



Main catalogue

ESSAILEC® range

Test blocks

**Power and productivity
for a better world™**

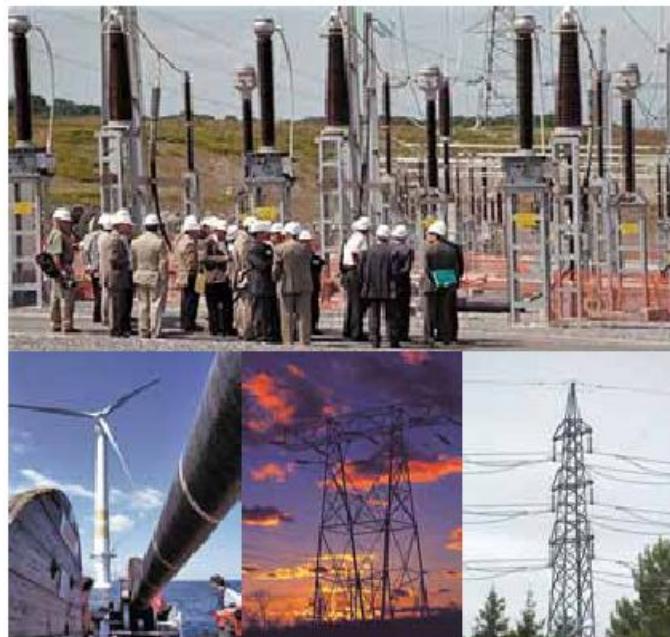
ABB

Essailec[®], Test blocks

ESSAILEC[®] has been especially designed to fit the electricity Utilities requirements for safe and reliable testing.

ESSAILEC[®] allows the testing, without any circuit break, of meters and protective relays installed in the current transformers and voltage transformers secondary circuits.

ESSAILEC[®] has been approved by major Utilities and has been successfully implemented for years in worldwide electricity production, transport and distribution networks.



Applications:

- Measurement, current or voltage injection, repair, device replacement.
- Current testing without cutting the energy supply.
- Voltage testing with the possibility of cutting or not the energy supply to the device according to the voltage sockets implemented.
- Simultaneous testing of 1 to 4 independent circuits on the same socket.
- The test plug can also be connected continuously to the socket in order to supply current or voltage to secondary circuits sub assemblies.

Characteristics and benefits:

- Fast and easy testing procedure.
- No cursor or switch element to operate manually: the current transformers short circuiting is automatically performed in the correct sequence with the current socket with "make before break contacts".

Security for the operator:

- IP20 protection degree.
- Coding protection.
- Locking system.
- Sealed cover.
- Range and versions product identification with marking and colour coding.

Flexibility:

- Panel and switchboard mounting: base mounting, flush mounting, rack mounting, din rail...
- Several wiring technologies, wire connection up to 10 mm².

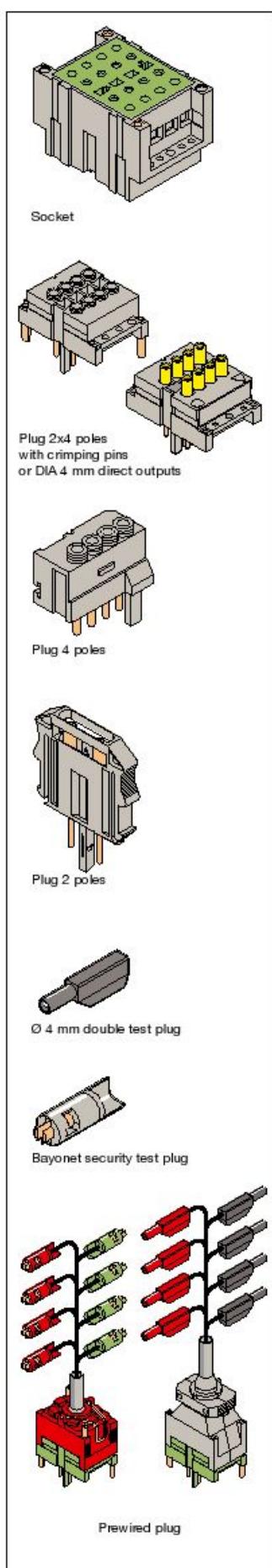
ESSAILEC® Test blocks

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ESSAILEC®

Generalities



Socket

The ESSAILEC® socket is installed in the circuit and wired to the device to be tested during its installation or its servicing. The use of the cover is strongly recommended in order to prevent unauthorized access.

The sockets are available in the following designs:

- Socket with "make before break" contact design, available in the Current and Voltage ranges.
- Socket with "opened" ("break before make") contact design, available in Voltage range.
- Socket with "closed" contact design, available in Voltage range.

Plug

The plug is connected on its other extremity to the test equipment. For testing, the cover is removed and replaced by the test plug.

The test plugs are available in the following designs:

- 2x4 poles plug: allows the testing of 4 current or voltage circuits.
- 4 poles plug: allows the testing of 4 voltage circuits.
- 2 poles plug: allows the testing of 1 current or voltage circuit.

Compatibility between the socket and plug designs:

Circuit type	Contacts socket	2 x 4 poles plug	4 poles plug
Current ■	Make before break	Measurement Calibration Distribution	
	Make before break	Measurement Calibration Distribution	
	Opened	Measurement Calibration	Measurement Calibration
	Closed		Measurement Distribution

Test accessories and prewired plug

The ESSAILEC® range offers a wide range of test accessories as well as prewired plugs with the following test accessories wired on its test equipment extremity:

- Security bayonet test plug (bayonet locking mechanism in the test equipment for maximized security during the testing).
- Ø 4mm IP20 test plug.

The security test plugs can be connected together with the use of two accessories: straight and H adapters. The purpose of these two accessories is to offer extra test configurations with the prewired plug.

Socket identification:

CC-E-VA-6.6

CIRCUIT TYPE:

- C: Current
T: Voltage
P: Polarity
DE: Trip



MOUNTING:

- TH35 : Symetrical rail TH35
DS: Half-base / Base
E: Flush
D: Half-base
R: Rack
I: Reverse

CODING:

- 6.6: Current
2.2: Voltage
8.8: Polarity

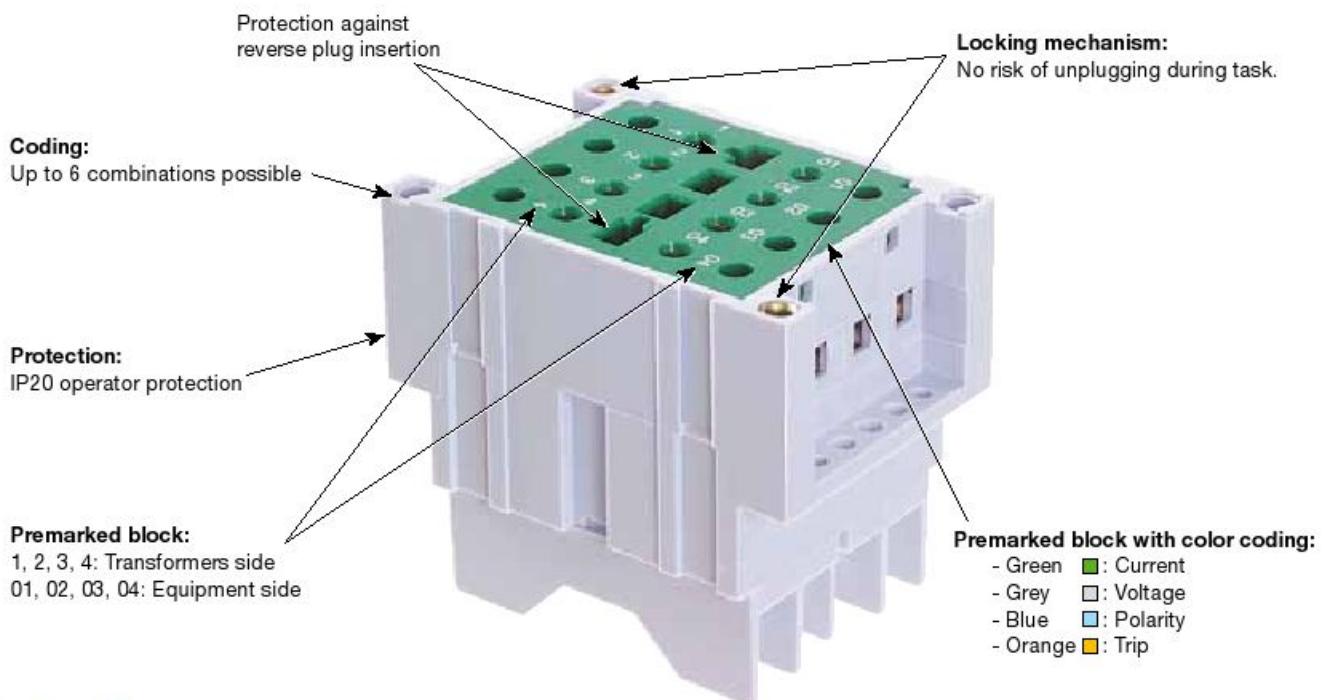
CONTACTS:

- C: Make before break
O: Opened
F: Closed

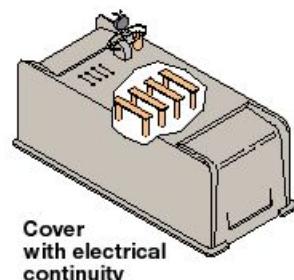
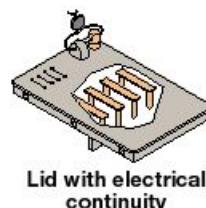
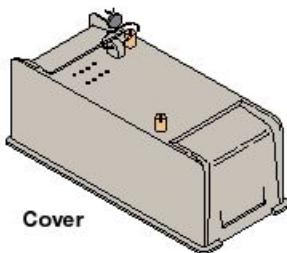
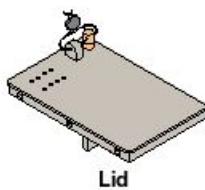
CONNECTION:

- VA: Ring-tongue
VL: Screw clamp
C5A: Quick-connect

Socket features



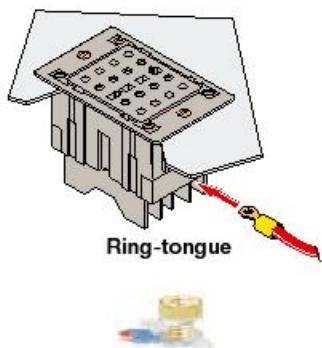
Protection



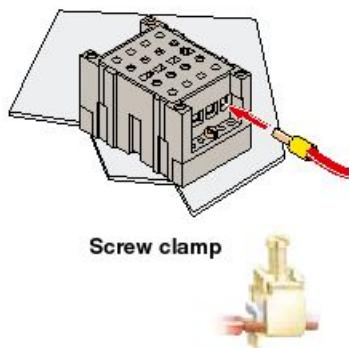
Provide dust protection and prevent unauthorised access (lead seal).

Lid and cover with electrical continuity, to be mounted on opened contacts socket.
Provide the electrical continuity thanks to the inner pins and linking bar that close the circuit.

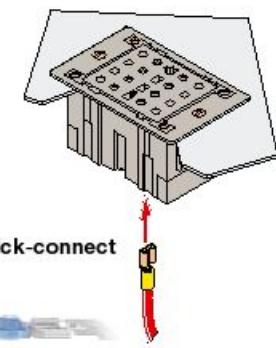
Connection technologies



Compatible with flush, rack, half-base and reverse mounting.
Benefits: Wire pulling safe.



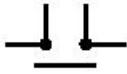
Compatible with base and half-base mounting and G32 & TH35 rails.
Benefits: Universal connecting technology.



Compatible with flush, rack and half-base mounting.
Benefits: Quick and vibration safe.

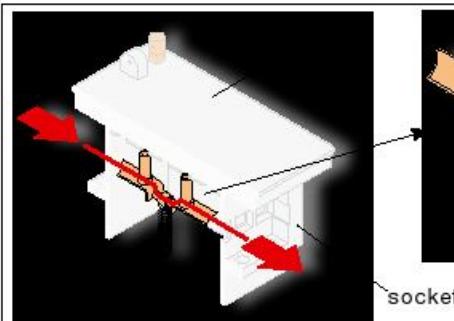
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Test principle: Make before break



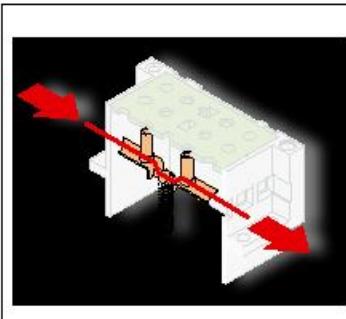
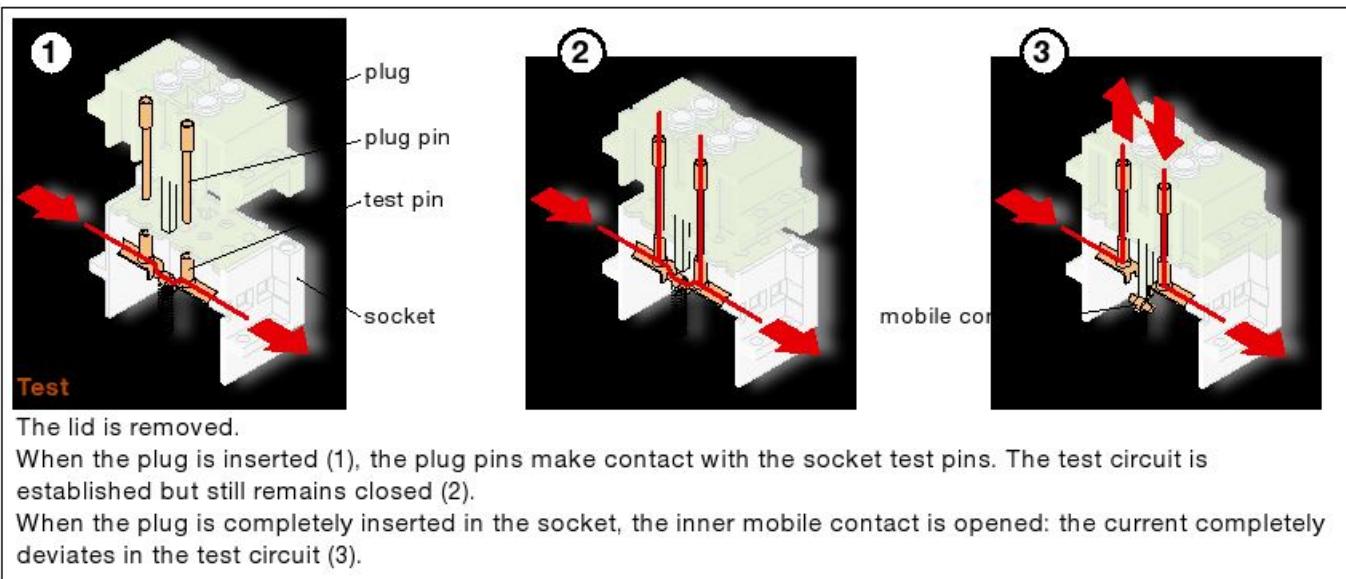
Applications:

- Measurement
- Injection
- Distribution



Servicing

During normal servicing, the socket with make before break contact design supplies energy to the device. The lid is installed and sealed.

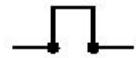


Re servicing

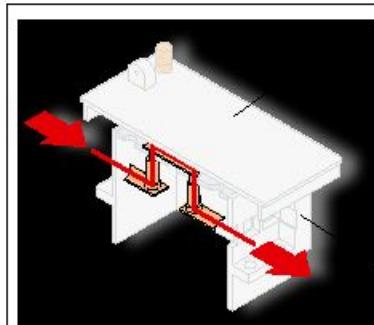
Thanks to the inner mobile contact the circuit will close automatically when the plug is removed.

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Test principle: Break before make (opened)

**Applications:**

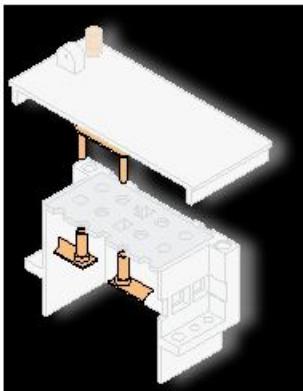
- Measurement
- Injection

**Servicing**

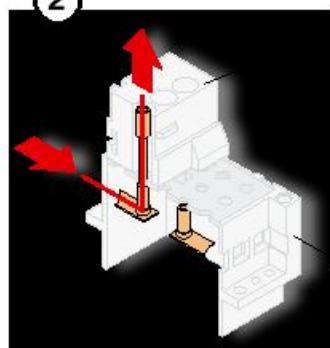
During normal functioning, electrical continuity is ensured by the lid with electrical continuity mounted on the socket.

socket

①

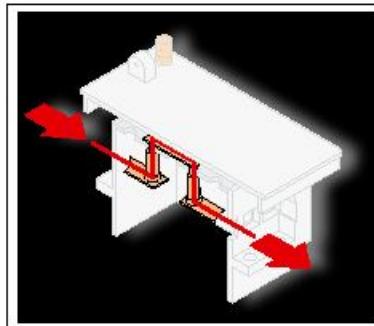


②

**Test**

The removing of the lid opens the circuit (1).

The device to be tested is then isolated from the power supply (transformer) and is no longer energised (2).

**Re servicing**

When the test is finished, the circuit is closed when the lid is reinstalled.



Test principle: Closed contacts

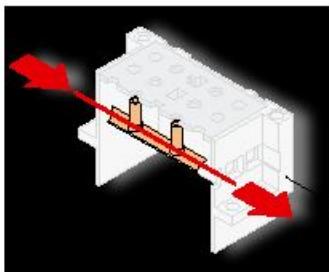
Closed contacts:

The electrical connection is continuous.
This socket is particularly suitable for power distribution.



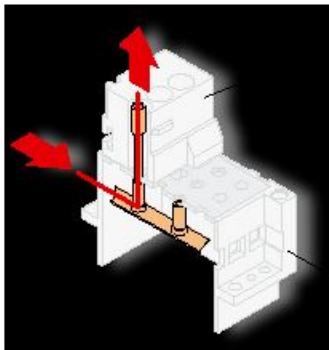
Applications:

- Measurement
- Distribution



Servicing

The electrical connection is continuous: removing or fitting the lid does not have any impact on the circuits.



Test

The measurement is performed by the insertion of the 4 poles test plug.

Re servicing

No particular procedure.

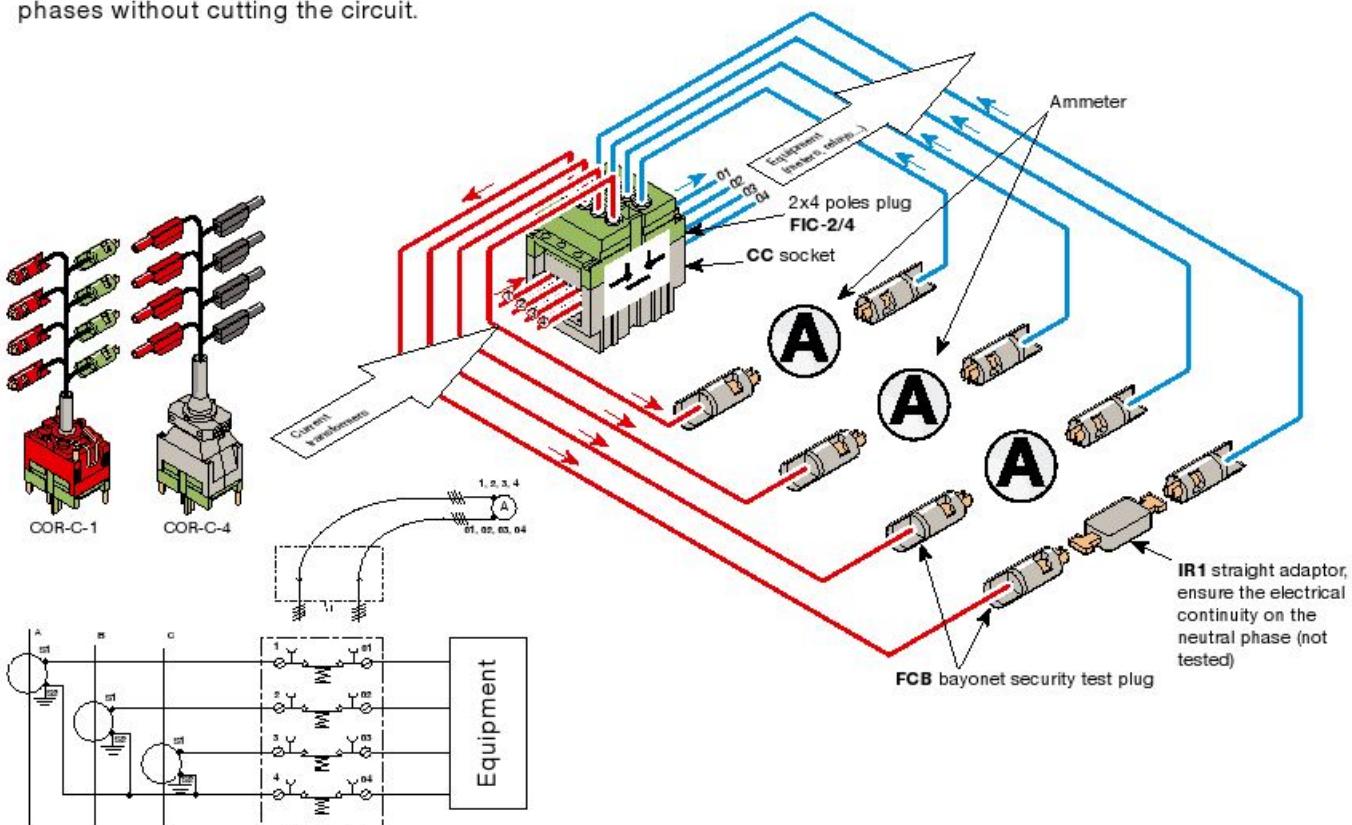
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Current range: examples of applications



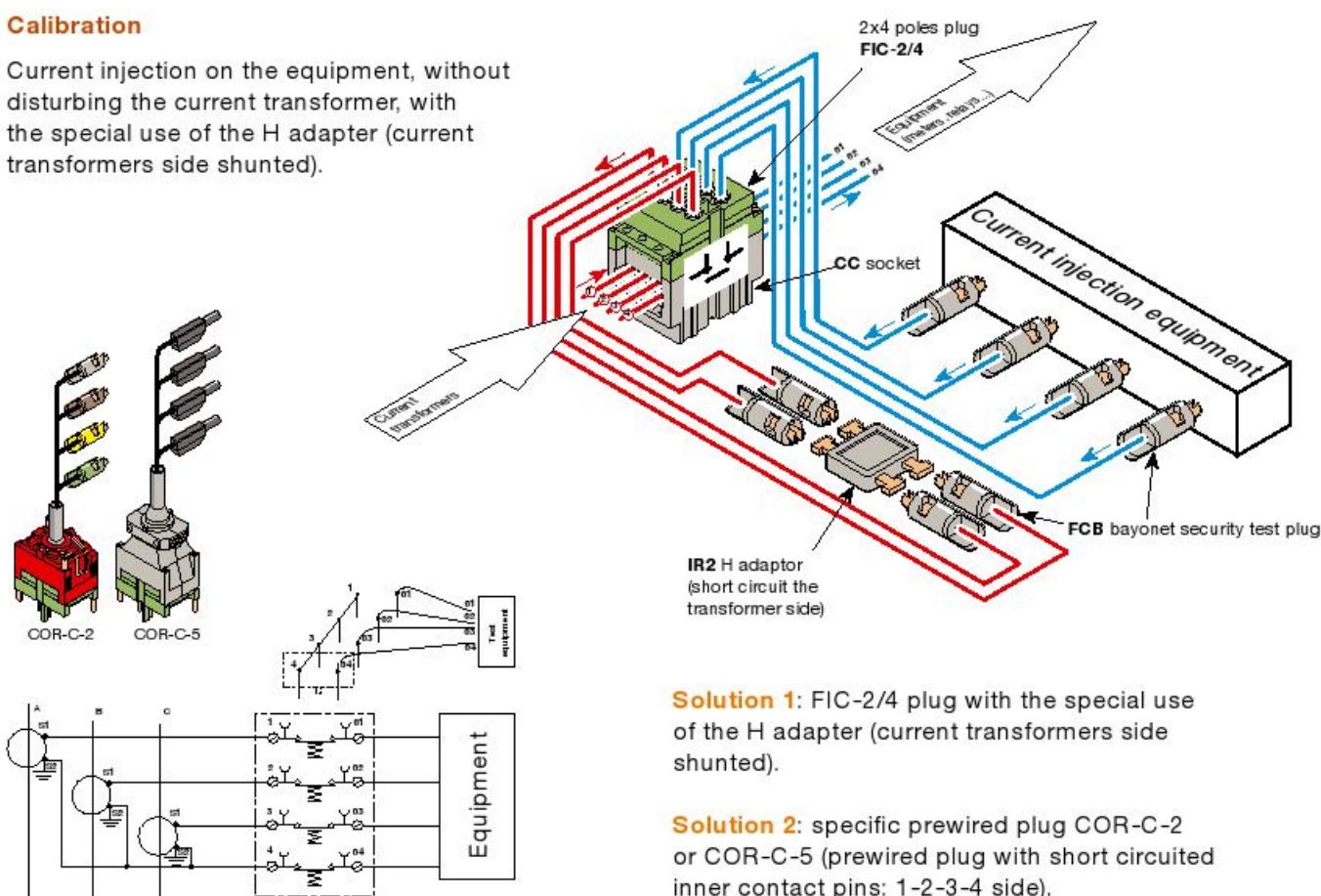
Measurement

Simultaneous current measurement on 3 phases without cutting the circuit.



Calibration

Current injection on the equipment, without disturbing the current transformer, with the special use of the H adapter (current transformers side shunted).



Solution 1: FIC-2/4 plug with the special use of the H adapter (current transformers side shunted).

Solution 2: specific prewired plug COR-C-2 or COR-C-5 (prewired plug with short circuited inner contact pins: 1-2-3-4 side).

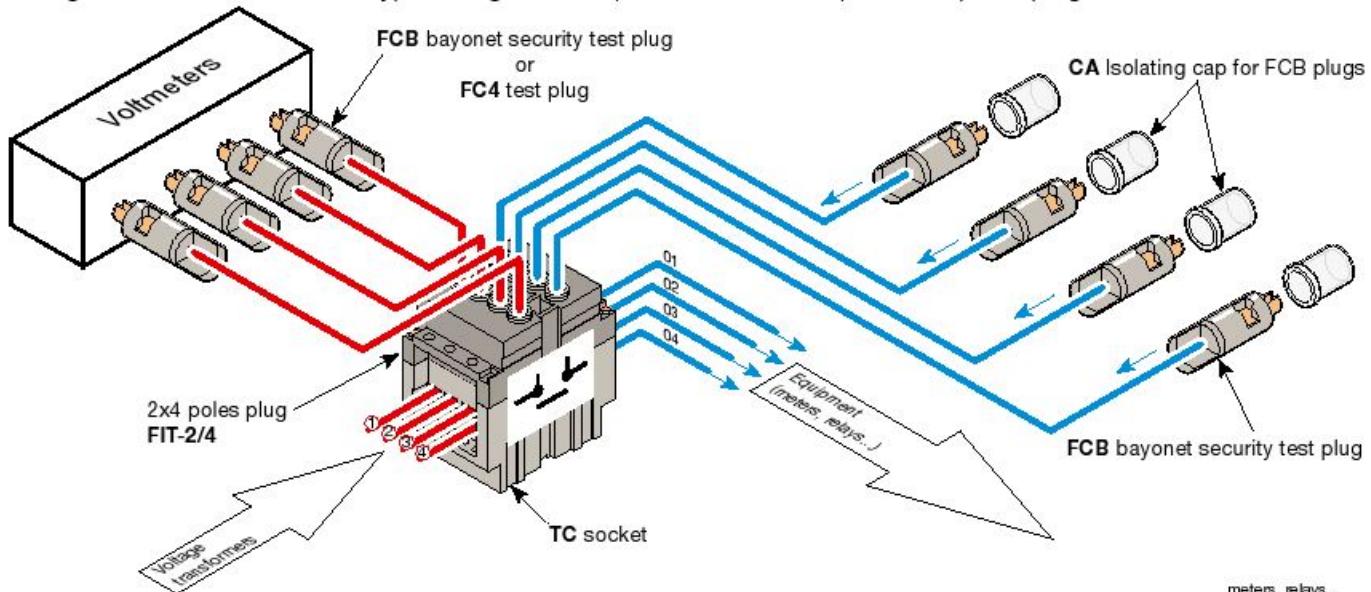
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Voltage range: examples of applications

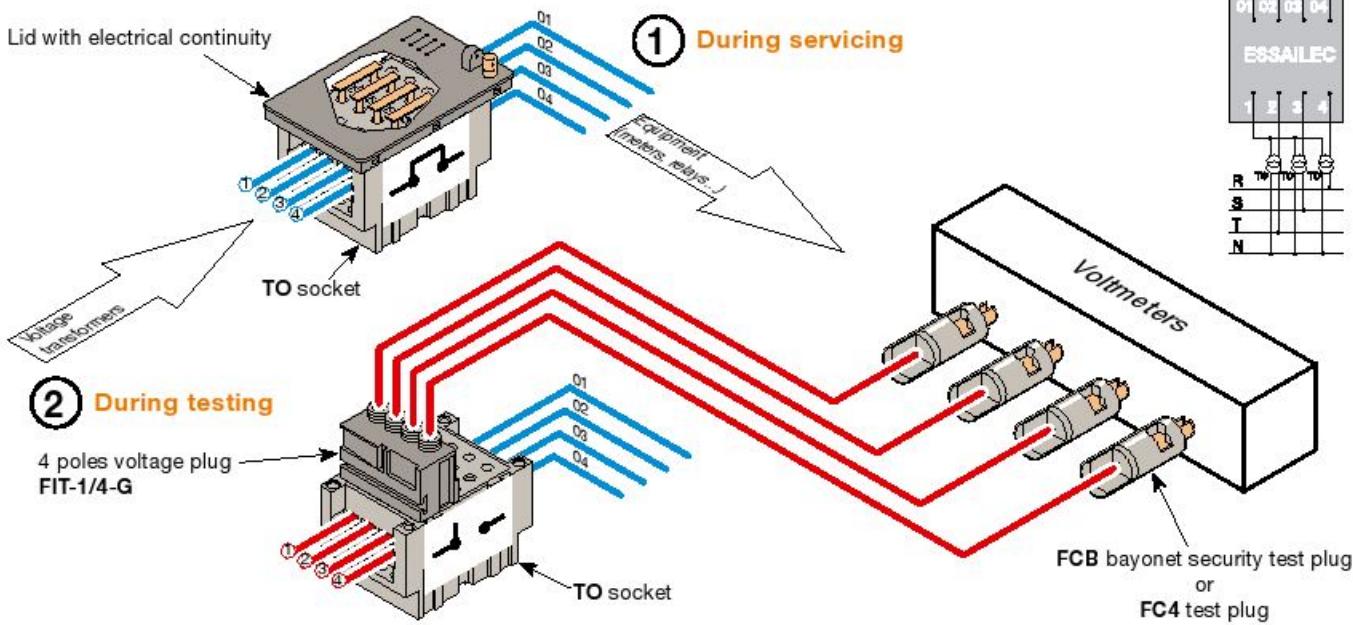


Measurement

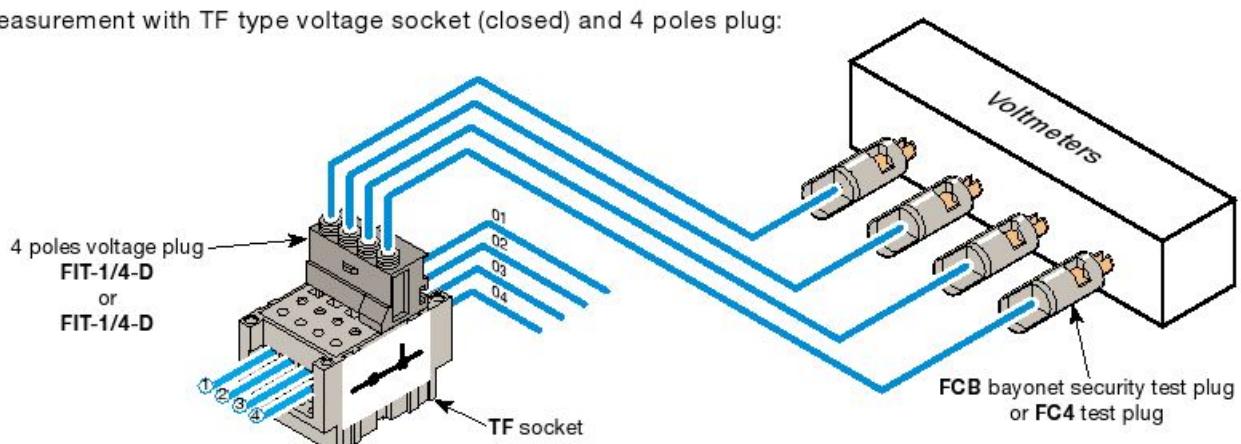
Voltage measurement with TC type voltage socket (make before break) and 2x4 poles plug:



Voltage measurement with TO type voltage socket (opened) and 4 poles plug:



Voltage measurement with TF type voltage socket (closed) and 4 poles plug:



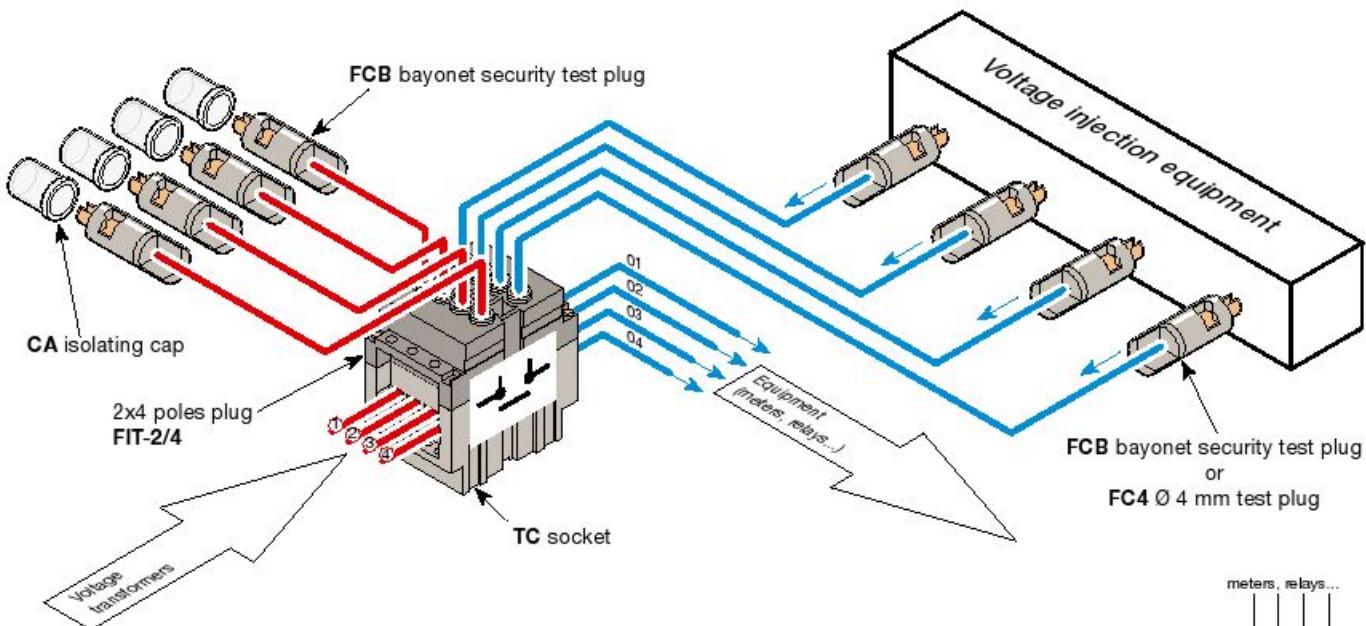
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Voltage range: examples of applications



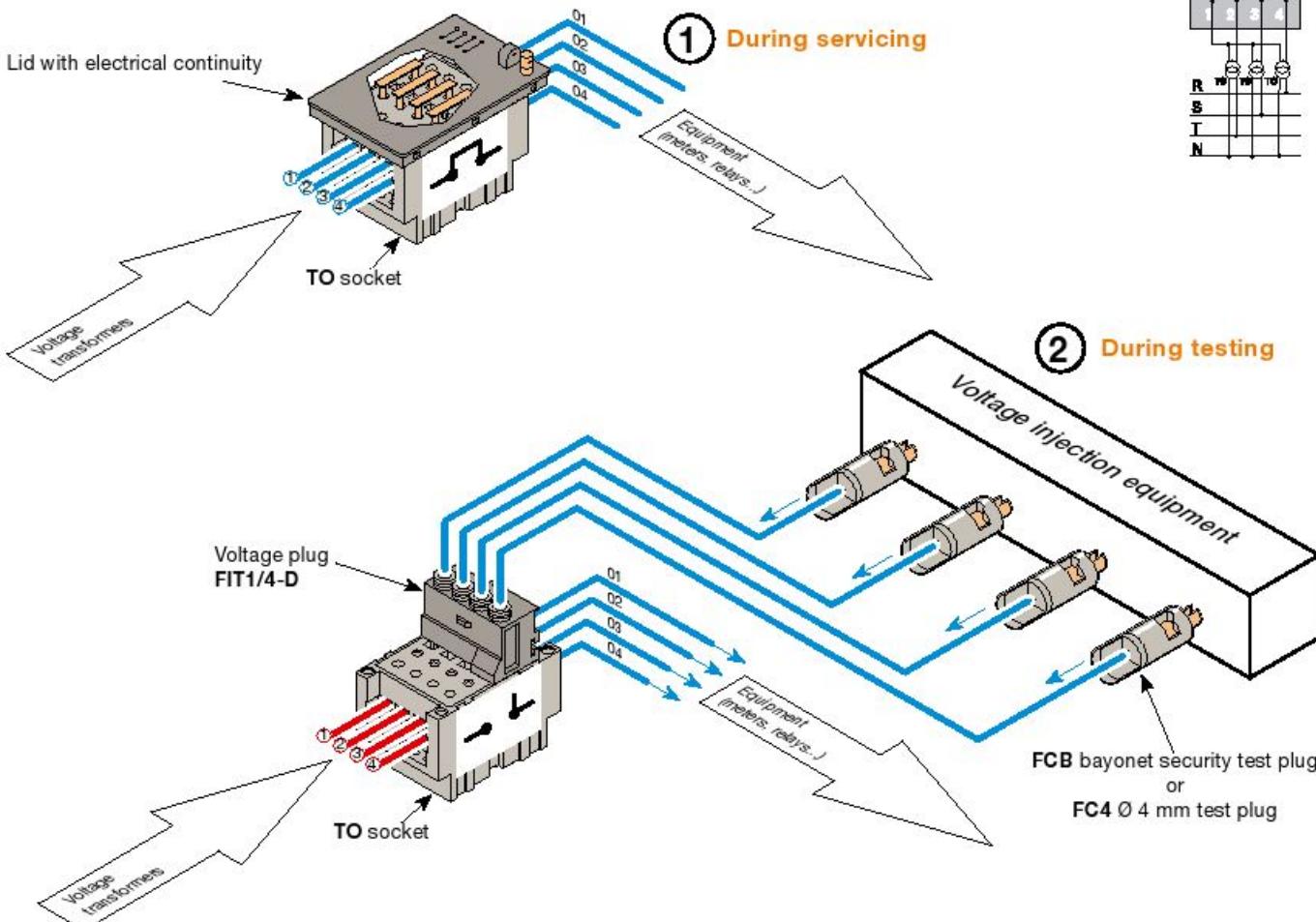
Calibration

Voltage injection with TC type voltage socket (make before break) and 2x4 poles plug.



Calibration

Voltage injection with TO type socket (opened) and 4 poles plug.

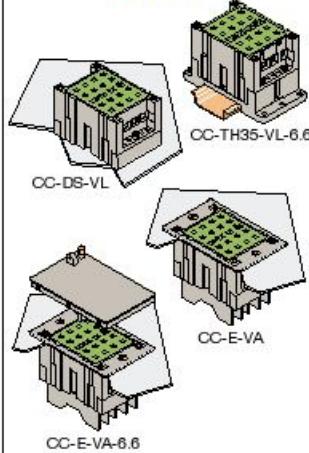


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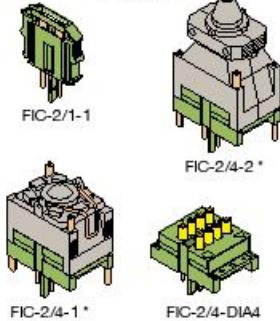
Current range



Sockets

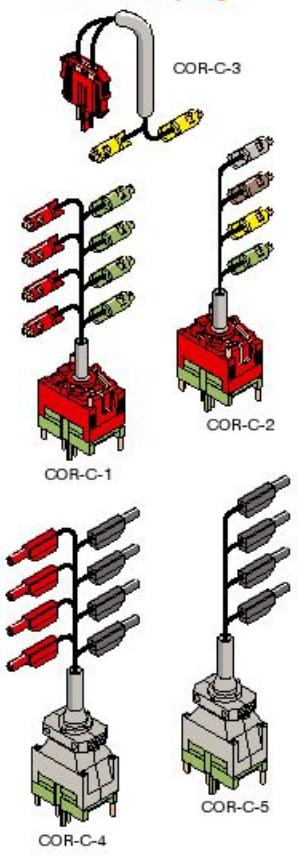


Plugs



* The BRE contacts pins are to be ordered separately

Prewired plugs



Make before break

Current range color code: Green ■
Body: Polycarbonate
Conductive parts: Gold-plated

Technical data

	IEC 947-1	
	Socket	Plug
Connecting capacity	Rigid conductor Flexible conductor	
Wire stripping length	Screw clamp (VL) 0.2 - 6 mm ² 0.22 - 4 mm ²	Ring-tongue (VA) 0.34 - 10 mm ²
Recommended screwdriver		
Recommended torque	9.5 mm / .370"	See Datasheet 1SNC 169 040 D1701
Ø	4 mm / .157"	0.5-0.8 Nm / 4.4-7.1 lb.in
Width		Ø 3 mm
Rated voltage		7.5 mm
Impulse withstand voltage		400 V
Pollution degree		4 KV
Rated current		3
Short-circuit current		15 A
Storage temperature range		100 A/5 s - 200 A/1 s
Working temperature range		-25 °C ~ +70 °C
Front panel protection	with cover without cover	-10 °C ~ +55 °C
		IP40
		IP20

Ordering details

Description	Type	Order code	Packaging	Weight kg
Sockets (a)				
TH35 rail mounting	Screw	CC-TH35-VL-6.6 1SNA 166 963 R0000	1	0.11
Half-base mounting / base mounting	Screw	CC-DS-VL 1SNA 166 500 R0000	1	0.1
Flush mounting	R.tongue	CC-E-VA 1SNA 166 737 R2000	1	0.15
Half-base mounting	R.tongue	CC-D-VA 1SNA 166 738 R0100	1	0.09
Rack mounting	R.tongue	CC-R-VA 1SNA 166 523 R1200	1	
Reverse mounting	R.tongue	CC-I-VA-2 1SNA 166 941 R2500	1	
Flush mounting	R.tongue	CC-E-VA-6.6 1SNA 166 625 R2000		
with lid and coding 6.6		Other preequipped sockets: consult us		

Plugs

Plug 2 poles with 2.5 mm ² pins	FIC-2/1-1	1SNA 166 819 R2300	1	
Plug 2x4 poles (b)	FIC-2/4-2	1SNA 166 936 R1000	1	0.11
Plug 2x4 poles (b)	FIC-2/4-1	1SNA 166 525 R1400	1	0.09
Plug 2x4 poles, rack mounting R (b)	FIC-2/4-R	1SNA 166 529 R2000	1	
Plug 2x4 poles, reverse mounting I (b)	FIC-2/4-I	1SNA 166 589 R2500	1	
Plug 2x4 poles, with direct insertion Dia. 4 mm	FIC-2/4-DIA4	1SNA 167 937 R0000	1	0.064

Please refer to selection guide for socket compatibility

Prewired plugs (c)

2 poles prewired plug made of: 1 plug 2 poles 2 bayonet security test plugs	Red ■ Yellow ■	COR-C-3 FIC-2/1-1 FCB..	1SNA 166 643 R0200	1	
2x4 poles prewired plug made of: 1 plug 2x4 poles 4 bayonet security test plugs	Green ■ Green ■ Red ■	COR-C-1 FIC-2/4-1 FCB..	1SNA 166 638 R0500	1	0.87
2x4 poles prewired plug made of: 1 plug 2x4 poles 4 x Ø 4 mm test plugs	Green ■ Black ■ Red ■	COR-C-4 FIC-2/4-2 FC4-5 FC4-4	1SNA 167 932 R1500	1	0.87
2x4 poles prewired plug for injection made of: 1 plug 2x4 poles with 4 short circuited pins (1-2-3-4)	Green ■	COR-C-2 FIC-2/4-1	1SNA 166 778 R1100	1	0.47
1 bayonet security test plug 1 bayonet security test plug 1 bayonet security test plug 1 bayonet security test plug	Green ■ Grey □ Brown ■ Yellow ■	FCB.. FCB.. FCB.. FCB..			
2x4 poles prewired plug for injection made of: 1 plug 2x4 poles with 4 short circuited pins (1-2-3-4) 4 x Ø 4 mm test plugs	Green ■ Black ■	COR-C-5 FIC-2/4-2 FC4-5	1SNA 167 934 R1700	1	0.47

(a) The various accessories necessary for each mounting option are supplied with the socket as well as the 2 coding pins COP-E-1 (see coding section). For rack and reverse mounting sockets drawing, refer to "Outer dimensions, mounting instructions" section.

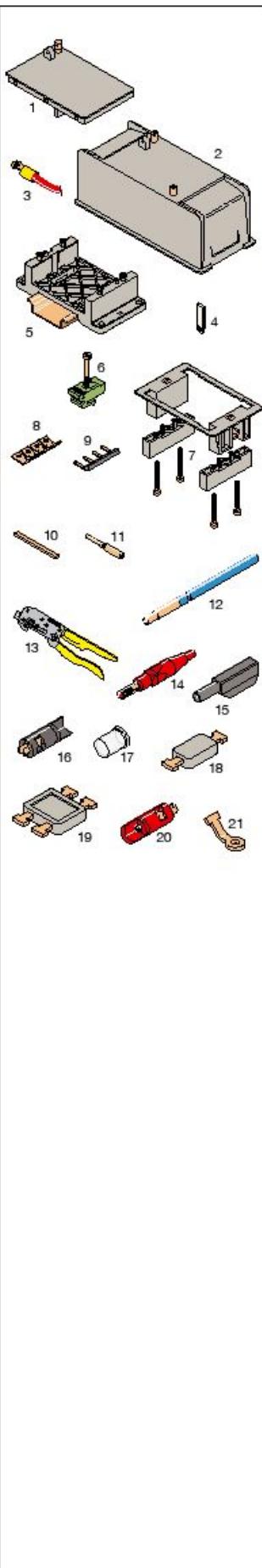
(b) Plugs supplied with 8 locking pins and 2 coding pins COP-F-1, the BRE contacts pins are to be ordered separately.

(c) Cable length: 2m/6.6" - Conductors section: 2.5 mm², all conductors marked (marking begins with 0 on the equipment side) - Pre-coded: 6.6.

Caution: The prewired test leads must be connected to the equipment prior to the insertion of the ESSAILEC® prewired plug on the socket.

ESSAILEC®

Current range



Accessories

Rep. Description	Type	Order code	Packaging	Weight kg	
For sockets					
1 Lid	CPC-1	1SNA 166 578 R0100	1		
2 Cover (a)	CPC-7	1SNA 166 734 R2500	1	0.07	
3 Ring-tongue lug for 10 mm ² wire	CS-10	1SNA 167 700 R1100	10		
4 Socket interlocking peg	CVABM	1SNA 183 436 R0500	10		
5 TH35 rail mounting kit	KEM-3	1SNA 166 962 R0000	10	0.02	
6 Mounting kit for DIN 1 rail (a)	FX	1SNA 167 682 R2300	10		
7 Replacement kit for flush mounting (b)	KEM-1	1SNA 166 928 R2000	50	0.02	
8 Comb-type jumper bar (b)	PCVA	1SNA 167 496 R1100	10		
9 Comb-type jumper bar IP20 (c)	PCVL	1SNA 167 681 R2200	10		
10 Jumper bar for 2 sockets (c)	BJ-VL	1SNA 167 680 R0500	10		
For plugs					
11 Pin 1 mm ²	BRE-C-1	1SNA 167 264 R0700	10		
Pin 1.5 mm ²	BRE-C-1.5	1SNA 167 265 R0000	10		
Pin 2.5 mm ²	BRE-C-2.5	1SNA 167 260 R1700	10		
Pin 4 mm ²	BRE-C-4	1SNA 205 876 R0400	10		
Pin 6 mm ²	BRE-C-6	1SNA 168 146 R0200	10		
12 Pin extraction tool	EXBR1	1SNA 167 008 R0300	1		
13 Crimping tool for BRE pins	PSC	1SNA 173 181 R1300	1		
For test					
Ø 4 mm test plugs					
14 IP20 with mobile protection	Red ■	FC4-1	1SNA 167 927 R1000	10	0.01
15 IP20 with permanent protection	Black ■	FC4-5	1SNA 167 931 R1400	10	0.01
	Red ■	FC4-4	1SNA 167 930 R2700	10	0.01
16 Bayonet security test plug	Black ■	FCB-1	1SNA 167 690 R0700	10	0.01
	Red ■	FCB-2	1SNA 167 692 R2500	10	0.01
17 Isolating cap for FCB plug	CA	1SNA 167 697 R2200	10		
18 Straight adaptor	IR1	1SNA 167 622 R2600	1	5	
19 H adaptor	IR2	1SNA 167 623 R2700		5	
20 Isolating cap for IR1 & IR2 adaptors	DI	1SNA 167 981 R1700	10	0.01	
21 Adaptor between FCB plug and ring-tongue test interface	IR3	1SNA 167 624 R2000		10	

(a) Compatible with base mounting only.

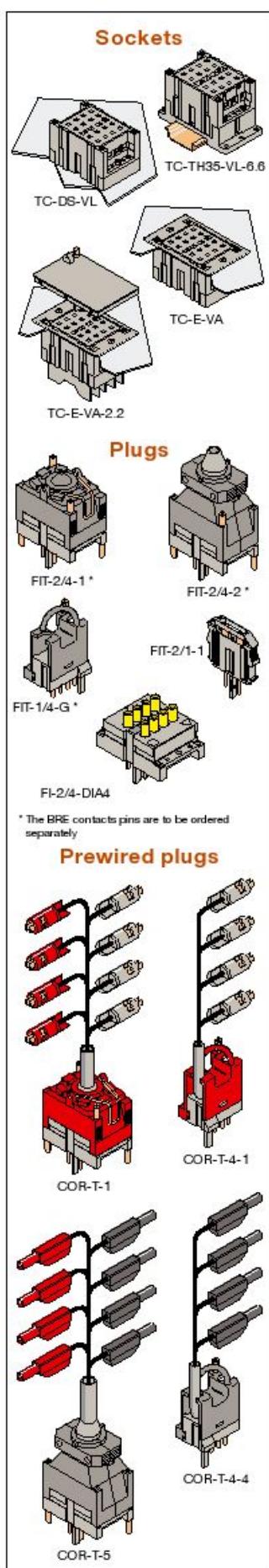
(b) Compatible with ring-tongue connection type socket only (VA).

(c) Compatible with screw connection type socket only (VL).

Selection guide

Mounting	Sockets	Plugs						
		CPC-1	CPC-7					
TH35 Rail	CC-TH35-VL-6.6	•	•	•	•	•	•	
Base Half-base	CC-DS-VL	•	•*	•	•	•	•	
Flush	CC-E-VA	•		•	•	•	•	
Half-base	CC-D-VA	•		•	•	•	•	
Rack	CC-R-VA			•	•			•
Reverse	CC-I-VA-2				•			•
Flush with lid	CC-E-VA-6.6			•	•	•	•	

* Nota: CPC-7 compatible with CC-DS-VL socket only in "base" mounting option.



Contacts:

- Make before break
- Opened
- Closed

Voltage range color code: Grey
 Body: Polycarbonate
 Conductive parts: Silver-plated

Technical data

Connecting capacity	Rigid conductor Flexible conductor	IEC 947-1		Plug Pin BRE
		Socket	Ring-tongue (VA)	
Wire stripping length		Screw clamp (VL) 0.2 - 6 mm ² 0.22 - 4 mm ²	0.34 - 10 mm ²	
wire 0.22 - 0.34 mm ²	9.5 mm / .370"			
wire 0.75 - 6 mm ²				See Datasheet 1SNC 169 040 D1701
Recommended screwdriver		4 mm / .157"		
Recommended torque		0.5-0.8 Nm / 4.4-7.1 lb.in		
Ø			Ø 3 mm	
Width			7.5 mm	
Rated voltage			400 V	
Impulse withstand voltage			4 KV	
Pollution degree			3	
Rated current			8 A	
Short-circuit current			25 A/5 s - 800 A/25 ms	
Storage temperature range			-25 °C ~ +70 °C	
Working temperature range			-10 °C ~ +55 °C	
Front panel protection	with cover without cover			IP40 IP20

Ordering details

Description	Type	Order code	Packaging	Weight kg	
Sockets (a)					
TH35 rail mounting short circuited contacts	Screw	TC-TH35-VL	1SNA 166 964 R0000	1	0.11
Half-base mounting / base mounting	Screw				
opened contacts		TO-DS-VL	1SNA 166 741 R0400	1	0.1
short-circuited contacts		TC-DS-VL	1SNA 166 742 R0500	1	0.1
closed contacts		TF-DS-VL	1SNA 166 503 R2700	1	
Flush mounting	R.tongue				
opened contacts		TO-E-VA	1SNA 166 743 R0600	1	
short-circuited contacts		TC-E-VA	1SNA 166 747 R0200	1	0.14
closed contacts		TF-E-VA	1SNA 166 745 R0000	1	
Half-base mounting	R.tongue				
opened contacts		TO-D-VA	1SNA 166 744 R0700	1	
short-circuited contacts		TC-D-VA	1SNA 166 748 R1300	1	
closed contacts		TF-D-VA	1SNA 166 746 R0100	1	0.12
Reverse mounting	R.tongue				
opened contacts		TO-I-VA-2	1SNA 166 945 R2100	1	
Flush mounting with lid	R.tongue				
short-circuited contacts and pre coded 2.2		TC-E-VA-2.2	1SNA 166 627 R2200	1	0.15
Other preequipped sockets: consult us					

Plugs				
Plug 2 poles with 2.5 mm ² pins	FIT-2/1-1	1SNA 166 821 R1500	1	
Plug 2x4 poles (b)	FIT-2/4-2	1SNA 166 937 R1100	1	0.11
Plug 2x4 poles (b)	FIT-2/4-1	1SNA 166 550 R0100	1	0.09
Plug 2x4 poles reverse mounting I (b)	FIT-2/4-I	1SNA 166 672 R0700		
Plug 4 poles - insertion 1-2-3-4 (c)	FIT-1/4-G	1SNA 166 547 R2200	1	
Plug 4 poles - insertion 01-02-03-04 (c)	FIT-1/4-D	1SNA 166 546 R2100	1	
Plug 2x4 poles, with direct insertion Dia. 4 mm	FI-2/4-DIA4	1SNA 167 936 R1100	1	0.064
Other 2 poles plugs: consult us				

Please refer to selection guide for socket compatibility

Prewired plugs (d)				
4 poles prewired plug made of: 1 plug 4 poles 4 bayonet security test plugs	Grey <input type="checkbox"/> Grey <input checked="" type="checkbox"/>	COR-T-4-1 FIT-1/4-D FCB..	1SNA 166 640 R1300	1
4 poles prewired plug made of: 1 plug 4 poles 4 x Ø 4 mm test plugs	Grey <input type="checkbox"/> Black <input checked="" type="checkbox"/>	COR-T-4-4 FIT-1/4-D FC4-5	1SNA 167 935 R1000	1
2x4 poles prewired plug made of: 1 plug 2x4 poles (pre coded:2.2) 4 bayonet security test plugs	Grey <input type="checkbox"/> Red <input checked="" type="checkbox"/>	COR-T-1 FIT-2/4-1 FCB..	1SNA 166 639 R0600	1
2x4 poles prewired plug made of: 1 plug 2x4 poles (pre coded:2.2) 4 x Ø 4 mm test plugs 4 x Ø 4 mm test plugs	Grey <input type="checkbox"/> Black <input checked="" type="checkbox"/> Red <input checked="" type="checkbox"/>	COR-T-5 FIT-2/4-2 FC4-5 FC4-4	1SNA 167 933 R1600	1

(a) The various accessories necessary for each mounting option are supplied with the socket as well as the 2 coding pins COP-E-1 (see coding section). For reverse mounting sockets drawing, refer to "Outer dimensions, mounting instructions" section.

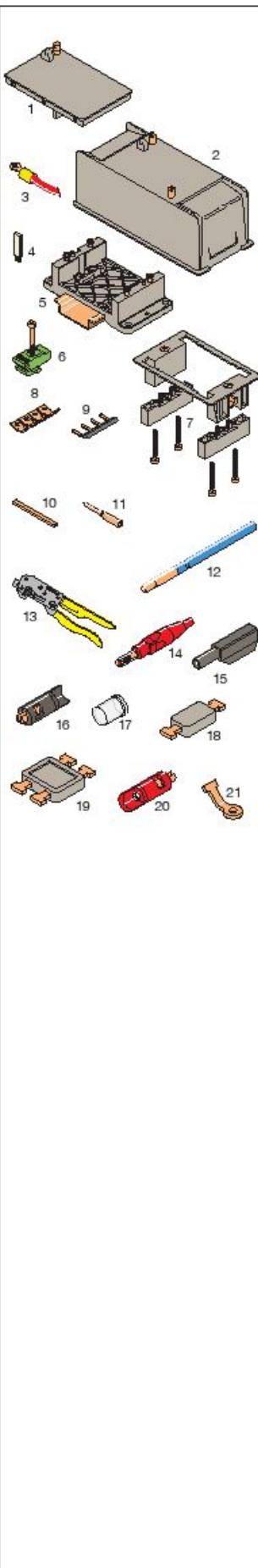
(b) Plugs supplied with 8 locking pins and 2 coding pins COP-F-1, the BRE contacts pins are to be ordered separately.

(c) Plugs supplied with 4 locking pins, the BRE contacts pins are to be ordered separately.

(d) Cable length: 2m/6.6" - Conductors section: 2.5 mm², all conductors marked (marking starting with 0 on the equipment side). Caution: The prewired test leads must be connected to the equipment prior to the insertion of the ESSAILEC® prewired plug on the socket.

ESSAILEC®

Voltage range



Accessories

Rep. Description	Type	Order code	Packaging	Weight kg
For sockets				
1 Lid	CPT-1	ISNA 166 646 R0500	1	
Lid with electrical continuity	CPT-2	ISNA 166 577 R2000	1	
2 Cover (a)	CPT-5	ISNA 166 930 R2600	1	0.07
Cover with electrical continuity (a)	CPT-4	ISNA 166 733 R2400	1	0.08
3 Ring-tongue lug for 10 mm ² wire	CS-10	ISNA 166 700 R1100	10	
4 Socket interlocking peg	CVABM	ISNA 183 436 R0500	10	
5 TH35 rail mounting kit	KEM-3	ISNA 166 962 R0000	10	0.02
6 Mounting kit for DIN 1 rail (a)	FX	ISNA 167 682 R2300	10	
7 Replacement kit for flush mounting (b)	KEM-1	ISNA 166 928 R2000	50	0.02
8 Comb-type jumper bar (b)	PCVA	ISNA 167 496 R1100	10	
9 Comb-type jumper bar IP20 (c)	PCVL	ISNA 167 681 R2200	10	
10 Jumper bar for 2 sockets (c)	BJ-VL	ISNA 167 680 R0500	10	
For plugs				
11 Pin 0.22-0.34 mm ²	BRE-T-0.34	ISNA 168 160 R1400	50	
Pin 0.75 mm ²	BRE-T-0.75	ISNA 167 779 R1300	50	
Pin 1 mm ²	BRE-T-1	ISNA 164 921 R1700	50	
Pin 1.5 mm ²	BRE-T-1.5	ISNA 164 922 R1000	50	
Pin 2.5 mm ²	BRE-T-2.5	ISNA 164 923 R1100	50	
Pin 6 mm ²	BRE-T-6	ISNA 168 147 R0300	50	
12 Pin extraction tool	EXBR1	ISNA 167 008 R0300	1	
13 Crimping tool for BRE pins	PSC	ISNA 173 181 R1300	1	
For test				
Ø 4 mm test plugs				
14 IP20 with mobile protection	Red ■ FC4-1	ISNA 167 927 R1000	10	0.01
15 IP20 with permanent protection	Black ■ FC4-5	ISNA 167 931 R1400	10	0.01
	Red ■ FC4-4	ISNA 167 930 R2700	10	0.01
16 Bayonet security test plug	Black ■ FCB-1	ISNA 167 690 R0700	10	0.01
	Red ■ FCB-2	ISNA 167 692 R2500	10	0.01
17 Isolating cap for FCB plug	CA	ISNA 167 697 R2200	10	
18 Straight adaptor	IR1	ISNA 167 622 R2600	5	
19 H adaptor	IR2	ISNA 167 623 R2700	5	
20 Isolating cap for IR1 & IR2 adaptors	DI	ISNA 167 981 R1700	10	0.01
21 Adaptor between FCB plug and ring-tongue test interface	IR3	ISNA 167 624 R2000	10	

(a) Compatible with base mounting only.

(b) Compatible with ring-tongue connection type socket only (VA).

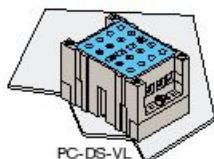
(c) Compatible with screw connection type socket only (VL).

Selection guide

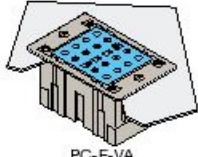
Mounting	Sockets	Lids		Covers		Plugs					
		CPT-1	CPT-2	CPT-5	CPT-4	Fl-2/4-DIA4 Universal plug	FIT-2/4-2	FIT-2/4-1	FIT-1/4-D	FIT-1/4-G	FIT-2/4-I reverse mounting
TH35 Rail	TC-TH35-VL	•	•	•	•	•	•	•	•	•	•
Base Half-base	TO-DS-VL		•		•*	•	(•)	(•)	•	•	
	TC-DS-VL	•		•*		•	•	•	(•)	(•)	
	TF-DS-VL	•		•*					•	•	
Flush	TO-E-VA		•			•	(•)	(•)	•	•	
	TC-E-VA	•				•	•	•	(•)	(•)	
	TF-E-VA	•							•	•	
Half-base	TO-D-VA		•			•	(•)	(•)	•	•	
	TC-D-VA	•				•	•	•	(•)	(•)	
	TF-D-VA	•							•	•	
Reverse	TO-I-VA										•
Flush with lid	TC-E-VA-2.2					•	•	•			

* Note: CPT-4 and CPT-5 compatible with TO-DS-VL, TC-DS-VL and TF-DS-VL sockets only in "base" mounting option.

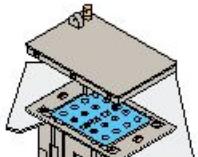
(•) Compatible with some restrictions, please consult us.

ESSAILEC®**Polarity range****Sockets**

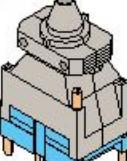
PC-DS-VL



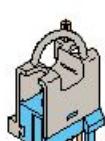
PC-E-VA

**Plugs**

FIP-2/4-1 *



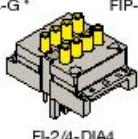
FIP-2/4-2 *



FIP-1/4-G *

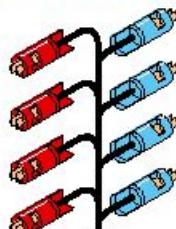


FIP-1/4-D *



FI-2/4-DIA4

* The BRE contacts pins are to be ordered separately

Prewired plugs

COR-P-1

Contacts: - Make before break
- Opened
- Closed

Polarity range color code: Blue □
Body: Polycarbonate
Conductive parts: Silver-plated

Technical data

	IEC		Plug
	Socket	Ring-tongue (VA)	
Connecting capacity			
Rigid conductor	0.2 - 6 mm ²	0.34 - 10 mm ²	
Flexible conductor	0.22 - 4 mm ²		
Wire stripping length	9.5 mm / .370"		
wire 0.22 - 0.34 mm ²			See Datasheet
wire 0.75 - 6 mm ²			1SNC 169 040 D1701
Recommended screwdriver		4 mm / .157"	
Recommended torque	0.5-0.8 Nm / 4.4-7.1 lb.in		
Ø		Ø 3 mm	
Width		7.5 mm	
Rated voltage		400 V	
Impulse withstand voltage		4 KV	
Pollution degree		3	
Rated current		8 A	
Short-circuit current		25 A/5 s - 800 A/25 ms	
Storage temperature range		-25 °C ~ +70 °C	
Working temperature range		-10 °C ~ +55 °C	
Front panel protection	with cover without cover		IP40 IP20

Ordering details

Description	Type	Order code	Packaging	Weight kg
Sockets (a)				
Half-base mounting / base mounting	Screw			
opened contacts	PO-DS-VL	1SNA 166 757 R0400		1
short-circuited contacts	PC-DS-VL	1SNA 166 758 R1500		1
closed contacts	PF-DS-VL	1SNA 166 506 R2200		1
Flush mounting	R.tongue			
opened contacts	PO-E-VA	1SNA 166 759 R1600		1
short-circuited contacts	PC-E-VA	1SNA 166 763 R0200		1
closed contacts	PF-E-VA	1SNA 166 761 R0000		1
Half-base mounting	R.tongue			
opened contacts	PO-D-VA	1SNA 166 760 R1300		1
short-circuited contacts	PC-D-VA	1SNA 166 764 R0300		1
closed contacts	PF-D-VA	1SNA 166 762 R0100		1
Flush mounting with lid	R.tongue			
short-circuited contacts and pre coded 8.8	PC-E-VA-8.8	1SNA 166 630 R0100		1

Other preequipped sockets: consult us

Plugs				
Plug 2x4 poles (b)	FIP-2/4-2	1SNA 166 939 R2300		1 0.11
Plug 2x4 poles (b)	FIP-2/4-1	1SNA 166 559 R0600		1 0.09
Plug 4 poles - insertion 1-2-3-4 (c)	FIP-1/4-G	1SNA 166 556 R2300		1
Plug 4 poles - insertion 01-02-03-04 (c)	FIP-1/4-D	1SNA 166 555 R2200		1
Plug 2x4 poles, with direct insertion Dia. 4 mm	FI-2/4-DIA4	1SNA 167 936 R1100		1 0.064

Please refer to selection guide for socket compatibility

Prewired plugs (d)				
2x4 poles prewired plug (pre coded 8.8) made of:				
1 plug 2x4 poles	Blue □	FIP-2/4-1		
4 bayonet security test plugs	Red ■	FCB..		
4 bayonet security test plugs	Blue □	FCB..		

(a) The various accessories necessary for each mounting option are supplied with the socket as well as the 2 coding pins COP-E-1 (see coding section).

(b) Plugs supplied with 8 locking pins and 2 coding pins COP-F-1, the BRE contacts pins are to be ordered separately.

(c) Plugs supplied with 4 locking pins, the BRE contacts pins are to be ordered separately.

(d) Prewired plug cable length: 2 m / 6.6" - Wire section 2.5 mm²

ESSAILEC®

Polarity range



Accessories

Rep. Description	Type	Order code	Packaging	Weight kg
For sockets				
1 Lid	CPP-1	1SNA 166 647 R0600		1
Lid with electrical continuity	CPP-2	1SNA 166 645 R0400		1
2 Ring-tongue lug for 10 mm ² wire	CS-10	1SNA 167 700 R1100		10
3 Socket interlocking peg	CVABM	1SNA 183 436 R0500		10
4 Mounting kit for DIN 1 rail (a)	FX	1SNA 167 682 R2300		10
5 Replacement kit for flush mounting (b)	KEM-1	1SNA 166 928 R2000		50
6 Comb-type jumper bar (b)	PCVA	1SNA 167 496 R1100		10
7 Comb-type jumper bar IP20 (c)	PCVL	1SNA 167 681 R2200		10
8 Jumper bar for 2 sockets (c)	BJ-VL	1SNA 167 680 R0500		10
For plugs				
9 Pin 0.22-0.34 mm ²	BRE-T-0.34	1SNA 168 160 R1400		50
Pin 0.75 mm ²	BRE-T-0.75	1SNA 167 779 R1300		50
Pin 1 mm ²	BRE-T-1	1SNA 164 921 R1700		50
Pin 1.5 mm ²	BRE-T-1.5	1SNA 164 922 R1000		50
Pin 2.5 mm ²	BRE-T-2.5	1SNA 164 923 R1100		50
Pin 6 mm ²	BRE-T-6	1SNA 168 147 R0300		50
10 Pin extraction tool	EXBR1	1SNA 167 008 R0300		1
11 Crimping tool for BRE pins	1 to 2.5mm ²	1SNA 173 181 R1300		1
For test				
Ø 4 mm test plugs				
13 IP20 with mobile protection	Red ■	FC4-1	1SNA 167 927 R1000	
14 IP20 with permanent protection	Black ■	FC4-5	1SNA 167 931 R1400	
	Red ■	FC4-4	1SNA 167 930 R2700	
14 Bayonet security test plug	Black ■	FCB-1	1SNA 167 690 R0700	
	Red ■	FCB-2	1SNA 167 692 R2500	
15 Isolating cap for FCB plug	CA		1SNA 167 697 R2200	
16 Straight adaptor	IR1		1SNA 167 622 R2600	
17 H adaptor	IR2		1SNA 167 623 R2700	
18 Isolating cap for IR1 & IR2 adaptors	DI		1SNA 167 981 R1700	
19 Adaptor between FCB plug and ring-tongue test interface	IR3		1SNA 167 624 R2000	

(a) Compatible with base mounting only.

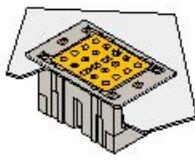
(b) Compatible with ring-tongue connection type socket only (VA).

(c) Compatible with screw connection type socket only (VL).

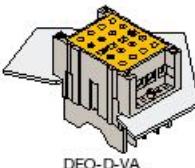
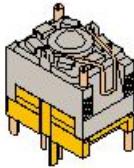
Selection guide

Mounting	Sockets	Lids		Plugs				
		C PP-1	CPP-2	F1-2/4-DIA4	F1P-2/4-2	F1P-2/4-1	F1P-14-D	F1P-1/4-G
Base Half-base	PO-DS-VL		●	●	(●)	(●)	●	●
	PC-DS-VL	●		●	●	●	(●)	(●)
	PF-DS-VL	●		●			●	●
Flush	PO-E-VA		●	●	(●)	(●)	●	●
	PC-E-VA	●		●	●	●	(●)	(●)
	PF-E-VA	●		●			●	●
Half-base	PO-D-VA		●	●	(●)	(●)	●	●
	PC-D-VA	●		●	●	●	(●)	(●)
	PF-D-VA	●		●			●	●
Flush with lid	PC-E-VA-2.2				●	●		

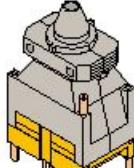
(●) Compatible with some restrictions, please consult us.

ESSAILEC®**Trip range****Sockets**

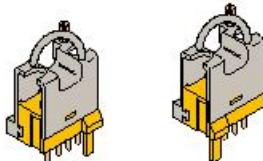
DEO-E-VA

DEO-D-VA
DEF-D-VA**Plugs**

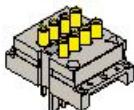
FIDE-2/4 *



FIDE-2/4-2 *



FIDE-1/4-G * FIDE-1/4-D *



FI-2/4-DIA4 *

* The BRE contacts pins are to be ordered separately

Contacts: - Opened
- Closed

Trip range color code: Orange ■
Body: Polycarbonate
Conductive parts: Silver-plated

Technical data

	IEC	
	Socket	Plug
Screw clamp (VL)		Pin BRE
Rigid conductor	0.2 - 6 mm ²	
Flexible conductor	0.22 - 4 mm ²	0.34 - 10 mm ²
Wire stripping length	9.5 mm / .370"	
wire 0.22 - 0.34 mm ²		See Datasheet 1SNC 169 040 D1701
wire 0.75 - 6 mm ²		
Recommended screwdriver	4 mm / .157"	
Recommended torque	0.5-0.8 Nm / 4.4-7.1 lb.in	
Ø		Ø 3 mm
Width		7.5 mm
Rated voltage		400 V
Impulse withstand voltage		4 KV
Pollution degree		3
Rated current		8 A
Short-circuit current	25 A/5 s - 800 A/25 ms	
Storage temperature range	-25 °C ~ +70 °C	
Working temperature range	-10 °C ~ +55 °C	
Front panel protection	with cover without cover	IP40 IP20

Ordering details

Description	Type	Order code	Packaging	Weight kg
Sockets (a)				
Flush mounting	R.tongue			
opened contacts		1SNA 166 878 R0600		1
Half-base mounting	R.tongue			
opened contacts		1SNA 166 874 R2200		1
closed contacts		1SNA 166 896 R1100		1
Other sockets: consult us				

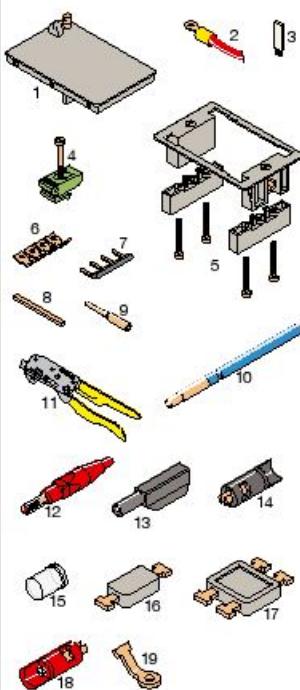
Plugs

Plug 2x4 poles (b)	FIDE-2/4	1SNA 166 877 R2500	1	0.09
Plug 2x4 poles (b)	FIDE-2/4-2	1SNA 166 943 R2700	1	0.11
Plug 4 poles - insertion 1-2-3-4 (c)	FIDE-1/4-G	1SNA 166 898 R2300	1	
Plug 4 poles - insertion 01-02-03-04 (c)	FIDE-1/4-D	1SNA 166 897 R1200	1	
Plug 2x4 poles, with direct insertion Dia. 4 mm	FI-2/4-DIA4	1SNA 167 936 R1100	1	0.064

(a) The various accessories necessary for each mounting option are supplied with the socket as well as the 2 coding pins COP-E-1 (see coding section).

(b) Plugs supplied with 8 locking pins and 2 coding pins COP-F-1, the BRE contacts pins are to be ordered separately.

(c) Plugs supplied with 4 locking pins, the BRE contacts pins are to be ordered separately.



Accessories

Rep. Description	Type	Order code	Packaging	Weight kg	
For sockets					
1 Lid	CPDE-1	1SNA 166 876 R2400	1		
Lid with electrical continuity	CPDE-2	1SNA 166 926 R1600	1		
2 Ring-tongue lug for 10 mm ² wire	CS-10	1SNA 167 700 R1100	10		
3 Socket interlocking peg	CVABM	1SNA 183 436 R0500	10		
4 Mounting kit for DIN 1 rail (a)	FX	1SNA 167 682 R2300	10		
5 Replacement kit for flush mounting (b)	KEM-1	1SNA 166 928 R2000	50	0.02	
6 Comb-type jumper bar (b)	PCVA	1SNA 167 496 R1100	10		
7 Comb-type jumper bar IP20 (c)	PCVL	1SNA 167 681 R2200	10		
8 Jumper bar for 2 sockets (c)	BJ-VL	1SNA 167 680 R0500	10		
For plugs					
9 Pin 0.22-0.34 mm ²	BRE-T-0.34	1SNA 168 160 R1400	50		
Pin 0.75 mm ²	BRE-T-0.75	1SNA 167 779 R1300	50		
Pin 1 mm ²	BRE-T-1	1SNA 164 921 R1700	50		
Pin 1.5 mm ²	BRE-T-1.5	1SNA 164 922 R1000	50		
Pin 2.5 mm ²	BRE-T-2.5	1SNA 164 923 R1100	50		
Pin 6 mm ²	BRE-T-6	1SNA 168 147 R0300	50		
10 Pin extraction tool	EXBR1	1SNA 167 008 R0300	1		
11 Crimping tool for BRE pins	PSC	1SNA 173 181 R1300	1		
For test					
Ø 4 mm test plugs					
12 IP20 with mobile protection	Red ■	FC4-1	1SNA 167 927 R1000	10	0.01
	Black ■	FC4-5	1SNA 167 931 R1400	10	0.01
	Red ■	FC4-4	1SNA 167 930 R2700	10	0.01
13 IP20 with permanent protection					
14 Bayonet security test plug	Black ■	FCB-1	1SNA 167 690 R0700	10	0.01
	Red ■	FCB-2	1SNA 167 692 R2500	10	0.01
15 Isolating cap for FCB plug	CA	1SNA 167 697 R2200	10		
16 Straight adaptor	IR1	1SNA 167 622 R2600	1	5	
17 H adaptor	IR2	1SNA 167 623 R2700		5	
18 Isolating cap for IR1 & IR2 adaptors	DI	1SNA 167 981 R1700		10	
19 Adaptor between FCB plug and ring-tongue test interface	IR3	1SNA 167 624 R2000		10	

(a) Compatible with base mounting only.

(b) Compatible with ring-tongue connection type socket only (VA).

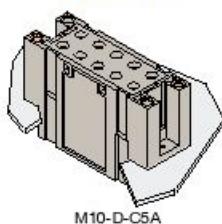
(c) Compatible with screw connection type socket only (VL).

ESSAILEC®

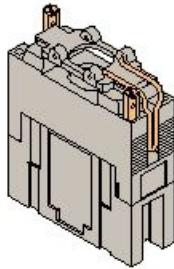
Multicircuits range 10, 20 points



Sockets

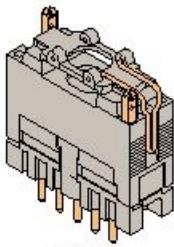


M10-D-C5A

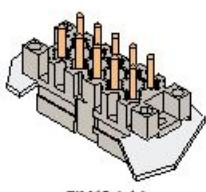


M10-I-C5A-1

Plugs

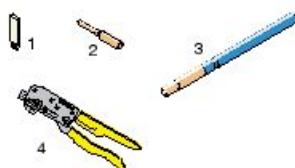


FIM10-1*



FIM10-I-1*

* The BRT contacts pins are to be ordered separately



Application:
High density panel board wiring.
Alternative to large terminal strips.

Body: Polycarbonate
Conductive parts: Silver-plated

Technical data

		IEC	
	Socket	Plug	
	Quick-connect (C5A)	Pin BRE	
Connecting capacity	Rigid conductor Flexible conductor	2.5 mm ²	
Wire stripping length			See Datasheet 1SNC 169 040 D1701
wire 0.22 - 0.34 mm ²			
wire 0.75 - 6 mm ²			
Quick-connect		5 x 0.8 mm	
Rated voltage		400 V	
Impulse withstand voltage		4 KV	
Pollution degree		3	
Rated current		8 A	
Short-circuit current		25 A/5 s - 800 A/25 ms	
Storage temperature range		-25 °C ~ +70 °C	
Working temperature range		-10 °C ~ +55 °C	
Front panel protection		IP 20	

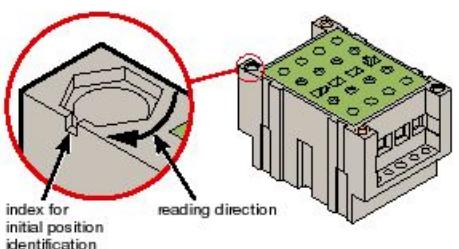
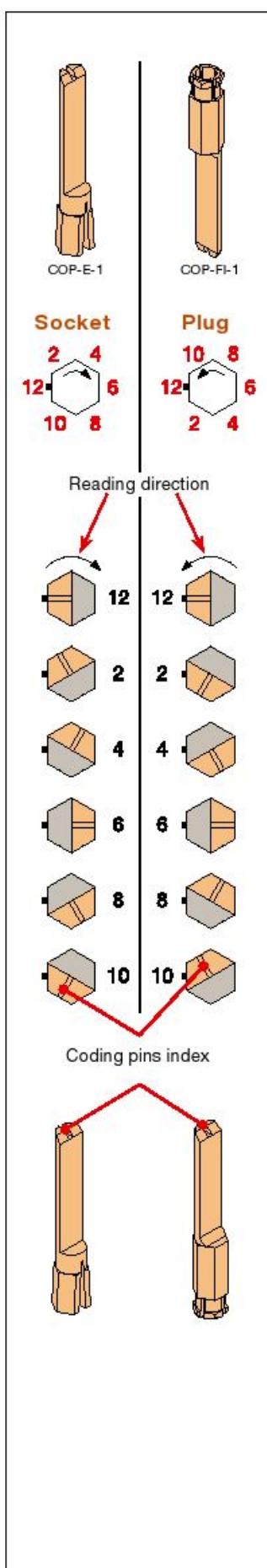
Ordering details

Description	Type	Order code	Packaging	Weight kg
Sockets				
Half-base mounting	Q-connect	M10-D-C5A	1SNA 166 513 R1000	10 0.06
Rack mounting	Q-connect	M10-R-C5A	1SNA 166 566 R2500	10
Reverse mounting	Q-connect	M10-I-C5A-1	1SNA 166 774 R0500	10
Reverse mounting	Q-connect	M20-I-C5A	1SNA 166 777 R0000	1
Extension mounting	Q-connect	M10-P-C5A	1SNA 166 772 R0300	1
Other sockets: consult us				
Plugs				
Plug for M10-D-C5A socket	FIM10-1	1SNA 166 516 R1300	10 0.06	
Plug for M10-R-C5A socket	FIM10-R	1SNA 166 573 R2400	1	
Plug for M10-I-C5A-1 socket	FIM10-I-1	1SNA 166 574 R2500	1	
Plug for M20-I-C5A socket	FIM20-I	1SNA 166 576 R2700	1	

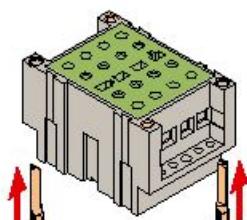
The various accessories necessary for each mounting option are supplied with the socket as well as the 2 coding pins COP-E-1 (see coding section).

Accessories

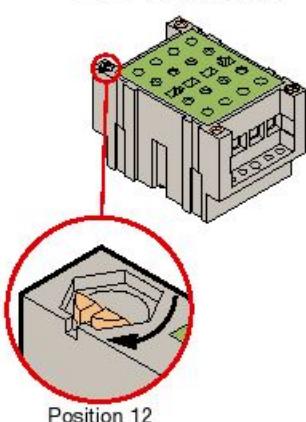
Rep. Description	Type	Order code	Packaging	Weight kg
For sockets				
1. Socket interlocking peg	CVABM	1SNA 183 436 R0500	10	
For plugs				
2. Pin 0.22-0.34 mm ²	BRE-T-0.34	1SNA 168 160 R1400	50	
Pin 0.75 mm ²	BRE-T-0.75	1SNA 167 779 R1300	50	
Pin 1 mm ²	BRE-T-1	1SNA 164 921 R1700	50	
Pin 1.5 mm ²	BRE-T-1.5	1SNA 164 922 R1000	50	
Pin 2.5 mm ²	BRE-T-2.5	1SNA 164 923 R1100	50	
Pin 6 mm ²	BRE-T-6	1SNA 168 147 R0300	50	
3. Pin extraction tool	EXBR1	1SNA 167 008 R0300	1	
4. Crimping tool for BRE pins	1 to 2.5 mm ²	PSC	1SNA 173 181 R1300	1

**On socket:**

- 1 Choose a coding code (12-12 for instance).

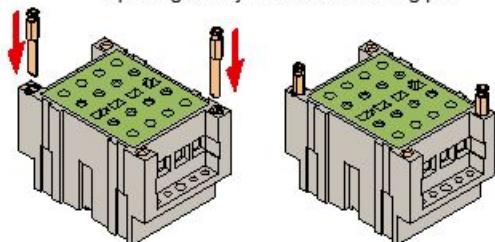


- 2 Insert completely the coding pin COP-E-1 in its housing.

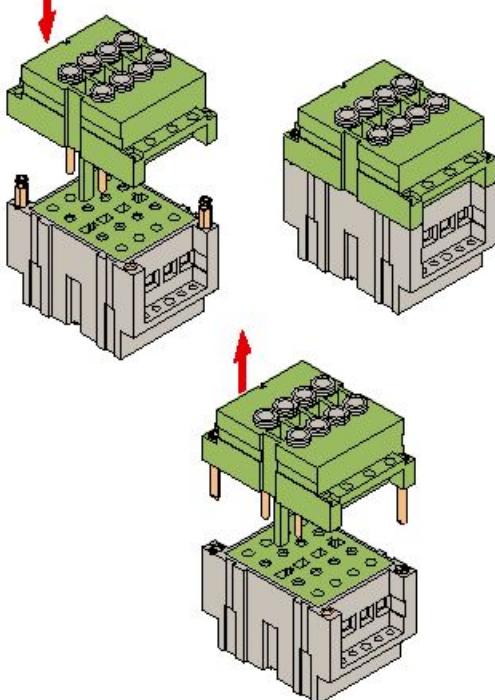
**On plug:**

In order to guarantee a perfect compatibility between the socket coding and the plug coding, the following must be done:

- 1 Place the COP-FI-1 coding pin in the opening left by the socket coding pin.



- 2 Connect the plug on the socket in order to insert the plug coding pin in its housing.

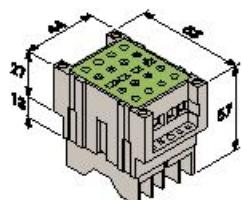


Description	Type	Order code	Packaging	Weight kg
Socket coding pin	COP-E-1	1SNA 167 379 R1200	10	
Plug coding pin	COP-FI-1	1SNA 167 378 R1100	10	
Supplied with sockets and plugs				

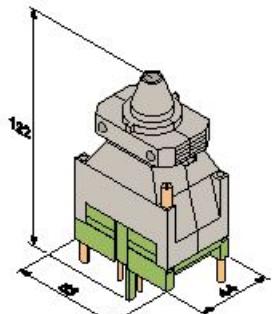
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Outer dimensions, mounting instructions

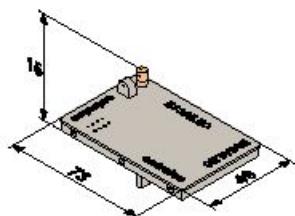
Socket



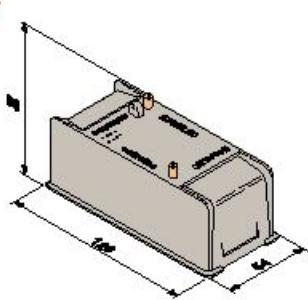
Plugs



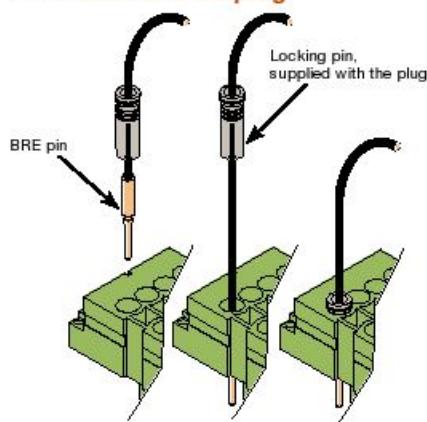
Lid



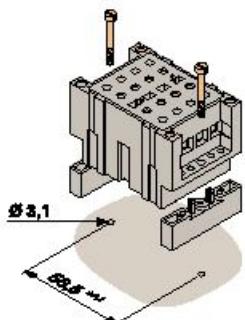
Cover



Pin installation on plug



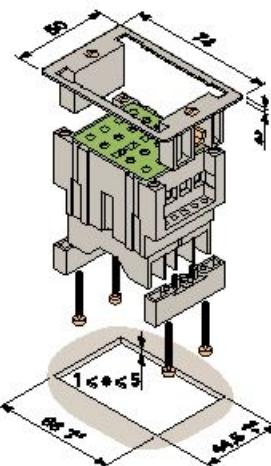
Base mounting



$0.5 \text{ Nm} < \text{Tightening torque} < 0.8 \text{ Nm}$

Flush mounting

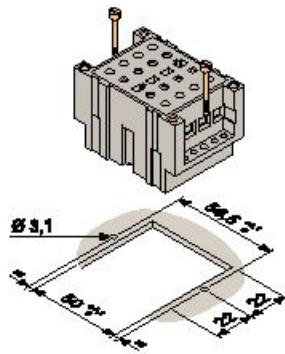
The flush mounting kit must be mounted on the socket prior to the installation on the panel.



Tightening torque = 0.5 Nm maxi.

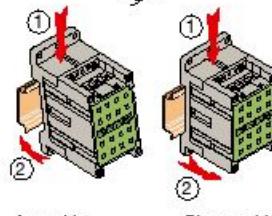
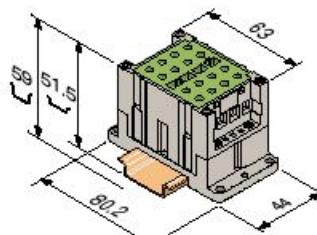
Half-base mounting Rack mounting

The rack mounting is supplied with 2 additional guiding pins.

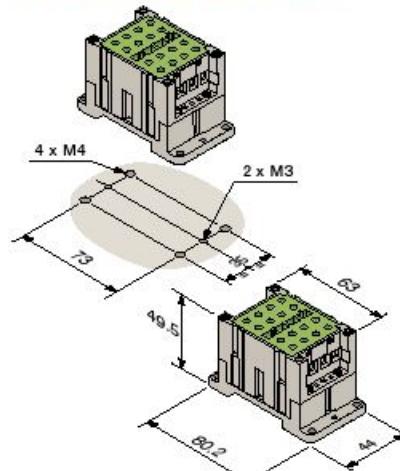


$0.5 \text{ Nm} < \text{Tightening torque} < 0.8 \text{ Nm}$

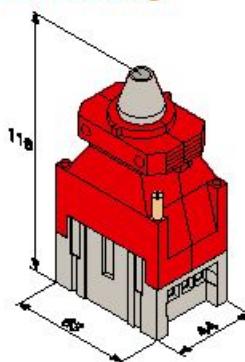
TH35 rail mounting



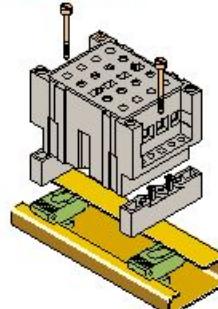
Base mounting with KEM-3



Reverse mounting



G32 rail mounting



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ISNA 164 922 R1000	BRE-T-1.5	13	ISNA 166 897 R1200	FIDE-1/4-D	16	BJ-VL	ISNA 167 680 R0500	11	FIC-2/4-I	ISNA 166 589 R2500	10
ISNA 164 923 R1100	BRE-T-2.5	13	ISNA 166 898 R2300	FIDE-1/4-G	16	BRE-C-1	ISNA 167 264 R0700	11	FIC-2/4-R	ISNA 166 529 R2000	10
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