

CDSH-SQUICH® series

High density without tools (spring connection contacts)

The CDSH-SQUICH® series (with spring and actuator button) are the logical **evolution of the CDS series**.

The continuous demand for a greater number of poles and smaller dimensions has led to the design and manufacture of the new CDSH series, which offers single connectors with a **maximum number of 84 poles** that occupy the **same space of standard connectors** with screw/spring connection.

Each of the spring terminals has an actuator button, suitably shaped and incorporated in the cavity. When this button is pushed, 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 distinguishable by the orange colour** which makes them stand out from the insulating body of the connector.

The advantage of this 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.

SQUICH® technology requires no tools **to activate the terminal and a simple operation is all you need to make the connection**. Refer to SQUICH® Connection operating principles on page 24.

It is possible to insert in the mating area the new **CR CDS plastic coding pin** that enables the polarisation of inserts in a wide range of combinations. This means that it is possible to install side by side identical connectors with different functions.



The CR CDS coding pins **can also be used in combination with CR 20 / CRM / CRF / CR 72 metal pins** instead of insert fixing screws in order to increase the number of possible combinations. Each position of the coding pin used on the female insert must correspond to an unused position on the male insert.

The required number of coding pins, depending on the size of connectors, and the maximum number of possible codings is shown in the table 1.



SUM UP

- ☑ **Greater pole density as compared to existing connector with screw terminals.**
SAVE SPACE +70%
- ☑ **Reduced wiring time.**
SAVE TIME -50%

STANDARD	CDSH - HIGH DENSITY	
16A	10A	
06 poles	09 poles	+50%
10 poles	18 poles	+80%
16 poles	27 poles	+70%
24 poles	42 poles	+75%
32 poles	54 poles	+70%
48 poles	84 poles	+75%

- ☑ **Wiring tool is not necessary**
- ☑ **Quick identification of wired and non-wired terminals**
- ☑ **Terminals already open and ready for conductor clamping**
- ☑ **Option to use wires up to 2,5 mm²**
- ☑ **Built-in silver plated contacts**
- ☑ **Excellent fastening solution**
- ☑ **Great resistance to strong vibration**

Q CDSH series can be used with the whole range of ILME enclosures

Table 1. CDSH series - Coding with CR CDS pins

Size of connectors	Slots for coding pins (M) = male insert (F) = female insert	Required coding pins for each coupling	Possible codings
9P + ⊕	3 (M) + 3 (F)	3 2 (M) + 1 (F)	3
18P + ⊕	6 (M) + 6 (F)	6 3 (M) + 3 (F)	20
27P + ⊕	9 (M) + 9 (F)	9 5 (M) + 4 (F)	126
42P + ⊕	14 (M) + 14 (F)	14 7 (M) + 7 (F)	3.432

CDSH-SQUICH® series

TECHNICAL FEATURES

Insert series		CDSH-SQUICH®
No. of poles ¹⁾	Main contacts + ⊕	9, 18, 27, 42, [54], [84]
	auxiliary contacts	—
Rated current ²⁾		10A
EN IEC 61984	rated voltage	400V
	rated impulse voltage	6kV
	pollution degree	3
EN IEC 61984	rated voltage	400V / 690V
	rated impulse voltage	6kV
	pollution degree	2
Contact resistance		≤ 1 mΩ
Insulation resistance		≥ 10 GΩ
Ambient temperature limit (°C)	min	-40
	max	+125
Degree of protection	with enclosures (according to type)	IP65, IP66/IP69, IP66/IP67/IP69, IP66/IP68/IP69
	without enclosures (in mated condition)	IP20 (IPXXB)
Conductor connections		spring type with actuator button
Conductor cross-sectional area	mm ²	0,14 - 2,5 (for wires with crimped ferrule, usable section: up to 1,5 mm ²)
	AWG	26 - 14 (AWG 16 with crimped ferrule) 26 - 16 prepared with crimped ferrule
Mechanical endurance (mating cycles)		≥ 500

1) Polarities shown in brackets may be achieved by using two inserts in their own double sized housings.

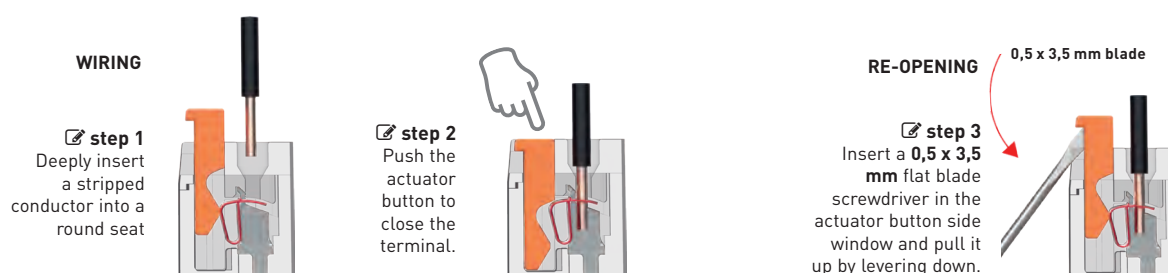
2) Please check the insert load curves to establish the actual maximum operating current according to the ambient temperature.

SQUICH® Connection technology

In the layout below 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:

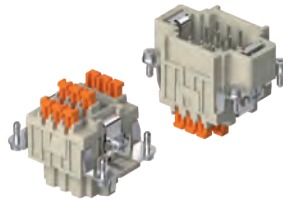
- no special wire preparation (other than stripping);
- it offers an excellent fastening solution and a great resistance to strong vibrations;
- it allows the use of solid and flexible wires with cross-sections between 0,14 and 2,5 mm² (AWG 26 - 14);
- for wires with crimped ferrule, usable section: to 1,5 mm² (AWG 16);
- a screwdriver with a 0,5 x 3,5 mm blade is the only tool required to remove the wire from the contact;
- the profile of the actuator button allows the section of a test probe.



CDSH-SQUICH® 9 poles + ⊕ 10A - 400V

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: COB	page: 652 - 653

inserts, spring terminal connections without tools



coding pins



description	part No.	part No.
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spring terminals with actuator button
female inserts with female contacts
male inserts with male contacts

CDSHF 09
CDSHM 09

plastic coding pins

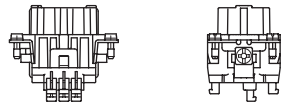
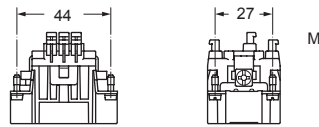
CR CDS

- characteristics according to EN 61984:

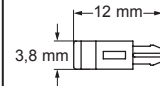
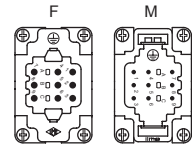
10A 400V 6kV 3
10A 400V/690V 6kV 2

- 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



contacts side (front view)

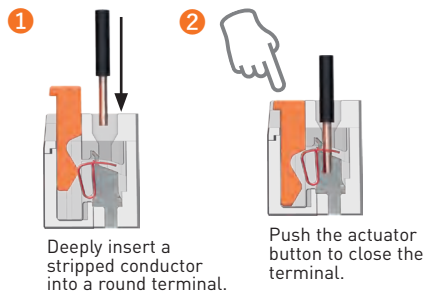


CDSH series - Coding with CR CDS pins

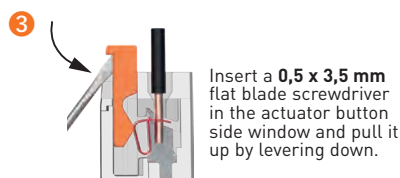
Size of connectors	Slots for coding pins (M) = male insert (F) = female insert	Required coding pins for each coupling	Possible codings
9P + ⊕	3 (M) + 3 (F)	3 2 (M) + 1 (F)	3

- inserts for conductors cross-sectional areas: 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

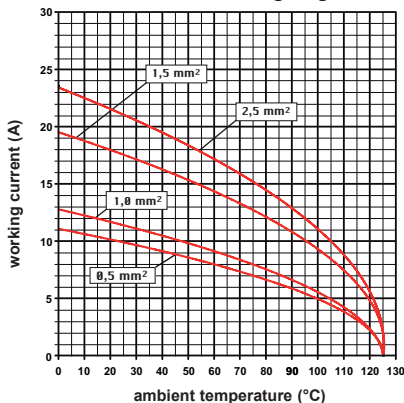
SQUICH®-spring connection technology WIRING



RE-OPENING



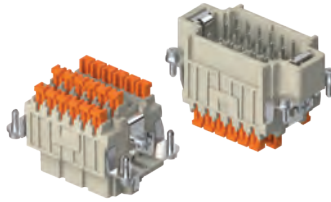
CDSH 09 poles connector inserts
Maximum current load derating diagram



CDSH-SQUICH® 18 poles + ⊕ 10A - 400V

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: COB	page: 652 - 653

inserts, spring terminal connections without tools



coding pins



description	part No.	part No.
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spring terminals with actuator button
female inserts with female contacts
male inserts with male contacts

CDSHF 18
CDSHM 18

plastic coding pins

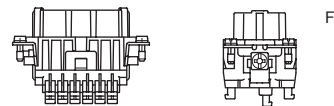
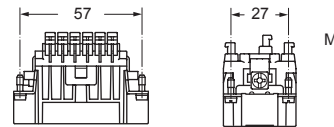
CR CDS

- characteristics according to EN 61984:

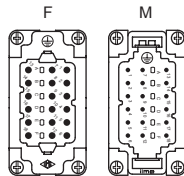
10A 400V 6kV 3
10A 400V/690V 6kV 2

- certified

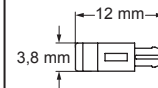
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40 \text{ }^\circ\text{C} \dots +125 \text{ }^\circ\text{C}$
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq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



contacts side (front view)



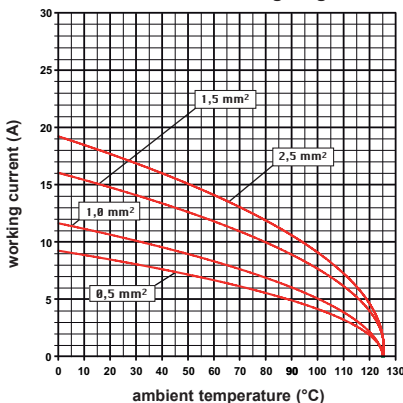
- inserts for conductors cross-sectional areas: 0,14 - 2,5 mm² - AWG 26 - 14
- for wires with crimped ferrule, usable section: up to 1,5 mm² (AWG 16)
- conductors stripping length: 9...11 mm



CDSH series - Coding with CR CDS pins

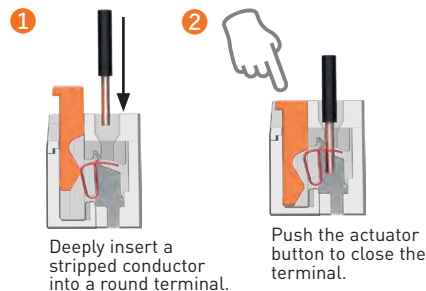
Size of connectors	Slots for coding pins (M) = male insert (F) = female insert	Required coding pins for each coupling	Possible codings
18P + ⊕	6 (M) + 6 (F)	6 3 (M) + 3 (F)	20

CDSH 18 poles connector inserts
Maximum current load derating diagram

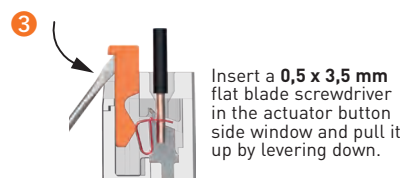


SQUICH®-spring connection technology

WIRING



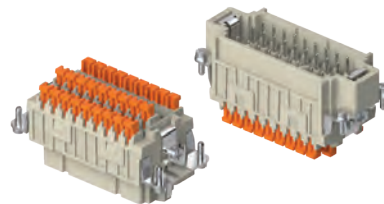
RE-OPENING



CDSH-SQUICH® 27 poles + ⊕ 10A - 400V

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: COB	page: 652 - 653

inserts, spring terminal connections without tools



coding pins



description	part No.	part No.
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spring terminals with actuator button
female inserts with female contacts
male inserts with male contacts

CDSHF 27
CDSHM 27

plastic coding pins

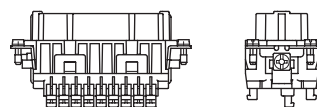
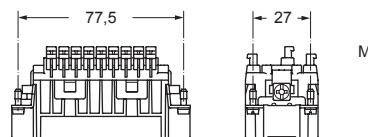
CR CDS

- characteristics according to EN 61984:

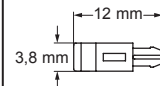
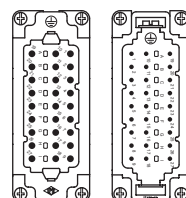
10A 400V 6kV 3
10A 400V/690V 6kV 2

- certified

- 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: ≥ 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)
F M

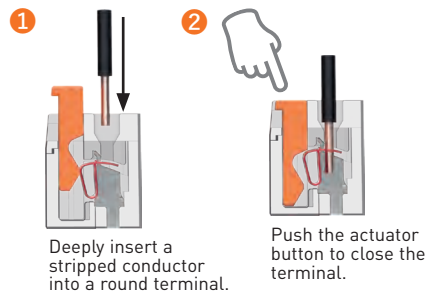


CDSH series - Coding with CR CDS pins

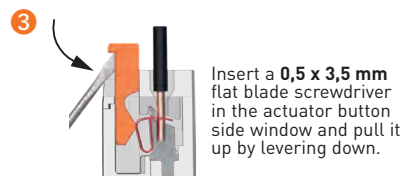
Size of connectors	Slots for coding pins (M) = male insert (F) = female insert	Required coding pins for each coupling	Possible codings
27P + ⊕	9 (M) + 9 (F)	9 5 (M) + 4 (F)	126

- inserts for conductors cross-sectional areas: 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

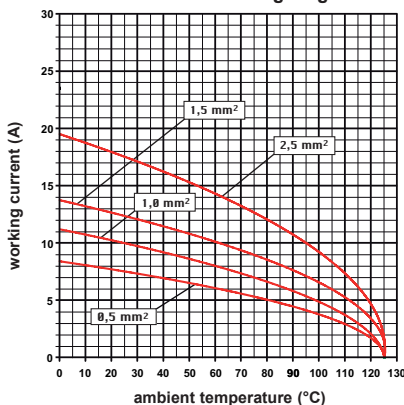
SQUICH®-spring connection technology WIRING



RE-OPENING



CDSH 27 poles connector inserts
Maximum current load derating diagram

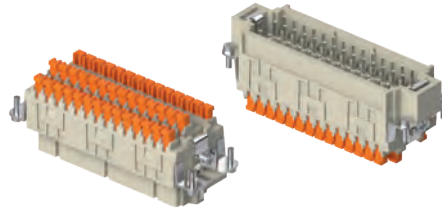


CDSH-SQUICH®

CDSH-SQUICH® 42 poles + ⊕ 10A - 400V

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 without tools

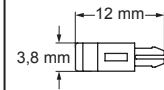
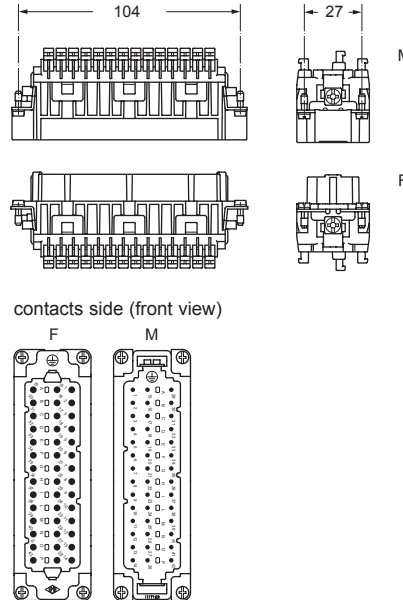


coding pins



description	part No.	part No.
spring terminals with actuator button	CDSHF 42	CR CDS
female inserts with female contacts	CDSHM 42	
male inserts with male contacts		
plastic coding pins		

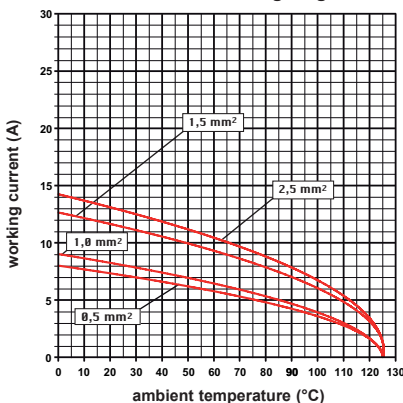
- characteristics according to EN 61984:
10A 400V 6kV 3
10A 400V/690V 6kV 2
- certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 3 mΩ
- for max. current load see the connector inserts derating diagram below; for more information see page 28



CDSH series - Coding with CR CDS pins

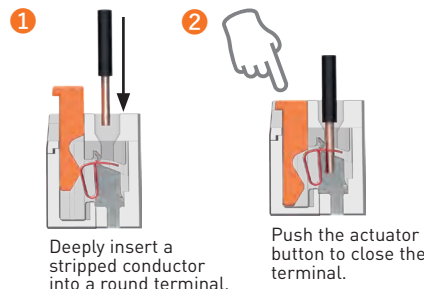
Size of connectors	Slots for coding pins (M) = male insert (F) = female insert	Required coding pins for each coupling	Possible codings
42P + ⊕	14 (M) + 14 (F)	14 7 (M) + 7 (F)	3.432

CDSH 42 poles connector inserts
Maximum current load derating diagram

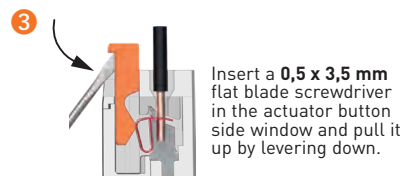


- inserts for conductors cross-sectional areas: 0,14 - 2,5 mm² - AWG 26 - 14
- for wires with crimped ferrule, usable section: up to 1,5 mm² (AWG 16)
- conductors stripping length: 9...11 mm

SQUICH®-spring connection technology WIRING



RE-OPENING



CDSH-SQUICH® 54 poles + ⊕ 10A - 400V

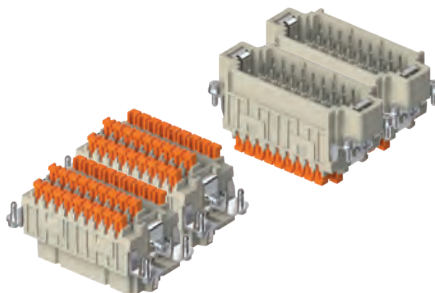
enclosures:
size "77.62"

page:

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

424 - 429
525
546

inserts, spring terminal connections without tools



coding pins



description

part No.

part No.

part No.

spring terminals with actuator button
female inserts with female contacts, No. (1-27) and (28-54)
male inserts with male contacts, No. (1-27) and (28-54)

CDSHF 27
CDSHM 27

CDSHF 27 N
CDSHM 27 N

plastic coding pins

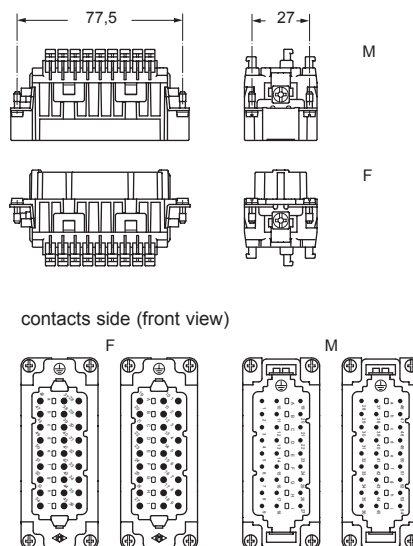
CR CDS

- characteristics according to EN 61984:

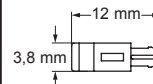
10A 400V 6kV 3
10A 400V/690V 6kV 2

- certified

- 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: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$
- for max. current load see the connector inserts derating diagram below; for more information see page 28



contacts side (front view)



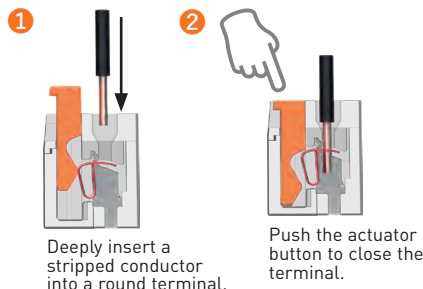
CDSH series - Coding with CR CDS pins

Size of connectors	Slots for coding pins (M) = male insert (F) = female insert	Required coding pins for each coupling	Possible codings
54P + ⊕			
27P + ⊕	9 (M) + 9 (F)	9 5 (M) + 4 (F)	126 x
27P + ⊕	9 (M) + 9 (F)	9 5 (M) + 4 (F)	126

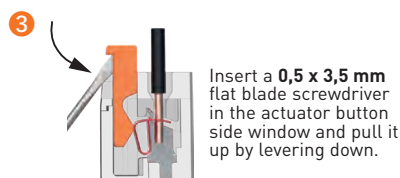
- inserts for conductors cross-sectional areas: 0,14 - 2,5 mm² - AWG 26 - 14
- for wires with crimped ferrule, usable section: up to 1,5 mm² (AWG 16)
- conductors stripping length: 9...11 mm

SQUICH®-spring connection technology

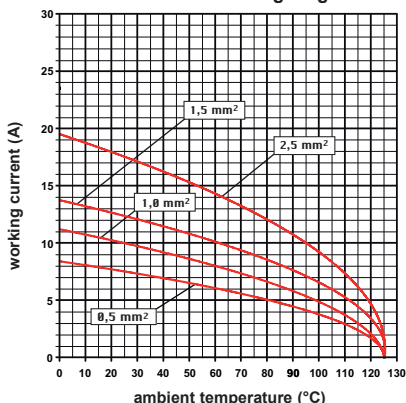
WIRING



RE-OPENING



CDSH 54 poles connector inserts
Maximum current load derating diagram



CDSH-SQUICH®

CDSH-SQUICH® 84 poles + ⊕ 10A - 400V

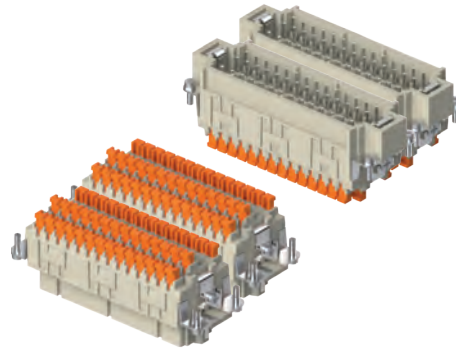
enclosures:
size "104.62"

page:

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

430
526
547

inserts, spring terminal connections without tools



coding pins



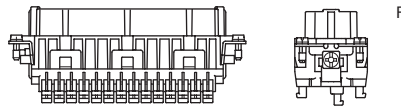
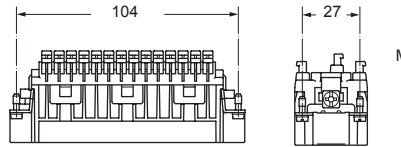
description	part No.	part No.	part No.
spring terminals with actuator button			
female inserts with female contacts, No. (1-42) and (43-84)	CDSHF 42	CDSHF 42 N	
male inserts with male contacts, No. (1-42) and (43-84)	CDSHM 42	CDSHM 42 N	
plastic coding pins			CR CDS

- characteristics according to EN 61984:

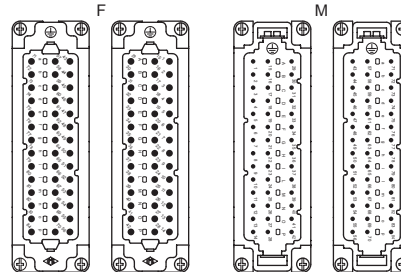
10A 400V 6kV 3
10A 400V/690V 6kV 2

- certified

- 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: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$
- for max. current load see the connector inserts derating diagram below; for more information see page 28

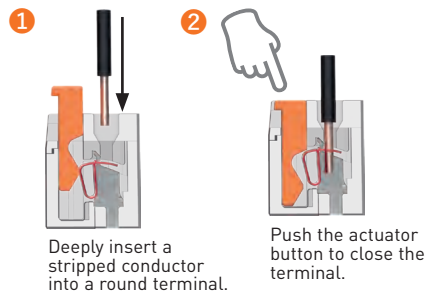


contacts side (front view)

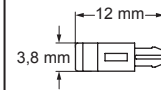
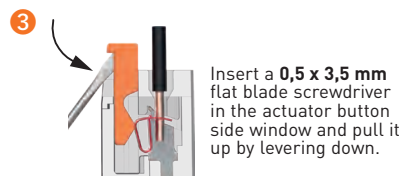


- inserts for conductors cross-sectional areas: $0,14 - 2,5 \text{ mm}^2$ - AWG 26 - 14
- for wires with crimped ferrule, usable section: up to $1,5 \text{ mm}^2$ (AWG 16)
- conductors stripping length: 9...11 mm

SQUICH®-spring connection technology WIRING



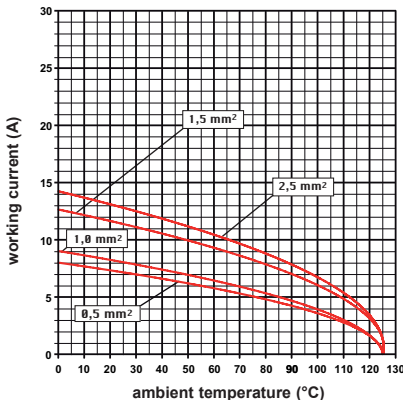
RE-OPENING



CDSH series - Coding with CR CDS pins

Size of connectors	Slots for coding pins (M) = male insert (F) = female insert	Required coding pins for each coupling	Possible codings
84P + ⊕			
42P + ⊕	14 (M) + 14 (F)	14 7 (M) + 7 (F)	3.432 x
42P + ⊕	14 (M) + 14 (F)	14 7 (M) + 7 (F)	3.432

CDSH 84 poles connector inserts
Maximum current load derating diagram



CDSH NC-SQUICH® series

3 contact pairs with an AutoShort NC contact element

ILME developed an **innovative connector suitable for interfacing measuring current transformers (CTs)** with the dedicated electronic measurement processing equipment. Use of such systems is increasing in transformer substations with the diffusion of smart grid concepts due to the growth of self-standing power generation plants (photovoltaic, wind).

The CDSH...NC connector has the **same dimensions of a 6 poles size "44.27" CSH connector**, and it is **easy to wire** thanks to ILME proprietary SQUICH® tool-less quick connection technology.

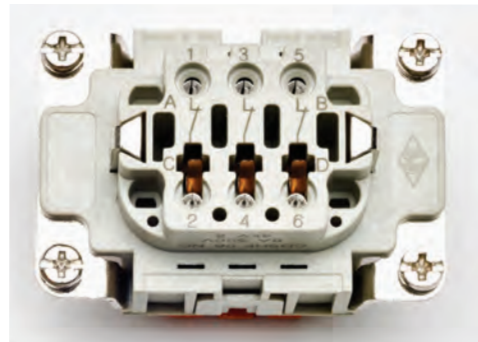
Inside the female insert, for each of the three contact pairs 1-2, 3-4 and 5-6, a **suitable spring element is foreseen**, providing a NC (normally closed) contact between the female contact pair. The said short-circuit element automatically establishes a short-circuit between the female contact pair while the connector is being unmated, before the complete withdrawal of the corresponding male connector.

This protects the measuring current transformer's secondary windings to which this connector is deemed to be wired, against the high voltage that would arise if the ends of each winding were left open while the primary winding (the power line busbars) are still under load.

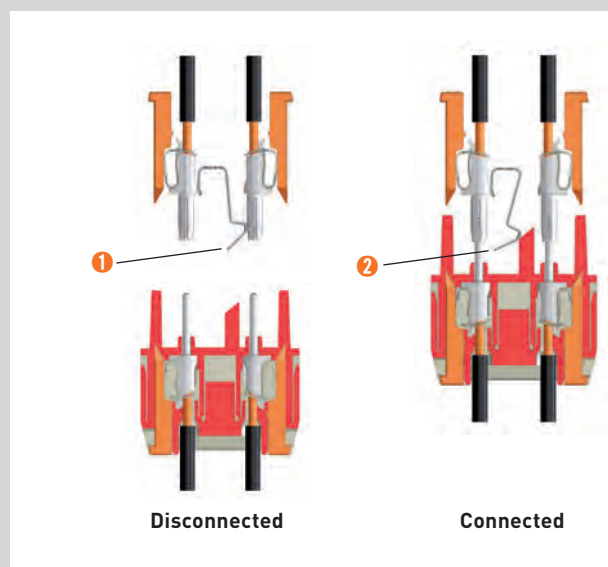
AUTOSHORT NC Operating principles

CDSH...NC connector can be used only for connecting up to three secondary (output) windings of measuring current transformers to specific measuring circuits; on the female side each contact pair is provided with said AutoShort NC contact element ① to keep the secondary winding ends shorted while the female connector is not engaged with the male connector, thus avoiding damages to the insulation of the current transformer and consequent hazardous condition for the personnel operating the unmating of the connector while the power busbars are energized. When the female and male connectors are being mated ②, the short-circuit is released after proper electrical engagement of the two connector halves, thus allowing again current measurement by the dedicated electronic measurement processing equipment wired on the male connector side.

The new connector inserts can be used in size "44.27" connector enclosures, either metal (conductive) or thermoplastics (insulating), with up to IP68 degree of protection (IP66/IP68 with series CG/MG), within enclosures for aggressive environments (series "W") or with up to IP66/IP69 within series T-TYPE HYGIENIC enclosures for hygienic applications.



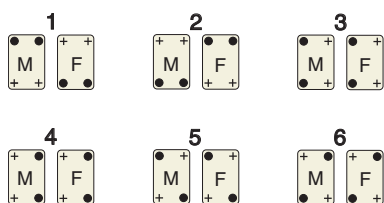
During the mating of these specially designed connector inserts, three corresponding actuator buttons realized on the mating face of the male connector, once the male contacts are already engaged with the corresponding female contacts, push aside the facing end of the AutoShort NC contact element, in order to release the short-circuit previously provided. In mated condition the proper termination of the secondary windings of the CT must be provided by the customer's downstream circuit, e.g. by suitable resistors.



AUTOSHORT NC Coding pins

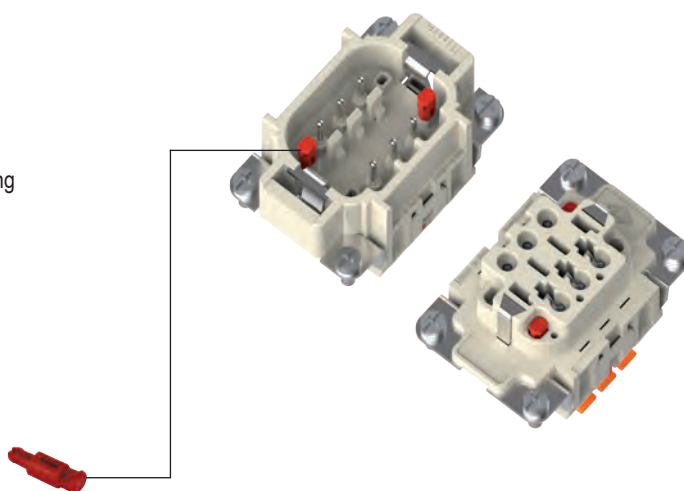
Optionally, it is possible to add **four special coding pins CR CDS** that allow up to 6 different codings, by installing 2 coding pins on the male connector half and correspondingly 2 on the female connector half, according to the coding scheme provided in the following:

CODING SCHEME



Legend

- = coding pin installed
- + = no coding pin



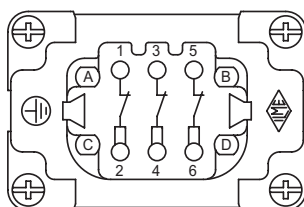
The CR CDS coding pins can also be used in combination with other CR 20 / CRM / CRF / CR 72 metal pins instead of insert fixing screws in order to increase the number of possible combinations.

AUTOSHORT NC PIN Assignment

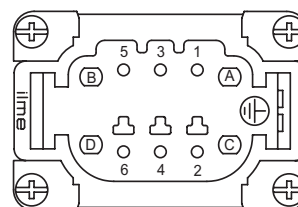
Female inserts with NC shorting contacts between contacts of pairs 1-2, 3-4, 5-6, opening upon with male inserts.
Pin assignment of contacts for the connector is the following:

Pin	Assignment
1	Winding 1 start
2	Winding 1 end
3	Winding 2 start
4	Winding 2 end
5	Winding 3 start
6	Winding 3 end
PE	⊕ Protective Earth

View from the contact side



Female



Male

CDSH NC-SQUICH® series

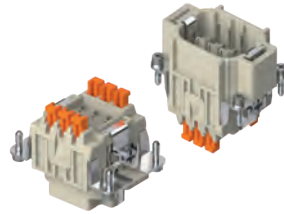
TECHNICAL FEATURES

Insert series	CDSH NC-SQUICH®
Electrical contacts	6 spring clamp type built-in contacts with actuator (SQUICH®) made by copper alloy, silver plated
Rated current	6A 250V 4kV 3; 6A 500V 4kV 2 according to EN 61984 Fault condition (rated short time thermal current): 50A for 1 s
Contact resistance (connector mated)	≤ 3 mΩ
Insulation resistance	≥ 10 GΩ
Ambient temperature limit (°C)	min. -40 max. +125
Degree of protection	IP20 (IPXXB) (connector without housing, in mated condition), IP65 or IP66 (connectors in T-TYPE housings), IP66 or more (connectors in ILME metal housings)
Conductor connections	3 pairs of contacts (with autoshunt on each pair of female connector), plus protective earth, size 44.27 housings
Conductor cross-sectional area	0,14 - 2,5 mm ² (AWG 26 - 14) for solid or unprepared stranded copperwires 0,14 - 1,5 mm ² (AWG 26 - 16) for stranded copper wires prepared with ferrules
Flammability	94V-0 according to UL 94
Mechanical endurance (mating cycles)	≥ 50

CDSH NC-SQUICH® 6 poles + ⊕ 6A - 250V

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 clamp connections with actuator
button, female inserts with NC shorting
contacts



coding pins



Q SILVER PLATED CONTACTS

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

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

CDSHF 06 NC
CDSHM 06 NC

plastic coding pins

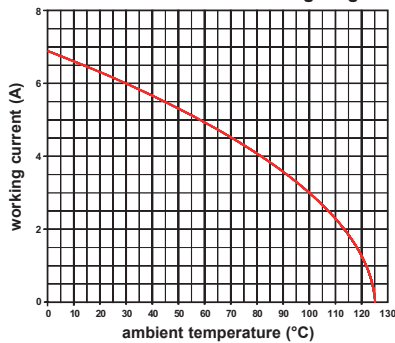
CR CDS

- characteristics according to EN 61984:

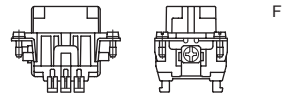
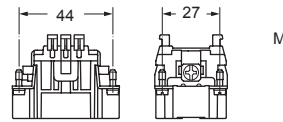
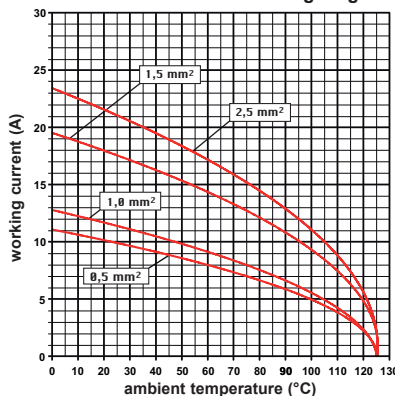
6A 250V 4kV 3
6A 500V 4kV 2
10A with connector mated

- certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: -40 °C ... +125 °C
- made of self-extinguishing thermoplastic resin 94V-0 according to UL 94
- mechanical life: ≥ 50 cycles
- contact resistance: $\leq 3 \text{ m}\Omega$
- NC = Normally Closed
- the diagrams (1) and (2) below show respectively the maximum current-carrying capacity:
- (1) of the AutoShort female connector uncoupled, with the three NC contacts that short circuit the individual circuits upstream wired in series on each contact pair. In this condition the AutoShort connector can be loaded up to 6 A. For this maximum current it can be wired from 0,75 mm² / 18 AWG through 2,5 mm² / 14 AWG with no significant performance differences;
- (2) of the AutoShort female connector coupled to the corresponding male AutoShort connector (NC contacts open) (for further information see page 28).

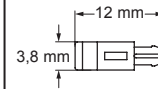
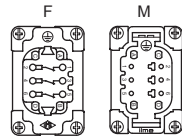
(1) CDSHF NC 06 poles connector inserts
Maximum current load derating diagram



(2) CDSHF NC 06 poles connector inserts
Maximum current load derating diagram

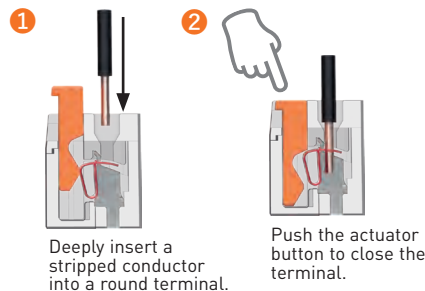


contacts side (front view)



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

SQUICH®-spring connection technology WIRING



RE-OPENING

