ESSAILEC® TEST BLOCKS

ENTRELEC Terminal Blocks

ESSAILEC® test blocks allow to safely and easily perform test operations such as current and voltage measurement, monitoring, injection, repair or replacement of meters and protective relays installed in secondary circuits of current and voltage transformers or sensors.

ESSAILEC® test blocks

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Continuous operation

Easy plug & play solution

ESSAILEC® allows a simultaneous test of 1 to 4 circuits thanks to the combination of a plug and a socket.

Fast test operation

Thanks to make before break principle, the current transformers short circuiting is automatically performed (no cursor or switch element to operate manually).
Current testing without cutting the energy supply.

Safety and protection

Operator's safety

IP20 protection for the socket and IP40 with the cover.
Sealing option available to prevent unauthorized access.

Error free systems

Coding system on plugs & sockets prevent from risks of mixing between various circuits.
Protection against reverse plug insertion.

Unitary traceability

Engraved on insulating body.

Easy to install

Multiple choice of mounting

5 possibilities to install ESSAILEC® on front, within the panel or on a plate.

Various choice of wiring technologies

ESSAILEC® offers several connection types: ring tongue, screw clamp, quick-connect and RJ45, to allow different wire terminations and connections up to 10 mm².

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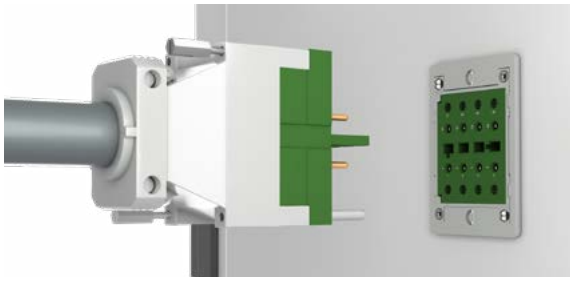
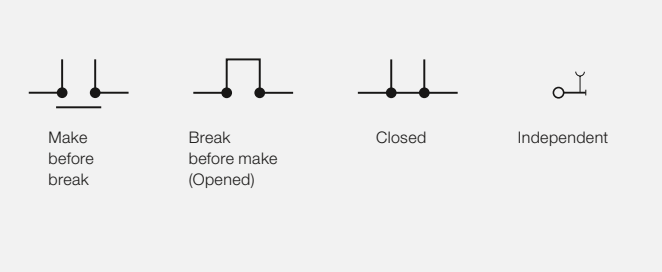
ESSAILEC® is especially designed to fit the electricity utilities requirements for safe and reliable testing. The test operations can be made without any circuit break and without opening the panel door.
ESSAILEC® is approved by major utilities and successfully implemented for years in worldwide electricity production, transport and distribution networks.

ESSAILEC® operation principle



ESSAILEC® is based on a plug & play operation solution.
It is composed of a socket and a test plug.
The socket is installed in the circuit and wired to the device to be tested during its installation or servicing (protection relay in switchboard or meters).
The plug is connected to the test set and allows measurement or signal injection.

Socket design



The sockets are available in the following designs:
- Socket with "Make before break" contact design, available in the current, voltage, and RJ45 ranges
- Socket with "Break before make" (opened) contact design, available in voltage application
- Socket with "Closed" contact design, available in voltage application
- Socket with "4 independent circuits" for voltage application.

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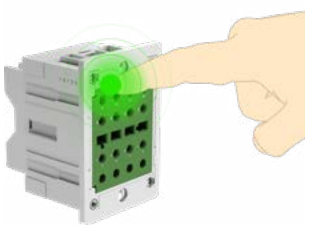
Safety & protection

Color coding

Prevent from risks of mixing between various circuits.
Color coding: green for current applications, grey / orange / blue for voltage applications.



IP20

IP40

Seal

Operator's safety

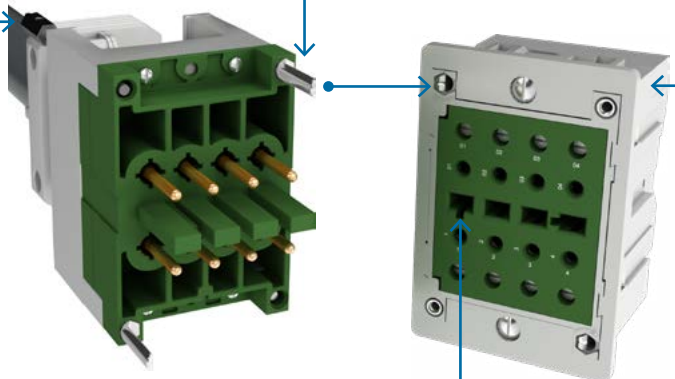
Front protection IP20 for the socket and IP40 with the protective lid.
The protective lid is equipped with a sealing option to prevent unauthorized access.

Locking mechanism

Secure the plug on the socket.
No risk of unplugging during test operations.

Error free systems thanks to coding pins

Up to 6 possible combinations to allocate test plug with its appropriate socket for circuit differentiation.



Unitary traceability

The socket integrates a permanent tracking number engraved on insulating body.

Protection against reverse plug insertion

Socket and plug integrate a special plastic shape preventing the circuit polarities reversal.

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Easy to install

Multiple choices of socket mounting

Mounting on panel: front or base mounting

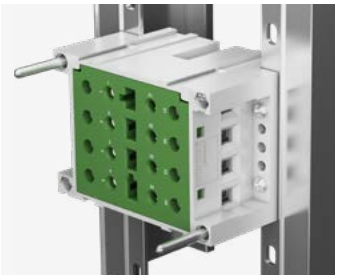
Flush mounting

Half-base mounting

Base mounting

Mounting within the panel.

TH35 rail mounting



Rack mounting

Various choices of wiring technologies

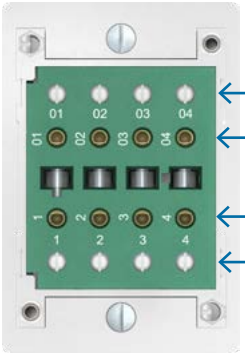
ESSAILEC® offers several connection types (according to the mounting selected): ring tongue, screw clamp, quick-connect and RJ45, to allow different wire terminations and connections up to 10 mm².
Refer to sockets panorama page for more details.

Ring tongue

Quick-connect

Screw clamp

RJ45



Easy circuit identification

01, 02, 03, 04: equipment side.

Premarked block in two directions to allow convenient reading whatever the mounting sense.

1, 2, 3, 4: transformers side.

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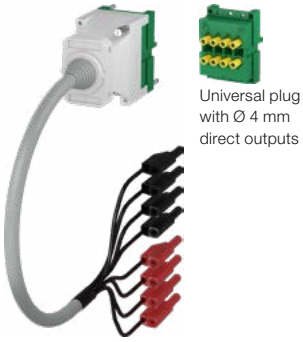
Plug

The plug is connected to the test equipment by means of test plugs.
Plugs are supplied in various configurations, either prewired or ready to be customized.



Universal plug with Ø 4 mm direct outputs

Pre-assembled plug

Pre-assembled plug

Pre-assembled plug

Plug with crimping pins for customization

Plugs for customization

2x4 poles plugs (8 contact pins)
Allow testing of 4 current or voltage circuits.
Available in different colors (green, grey, orange, blue).

4 poles plugs (4 contact pins)
Allow testing of 4 voltage circuits.
Available in different colors (grey, orange, blue).

1 pole plugs (2 contacts pins)
Allow testing of 1 current or voltage circuit.
Available in different colors (red for current applications or grey for voltage applications).

Plugs for customization
In order to provide more flexibility to the end-users ESSAILEC® plugs can be customized according to the targeted application (see customized plugs catalog page).

Protection

Lid or Cover provide dust protection (IP40) and prevent unauthorized access thanks to their embedded sealing option.
Lid and cover with electrical continuity, are necessary compatible with opened contacts sockets (Break before make).
Thanks to their inner pins and linking bars they ensure the circuits continuity.

Lid

Cover

Lid with electrical continuity

Cover with electrical continuity

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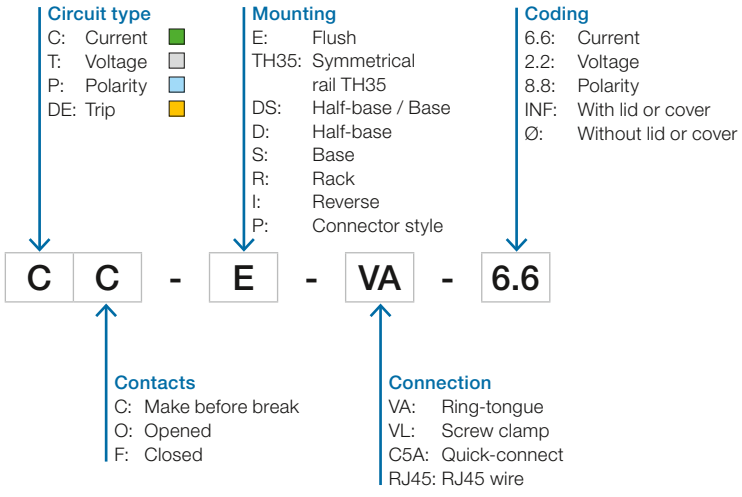
Sockets panorama

Contact type	Mounting	Connection	For current and voltage sensors	For current transformers	For voltage transformers		
					Grey coding (standard)	Blue coding (polarity)	Orange coding (trip)
							
Make before break	Flush	Ring-tongue	–	CC-E-VA	TC-E-VA	PC-E-VA	–
			–	CC-E-VA-6.6	TC-E-VA-2.2	PC-E-VA-8.8	–
			–	CC-E-VA-R2-6.6	TC-E-VA-R2-2.2	–	–
		RJ45	TC-E-RJ45-INF	–	–	–	–
		Quick connect	–	–	TC-E-C5A-2.2	–	–
	Half-base	Ring-tongue	–	CC-D-VA	TC-D-VA	PC-D-VA	–
	Base/Half-base	Screw clamp	–	–	TC-DS-VL	PC-DS-VL	–
	Base	Screw clamp	–	CC-S-INF-VL-6.6	TC-S-INF-VL-2.2	–	–
	TH35	Screw clamp	–	CC-TH35-VL-6.6	TC-TH35-VL	–	–
	Rack	Ring-tongue	–	CC-R-VA	–	–	–
	Reverse	Ring-tongue	–	CC-I-VA-2	–	–	–
Break before make Opened contact	Flush	Ring-tongue	–	–	TO-E-VA	PO-E-VA	DEO-E-VA
			–	–	TO-E-VA-12.12	–	–
	Half-base	Ring-tongue	–	–	TO-D-VA	PO-D-VA	DEO-D-VA
	Base/Half-base	Screw clamp	–	–	TO-DS-VL	PO-DS-VL	–
	Base	Screw clamp	–	–	TO-S-INF-VL-12.12	–	–
	Reverse	Ring-tongue	–	–	TO-I-VA-2	–	–
Closed contact	Flush	Ring-tongue	–	–	TF-E-VA	PF-E-VA	–
	Half-base	Ring-tongue	–	–	TF-D-VA	PF-D-VA	DEF-D-VA
	Base/Half-base	Screw clamp	–	–	TF-DS-VL	PF-DS-VL	–
Independent circuits	Base	Screw clamp	–	–	TT4-S-VL-INF	–	–

Socket designation



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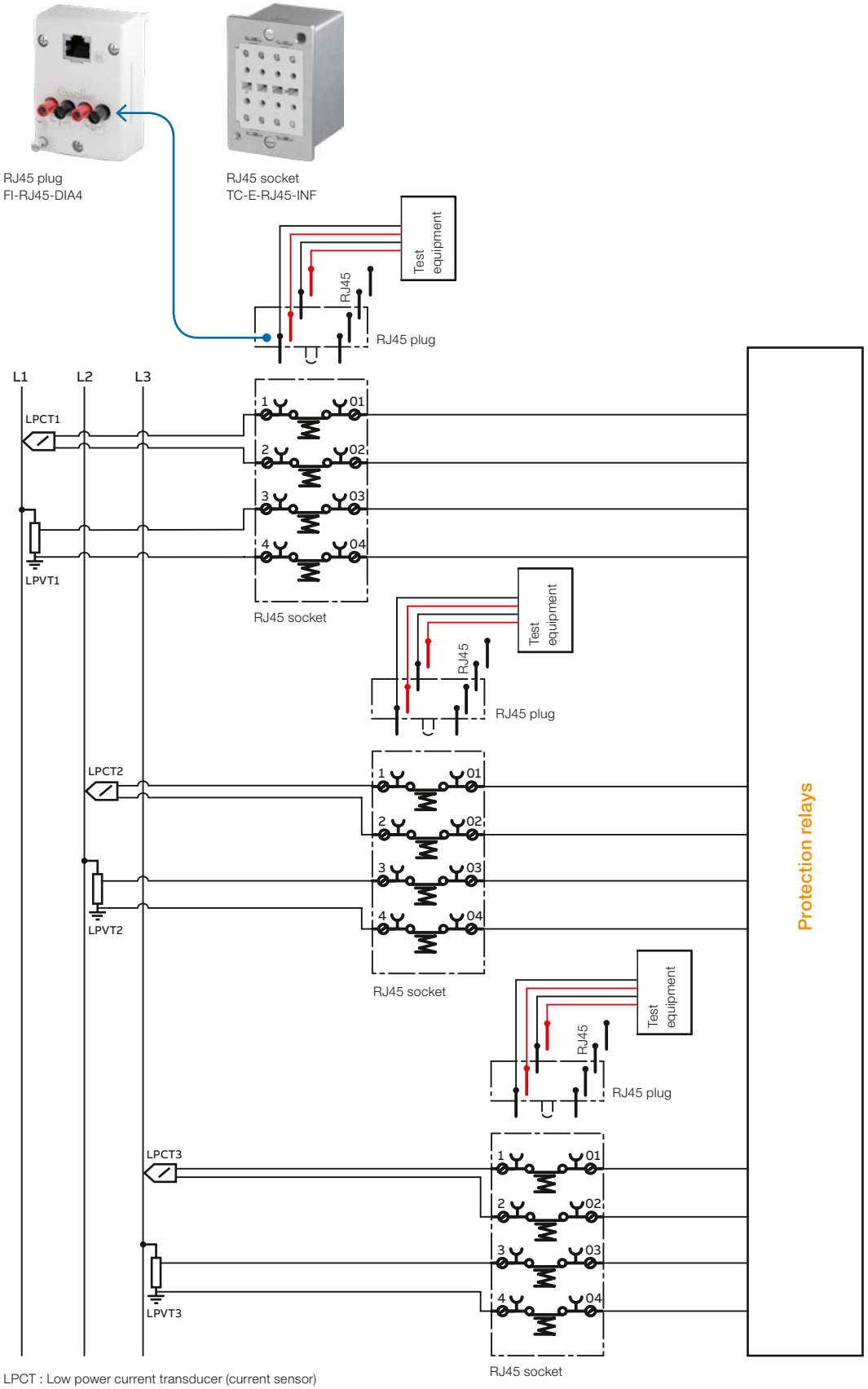
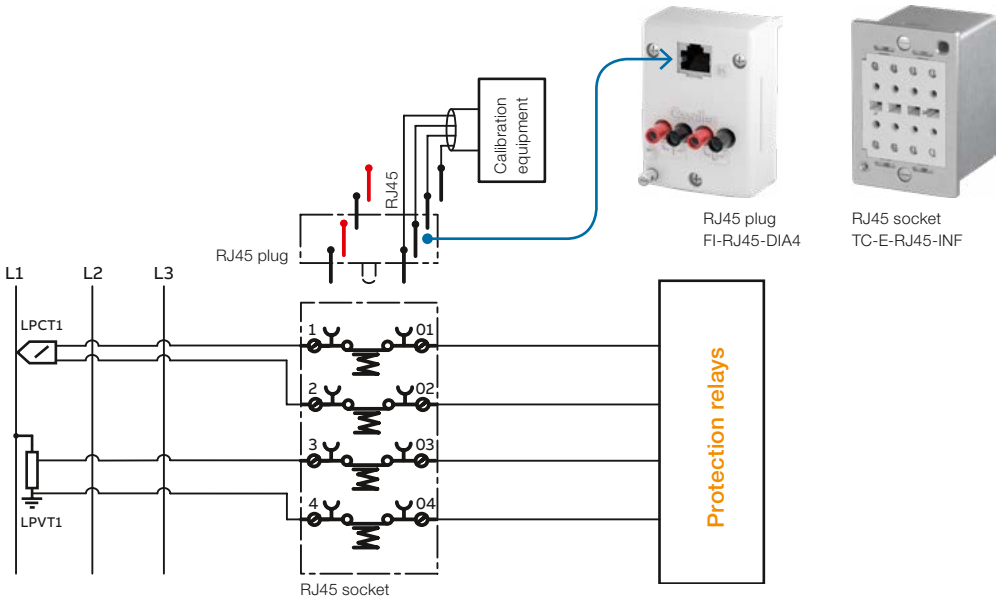
Current and voltage sensors application

Make before break test principle - Measurement with ESSAILEC® RJ45 test plug



LPCT : Low power current transducer (current sensor)
LPVT: Low power voltage transducer (voltage sensor)



LPCT : Low power current transducer (current sensor)
LPVT: Low power voltage transducer (voltage sensor)

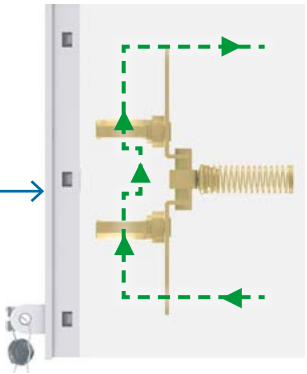
1SNC169004S0201

Current and voltage sensors application
Make before break test principle - With ESSAILEC® RJ45 test plug

Applications
- Injection
- Equipment replacement

1. Normal service

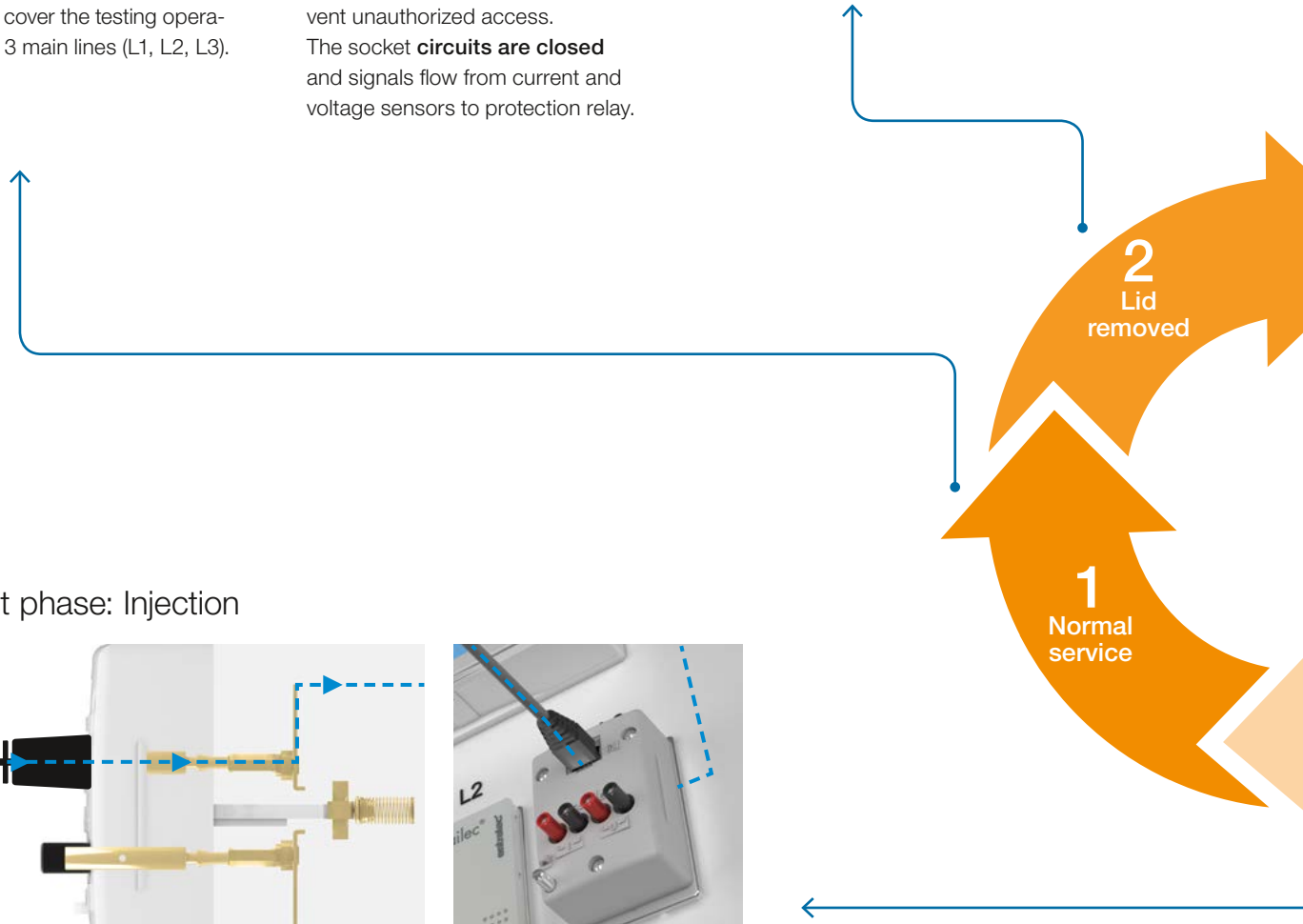
1.1 ESSAILEC® RJ45 sockets have a shielded body. The 3 sockets are required to cover the testing operation on the 3 main lines (L1, L2, L3).



1.2 The lid is installed on the socket and can be sealed to prevent unauthorized access.
The socket **circuits are closed** and signals flow from current and voltage sensors to protection relay.

2. Lid removal

The lid **is removed.**



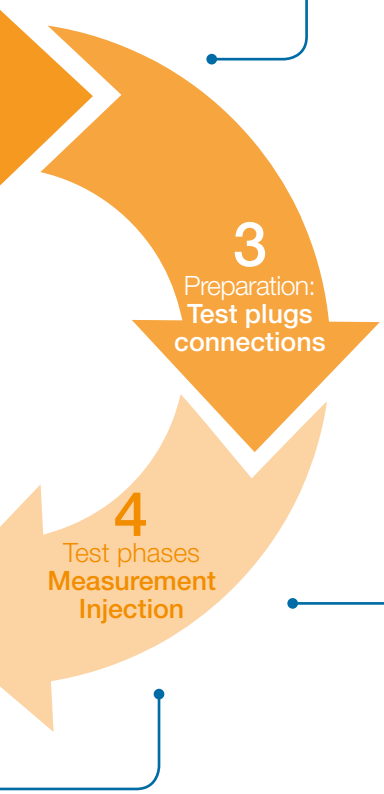
4.2 Test phase: Injection

The RJ45 plug allows to perform **injection.** Plug a **RJ45 connector** on to the ESSAILEC® RJ45 plug to test the protection relay through the integrated RJ45 input.

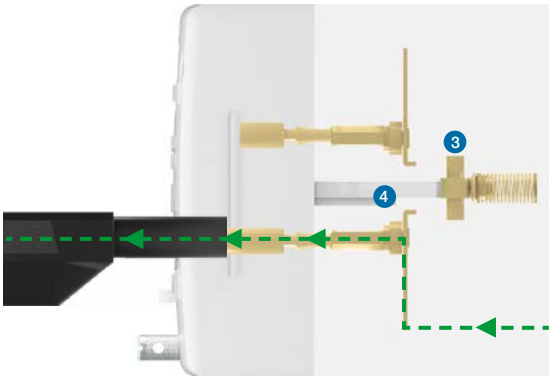
3. Preparation: Test plugs connections

3.1 The test equipment is equipped with **dia. 4 test plugs.**

3.2 The ESSAILEC® RJ45 test plug has **built-in dia. 4 (1) and RJ45 test sockets (2)** in order to simplify the test operations. They allow current and voltage **sensors measurement (1)** as well as **injection to the protection relay (2).**

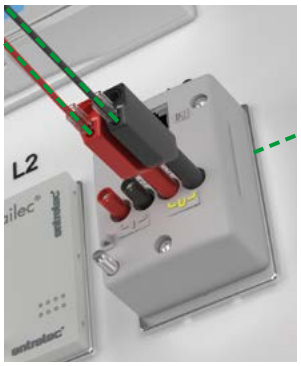


4. Test phase: Make before Break

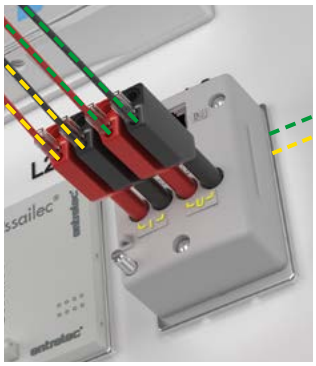


When the plug is fully inserted in the socket, inner mobile contacts (3) are pushed down by plug's plastic leads (4) and circuits are opened. Signals are derived into the **dia. 4** plug towards the test set.
It is possible to perform simultaneously current and voltage sensors measurement.

4.1 Test phase: Measurement



Ex: Voltage sensors measurement



Ex: Voltage and current sensors measurement

1SNC169009S0201

1SNC169160V0014

TC-E-RJ45

Description

Dedicated for the use in Digital Switchgear including sensors (current or voltage):
- RJ45 connection type (Cat.5),
- Allow safe and easy measurement and injection operations,
- Signals protection against EMI/RFI thanks to shielded lid on shielded socket,
- Shielding tests according to IEC 62271-1 Annex J,
- Grounding point: M5 screw to be wired with an adapted ring lug termination.

Make before break principle:
- The circuits are automatically disconnected with the insertion of the plug,
- The circuits close automatically when the plug is removed.

Main technical data

Connecting capacity	IEC 947-1
Body	Polycarbonate UL94 V0
Conductive parts	Silver-plated
Rated voltage	125 V
Impulse withstand voltage	1000 V
Pollution degree	3
Rated current	1.5 A
Accuracy	0.5 %
Storage temperature range	-40 ... +85 °C
Working temperature range	-40 ... +85 °C
Protection without lid / with lid	IP20 / IP40

Mounting instructions

Tool (for grounding screw)		Posidriv Ø 4 mm Ø 0.16 in
Torque (for grounding screw)		1.2 Nm 10.8 lb.in

Ordering details

Color		Type	Part Number		Pkg qty	Weight 1 pce g
Socket						
Flush mounting						
Grey	☐	TC-E-RJ45-INF	1SNA566000R0000		3	138
Plug						
Grey	☐	FI-RJ45-DIA4	1SNA566001R0000		1	69.6

Compatible products

Lid / Cover	Plug	Socket
Included	FI-RJ45-DIA4	–
–	–	TC-E-RJ45-INF

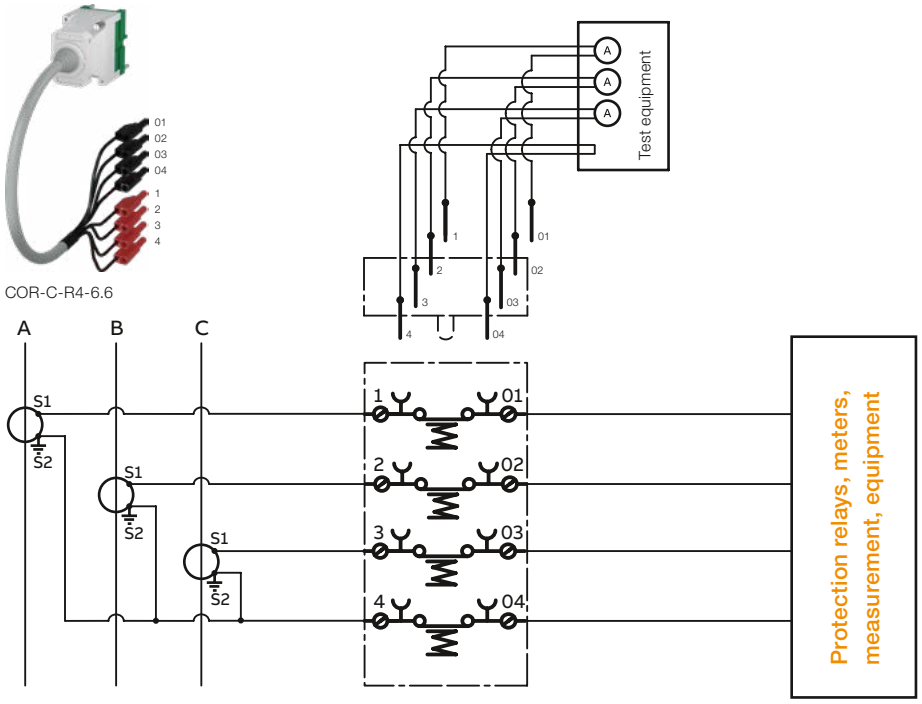
Accessories

	Description	Color		Type	Part Number		Pkg qty	Weight (1 pce) g
1	Protecting covers for RJ45 sockets	Grey	☐	CPT-RJ45	1SNA167002R0000		1	25.4

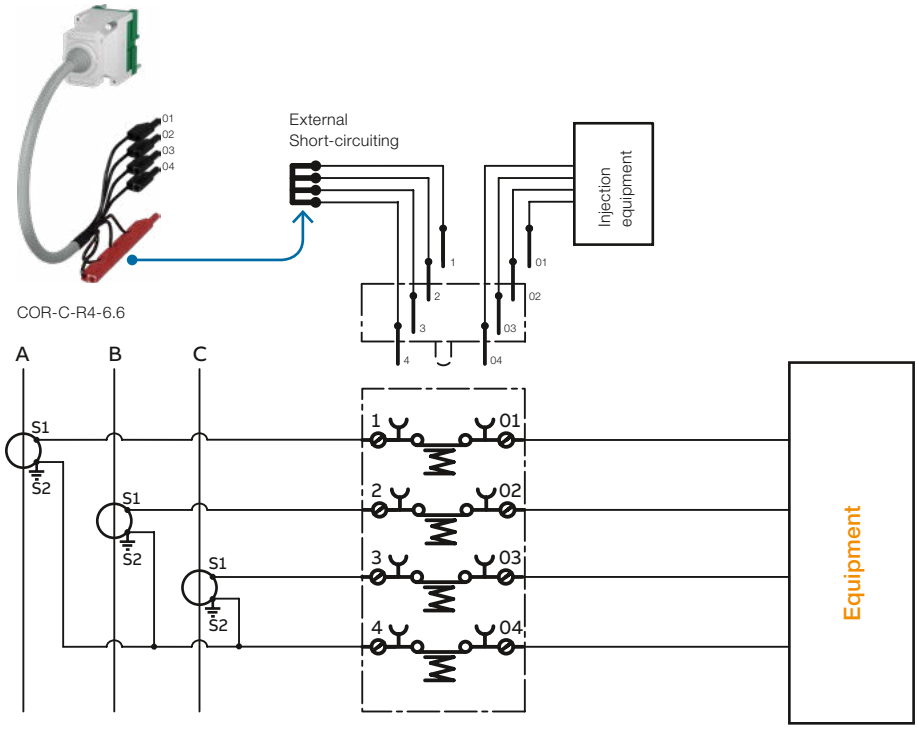
For connection details, please refer to mounting instruction 1SNC169044L1701

1SNC169010S0201

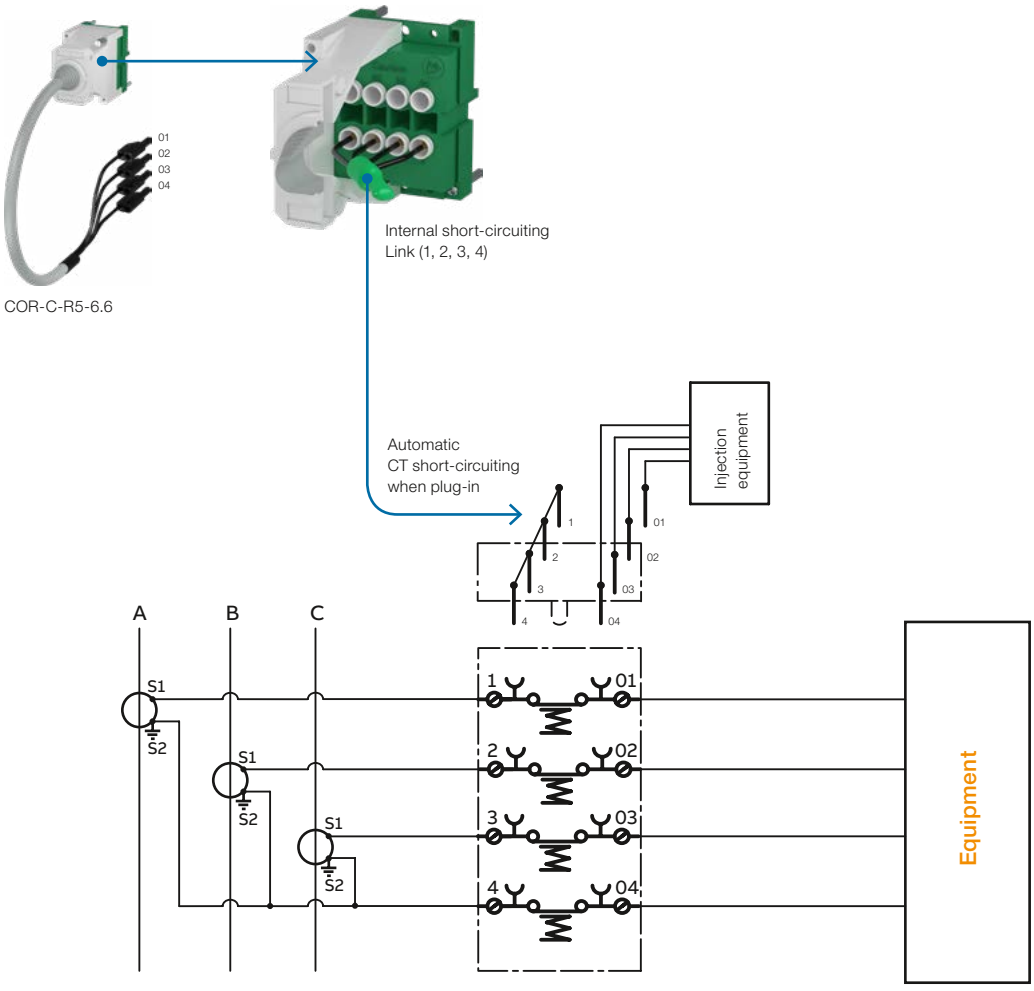
Measurement with 2x4 poles test plug



Injection or equipment replacement with 2x4 poles test plug



Injection or equipment replacement with 2x4 poles test plug (4 poles short-circuit)



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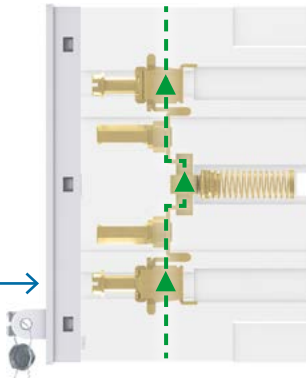
Current transformers application
Make before break test principle - With 2x4 poles test plug

Applications
- Measurement on CT's
- Injection
- Equipment replacement

1. Normal service

1.1 ESSAILEC® current sockets allow the simultaneous testing operations of 1 to 4 independent circuits on the same socket.

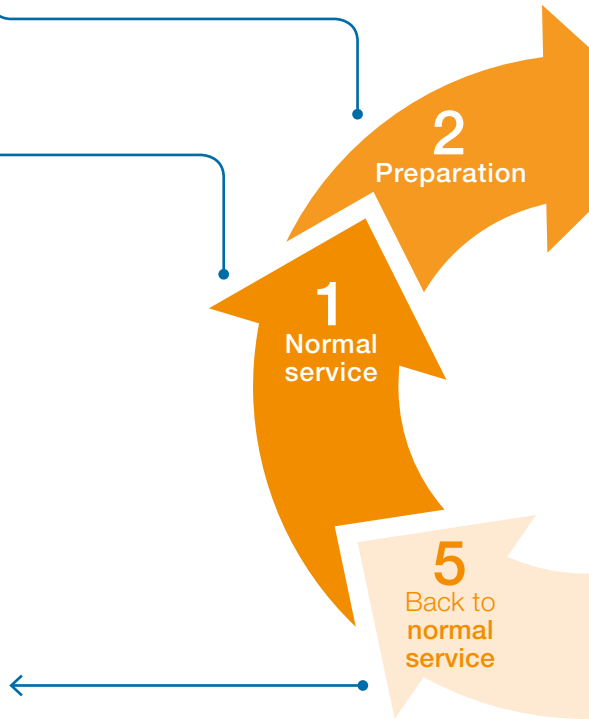


1.2 The lid is installed on the socket and can be sealed to prevent unauthorized access. **The socket circuits are closed** and signals flow from current transformers to the equipment to be tested.

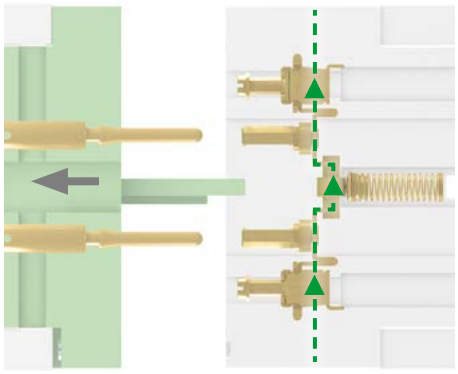
2. Preparation: plug and lid

2.1 The lid is removed.

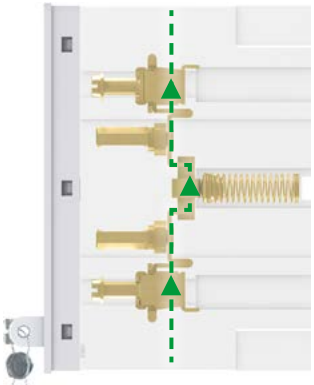
2.2 **Connect the ESSAILEC® test plug leads** to the test set. (For equipment change or injection, short-circuit externally the 4 test leads connected on the current transformer side: 1-2-3-4)



5. Back to normal service

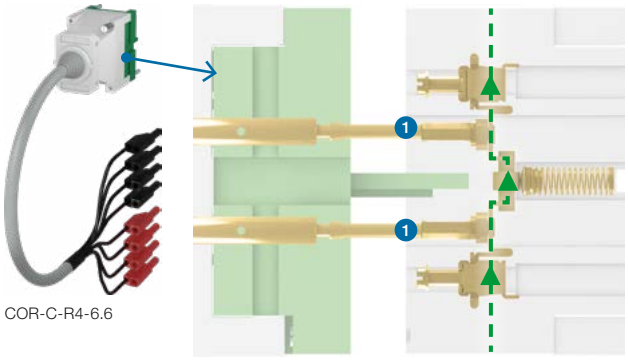


5.1 **Plug removal closes back the socket contacts** and signals flow again through the socket.



5.2 Lid is put back in place.

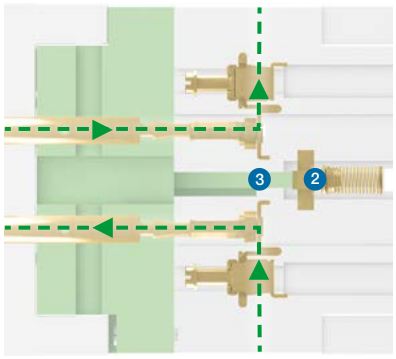
3. Test phase: Make



COR-C-R4-6.6

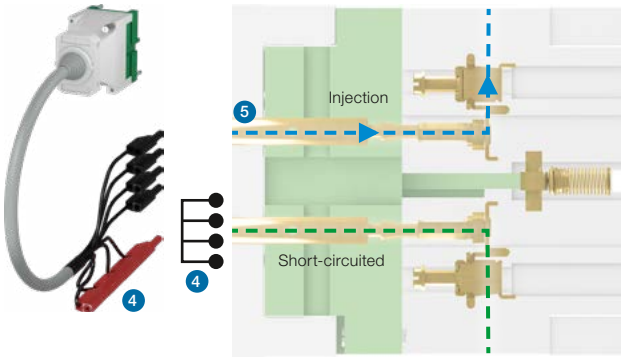
During plug insertion, plug pins make contact with socket pins (1). **Contacts remain closed and the signal flow has not change.** This operation prevent signal interruption (mandatory for current transformers).

4.1 Measurement: Test phase - Break



When the plug is fully inserted in the socket, inner mobile contacts (2) are pushed down by plug's plastic leads (3) and **the four circuits are opened simultaneously**. Signals are derived into the plug towards the test set without interruption of continuity.

4.2 Injection or equipment replacement: Test phase - Break



During preparation phase, the plug 4 test leads (1-2-3-4: current transformer side) **have been short-circuited externally (4).**
When the plug is fully inserted in the socket, **the current transformer is automatically short-circuited** and current injection (or equipment change) can be done on the equipment side (5).

3 Test phase: **Make**

4 Test phase: **Break**

3

1SNC169011S0201

Current transformers application

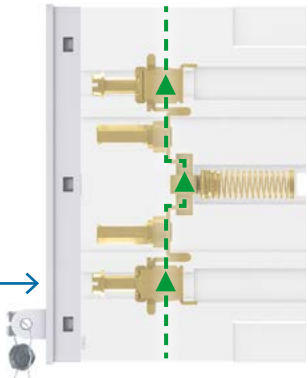
Make before break test principle - With 2x4 poles test plug (4 poles short-circuited)

Applications

- Measurement on CT's
- Injection
- Equipment replacement

1. Normal service

1.1 ESSAILEC® current sockets allow the simultaneous testing operations of 1 to 4 independent circuits on the same socket.



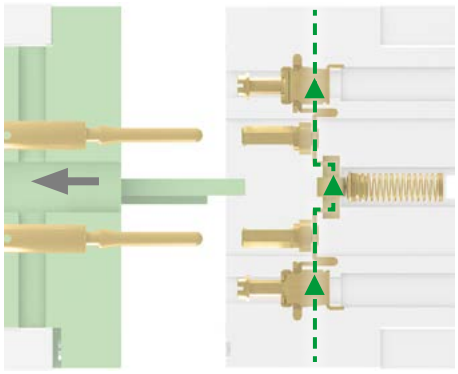
1.2 The lid is installed on 2.1 The lid **is removed.** equipment side (1-2-3-4). The socket and can be sealed **to prevent unauthorized access.** The socket circuits are closed and signals flow from current transformers to the equipment to be tested.

2. Preparation: plug and lid

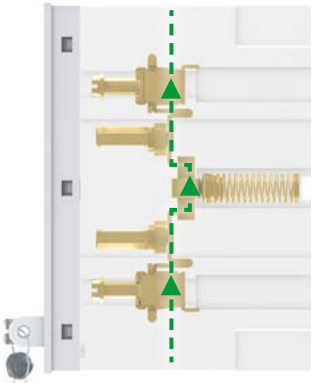
2.1 The lid **is removed.**

2.2 **Connect the ESSAILEC® test plug** leads to the test set. This plug is equipped with a built-in short-circuiting on equipment side (1-2-3-4).

5. Back to normal service

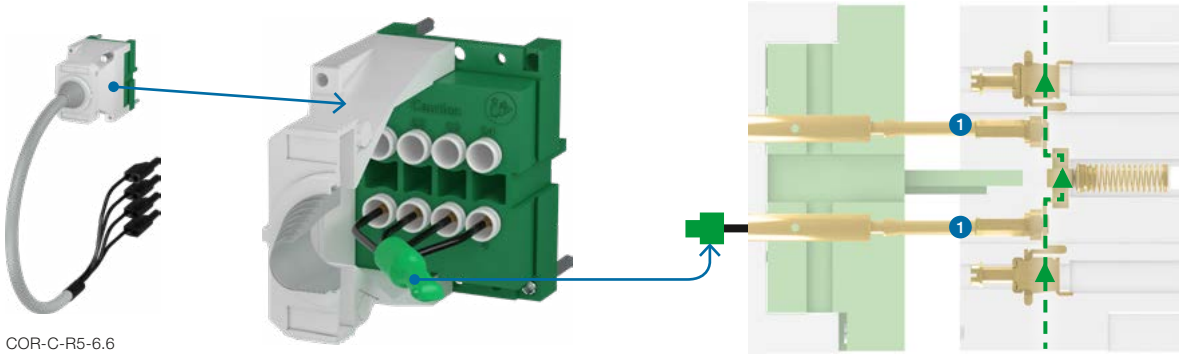


5.1 **Plug removal closes back the socket contacts** and signals flow again through the socket.



5.2 Lid is put back in place.

3. Test phase: Make & CT short-circuiting



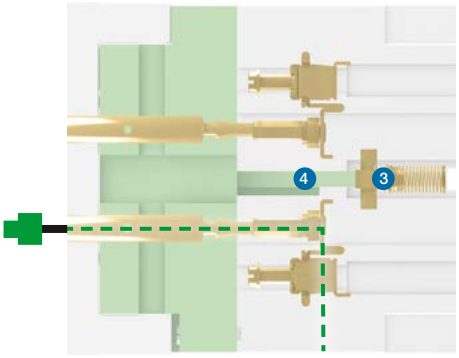
COR-C-R5-6.6

The plug is equipped with built in short circuited contacts on current transformers side (1-2-3-4)
During plug insertion, plug pins make contact with the socket pins (1), **and simultaneously the current transformer is short-circuited.**

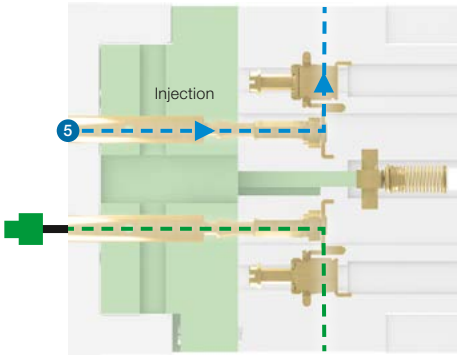
3
Test phase:
Make

4
Test phase:
Break

4. Test phase: Break and short-circuit (injection or equipment replacement)



4.1 When the plug is fully inserted in the socket, inner **mobile contacts (3) are opened by plastic lead (4).** The current transformer is automatically short-circuited and circuits are opened.



4.2 Current injection can be done on the equipment (5).

1SNC169012S0201

CC-E-VA

Description

Short-circuited type contacts for measurement, calibration and distribution applications.

Make before break principle:

- The circuit is automatically shorted with the insertion of the plug.
- The circuit closes automatically when the plug is removed.
- This system guarantees a complete safety.
- By convention, green coding is for current circuit.

Main technical data

Connecting capacity		IEC 947-1
Screw clamp (VL)	Rigid - Solid / Stranded	0.2 ... 6 mm²
	Flexible	0.22 ... 4 mm²
Ring tongue (VA)	Flexible	0.34 ... 10 mm²
	Ø lug hole size	3 mm
	Width	7.5 mm
Body		Polycarbonate
Conductive parts		Gold-plated
Rated voltage		400 V
Impulse withstand voltage		4000 V
Pollution degree		3
Rated current		15 A
Short-circuit current		100 A/5 s ... 200 A/1 s
Storage temperature range		-25 ... +70 °C
Working temperature range		-10 ... +55 °C
Protection without lid / with lid		IP20 / IP40
Coding color		Green

Mounting instructions

Rail		G32, TH 35-7.5, TH 35-15
Screw clamp		
Wire stripping length		9.5 mm 0.370 in
Tool		Flat screwdriver Ø 4 mm Ø 0.157 in
Torque		0.5 ... 0.8 Nm 4.4 ... 7.1 lb.in

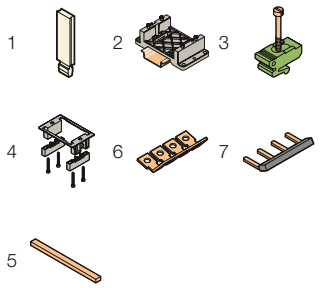
Ordering details

Compatible products

Type	Part Number		Pkg qty	Weight 1 pce g	Lid	Cover	Universal plug Ø 4 mm	Pre-wired plugs 2x4 poles Ø 4 mm bayonet	4 poles Ø 4 mm bayonet	1 pole Ø 4 mm bayonet
Flush mounting										
Ring-tongue										
CC-E-VA	1SNA166737R2000		1	145	CPC-1	–	FIC-2/4-DIA4	COR-C-R4-6.6	COR-C-R5-6.6	COR-C-R3
CC-E-VA-6.6	1SNA166625R2000		1	150	Lid + coding included					
CC-E-VA-R2-6.6	1SNA166976R0000		50	170				COR-C-R1-6.6	COR-C-R2-6.6	COR-C-3
Base / Half-base mounting										
Screw clamp										
CC-S-INF-VL-6.6	1SNA166722R2100		1	200	–	Cover + coding included	FIC-2/4-DIA4	COR-C-R4-6.6	COR-C-R5-6.6	COR-C-R3
								COR-C-R1-6.6	COR-C-R2-6.6	COR-C-3
Ring-tongue										
CC-D-VA	1SNA166738R0100		1	90	CPC-1	–	FIC-2/4-DIA4	COR-C-R4-6.6	COR-C-R5-6.6	COR-C-R3
								COR-C-R1-6.6	COR-C-R2-6.6	COR-C-3
TH35 rail mounting										
Screw clamp										
CC-TH35-VL-6.6	1SNA166963R0000		1	114	CPC-1	included	FIC-2/4-DIA4	COR-C-R4-6.6	COR-C-R5-6.6	COR-C-R3
								COR-C-R1-6.6	COR-C-R2-6.6	COR-C-3
Rack mounting										
Ring-tongue										
CC-R-VA	1SNA166523R1200		1	140	CPC-1	–	FIC-2/4-DIA4	–	–	COR-C-R3
								–	–	COR-C-3
Reverse mounting										
Ring-tongue										
CC-I-VA-2	1SNA166941R2500		1	210	–	–	–	–	–	COR-C-R3
								–	–	COR-C-3

* compatible with CC-DS-VL socket only in "base" mounting option.

1SNC169016S0201



Accessories

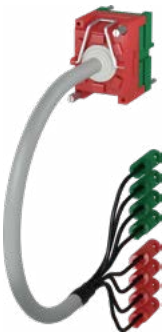
	Description		Type	Part Number		Pkg qty	Weight 1 pce g
1	Interlocking peg	For 2 sockets assembly	CVABM	1SNA183436R0500		10	0.4
2	Mounting kits	For TH35 rail (a)	KEM-3	1SNA166962R0000		10	24
3		For DIN 1 rail (a)	FX	1SNA167682R2300		10	20
4		For ring-tongue flush mounting (b)	KEM-1	1SNA166928R2000		50	18
6	Lateral jumper bars	Compatible with ring-tongue connection only (VA) (b)	PCVA	1SNA167496R1100		10	1
7		Compatible with screw connection only (VL); IP20 (c)	PCVL	1SNA167681R2200		10	1
5	Jumper bars	For two sockets screw connection type (c)	BJ-VL	1SNA167680R0500		10	1

(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).

Compatible products

Lid
CPC-1

Cover
CPC-7


Plug 2x4 poles bayonet
COR-C-R1-6.6


Plug 4 poles bayonet
COR-C-R2-6.6


Plug 1 pole bayonet
COR-C-3


Universal plug
FIC-2/4-DIA4


Plug 2x4 poles Ø 4 mm
COR-C-R4-6.6


Plug 4 poles Ø 4 mm
COR-C-R5-6.6


Plug 1 pole Ø 4 mm
COR-C-R3

Connection technologies


Ring-tongue


Screw clamp

1SNC169016S0201

Description

- Standard current plugs are compatible with ESSAILEC® current sockets.
- Plugs are pre-wired with contact pins (BRE...) , coding, cables and test plugs assembled to ease your test operations.

Main technical data

Connecting capacity	IEC 947-1
Body	Polycarbonate
Conductive parts	Gold-plated
Rated voltage	400 V
Impulse withstand voltage	4000 V
Pollution degree	3
Rated current	15 A
Short-circuit current	100 A/5 s ... 200 A/1 s
Storage temperature range	-25 ... +70 °C
Working temperature range	-10 ... +55 °C

Ordering details

	Description	Type	Part Number		Pkg qty	Weight 1 pce g	Compatible products Socket
Plug 2x4 poles							
	1 plug 2x4 pins / Green 4 x Ø 4 mm test plugs / Black 4 x Ø 4 mm test plugs / Red Conductors section: 2.5 mm² cable length: 2 m / 79"	COR-C-R4-6.6	1SNA167932R1500		1	1080	CC-E-VA CC-E-VA-6.6 CC-E-VA-R2-6.6 CC-S-INF-VL-6.6 CC-D-VA CC-TH35-VL-6.6
	1 plug 2x4 pins / Green 4 bayonet security test plugs / Green 4 bayonet security test plugs / Red Conductors section: 2.5 mm² cable length: 2 m / 79"	COR-C-R1-6.6	1SNA166638R0500		1	1080	CC-E-VA CC-E-VA-6.6 CC-E-VA-R2-6.6 CC-S-INF-VL-6.6 CC-D-VA CC-TH35-VL-6.6
Plug 4 poles							
	1 plug 2x4 pins with 4 short circuited pins (1-2-3-4) / Green 4 x Ø 4 mm test plugs / Black Conductors section: 2.5 mm² cable length: 2 m / 79"	COR-C-R5-6.6	1SNA167934R1700		1	670	CC-E-VA CC-E-VA-6.6 CC-E-VA-R2-6.6 CC-S-INF-VL-6.6 CC-D-VA CC-TH35-VL-6.6
	1 plug 2x4 pins with 4 short circuited pins (1-2-3-4) / Green 1 bayonet security test plug / Green 1 bayonet security test plug / Grey 1 bayonet security test plug / Brown 1 bayonet security test plug / Yellow Conductors section: 2.5 mm² cable length: 2 m / 79"	COR-C-R2-6.6	1SNA166778R1100		1	670	CC-E-VA CC-E-VA-6.6 CC-E-VA-R2-6.6 CC-S-INF-VL-6.6 CC-D-VA CC-TH35-VL-6.6
Plug 1 pole							
	1 plug 2 pins / Red 2 dia. 4 mm test plugs / Black	COR-C-R3	1SNA166979R0000		1	320	CC-E-VA CC-E-VA-6.6 CC-E-VA-R2-6.6 CC-S-INF-VL-6.6 CC-D-VA CC-TH35-VL-6.6 CC-R-VA CC-I-VA-2
	1 plug 2 pins / Red 2 bayonet security test plugs / Yellow	COR-C-3	1SNA166643R0200		1	320	CC-E-VA CC-E-VA-6.6 CC-E-VA-R2-6.6 CC-S-INF-VL-6.6 CC-D-VA CC-TH35-VL-6.6 CC-R-VA CC-I-VA-2

1SNC169017S0201

FIC-2/4-DIA4

Description

- Universal adaptor compatible with all ESSAILEC® current socket
- It ensures quick and consistently reliable ESSAILEC® sockets tests
- Ø 4 mm test plugs may be inserted directly without the need for extra accessories or tools. It is compatible with all the insulated Ø 4mm test plugs available on the market

Standard current plugs are compatible with ESSAILEC® current sockets.

- Plugs are pre-wired with contact pins (BRE...) , coding, cables and test plugs assembled to ease your test operations.

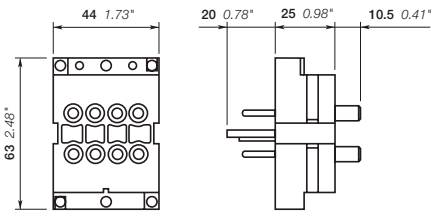
Main technical data

Connecting capacity	IEC 947-1
Body	Polycarbonate
Conductive parts	Gold-plated
Rated voltage	400 V
Impulse withstand voltage	4000 V
Pollution degree	3
Rated current	15 A
Short-circuit current	100 A/5 s ... 200 A/1 s
Storage temperature range	-25 ... +70 °C
Working temperature range	-10 ... +55 °C

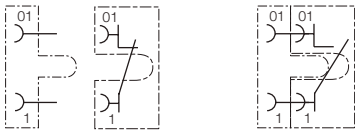
Ordering details

Compatible products

Description	Type	Part Number		Pkg qty	Weight 1 pce g	Socket
Universal plug						
Plug 2x4 pins with direct insertion Ø 4 mm	FIC-2/4-DIA4	1SNA167937R0000		1	60	CC-E-VA CC-E-VA-6.6 CC-E-VA-R2-6.6 CC-S-INF-VL-6.6 CC-D-VA CC-TH35-VL-6.6 CC-R-VA



Dimensions (mm, inches)



Adaptor Socket Adaptor + socket

Electrical wiring for a socket with short-circuited contacts and an universal adaptor

For connection details, please refer to mounting instruction 1SNC169041L0201

1SNC169018S0201

Description

Short-circuited type contacts for measurement, calibration and distribution applications.

Make before break principle:

- The circuit is automatically shorted with the insertion of the plug.
- The circuit closes automatically when the plug is removed.
- This system guarantees a complete safety.
- By convention, green coding is for current circuit.

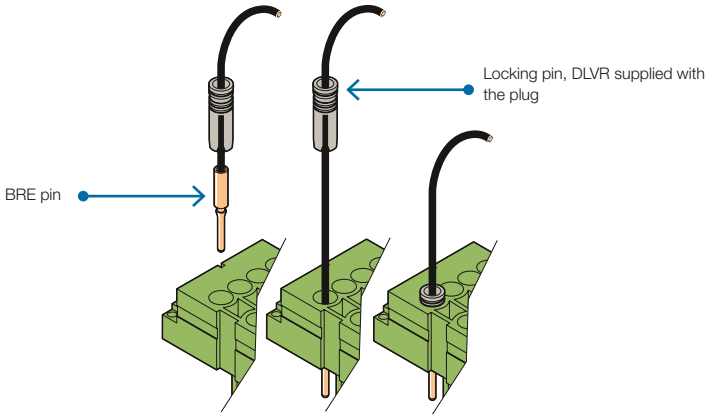
Ordering details

Description	Type	Part Number		Pkg qty	Weight 1 pce g	Compatible products Socket
1 pole plug with contact pins						
Plug with 2x 2.5 mm² contact pins (BRE-C-2.5), without coding pins.	FIC-2/1-1	1SNA166819R2300		1	27	CC-E-VA CC-E-VA-6.6 CC-E-VA-R2-6.6 CC-S-INF-VL-6.6 CC-D-VA CC-TH35-VL-6.6 CC-R-VA CC-I-VA-2
Plugs without contact pins (contact pins BRE-C..., to be ordered separately)						
Plugs 2x4 poles, long cover, with 2 coding pins (COP-FI-1) and 8 locking pins. Contacts pins (BRE-C...) to be ordered separately.	FIC-2/4-2	1SNA166936R1000		1	105	CC-E-VA CC-E-VA-6.6 CC-E-VA-R2-6.6 CC-S-INF-VL-6.6 CC-D-VA CC-TH35-VL-6.6
Plugs 2x4 poles, short cover, with 2 coding pins (COP-FI-1) and 8 locking pins. Contacts pins (BRE-C...) to be ordered separately.	FIC-2/4-1	1SNA166525R1400		1	91	CC-E-VA CC-E-VA-6.6 CC-E-VA-R2-6.6 CC-S-INF-VL-6.6 CC-D-VA CC-TH35-VL-6.6
Plug 2x4 poles, rack mounting R version, with 2 coding pins (COP-FI-1) and 8 locking pins. Contacts pins (BRE-C...) to be ordered separately.	FIC-2/4-R	1SNA166529R2000		1	80	CC-R-VA
Plug 2x4 poles, reverse mounting I version, with 2 coding pins (COP-FI-1) and 8 locking pins. Contacts pins (BRE-C...) to be ordered separately.	FIC-2/4-I	1SNA166589R2500		1	60	CC-I-VA-2
BRE contact pins						
Pin 1 mm²	BRE-C-1	1SNA167264R0700		10	2.6	–
Pin 1.5 mm²	BRE-C-1.5	1SNA167265R0000		10	2.6	–
Pin 2.5 mm²	BRE-C-2.5	1SNA167260R1700		10	3	–
Pin 4 mm²	BRE-C-4	1SNA205876R0400		10	3	–
Pin 6 mm²	BRE-C-6	1SNA168146R0200		10	3	–
Tools for contact pins						
1 Pin extraction tool	EXBR1	1SNA167008R0300		1	24	–
2 Crimping tool for BRE pins 1 to 2.5 mm² (1)	PSC	1SNA173181R1300		1	478	–
3 Locking sleeve for contact pin	DLVR	1SNA167971R2400		10	0.4	–
dia 4 mm test plugs						
4 IP20 with mobile protection	FC4-1	1SNA167927R1000		10	11	–
5 IP20 with permanent protection	FC4-5	1SNA167931R1400		10	10	–
Bayonet plugs						
6 Bayonet security test plug / Black	FCB-1	1SNA167690R0700		10	7	–
Bayonet security test plug / Red	FCB-2	1SNA167692R2500		10	7	–
7 Isolating cap for FCB plug	CA	1SNA167697R2200		10	1.2	–
Accessories						
8 Straight adaptor	IR1	1SNA167622R2600		5	15	–
9 H adaptor (short-circuit bridge)	IR2	1SNA167623R2700		5	35	–
10 Isolating cap for IR1 and IR2 adaptors	DI	1SNA167981R1700		10	7	–
11 Adaptor between FCB plug and ring-tongue test interface	IR3	1SNA167624R2000		10	6.4	–
Coding pins						
12 Plug coding pin	COP-FI-1	1SNA167378R1100		10	2.3	–

(1) Refering to 1SNC169040D1702 to find other crimping tools

1SNC169019S0201

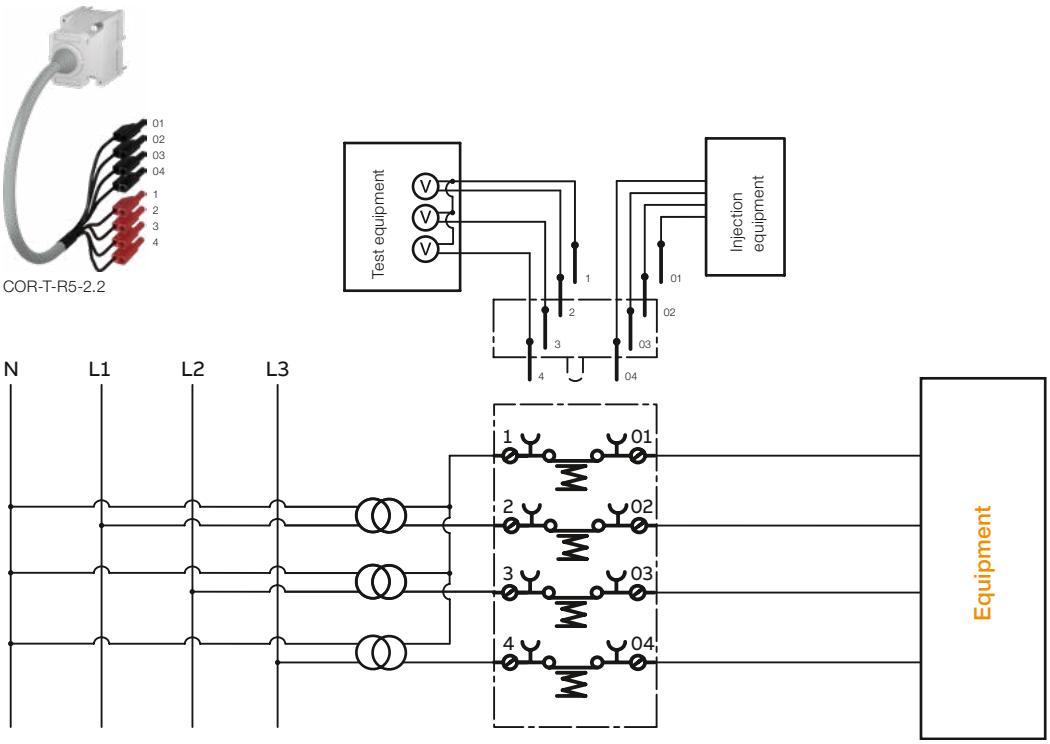
Pin installation on plugs



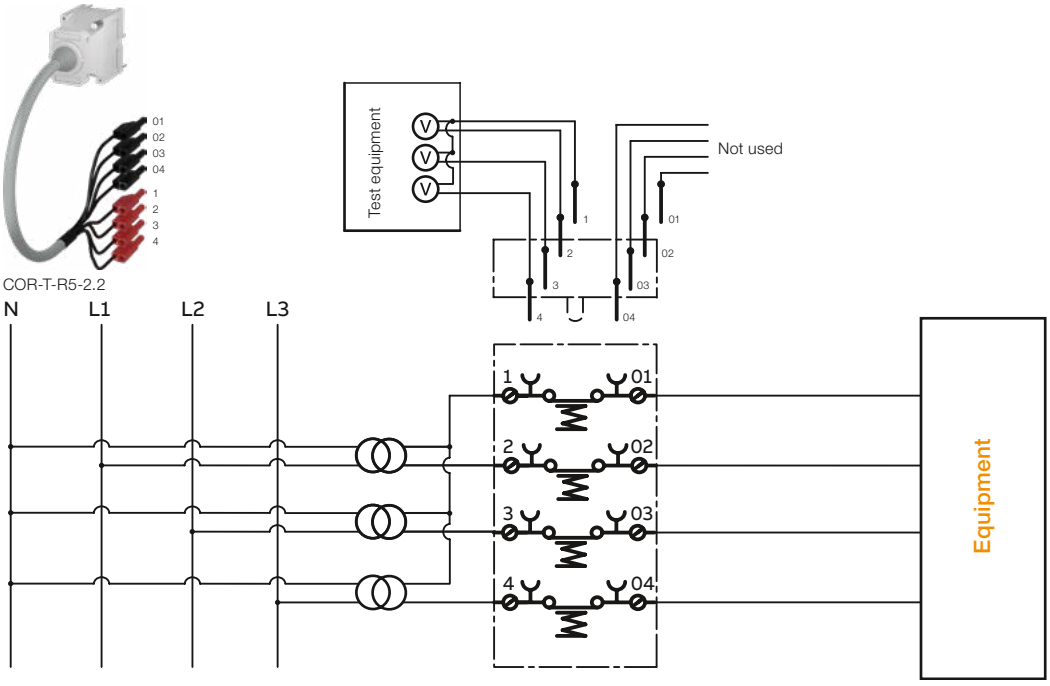
1SNC169019S0201

Voltage transformers application

Simultaneous measurement and injection with 2x4 poles test plug



Measurement with 2x4 poles test plug



Injection with 2x4 poles test plug

COR-T-R5-2.2

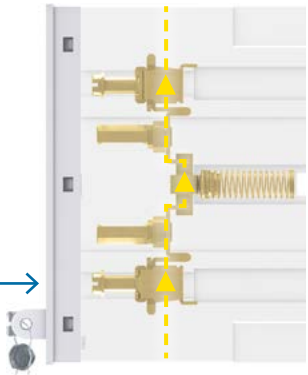
1SNC169006S0201

Voltage transformers application
Make before break test principle - With 2x4 poles test plug

Applications
- Measurement on VT's
- Injection
- Equipment replacement

1. Normal service

1.1 ESSAILEC® voltage sockets allow the simultaneous testing operations of 1 to 4 independent circuits on the same socket.

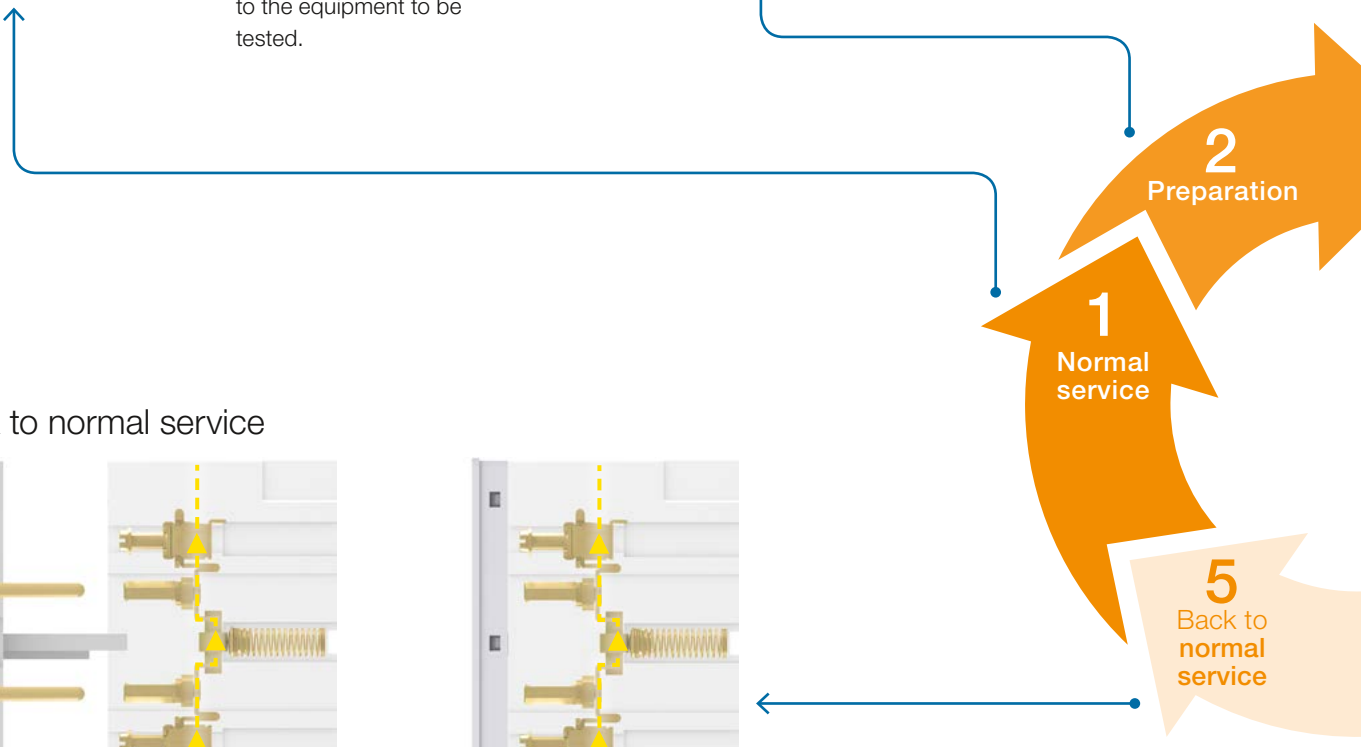


1.2 The lid is installed on the socket and can be sealed to prevent unauthorized access. **The socket circuits are closed** and signals flow from current transformers to the equipment to be tested.

2. Preparation: plug and lid

2.1 The lid **is removed.**

2.2 **Connect the ESSAILEC® test plug leads** to the test set.

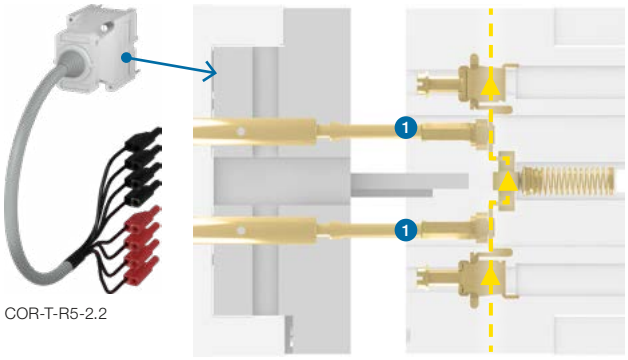


5. Back to normal service

5.1 **Plug removal closes back the socket contacts** and signals flow again through the socket.

5.2 Lid is put back in place.

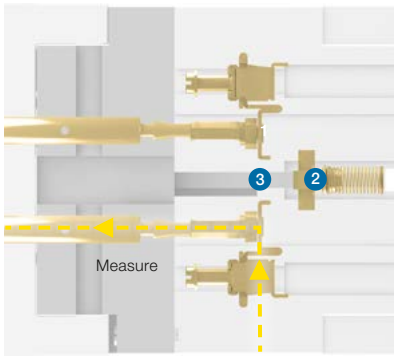
3. Test phase: Make



COR-T-R5-2.2

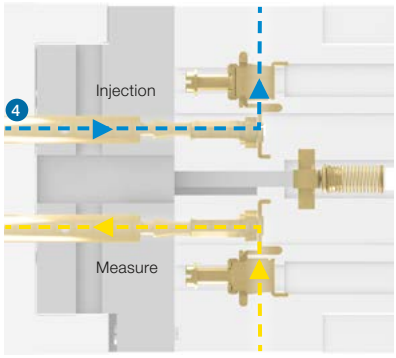
During plug insertion, plug pins make contact with socket pins (1). **Contacts remain closed and the signals flow has not changed.**

4.1 Measurement: test phase - Break



When the plug is fully inserted in the socket, inner mobile contacts (2) are pushed down by plug's plastic leads (3) and **the four circuits are opened simultaneously.** Signals are derived into the plug towards the test set. The equipment to be tested is no more energized.

4.2 Injection or equipment replacement: test phase - Break



In a second step or simultaneously, **voltage injection** can be done on the protection relay side (4).

4

1SNC169013S0201

TC-E-VA

Description

Short-circuited contacts for measurement, calibration and distribution applications.

Make before break principle:

- The circuit is automatically shorted with the insertion of the plug.
- The circuit closes automatically when the plug is removed.
- This system guarantees a complete safety.
- By convention grey coding is for voltage circuits and blue coding is for polarity circuits.

Main technical data

Connecting capacity		IEC 947-1
Screw clamp (VL)	Rigid - Solid / Stranded	0.2 ... 6 mm²
	Flexible	0.22 ... 4 mm²
Ring tongue (VA)	Flexible	0.34 ... 10 mm²
	Ø lug hole size	3 mm
	Width	7.5 mm
Quick-connect	Flexible	2.5
Body		Polycarbonate
Conductive parts		Silver-plated
Rated voltage		400 V
Impulse withstand voltage		4000 V
Pollution degree		3
Rated current		8 A
Short-circuit current		25 A/5 s ... 800 A/25 ms
Storage temperature range		-25 ... +70 °C
Working temperature range		-10 ... +55 °C
Protection without lid / with lid		IP20 / IP40
Coding color		Grey ☐ - Blue ☐

Mounting instructions

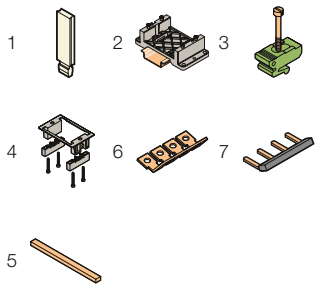
Rail		G32, TH 35-7.5, TH 35-15
Screw clamp		
Wire stripping length		9.5 mm 0.370 in
Tool		Flat screwdriver Ø 4 mm Ø 0.157 in
Torque		0.5 ... 0.8 Nm 4.4 ... 7.1 lb.in

Ordering details

Color	Type	Part Number		Pkg qty	Weight 1 pce g	Lid	Cover	Universal plug	Pre-wired plugs 2x4 poles	Pre-wired plugs 4 poles
Flush mounting										
Ring-tongue										
Grey ☐	TC-E-VA	1SNA166747R0200		1	140	CPT-1	–	FI-2/4-DIA4	COR-T-R5-2.2	COR-T-4-4
	TC-E-VA-2-2	1SNA166627R2200		1	150	Lid + coding included				
	TC-E-VA-R2-2.2	1SNA166977R0000		50	150					
Blue ☐	PC-E-VA	1SNA166763R0200		1	145	CPP-1			COR-P-R1-8.8	–
	PC-E-VA-8.8	1SNA166630R0100		1	200	Lid + coding included				
Quickconnect										
Grey ☐	TC-E-C5A-2.2	1SNA166628R0300		1	170	Lid + coding included	–	FI-2/4-DIA4	COR-T-R5-2.2	COR-T-4-4
Base / Half-base mounting										
Screw clamp										
Grey ☐	TC-DS-VL	1SNA166742R0500		1	100	CPT-1	CPT-5 (1)	FI-2/4-DIA4	COR-T-R5-2.2	COR-T-4-4 (2)
	TC-S-INF-VL-2.2	1SNA166948R0400		1	170	–	Cover + coding included			COR-T-4-4
Blue ☐	PC-DS-VL	1SNA166758R1500		1	130	CPT-1	–		COR-P-R1-8.8	–
Ring-tongue										
Grey ☐	TC-D-VA	1SNA166748R1300		1	147	CPP-1	–	FI-2/4-DIA4	COR-T-R5-2.2	COR-T-4-4 (2)
Blue ☐	PC-D-VA	1SNA166764R0300		1	115				COR-P-R1-8.8	–
TH35 rail mounting										
Screw clamp										
Grey ☐	TC-TH35-VL	1SNA166964R0000		1	114	CPT-1	CPT-5	FI-2/4-DIA4	COR-T-R5-2.2	COR-T-4-4

(1) Compatible only in base mounting option.
(2) Compatible with some restrictions, please contact us.
Information on pre-wired plugs: Please refer to page "ESSAILEC® pre-wired plugs for voltage transformers".

1SNC169020S0201



Accessories

	Description		Type	Part Number		Pkg qty	Weight 1 pce g
1	Interlocking peg	For 2 sockets assembly	CVABM	1SNA183436R0500		10	0.4
2	Mounting kits	For TH35 rail (a)	KEM-3	1SNA166962R0000		10	24
3		For DIN 1 rail (a)	FX	1SNA167682R2300		10	20
4		For ring-tongue flush mounting (b)	KEM-1	1SNA166928R2000		50	18
6	Lateral jumper bars	Compatible with ring-tongue connection only (VA) (b)	PCVA	1SNA167496R1100		10	1
7		Compatible with screw connection only (VL); IP20 (c)	PCVL	1SNA167681R2200		10	1
5	Jumper bars	For two sockets screw connection type (c)	BJ-VL	1SNA167680R0500		10	1

(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).

Compatible products

Lid
CPC-1

Cover
CPC-7

Universal plug
FI-2/4-DIA4

Plug 2x4 poles
COR-T-R5-2.2

Plug 4 poles
COR-T-4-4
Design for insertion 01-02-03-04

Connection technologies

Ring-tongue

Screw clamp

Quick-connect

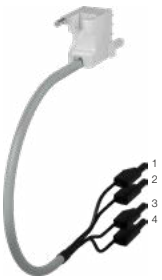
1SNC169020S0201

Simultaneous measurement and injection with 2x4 poles test plug

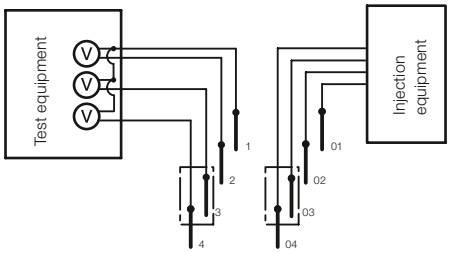
COR-T-R5-2.2

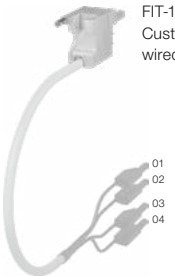
1SNC169007S0201

Measurement or/and injection with 4 poles test plugs

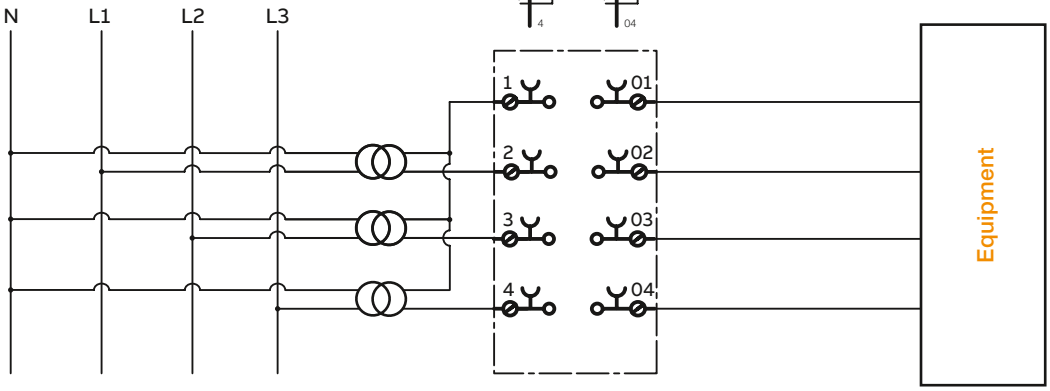


FIT-1/4-G





FIT-1/4-D
Customized plug to be wired by user.



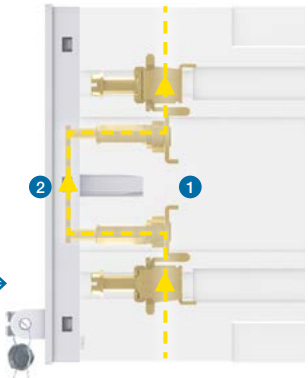
1SNC169007S0201

Voltage transformers application
Break before make test principle - With 2x4 or 4 poles test plug

Applications
- Measurement on VT's
- Injection
- Equipment replacement

1. Normal service

1.1 ESSAILEC® voltage sockets allow the simultaneous testing operations of 1 to 4 independent circuits on the same socket.



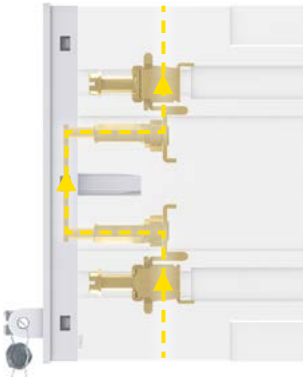
1.2 The lid is installed on the socket and can be sealed to prevent unauthorized access. **The socket has no mobile contacts (closed style) (1).** Circuit continuity is ensured by the lid equipped with built- in contact pins (2).

2. Preparation: plug

Connect the ESSAILEC® test plug leads to the test set.

5. Back to normal service

5.1 When the plug is removed, **signals are disconnected.**

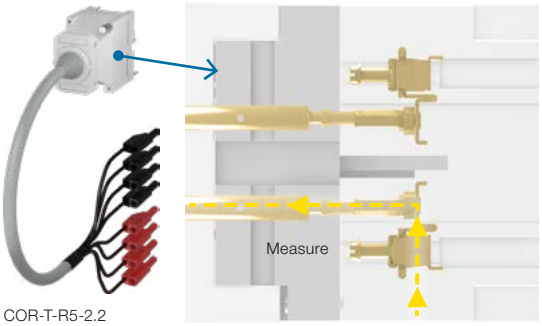


5.2 When lid is put back in place, **signals flow again through the socket.**

3. Test phase: Break

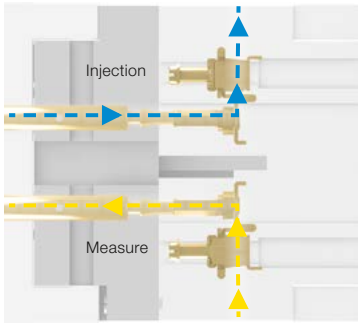
Removing of the lid **opens the circuit.**
The device to be tested is then isolated from the power supply (VT) and is no longer energized.

4. Simultaneous measurement and injection Test phase: Make with 2x4 poles test plugs



COR-T-R5-2.2

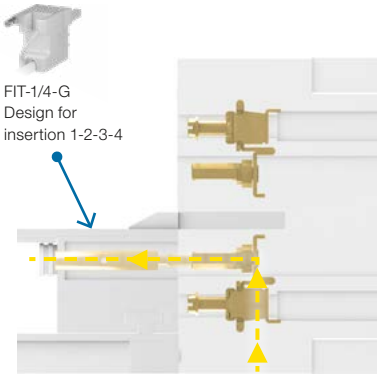
4.1 The plug is fully inserted in the socket, **the signals are derived** into the plug towards the test set.



4.2 While the plug is still in place **simultaneous injection** can be realized on the equipment.

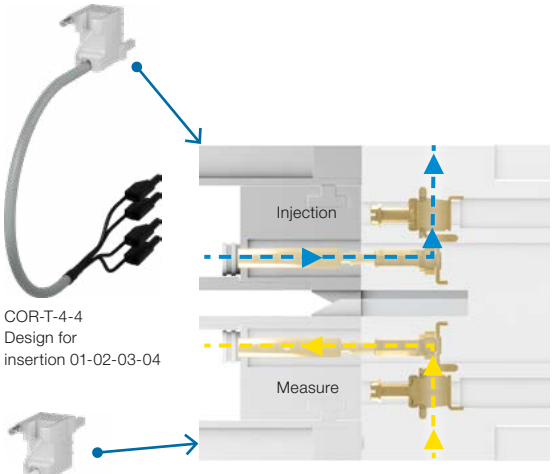
OR

4. Separated measurement and injection Test phase: Make with 4 poles test plugs



FIT-1/4-G
Design for
insertion 1-2-3-4

4.1 The plug is fully inserted in the socket, **the signals are derived** into the plug towards the test set.



COR-T-4-4
Design for
insertion 01-02-03-04

FIT-1/4-G
Design for
insertion 1-2-3-4

4.2 While the plug is still in place, a second plug can be installed for **injection** on the equipment.

3 Test phase: **Make**

4 Test phase: **Break**

4

1SNC169014S0201

TO-E-VA

Description

Opened type contacts for measurement and calibration applications.

Break before make principle:

- The connection is made thanks to the lid: the removing of the lid opens the circuit. So the device is isolated from power supply to be tested.
- The circuit is closed only when the lid is reinstalled.
- By convention, grey coding is for voltage circuits blue coding is for polarity circuits and orange coding is for trip circuits.

Main technical data

Connecting capacity		IEC 947-1
Screw clamp (VL)	Rigid - Solid / Stranded	0.2 ... 6 mm²
	Flexible	0.22 ... 4 mm²
Ring tongue (VA)	Flexible	0.34 ... 10 mm²
	Ø lug hole size	3 mm
	Width	7.5 mm
Body		Polycarbonate
Conductive parts		Silver-plated
Rated voltage		400 V
Impulse withstand voltage		4000 V
Pollution degree		3
Rated current		8 A
Short-circuit current		25 A/5 s ... 800 A/25 ms
Storage temperature range		-25 ... +70 °C
Working temperature range		-10 ... +55 °C
Protection without lid / with lid		IP20 / IP40
Coding color		Grey - Blue - Orange

Mounting instructions

Rail		G32, TH 35-7.5, TH 35-15
Screw clamp		
Wire stripping length		9.5 mm 0.370 in
Tool		Flat screwdriver Ø 4 mm Ø 0.157 in
Torque		0.5 ... 0.8 Nm 4.4 ... 7.1 lb.in

Ordering details

Flush mounting

Ring-tongue

Color	Type	Part Number	Pkg qty	Weight 1 pce g	Lid	Cover	Universal plug	Pre-wired plugs 2x4 poles	Pre-wired plugs 4 poles
Grey	TO-E-VA	1SNA166743R0600	1	170	CPT-2	–	FI-2/4-DIA4	COR-T-R5-2.2 (1)	COR-T-4-4
	TO-E-VA-12.12	1SNA166925R1500	1	200	Lid + coding included			FIT-2/4-2 (3)	
Blue	PO-E-VA	1SNA166759R1600	1	170	CPP-2			COR-P-R1-8.8 (1)	–
Orange	DEO-E-VA	1SNA166878R0600	1	170	CPDE-2			FIDE-2/4 (3)	

Base / Half-base mounting

Screw clamp

Color	Type	Part Number	Pkg qty	Weight 1 pce g	Lid	Cover	Universal plug	Pre-wired plugs 2x4 poles	Pre-wired plugs 4 poles
Grey	TO-DS-VL	1SNA166741R0400	1	100	CPT-2	CPT-4 (2)	FI-2/4-DIA4	COR-T-R5-2.2 (1)	COR-T-4-4
	TO-S-INF-VL-12.12	1SNA166723R2200	1	200	–	Cover + coding included	–	FIT-2/4-2 (3)	–
Blue	PO-DS-VL	1SNA166757R0400	1	117	CPP-2	–	FI-2/4-DIA4	COR-P-R1-8.8 (1)	

Ring-tongue

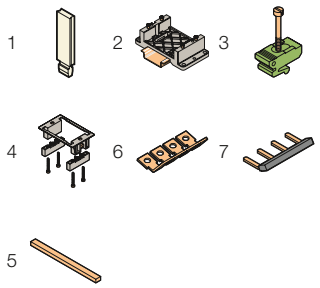
Color	Type	Part Number	Pkg qty	Weight 1 pce g	Lid	Cover	Universal plug	Pre-wired plugs 2x4 poles	Pre-wired plugs 4 poles
Grey	TO-D-VA	1SNA166744R0700	1	139	CPT-2	–	FI-2/4-DIA4	COR-T-R5-2.2 (1)	COR-T-4-4
Blue	PO-D-VA	1SNA166760R1300	1	170	CPP-2			COR-P-R1-8.8 (1)	–
Orange	DEO-D-VA	1SNA166874R2200	1	140	CPDE-2			FIDE-2/4 (3)	

Reverse mounting

Ring-tongue

Color	Type	Part Number	Pkg qty	Weight 1 pce g	Lid	Cover	Universal plug	Pre-wired plugs 2x4 poles	Pre-wired plugs 4 poles
Grey	TO-I-VA-2	1SNA166945R2100	1	190	CPT-2	–	FIT-2/4-I	FIT-2/4-I (3)	–

(1) Compatible with some restrictions.
(2) Compatible in base mounting only.
(3) Plug to be mounted / see customized plugs page.
Information on pre-wired plugs: Please refer to page "ESSAILEC® pre-wired plugs for voltage transformers".



Accessories

	Description		Type	Part Number		Pkg qty	Weight 1 pce g
1	Interlocking peg	For 2 sockets assembly	CVABM	1SNA183436R0500		10	0.4
2	Mounting kits	For TH35 rail (a)	KEM-3	1SNA166962R0000		10	24
3		For DIN 1 rail (a)	FX	1SNA167682R2300		10	20
4		For ring-tongue flush mounting (b)	KEM-1	1SNA166928R2000		50	18
6	Lateral jumper bars	Compatible with ring-tongue connection only (VA) (b)	PCVA	1SNA167496R1100		10	1
7		Compatible with screw connection only (VL); IP20 (c)	PCVL	1SNA167681R2200		10	1
5	Jumper bars	For two sockets screw connection type (c)	BJ-VL	1SNA167680R0500		10	1

(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).

Compatible products

Lid
CPC-1

Cover
CPC-7

Universal plug
FI-2/4-DIA4

Plug 2x4 poles
COR-T-R5-2.2

Plug 4 poles
COR-T-4-4
Design for insertion 01-02-03-04

Connection technologies

Ring-tongue

Screw clamp

1SNC169021S0201

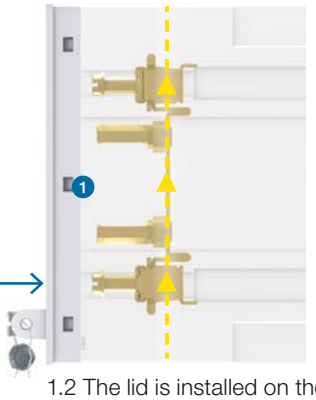
FIT-1/4-D
Customized plug to be wired by user.

1SNC169008S0201

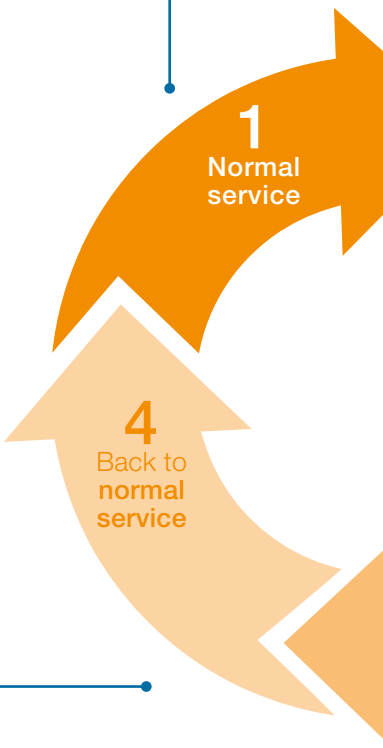
Applications
- Measurement on VT's

1. Normal service

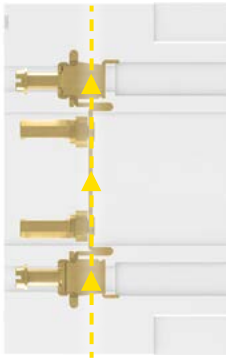
1.1 ESSAILEC® voltage sockets allow the simultaneous testing operations of 1 to 4 independent circuits on the same socket.



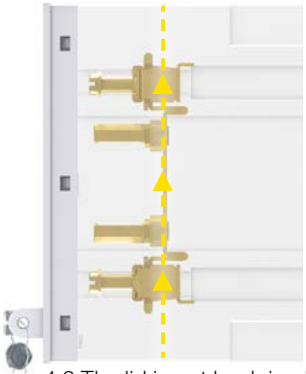
1.2 The lid is installed on the socket and can be sealed to prevent unauthorized access.
The socket has no mobile contacts (closed style) (1).
Circuit continuity is permanent, no possibility of disconnection.



4. Back to normal service



4.1 The plug is removed, and lid is put back in place, signals **never stop to flow through the socket.**



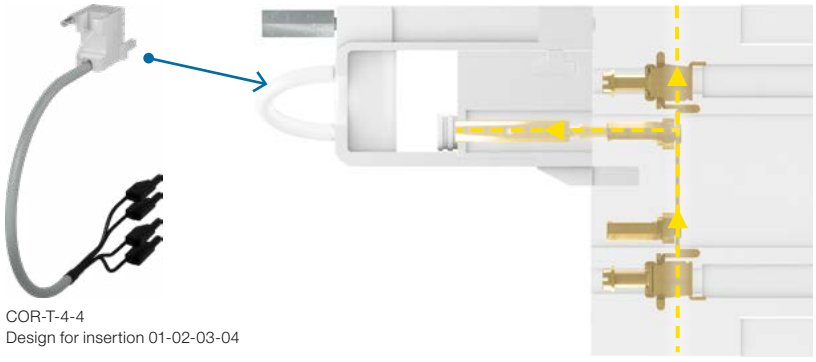
4.2 The lid is put back in place.

2. Preparation: plug and lid

2.1 The lid **is removed.**

2.2 **Connect the ESSAILEC® test plug leads** to the test set.

3. Test phase: Make & Measure



COR-T-4-4
Design for insertion 01-02-03-04

The plug is fully inserted in the socket, **the signals are derived** into the plug towards the test set.

1SNC169015S0201

Voltage transformers application
ESSAILEC® sockets for voltage transformers – closed contact

TF-E-VA

Description

Closed contact principle:

- The electrical connection is continuous. The circuit still closed during the testing operation.
- Closed contacts for measurement and distribution applications.
- By convention, grey coding is for voltage circuits blue coding is for polarity circuits and orange coding is for trip circuits.

Main technical data

Connecting capacity		IEC 947-1
Screw clamp	Rigid - Solid / Stranded	0.2 ... 6 mm²
(VL)	Flexible	0.22 ... 4 mm²
Ring tongue	Flexible	0.34 ... 10 mm²
(VA)	Ø lug hole size	3 mm
	Width	7.5 mm
Body		Polycarbonate
Conductive parts		Silver-plated
Rated voltage		400 V
Impulse withstand voltage		4000 V
Pollution degree		3
Rated current		8 A
Short-circuit current		25 A/5 s ... 800 A/25 ms
Storage temperature range		-25 ... +70 °C
Working temperature range		-10 ... +55 °C
Protection without lid / with lid		IP20 / IP40
Coding color		Grey ☐ - Blue ☐ - Orange ☐

Mounting instructions

Rail		G32, TH 35-7.5, TH 35-15
Screw clamp		
Wire stripping length		9.5 mm 0.370 in
Tool		Flat screwdriver Ø 4 mm Ø 0.157 in
Torque		0.5 ... 0.8 Nm 4.4 ... 7.1 lb.in

Ordering details

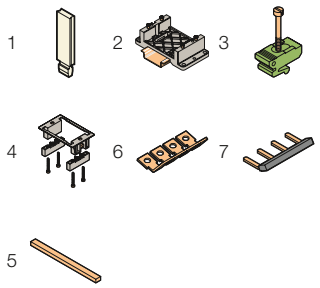
Color	Type	Part Number		Pkg qty	Weight 1 pce g
Flush mounting					
Ring-tongue					
Grey ☐	TF-E-VA	1SNA166745R0000		1	170
Blue ☐	PF-E-VA	1SNA166761R0000		1	170
Base / Half-base mounting					
Screw clamp					
Grey ☐	TF-DS-VL	1SNA166503R2700		1	120
Blue ☐	PF-DS-VL	1SNA166506R2200		1	117
Ring-tongue					
Grey ☐	TF-D-VA	1SNA166746R0100		1	119
Blue ☐	PF-D-VA	1SNA166762R0100		1	140
Orange ☐	DEF-D-VA	1SNA166896R1100		1	140

Compatible products

Lid	Cover	Universal plug	Pre-wired plugs 2x4 poles	Pre-wired plugs 4 poles
CPT-1	–	–	–	COR-T-4-4
CPP-1				FIP-1/4-D (1) FIP-1/4-G (1)
CPT-1	CPT-5 (2)	–	–	COR-T-4-4
CPP-1	–			FIP-1/4-D (1) FIP-1/4-G (1)
CPT-1	–	–	–	COR-T-4-4
CPP-1				FIP-1/4-D (1)
CPDE-1				FIP-1/4-G (1)

(1) Plug to be mounted / see customized plugs page.
(2) Compatible in base mounting only.
Information on pre-wired plugs: Please refer to page "ESSAILEC® pre-wired plugs for voltage transformers".

1SNC169023S0201



Accessories

	Description		Type	Part Number		Pkg qty	Weight 1 pce g
1	Interlocking peg	For 2 sockets assembly	CVABM	1SNA183436R0500		10	0.4
2	Mounting kits	For TH35 rail (a)	KEM-3	1SNA166962R0000		10	24
3		For DIN 1 rail (a)	FX	1SNA167682R2300		10	20
4		For ring-tongue flush mounting (b)	KEM-1	1SNA166928R2000		50	18
6	Lateral jumper bars	Compatible with ring-tongue connection only (VA) (b)	PCVA	1SNA167496R1100		10	1
7		Compatible with screw connection only (VL); IP20 (c)	PCVL	1SNA167681R2200		10	1
5	Jumper bars	For two sockets screw connection type (c)	BJ-VL	1SNA167680R0500		10	1

(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).

Compatible products

Lid
CPC-1

Cover
CPC-7

Plug 4 poles
COR-T-4-4
Design for insertion 01-02-03-04

Connection technologies

Ring-tongue

Screw clamp

1SNC169023S0201

x4

TT4-S-VL-INF

Description

Four independent circuits for voltage measurement.

Test directly performed on the four built-in dia. 4mm test sockets (no plug required).

Test sockets color coding :

- U1- brown,
- U2-black,
- U3-red,
- U4-blue.

The socket is supplied with a compact cover and sealing option (no coding required).

Main technical data

Connecting capacity		IEC 947-1
Screw clamp (VL)	Rigid - Solid / Stranded	0.2 ... 6 mm²
	Flexible	0.22 ... 4 mm²
	with non insulated ferrule	0.22 ... 4 mm²
Body		Polycarbonate
Conductive parts		Silver-plated
Rated voltage		400 V
Impulse withstand voltage		4000 V
Pollution degree		3
Rated current		8 A
Short-circuit current		25 A/5 s ... 800 A/25 ms
Storage temperature range		-25 ... +70 °C
Working temperature range		10 ... +55 °C
Protection without cover/ lid		IP20

Mounting instructions

Rail	TH 35-7.5, TH 35-15
Wire stripping length	9.5 mm 0.370 in
Tool	Flat screwdriver Ø 4 mm Ø 0.157 in
Torque	0.5 ... 0.8 Nm 4.4 ... 7.1 lb.in

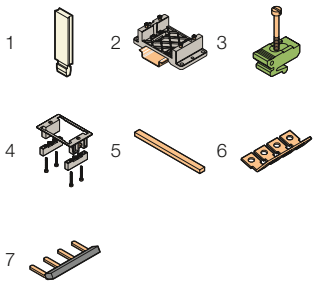
Ordering details

Color	Type	Part Number		Pkg qty	Weight 1 pce g
Base / Half-base mounting					
Grey	TT4-S-VL-INF	1SNA166972R0000		40	114

Compatible products

Lid / Cover	Cover
Included	included

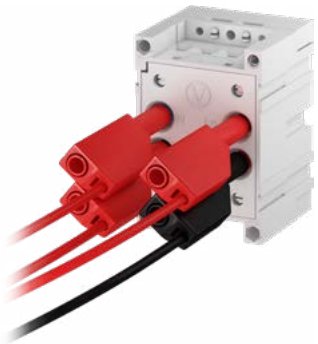
Information on pre-wired plugs: Please refer to page "ESSAILEC® pre-wired plugs for voltage transformers".

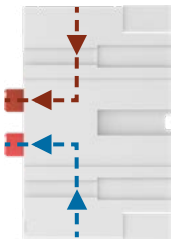


Accessories

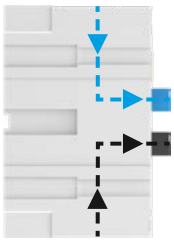
	Description		Type	Part Number		Pkg qty	Weight 1 pce g
1	Interlocking peg	For 2 sockets assembly	CVABM	1SNA183436R0500		10	0.4
2	Mounting kits	For TH35 rail (a)	KEM-3	1SNA166962R0000		10	24
3		For DIN 1 rail (a)	FX	1SNA167682R2300		10	20
4		For ring-tongue flush mounting (b)	KEM-1	1SNA166928R2000		50	18
5	Jumper bars	For two sockets screw connection type (c)	BJ-VL	1SNA167680R0500		10	1
6	Lateral jumper bars	Compatible with ring-tongue connection only (VA) (b)	PCVA	1SNA167496R1100		10	1
7		Compatible with screw connection only (VL); IP20 (c)	PCVL	1SNA167681R2200		10	1

(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).





Side view left



Side view right

1SNC169024S0201

Description

- Standard voltage plugs are compatible with ESSAILEC® voltage sockets.
- Plugs are ready to use with contact pins (BRE...) , coding, cables and test plugs assembled to ease your test operations.

Main technical data

Connecting capacity	IEC 947-1
Body	Polycarbonate
Conductive parts	Silver-plated
Rated voltage	400 V
Impulse withstand voltage	4000 V
Pollution degree	3
Rated current	15 A
Short-circuit current	25 A/5 s ... 800 A/25 ms
Storage temperature range	-25 ... +70 °C
Working temperature range	-10 ... +55 °C

Ordering details

Description	Type	Part Number		Pkg qty	Weight 1 pce g	Compatible products Socket
Universal plugs						
 Plug 2x4 pins, with direct insertion Ø 4 mm test plug	FI-2/4-DIA4	1SNA167936R1100		1	62	TC-E-VA TC-E-VA-2.2 TC-E-VA-R2-2.2 TC-DS-VL TC-S-INF-VL-2.2 TC-D-VA TC-TH35-VL TC-E-C5A-2.2 TO-E-VA TO-E-VA-12.12 TO-DS-VL TO-S-INF-VL-12.12 TO-D-VA PC-E-VA PC-E-VA-8.8 PC-DS-VL PC-D-VA PO-E-VA PO-DS-VL PO-D-VA DEO-E- A DEO-D-VA

Continue on next page

1SNC169025S0201

Ordering details

Description	Type	Part Number		Pkg qty	Weight 1 pce g	Compatible products Socket
Plug 2x4 poles						
1 plug 2x4 pins PRECODED 2.2 / Grey 4 x Ø 4 mm test plugs / Black 4 x Ø 4 mm test plugs / Red Conductors section: 2.5 mm² cable length: 2 m / 79"	COR-T-R5-2.2	1SNA167933R1600		1	1070	TC-E-VA TC-E-VA-2.2 TC-E-VA-R2-2.2 TC-DS-VL TC-S-INF-VL-2.2 TC-D-VA TC-TH35-VL TC-E-C5A-2.2 TO-E-VA TO-E-VA-12.12 TO-DS-VL TO-S-INF-VL-12.12 TO-D-VA
1 plug 2x4 pins PRECODED 8.8 / Blue 4 x Ø 4 mm test plugs / Black 4 x Ø 4 mm test plugs / Red Conductors section: 2.5 mm² cable length: 2 m / 79"	COR-P-R1-8.8	1SNA166978R0000		1	1080	PC-E-VA PC-E-VA-8.8 PC-DS-VL PC-D-VA PO-E-VA PO-DS-VL PO-D-VA PC-E-VA PC-E-VA-8.8 PC-DS-VL PC-D-VA PO-E-VA PO-DS-VL PO-D-VA
Plug 4 poles						
1 plug 4 pins / Grey Design for insertion 01-02-03-04 (D. design.) 4 x Ø 4 mm test plugs / Black Conductors section: 2.5 mm² cable length: 2 m / 79"	COR-T-4-4	1SNA167935R1000		1	500	TC-E-VA TC-E-VA-2.2 TC-E-VA-R2-2.2 TC-DS-VL TC-S-INF-VL-2.2 TC-D-VA TC-TH35-VL TC-E-C5A-2.2 TO-E-VA TO-E-VA-12.12 TO-DS-VL TO-S-INF-VL-12.12 TO-D-VA TF-E-VA TF-DS-VL TF-D-VA

Description

To create a customized ESSAILEC® plug, according to the current socket chosen:

- Select a plug,
- Add contact pins (BRE...) and coding pins (COP...) if necessary,
- Choose the test plugs required by the measurement tool.

Ordering details

Description	Color	Type	Part Number		Pkg qty	Weight 1 pce g	Compatible products Socket
1 pole plug with contact pins							
 Plug 2 poles with 2.5 mm² contact pins (BRE-T-2.5), without coding pins	Grey	FIT-2/1-1	1SNA166821R1500		1	30	TC-E-VA TC-E-VA-2.2 TC-E-VA-R2-2.2 TC-DS-VL TC-S-INF-VL-2.2 TC-D-VA TC-TH35-VL TC-E-C5A-2.2 TO-E-VA TO-E-VA-12.12 TO-DS-VL TO-S-INF-VL-12.12 TO-D-VA TO-I-VA-2 PC-E-VA PC-E-VA-8.8 PC-DS-VL PC-D-VA PO-E-VA PO-DS-VL PO-D-VA DEO-E- A
	Red	FIT-2/1-2	1SNA166644R0300		1	30	
Plugs without contact pins (contact pins BRE..., to be ordered separately)							
2x4 poles							
 Plugs 2x4 poles, long cover, with 2 coding pins (COP-FI-1) and 8 locking pin. Contacts pins (BRE-T...) to be ordered separately.	Grey	FIT-2/4-2	1SNA166937R1100		1	105	TC-E-VA TC-E-VA-2.2 TC-E-VA-R2-2.2 TC-DS-VL TC-S-INF-VL-2.2 TC-D-VA TC-TH35-VL TC-E-C5A-2.2 TO-E-VA TO-E-VA-12.12 TO-DS-VL TO-S-INF-VL-12.12 TO-D-VA
	Blue	FIP-2/4-2	1SNA166939R2300		1	105	PC-E-VA PC-E-VA-8.8 PC-DS-VL PC-D-VA PO-E-VA PO-DS-VL PO-D-VA
Plug 2 poles with 2.5 mm² contact pins (BRE-T-2.5), without coding pins	Orange	FIDE-2/4-2	1SNA166943R2700		1	105	DEO-E- A DEO-D-VA

Continue on next page

1SNC169026S0201

Ordering details

	Description	Color	Type	Part Number		Pkg qty	Weight 1 pce g	Compatible products Socket
	Plugs 2x4 poles, short cover, with 2 coding pins (COP-FI-1) and 8 locking pins. Contacts pins (BRE-T...) to be ordered separately.	Grey	FIT-2/4-1	1SNA166550R0100		1	91	TC-E-VA TC-E-VA-2.2 TC-E-VA-R2-2.2 TC-DS-VL TC-S-INF-VL-2.2 TC-D-VA TC-TH35-VL TC-E-C5A-2.2 TO-E-VA TO-E-VA-12.12 TO-DS-VL TO-S-INF-VL-12.12 TO-D-VA
		Blue	FIP-2/4-1	1SNA166559R0600		1	91	PC-E-VA PC-E-VA-8.8 PC-DS-VL PC-D-VA PO-E-VA PO-DS-VL PO-D-VA
		Orange	FIDE-2/4	1SNA166877R2500		1	91	DEO-E- A DEO-D-VA
	Plug 4 poles - insertion 01-02-03-04, with 1 coding pin (COP-FI-1) and 4 locking pins. Contacts pins (BRE-T...) to be ordered separately.	Grey	FIT-2/4-I	1SNA166672R0700		1	60	TO-I-VA-2
	4 Poles							
	Plug 4 poles - insertion 1-2-3-4, with 1 coding pin (COP-FI-1) and 4 locking pins. Contacts pins (BRE-T...) to be ordered separately.	Grey	FIT-1/4-G	1SNA166547R2200		1	60	TC-E-VA TC-E-VA-2.2 TC-E-VA-R2-2.2 TC-DS-VL TC-S-INF-VL-2.2 TC-D-VA TC-TH35-VL TC-E-C5A-2.2 TO-E-VA TO-E-VA-12.12 TO-DS-VL TO-S-INF-VL-12.12 TO-D-VA TF-E-VA TF-DS-VL TF-D-VA
		Blue	FIP-1/4-G	1SNA166556R2300		1	60	PC-E-VA PC-E-VA-8.8 PC-DS-VL PC-D-VA PO-E-VA PO-DS-VL PO-D-VA PF-E-VA PF-DS-VL PF-D-VA
		Orange	FIDE-1/4-G	1SNA166898R2300		1	40	DEO-D-VA DEF-D-VA DEO-E-VA

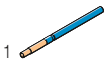
Continue on next page

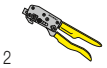
1SNC169026S0201

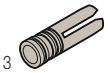
Ordering details

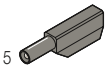
Description	Color	Type	Part Number		Pkg qty	Weight 1 pce g	Compatible products Socket
Plug 4 poles - insertion 01-02-03-04, with 1 coding pin (COP-FI-1) and 4 locking pins. Contacts pins (BRE-T...) to be ordered separately.	Grey	FIT-1/4-D	1SNA166546R2100		1	60	TC-E-VA TC-E-VA-2.2 TC-E-VA-R2-2.2 TC-DS-VL TC-S-INF-VL-2.2 TC-D-VA TC-TH35-VL TC-E-C5A-2.2 TO-E-VA TO-E-VA-12.12 TO-DS-VL TO-S-INF-VL-12.12 TO-D-VA TF-E-VA TF-DS-VL TF-D-VA
	Blue	FIP-1/4-D	1SNA166555R2200		1	60	PC-E-VA PC-E-VA-8.8 PC-DS-VL PC-D-VA PO-E-VA PO-DS-VL PO-D-VA PF-E-VA PF-DS-VL PF-D-VA
	Orange	FIDE-1/4-D	1SNA166897R1200		1	40	DEO-D-VA DEF-D-VA DEO-E-VA

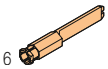
1SNC169026S0201











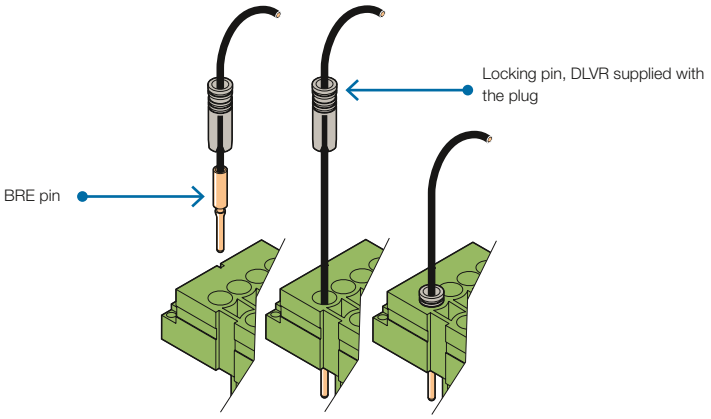
Accessories

	Description	Type	Part Number		Pkg qty	Weight 1 pce g	Compatible products Socket
BRE contact pins							
	Pin 0.34 mm²	BRE-T-0.34	1SNA168160R1400		50	2	–
	Pin 0.75 mm²	BRE-T-0.75	1SNA167779R1300		50	2.9	–
	Pin 1 mm²	BRE-T-1	1SNA164921R1700		50	3	–
	Pin 1.5 mm²	BRE-T-1.5	1SNA164922R1000		50	2.6	–
	Pin 2.5 mm²	BRE-T-2.5	1SNA164923R1100		50	2	–
	Pin 4 mm²	BRE-T-4	1SNA166980R0000		100	3	–
	Pin 6 mm²	BRE-T-6	1SNA168147R0300		50	3	–
Tools for contact pins							
1	Pin extraction tool	EXBR1	1SNA167008R0300		1	24	–
2	Crimping tool for BRE pins 1 to 2.5 mm² (1)	PSC	1SNA173181R1300		1	478	–
3	Locking sleeve for contact pin	DLVR	1SNA167971R2400		10	0.4	–
Dia 4 mm test plugs							
4	IP20 with mobile protection	FC4-1	1SNA167927R1000		10	11	–
5	IP20 with permanent protection	FC4-5	1SNA167931R1400		10	10	–
Coding pins							
6	Plug coding pin	COP-FI-1	1SNA167378R1100		10	2.3	–

(1) Refering to 1SNC169040D1702 to find other crimping tools

4

Pin installation on plugs



1SNC169026S0201

Description

During normal operation, lids and covers ensure protection of the test sockets from dust and unauthorized use.

According to the mounting choice, two options available:

- a lid for all types of mounting
- a cover required for base mounting ("S/DS" mounting coding)

In the case of opened contacts sockets, electrical continuity covers or lids are required. The electrical continuity is provided thanks to inner pins and linking bar.

Main technical data

Protection with cover / lid	IP40

Ordering details

Description	Color	Type	Part Number		Pkg qty	Weight 1 pce g
Lid						
Protecting lid for current sockets	Green	CPC-1	1SNA166578R0100		1	30
Protecting lid for voltage sockets	Grey	CPT-1	1SNA166646R0500		1	30
Protecting lid for trip sockets	Blue	CPP-1	1SNA166647R0600		1	30
Protecting lid for polarity sockets	Orange	CPDE-1	1SNA166876R2400		1	30
Lid for RJ45 socket (spare part)	Grey	CPT-RJ45	1SNA167002R0000		1	25.4
Lid with electrical continuity						
Protecting lid for voltage sockets	Grey	CPT-2	1SNA166577R2000		1	40
Protecting lid for polarity sockets	Blue	CPP-2	1SNA166645R0400		1	40
Protecting lid for trip sockets	Orange	CPDE-2	1SNA166926R1600		1	40
Cover						
Protecting cover for current sockets	Green	CPC-7 (1)	1SNA166734R2500		1	66
Protecting cover for voltage sockets	Grey	CPT-5	1SNA166930R2600		1	66
Cover with electrical continuity						
Protecting cover for voltage sockets	Grey	CPT-4	1SNA166733R2400		1	78

(1) CPC-7 is compatible with CC-S-INF-VL-6.6 sockets.

1SNC169027S0201

M10-D-C5A

Description

- Designed for high density wiring inside panels.
- Alternative to large terminal strips.
- Allows easy circuits disconnection without wiring modification.

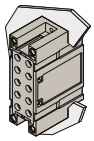
Multi-circuit blocks can be mounted side by side for compact panel board wiring in replacement of large terminal strip.

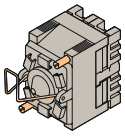
Main technical data

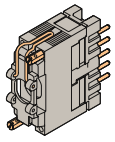
Connecting capacity		IEC 947-1
Socket	Quick connect (C5A)	0.5 ... 0.8 Nm
	Flexible	2.5 mm²
Plug		Pin BRE
Body		Polycarbonate
Conductive parts		Silver-plated
Rated voltage		400 V
Impulse withstand voltage		4000 V
Pollution degree		3
Rated current		8 A
Short-circuit current		25 A/5 s ... 800 A/25 ms
Storage temperature range		-25 ... +70 °C
Working temperature range		-10 ... +55 °C
Protection without cover/ lid		IP20 / IP40

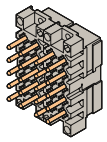
Mounting instructions

Wire stripping length		9.5 mm 0.370 in


M10-D-C5A


M20-I-C5A


FIM10-1


FIM20-I

Ordering details

Compatible products

Color	Type	Part Number		Pkg qty	Weight 1 pce g	Plug	Socket
Sockets							
Half-base mounting							
Grey	M10-D-C5A	1SNA166513R1000		10	60	FIM10-1	–
Extension mounting							
Grey	M10-P-C5A	1SNA166772R0300		10	66	–	–
Rack mounting							
Grey	M10-R-C5A	1SNA166566R2500		10	60	FIM10-R	–
Reverse mounting							
Grey	M10-I-C5A-1	1SNA166774R0500		10	100	FIM10-I-1	–
	M20-I-C5A	1SNA166777R0000		1	190	FIM20-I	–
Plugs							
Grey	FIM10-1	1SNA166516R1300		10	55	–	M10-D-C5A
	FIM10-R	1SNA166573R2400		1	54	–	M10-R-C5A
	FIM10-I-1	1SNA166574R2500		1	30	–	M10-I-C5A-1
	FIM20-I	1SNA166576R2700		1	53	–	M20-I-C5A

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).
The BRT contacts pins are to be ordered separately.

Accessories


1


2


3

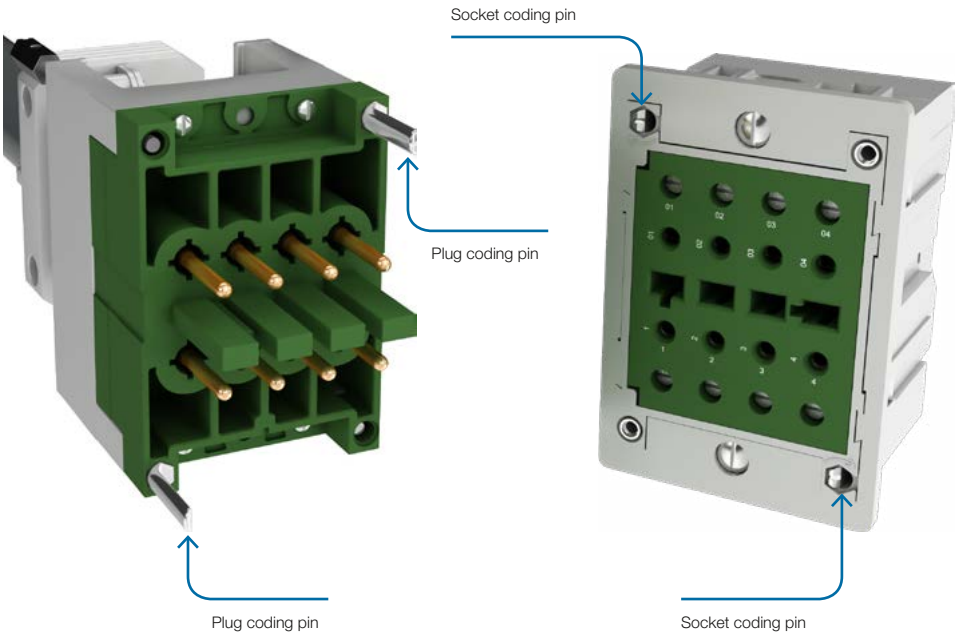

4

	Description	Type	Part Number		Pkg qty	Weight 1 pce g
For sockets						
1	For 2 sockets assembly	CVABM	1SNA183436R0500		10	0.4
For plugs						
2	Pin 0.34 mm²	BRE-T-0.34	1SNA168160R1400		50	2
	Pin 0.75 mm²	BRE-T-0.75	1SNA167779R1300		50	2.9
	Pin 1 mm²	BRE-T-1	1SNA164921R1700		50	3
	Pin 1.5 mm²	BRE-T-1.5	1SNA164922R1000		50	2.6
	Pin 2.5 mm²	BRE-T-2.5	1SNA164923R1100		50	2
	Pin 6 mm²	BRE-T-6	1SNA168147R0300		50	3
3	Pin extraction tool	EXBR1	1SNA167008R0300		1	24
4	Crimping tool for BRE pins 1 to 2.5 mm² (1)	PSC	1SNA173181R1300		1	478

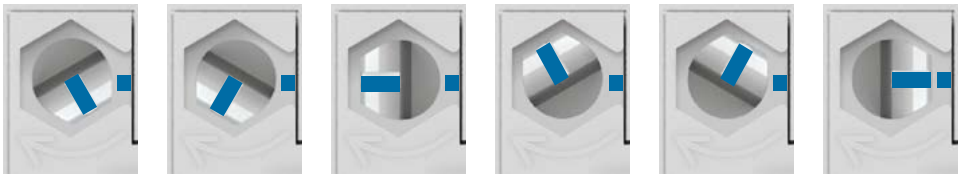
(1) Refering to 1SNC169040D1702 to find other crimping tools

1SNC169028S0201

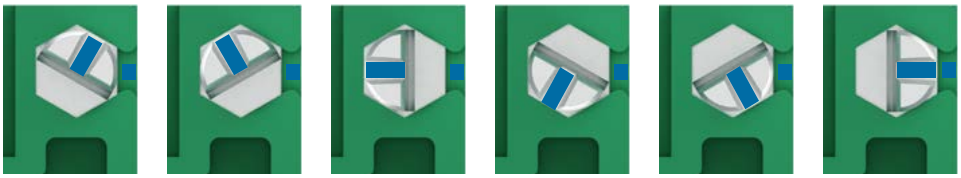
Mounting instructions



Socket coding



Plug coding



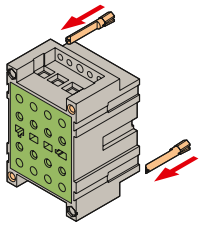
These numbers correspond to the coding information
For instance:
CC-E-VA-6.6 corresponds to COR-C-R4-6.6
TC-E-VA-2.2 corresponds to COR-T-R5-2.2

Ordering details

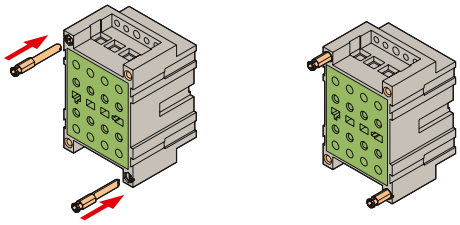
Description	Type	Part Number	Pkg qty	Weight kg
Socket coding pin	COP-E-1	1SNA167379R1200	10	2.3
Plug coding pin	COP-FI-1	1SNA167378R1100	10	2.3

1SNC169029S0201

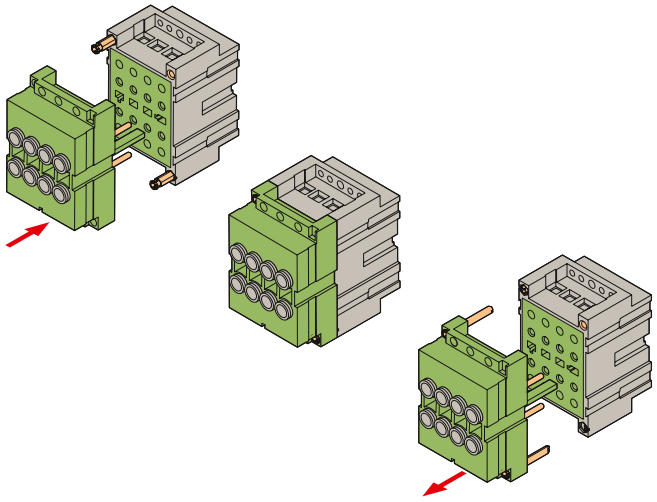
How to insert the coding pins?



Step 1 - Socket
Choose a coding code for the socket. Then, insert the coding pin (COP-E-1) from below into the socket.



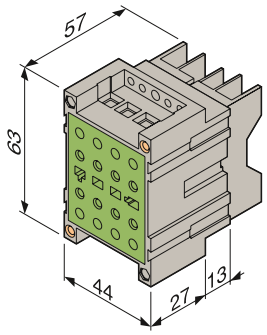
Step 2 - Plug
In order to guarantee a perfect compatibility between the socket coding and the plug coding, you have to:
1. Insert the coding pin for the plug (COP-FI-1) inside the socket.



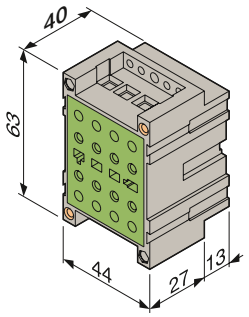
2. On a second time, connect the plug on the socket to insert the plug coding within the plug.

1SNC169030S0201

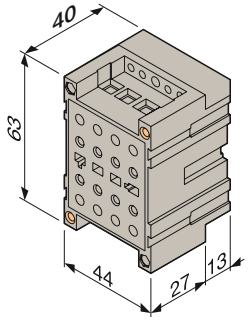
Sockets



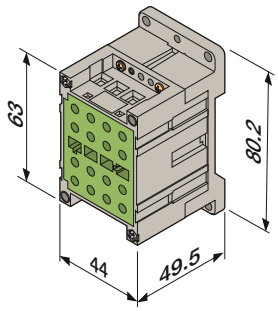
Half-base mounting



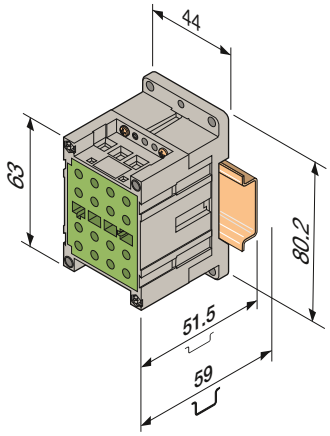
Rack mounting



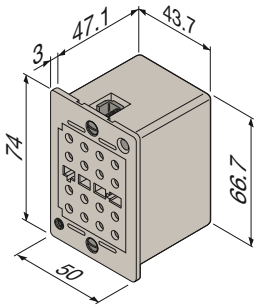
Base mounting



Base mounting with KEM-3

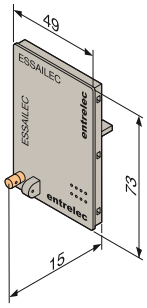


TH35 rail mounting

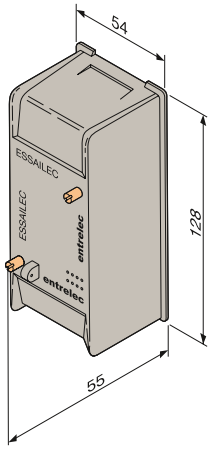


RJ45

Lids and covers



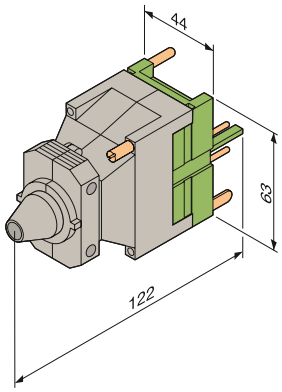
Lid



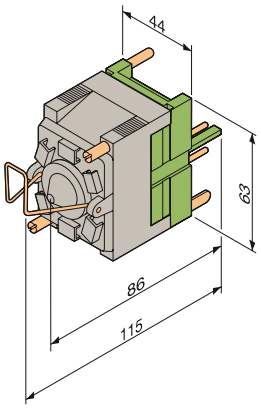
Cover

1SNC169022S0201

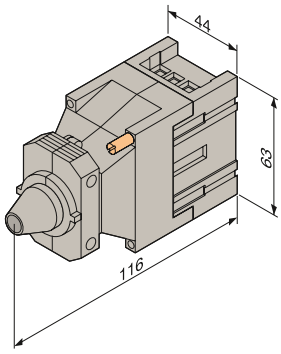
Plugs



Plug 2x4 poles long cover



Plug 2x4 poles short cover



Reverse mounting

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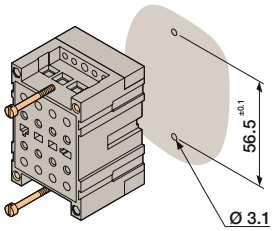
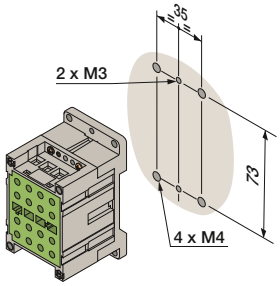
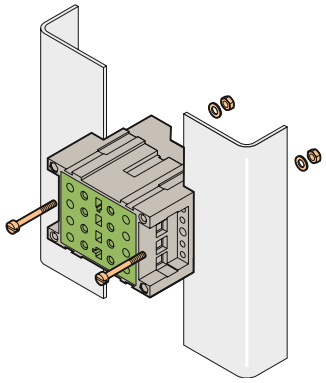
Sockets



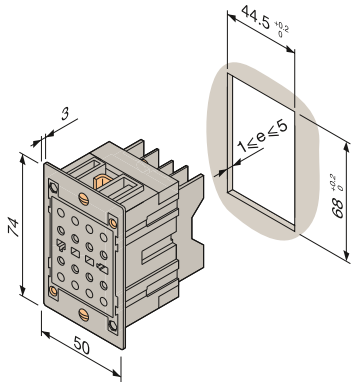
Base mounting
0.5 Nm < Tightening torque
< 0.8 Nm.



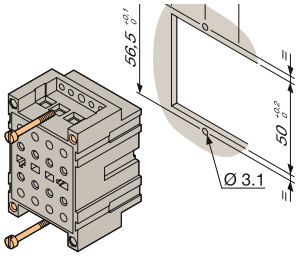
Base mounting



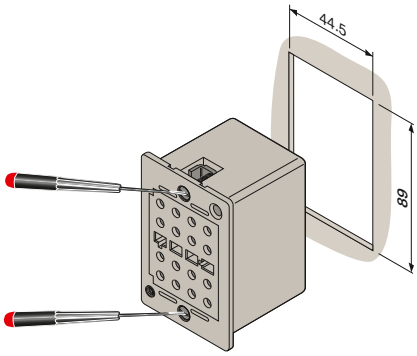
Flush mounting



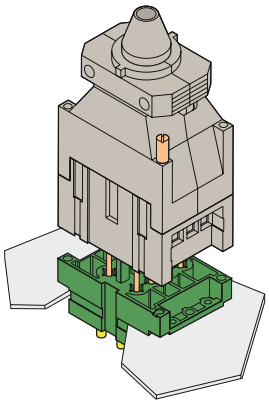
Flush mounting
The flush mounting kit must be mounted on the socket prior to the installation on the panel.
Tightening torque = 0.5 Nm maxi.



Half-base mounting - Rack mounting
The rack mounting is supplied with 2 additional guiding pins.
0.5 Nm < Tightening torque < 0.8 Nm.

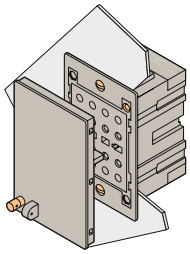


Flush mounting (RJ45)

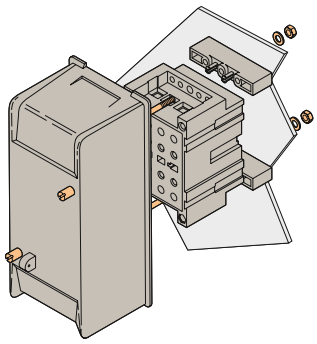


Reverse mounting

Lids and covers



Flush mounting



Base mounting

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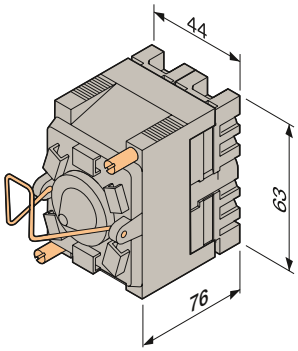
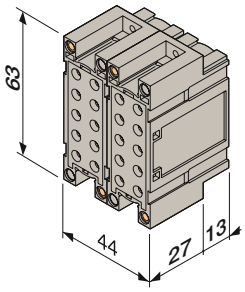
Outer dimensions

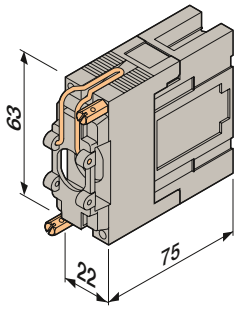
Sockets



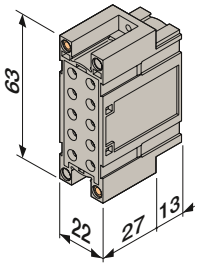
M20-I-C5A
20 points multicircuits half-base reverse mounting socket



M20-C5A
20 points multicircuits
half-base mounting socket

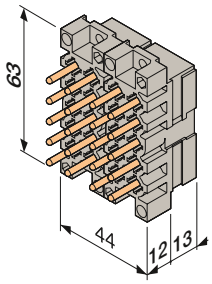


M10-I-C5A-1
10 points multicicuits
half-base reverse mounting socket

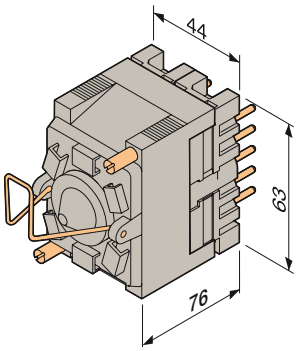


M10-D-C5A
10 points multicircuits
half-base mounting socket

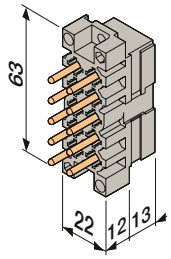
Plugs



FIM20-I
20 points multicircuits
half-base reverse mounting plug



FIM20
20 points multicircuits
half-base mounting plug



FIM10-I-1
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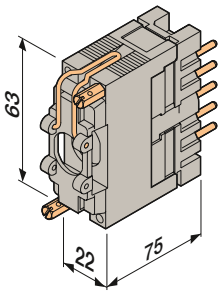
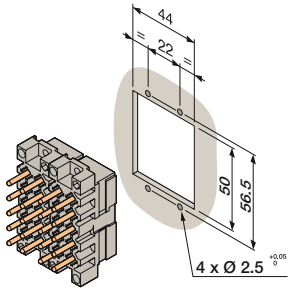
half-base reverse mounting plug

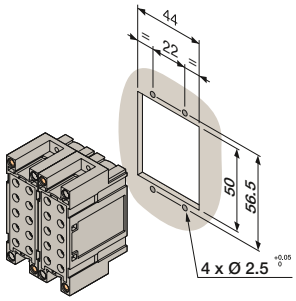


FIM10-1
10 points multicircuits
half-base mounting plug

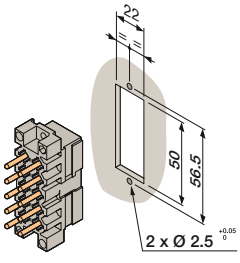
Mounting instructions



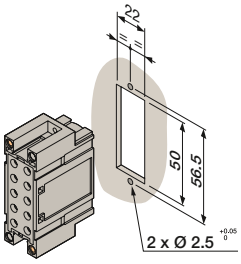
20 points multicircuits
half-base reverse mounting plug



20 points multicircuits
half-base mounting socket



10 points multicicuits
half-base reverse mounting plug



10 points multicircuits
half-base mounting socket

1SNC169022S0201

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