 – 14 AWG);
- possibility to insert the **test probe** of a measurement instrument in the cavity of the actuator button (proprietary design);
- simple re-opening of a terminal (if needed) using a flat blade screwdriver on the actuator button dedicated side window.

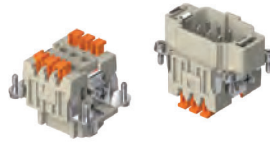
stamped  
silver-plated  
contacts



# CSHF/M 06 S 6 poles + ⊕ 16A - 500V SQUICH®

enclosures: size "44.27"	page:
C-TYPE IP65 or IP66/IP69	387 - 392
C7 IP67, single lever	436 - 437
V-TYPE IP65 or IP66/IP69, single lever	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:	page:
COB	652 - 653

## inserts, spring terminal connections



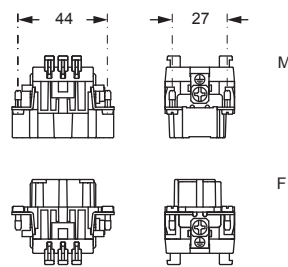
**Q STAMPED CONTACTS, SILVER PLATED**

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

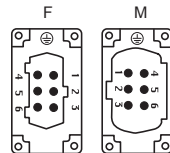
spring terminals with actuator button  
female inserts with female contacts  
male inserts with male contacts

**CSHF 06 S**  
**CSHM 06 S**

- characteristics according to EN 61984:  
**16A 500V 6kV 3**  
**16A 400/690V 6kV 2**
- cULus (UL for USA and Canada) certified  
CSA, CQC, DNV-GL, BV, EAC pending
- rated voltage according to UL/CSA: 600V
- insulation resistance:  $\geq 10 \text{ G}\Omega$
- ambient temperature limit:  $-40 \text{ }^\circ\text{C} \dots +125 \text{ }^\circ\text{C}$
- made of self-extinguishing thermoplastic resin  
UL 94V-0
- mechanical life:  $\geq 500$  cycles
- contact resistance:  $\leq 3 \text{ m}\Omega$
- for max. current load see the connector inserts derating diagram below; for more information see page 28

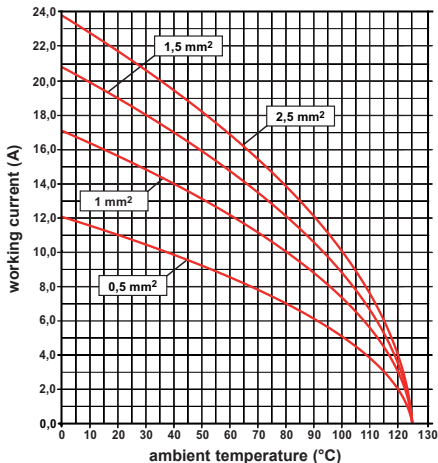


contacts side (front view)



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

**CSH S 06 poles connector inserts**  
**Maximum current load derating diagram**



## SQUICH®-spring connection technology

### WIRING

- 1** Deeply insert a stripped conductor into a round terminal.
- 2** Push the actuator button to close the terminal.

### RE-OPENING

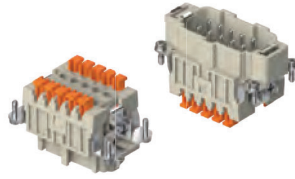
- 3** Insert a **0,5 x 3,5 mm** flat blade screwdriver in the actuator button side window and pull it up by levering down.

CSH S-SQUICH®

# CSHF/M 10 S 10 poles + ⊕ 16A - 500V SQUICH®

enclosures: size "57.27"	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:	page:
COB	652 - 653

## inserts, spring terminal connections



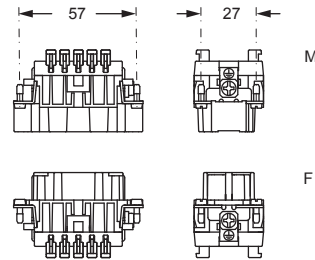
**Q STAMPED CONTACTS, SILVER PLATED**

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

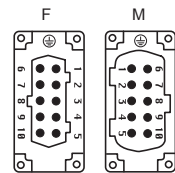
spring terminals with actuator button  
female inserts with female contacts  
male inserts with male contacts

**CSHF 10 S**  
**CSHM 10 S**

- characteristics according to EN 61984:  
**16A 500V 6kV 3**  
**16A 400/690V 6kV 2**
- cULus (UL for USA and Canada) certified  
CSA, CQC, DNV-GL, BV, EAC pending
- rated voltage according to UL/CSA: 600V
- insulation resistance:  $\geq 10 \text{ G}\Omega$
- ambient temperature limit:  $-40 \text{ }^\circ\text{C} \dots +125 \text{ }^\circ\text{C}$
- made of self-extinguishing thermoplastic resin  
UL 94V-0
- mechanical life:  $\geq 500$  cycles
- contact resistance:  $\leq 3 \text{ m}\Omega$
- for max. current load see the connector inserts derating  
diagram below; for more information see page 28

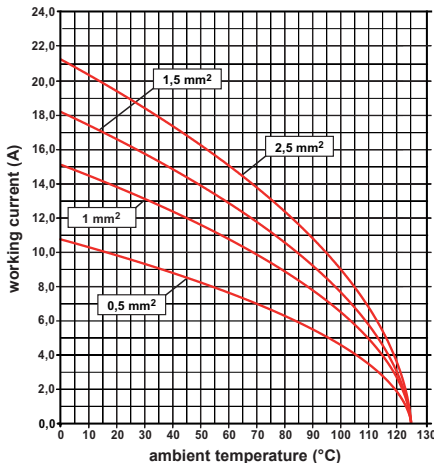


contacts side (front view)



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

**CSH S 10 poles connector inserts**  
**Maximum current load derating diagram**



## SQUICH®-spring connection technology

### WIRING

- Deeply insert a stripped conductor into a round terminal.
- Push the actuator button to close the terminal.

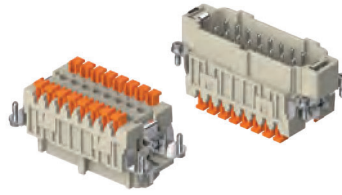
### RE-OPENING

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

# CSHF/M 16 S 16 poles + ⊕ 16A - 500V SQUICH®

enclosures: size "77.27"	page:
C-TYPE IP65 or IP66/IP69	402 - 411
C7 IP67, two levers	439 - 440
V-TYPE IP65 or IP66/IP69, single lever	454 - 458
BIG hoods	470 - 471
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	523
E-Xtreme® corrosion proof	534 - 535, 544, 554 - 555
EMC	580
Central lever	609 - 611
LS-TYPE	622 - 623
IP68	640 - 643
panel supports:	page:
COB	652 - 653

## inserts, spring terminal connections



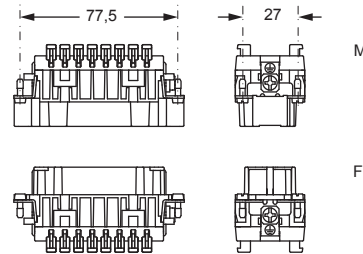
**Q STAMPED CONTACTS, SILVER PLATED**

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

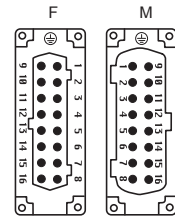
spring terminals with actuator button  
female inserts with female contacts  
male inserts with male contacts

**CSHF 16 S**  
**CSHM 16 S**

- characteristics according to EN 61984:  
**16A 500V 6kV 3**  
**16A 400/690V 6kV 2**
- (UL for USA and Canada) certified  
CSA, CQC, DNV-GL, BV, EAC pending
- rated voltage according to UL/CSA: 600V
- insulation resistance:  $\geq 10 \text{ G}\Omega$
- ambient temperature limit:  $-40 \text{ }^\circ\text{C} \dots +125 \text{ }^\circ\text{C}$
- made of self-extinguishing thermoplastic resin  
UL 94V-0
- mechanical life:  $\geq 500$  cycles
- contact resistance:  $\leq 3 \text{ m}\Omega$
- for max. current load see the connector inserts derating diagram below; for more information see page 28

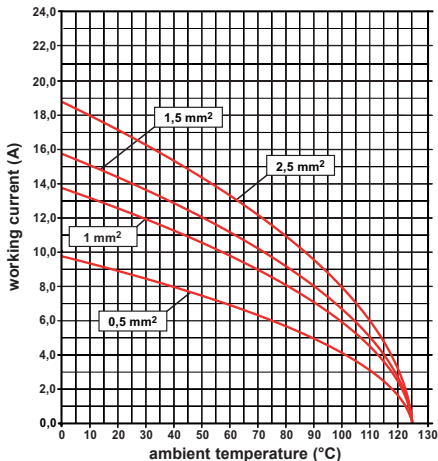


contacts side (front view)



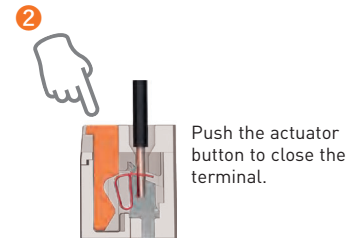
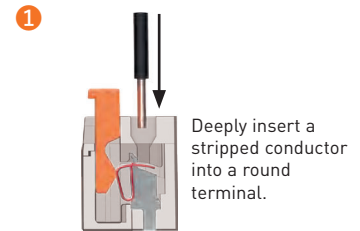
- inserts for connectors with the following conductor cross-sectional areas: 0,14 - 2,5 mm<sup>2</sup> - AWG 26 - 14
- conductors stripping length: 9...11 mm

**CSH S 16 poles connector inserts**  
**Maximum current load derating diagram**

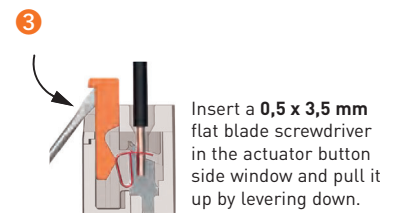


## SQUICH®-spring connection technology

### WIRING



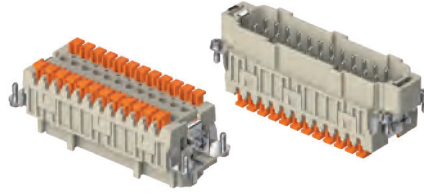
### RE-OPENING



# CSHF/M 24 S 24 poles + ⊕ 16A - 500V SQUICH®

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	page: 652 - 653

## inserts, spring terminal connections



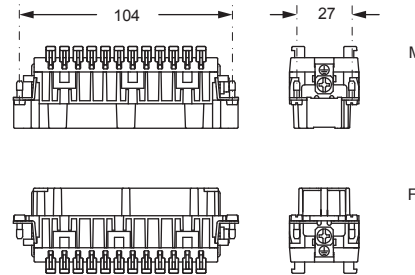
**Q STAMPED CONTACTS, SILVER PLATED**

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

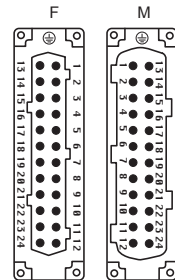
spring terminals with actuator button  
female inserts with female contacts  
male inserts with male contacts

**CSHF 24 S**  
**CSHM 24 S**

- characteristics according to EN 61984:  
**16A 500V 6kV 3**  
**16A 400/690V 6kV 2**
- cULus (UL for USA and Canada) certified  
CSA, CQC, DNV-GL, BV, EAC pending
- rated voltage according to UL/CSA: 600V
- insulation resistance:  $\geq 10 \text{ G}\Omega$
- ambient temperature limit:  $-40 \text{ }^\circ\text{C} \dots +125 \text{ }^\circ\text{C}$
- made of self-extinguishing thermoplastic resin  
UL 94V-0
- mechanical life:  $\geq 500$  cycles
- contact resistance:  $\leq 3 \text{ m}\Omega$
- for max. current load see the connector inserts derating  
diagram below; for more information see page 28

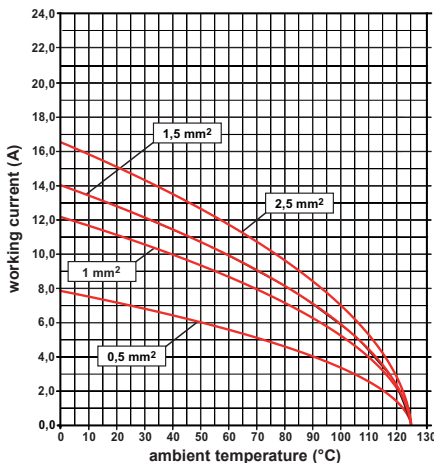


contacts side (front view)



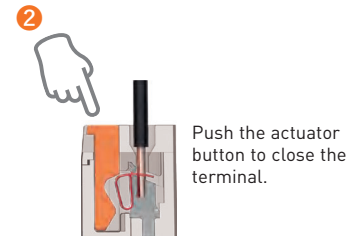
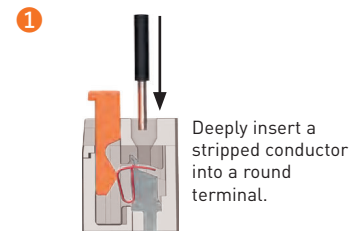
- inserts for connectors with the following conductor  
cross-sectional areas: 0,14 - 2,5 mm<sup>2</sup> - AWG 26 - 14
- conductors stripping length: 9...11 mm

**CSH S 24 poles connector inserts**  
**Maximum current load derating diagram**

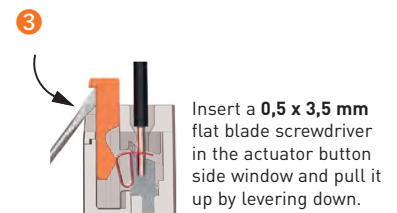


## SQUICH®-spring connection technology

### WIRING



### RE-OPENING



# CSHF/M SN 32 poles + ⊕ 16A - 500V SQUICH®

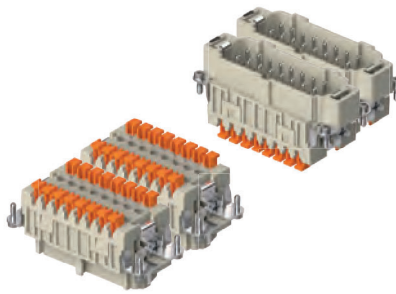
enclosures:  
size "77.62"

page:

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

424 - 429  
525  
546

inserts,  
spring terminal connections



**Q STAMPED CONTACTS, SILVER PLATED**

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

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

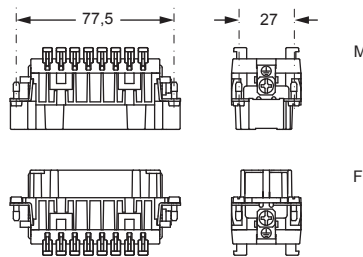
**CSHF 16 S**  
**CSHM 16 S**

**CSHF 16 SN**  
**CSHM 16 SN**

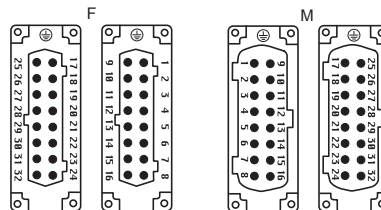
- characteristics according to EN 61984:

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

- cULus (UL for USA and Canada) certified  
CSA, CQC, DNV-GL, BV, EAC pending
- rated voltage according to UL/CSA: 600V
- insulation resistance:  $\geq 10 \text{ G}\Omega$
- ambient temperature limit:  $-40 \text{ }^\circ\text{C} \dots +125 \text{ }^\circ\text{C}$
- made of self-extinguishing thermoplastic resin  
UL 94V-0
- mechanical life:  $\geq 500$  cycles
- contact resistance:  $\leq 3 \text{ m}\Omega$
- for max. current load see the connector inserts derating  
diagram below; for more information see page 28

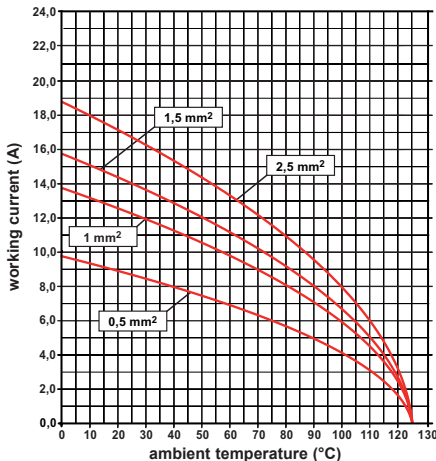


contacts side (front view)



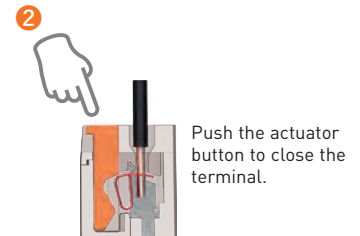
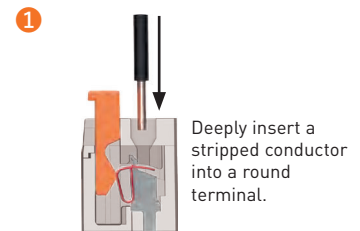
- inserts for connectors with the following conductor  
cross-sectional areas: 0,14 - 2,5 mm<sup>2</sup> - AWG 26 - 14
- conductors stripping length: 9...11 mm

**CSH S 32 poles connector inserts**  
**Maximum current load derating diagram**

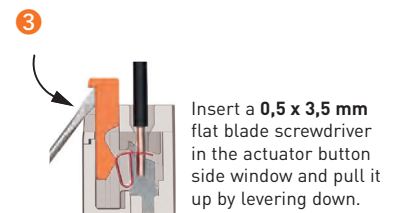


**SQUICH®-spring connection technology**

**WIRING**



**RE-OPENING**



CSH S-SQUICH®

# CSHF/M SN 48 poles + ⊕ 16A - 500V SQUICH®

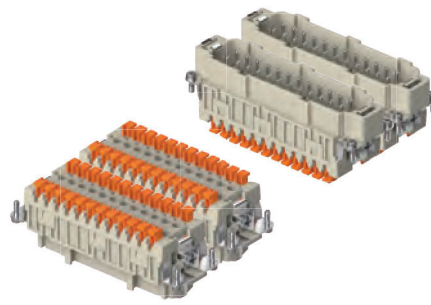
enclosures:  
size "104.62"

page:

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

430  
526  
547

inserts,  
spring terminal connections



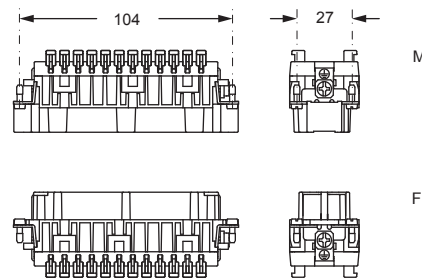
**Q STAMPED CONTACTS, SILVER PLATED**

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

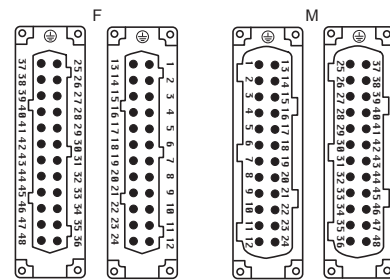
spring terminals with actuator button  
female inserts with female contacts, No. (1-24) & (25-48)  
male inserts with male contacts, No. (1-24) & (25-48)

CSHF 24 S CSHM 24 S	CSHF 24 SN CSHM 24 SN
------------------------	--------------------------

- characteristics according to EN 61984:  
**16A 500V 6kV 3**  
**16A 400/690V 6kV 2**
- cULus (UL for USA and Canada) certified  
CSA, CQC, DNV-GL, BV, EAC pending
- rated voltage according to UL/CSA: 600V
- insulation resistance:  $\geq 10 \text{ G}\Omega$
- ambient temperature limit:  $-40 \text{ }^\circ\text{C} \dots +125 \text{ }^\circ\text{C}$
- made of self-extinguishing thermoplastic resin  
UL 94V-0
- mechanical life:  $\geq 500$  cycles
- contact resistance:  $\leq 3 \text{ m}\Omega$
- for max. current load see the connector inserts derating  
diagram below; for more information see page 28

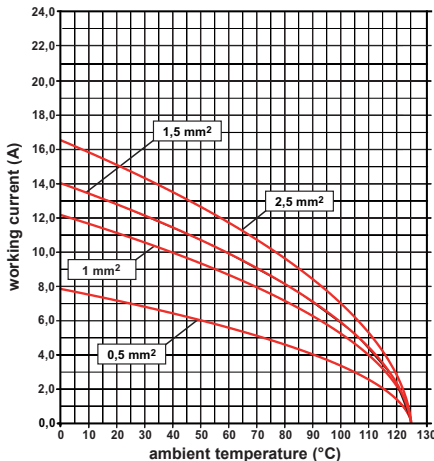


contacts side (front view)



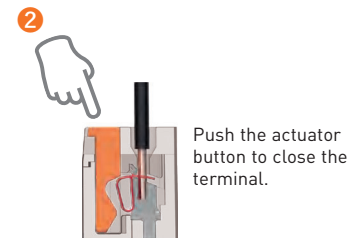
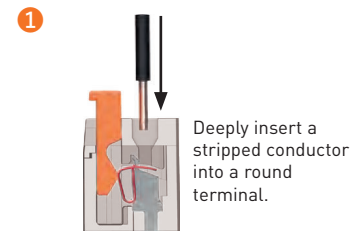
- inserts for connectors with the following conductor  
cross-sectional areas: 0,14 - 2,5 mm<sup>2</sup> - AWG 26 - 14
- conductors stripping length: 9...11 mm

**CSH S 48 poles connector inserts**  
Maximum current load derating diagram



**SQUICH®-spring connection technology**

**WIRING**



**RE-OPENING**

