

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.

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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.



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.

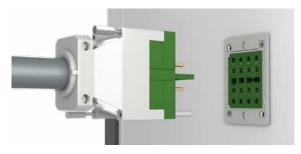




ESSAILEC® is especially designed to fit the electricity utilities requirements for safe and reliable testing. The test operations can be made without any circuit break and without opening the panel door.

ESSAILEC® is approved by major utilities and successfully implemented for years in worldwide electricity production, transport and distribution networks.

ESSAILEC® operation principle

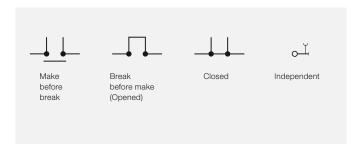


ESSAILEC® is based on a plug & play operation solution. It is composed of a socket and a test plug.

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:

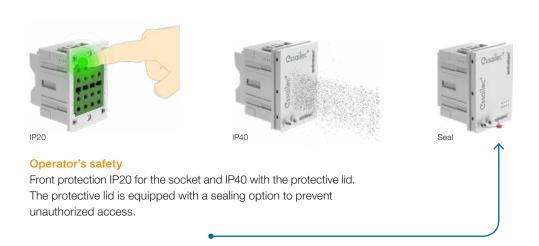
- Socket with "Make before break" contact design, available in the current, voltage, and RJ45 ranges
- Socket with "Break before make" (opened) contact design, available in voltage application
- Socket with "Closed" contact design, available in voltage application
- Socket with "4 independent circuits"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

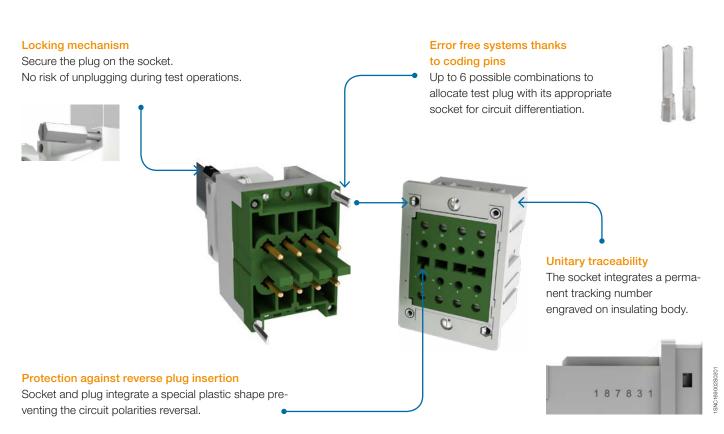
Safety & protection



Color coding

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







Easy to install

Multiple choices of socket mounting

Mounting on panel: front or base mounting





Base mounting

Mounting within the panel.







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

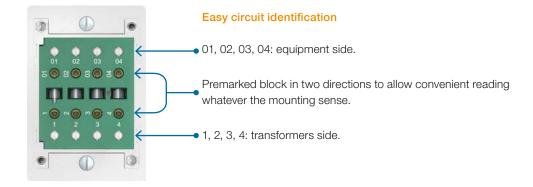


Screw clamp





RJ45



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.



Pre-assembled plug

2x4 poles plugs (8 contact pins)

Allow testing of 4 current or voltage circuits. Available in different colors

(green, grey, orange, blue).



Pre-assembled plug

4 poles plugs (4 contact pins)

Allow testing of 4 voltage circuits.

Available in different colors (grey, orange, blue).



Pre-assembled plug

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).



Plug with crimping pins for customization



Plugs for customization

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.



Cover



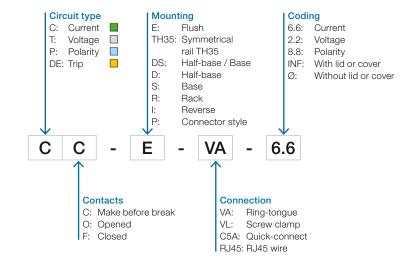
Lid with electrical continuity



Cover with continuity

Contact type	Mounting	Connection	For current and	For current	For voltage transformers			
			voltage sensors	transformers	Grey coding (standard)	Blue coding (polarity)	Orange coding (trip)	
					01 02 03 04 5 03 03 03 05 5 03 03 03 05 6 03 03 03 05 6 03 03 03 05 6 03 03 03 05 6 03 03 03 03 6 03 03 03 03 6 03 03 03 03 6 03 03 03 03 6 03 03 03 03 6 03 03 03 03 6 03 03 03 03 6 03 03 03 03 6 03 03 03 03 6 03 03 03 03 6 03 03 03 03 6 03 03 03 03 6 03 03 03 03 6 03 03 03 03 6 03 03		50 300 300 500 500 500 500 500 500 500 5	
Make before break	Flush	Ring-tongue	_	CC-E-VA	TC-E-VA	PC-E-VA	-	
1.1			_	CC-E-VA-6.6	TC-E-VA-2.2	PC-E-VA-8.8	_	
<u> </u>			_	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	Flush	Ring-tongue	_	-	TO-E-VA	PO-E-VA	DEO-E-VA	
Opened contact			_	_	TO-E-VA-12.12	_	_	
\Box	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	_	
1.1	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	_	_	
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Socket designation

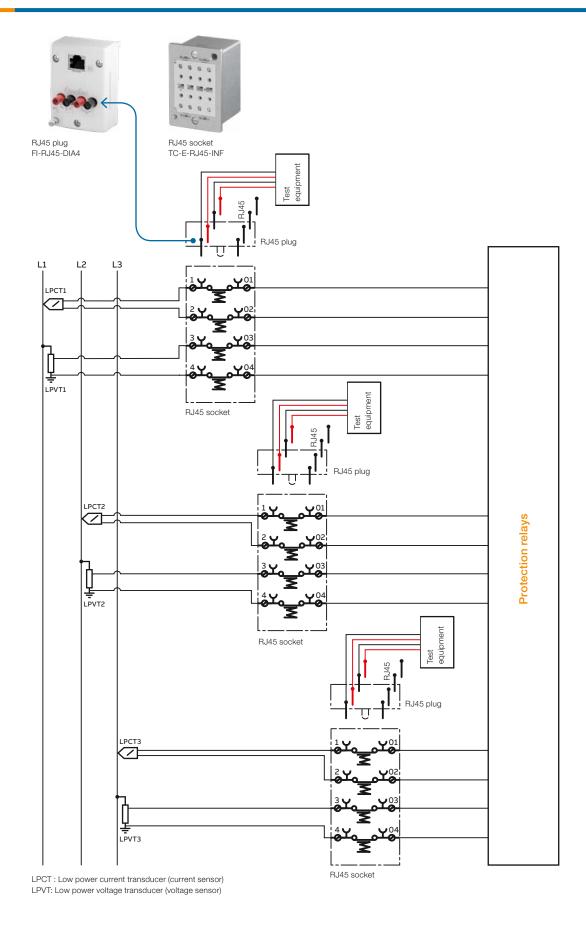




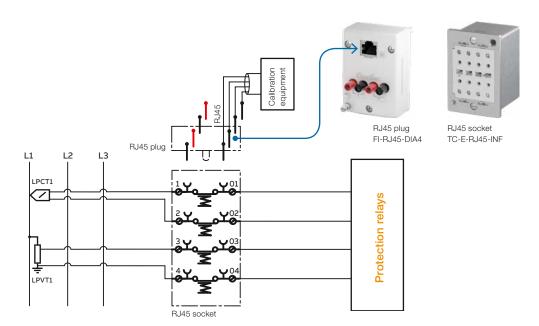
Current and voltage sensors applicationMake before break

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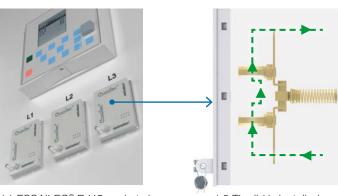
Current and voltage sensors application

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.

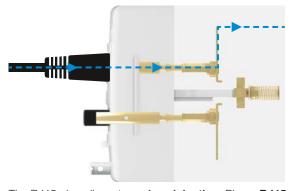
2. Lid removal



The lid is removed.



4.2 Test phase: Injection





The RJ45 plug allows to perform injection. Plug a RJ45 connector on to the ESSAILEC $^{\circ}$ RJ45 plug to test the protection relay through the integrated RJ45 input.





3. Preparation: Test plugs connections



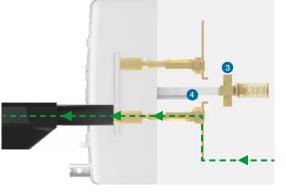


Preparation: Test plugs



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



Measurement Injection

Current and voltage sensors application

ESSAILEC® RJ45 sockets for current and voltage sensors - Make before break





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

Mounting instructions

Connecting capacity	IEC 947-1			
Body	Polycarbonate UL94 V0	Tool		Posidriv
Conductive parts	Silver-plated	(for grounding	(AL)	Ø 4 mm
Rated voltage	125 V	screw)		Ø 0.16 in
Impulse withstand voltage	1000 V			
Pollution degree	3			
Rated current	1.5 A	Torque	_	1.2 Nm
Accuracy	0.5 %	(for grounding	(\bigcirc)	10.8 lb.in
Storage temperature range	-40 +85 °C	screw)		
Working temperature range	-40 +85 °C			
Protection without lid / with lid	IP20 / IP40			



Orde	ring details				Compatib	le products	
Color	Туре	Part Number	Pkg qty	Weight 1 pce g	Lid / Cover	Plug	Socket
Sock	cet						
Flush	mounting						
Grey	☐ TC-E-RJ45-INF	1SNA566000R0000	3	138	Included	FI-RJ45-DIA4	-
Plug							
Grey	FI-RJ45-DIA4	1SNA566001R0000	1	69.6	-	-	TC-E-RJ45-INF



Accessories

	Description	Color	Туре	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 1SNC169044L170



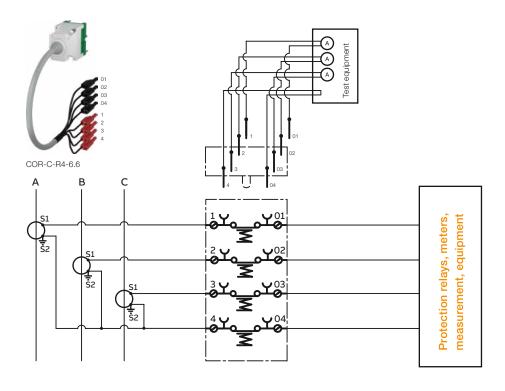
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200/11220 pro whole plage of current maintenance	
500AU 500	0.5
ESSAILEC® universal adaptor with Ø 4mm outputs	.25

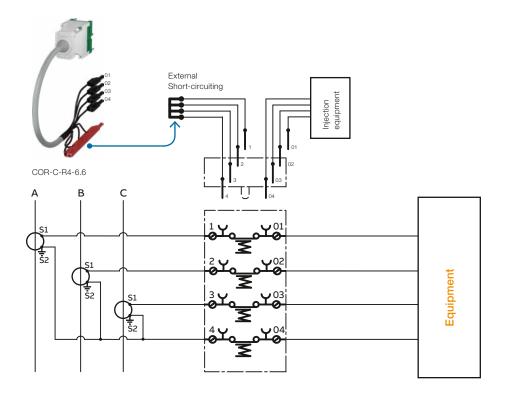
ESSAILEC® customized plugs

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Measurement with 2x4 poles test plug

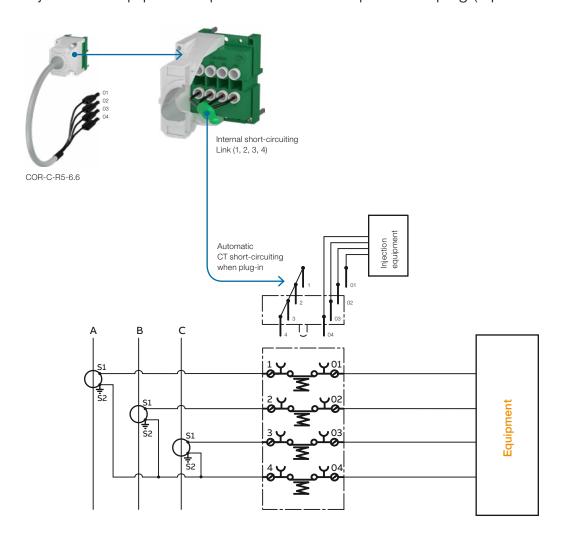


Injection or equipment replacement with 2x4 poles test plug





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







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

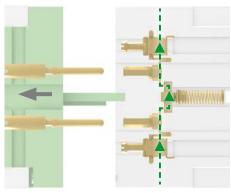


2.1 The lid is removed.

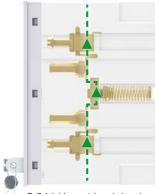


2.2 Connect the ESSAILEC® test plug leads to the test set. (For equipment change or injection, short-circuit externally the 4 test leads connected on the current transformer side: 1-2-3-4)

5. Back to normal service



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



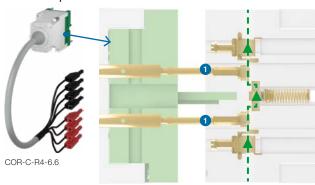
5.2 Lid is put back in place.





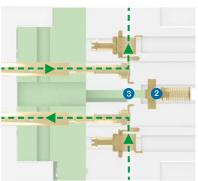


3. Test phase: Make



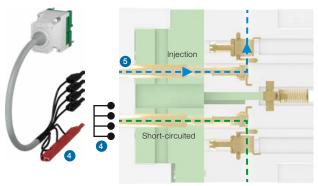
During plug insertion, plug pins make contact with socket pins (1). Contacts remain closed and the signal flow has not change. This operation prevent signal interruption (mandatory for current transformers).

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).



Test phase: Make



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

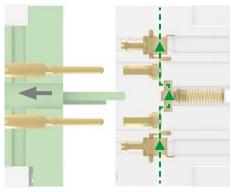


2.1 The lid is removed.

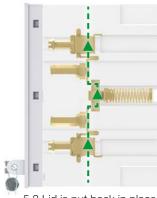


2.2 Connect the ESSAILEC® test plug leads to the test set. This plug is equipped with a built-in short-circuiting on equipment side (1-2-3-4).

5. Back to normal service



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

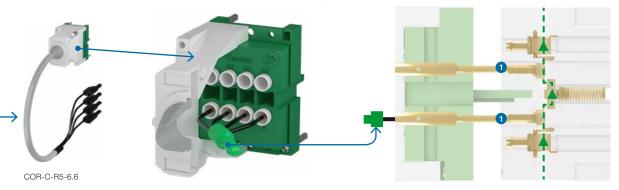


5.2 Lid is put back in place.





3. Test phase: Make & CT short-circuiting

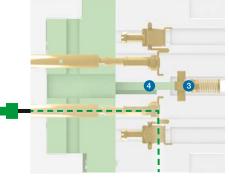


The plug is equipped with built in short circuited contacts on current transformers side (1-2-3-4)

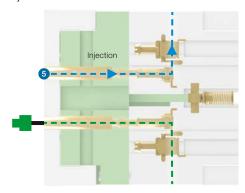
During plug insertion, plug pins make contact with the socket pins (1), and simultaneously the current transformer is short-circuited.

Test phase:

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).



ESSAILEC® sockets for Current Transformers - Make before break





CC-E-VA

Description

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

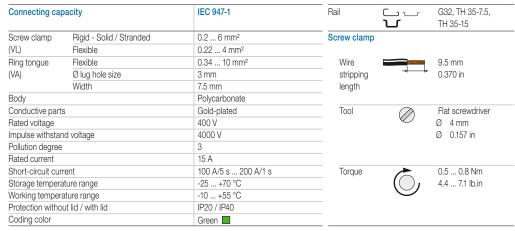
Make before break principle:

- 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

Ordering details

Mounting instructions



Compatible products















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Туре	Part Number	Pkg	Weight	Lid	Cover	Universal	Pre-wired plugs			
		qty				plug	2x4 poles	4 poles	1 pole	
			1 pce			Ø 4 mm	Ø 4 mm	Ø 4 mm	Ø 4 mm	
			g				bayonet	bayonet	bayonet	
Flush mour	nting									
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 +						
CC-E-VA-R2-6.6	1SNA166976R0000	50	170	coding included			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 +	FIC-2/4-DIA4	COR-C-R4-6.6	COR-C-R5-6.6	COR-C-R3	
					coding included		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 m	ounting									
Screw clamp										
CC-TH35-VL-6.6	1SNA166963R0000	1	114	CPC-1	included	FIC-2/4-DIA4	COR-C-R4-6.6			
							COR-C-R1-6.6	COR-C-R2-6.6	COR-C-3	
Rack moun	nting									
Ring-tongue										
CC-R-VA	1SNA166523R1200	1	140	CPC-1	-	FIC-2/4-DIA4	-	_	COR-C-R3	
							-	-	COR-C-3	
Reverse me	ounting									
Ring-tongue										
CC-I-VA-2	1SNA166941R2500	1	210	-	-	-	-	-	COR-C-R3	

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



COR-C-3

ESSAILEC® sockets for Current Transformers - Make before break





Accessories

	Description		Туре	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







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



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



ESSAILEC® pre-wired plugs for Current Transformers

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

Ordering details

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	

					-	
Description	Туре	Part Number	Pkg qty	Weight 1 pce g	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 pi (1-2-3-4) / Green 4 x Ø 4 mm test plugs / Black Conductors section: 2.5 mm² cable length: 2 m / 79"	ins 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 pi (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"	ins 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	



Compatible products

ESSAILEC® universal adaptor with Ø 4mm outputs



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.

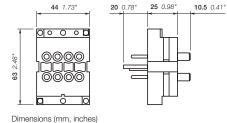
• Plugs are pre-wired with contact pins (BRE...), coding, cables and test plugs assembled to ease your test operations.

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

Ordering details					Compatible products	
Description	Туре	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	







Adaptor Socket

Adaptor + socket

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



Description

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

Make before break principle:

Ordering details

- 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.

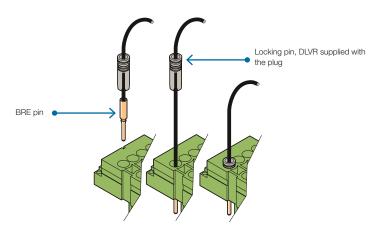
	Ordering details					Compatible	
	Description	Туре	Part Number	Pkg	Weight	products	
				qty	1 pce g	Socket	
	1 pole plug with contact pins						
	Plug with 2x 2.5 mm ² contact pins (BRE-C-2.5), without coding pins.	FIC-2/1-1	1SNA166819R2300	1	27	CC-E-VA CC-E-VA-6.6 CC-E-VA-R2-6.6 CC-S-INF-VL-6.6 CC-D-VA CC-TH35-VL-6.6 CC-R-VA CC-I-VA-2	
	Plugs without contact pins (contact	ct pins BRE	-C, to be ordered s	eparatel	y)		
	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	
0000	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	
0000	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 mm ²	BRE-C-1	1SNA167264R0700	10	2.6	-	
	Pin 1.5 mm ²	BRE-C-1.5	1SNA167265R0000	10	2.6	-	
	Pin 2.5 mm ² Pin 4 mm ²	BRE-C-2.5 BRE-C-4	1SNA167260R1700 1SNA205876R0400	10	3	_	
	Pin 4 mm ²				3		
	Tools for contact pins	BRE-C-6	1SNA168146R0200	10	3	_	
	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	_	
2	dia 4 mm test plugs		,	1			
	4 IP20 with mobile protection	FC4-1	1SNA167927R1000	10	11		
	5 IP20 with permanent protection	FC4-5	1SNA167931R1400	10	10	_	
4		1.4.4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.5	1.5		
	Bayonet plugs						
	6 Bayonet security test plug / Black	FCB-1	1SNA167690R0700	10	7	-	
6	Bayonet security test plug / Red 7 Isolating cap for FCB plug	FCB-2	1SNA167692R2500	10	7	-	
		CA	1SNA167697R2200	10	1.2	-	
	Accessories	IR1	1SNA167622R2600		15		
	Straight adaptor H adaptor (short-circuit bridge)	IR1	1SNA167623R2700	5	15 35	_	
8	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	_	
10	Coding pins				_		
						1	
	12 Plug coding pin	COP-FI-1	1SNA167378R1100	10	2.3		



Compatible

Current Transformers application ESSAILEC® customized plugs

Pin installation on plugs





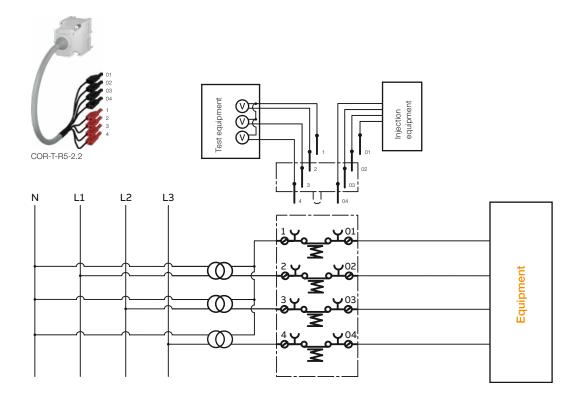
PAGE 27



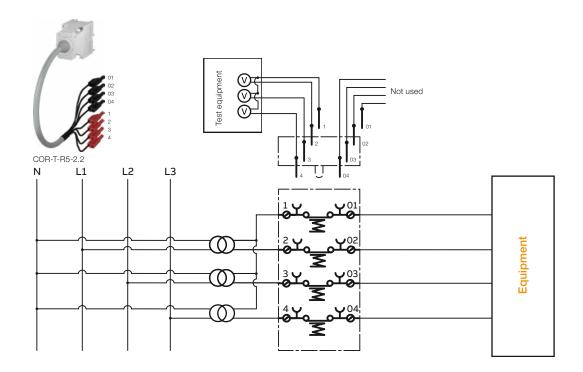
Make before break	30
Break before make	36
Closed contact	42
Independent circuits	48
Pre-wired plugs	49
Customized plugs	51



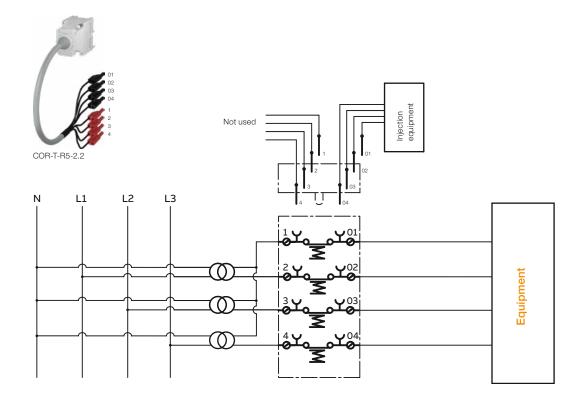
Simultaneous measurement and injection with 2x4 poles test plug



Measurement with 2x4 poles test plug



Injection with 2x4 poles test plug







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



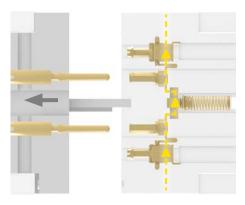
2.1 The lid is removed.



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

2 Preparation

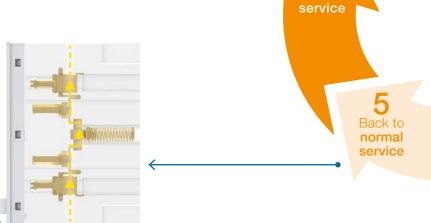
5. Back to normal service



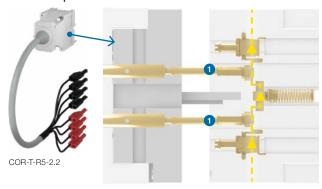
5.1 Plug removal closes back the socket contacts and signals flow again through the socket.



5.2 Lid is put back in place.



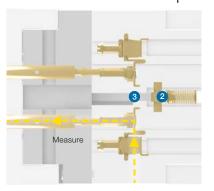
3. Test phase: Make



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

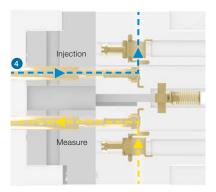
Test phase: Make

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).

Test phase: Break





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 techr	nical data		Mounting instructions			
Connecting cap	pacity	IEC 947-1	Rail	'	G32, TH 35-7.5, TH 35-15	
Screw clamp	Rigid - Solid / Stranded 0.2 6 mm ²		Screw clamp			
(VL)	Flexible	0.22 4 mm ²				
Ring tongue	Flexible	0.34 10 mm ²	Wire		9.5 mm	
(VA)	Ø lug hole size	3 mm	stripping		0.370 in	
	Width	7.5 mm	length			
Quick-connect	Flexible	2.5				
Body		Polycarbonate				
Conductive parts		Silver-plated	Tool		Flat screwdriver	
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	Torque	Torque		
Storage temperature range		-25 +70 °C		((),	4.4 7.1 lb.in	
Working temperature range		-10 +55 °C				
Protection without lid / with lid		IP20 / IP40				
Coding color		Grey - Blue				





Ordering details







Compatible	products	3

		Type	Part Number	Pkg	Weight	Lid	Cover	Universal	Pre-wired plugs		
				qty	1 pce g			plug	2x4 poles	4 poles	
Flush	moun	ting									
Ring-t	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 +					
	TC-E-	-VA-R2-2.2	1SNA166977R0000	50	150	coding included					
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					
Quick	connect										
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 mo	ounting								
Screw	clamp										
Grey	TC-D	S-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-D	S-VL	1SNA166758R1500	1	130	CPT-1	-		COR-P-R1-8.8	-	
Ring-t	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 mo	ounting									
Screw	clamp										

CPT-1

114

TC-TH35-VL

1SNA166964R0000



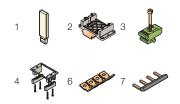
CPT-5 FI-2/4-DIA4 COR-T-R5-2.2 COR-T-4-4

⁽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".

ESSAILEC® sockets for voltage transformers - Make before break





Accessories

	Description		Type	Part Number	Pkg	Weight
					qty	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







Cover CPC-7



Universal plug FI-2/4-DIA4



Plug 2x4 poles



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

Connection technologies



Ring-tongue



Screw clamp

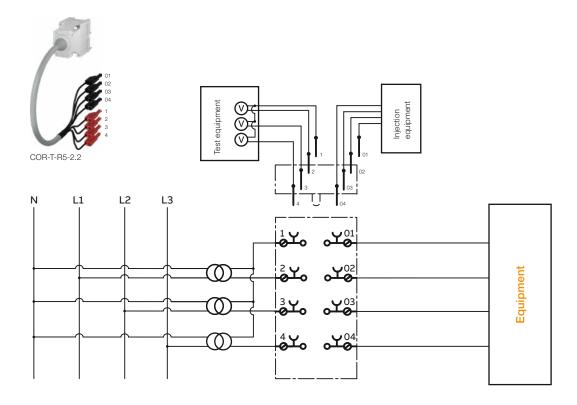


Quick-connect

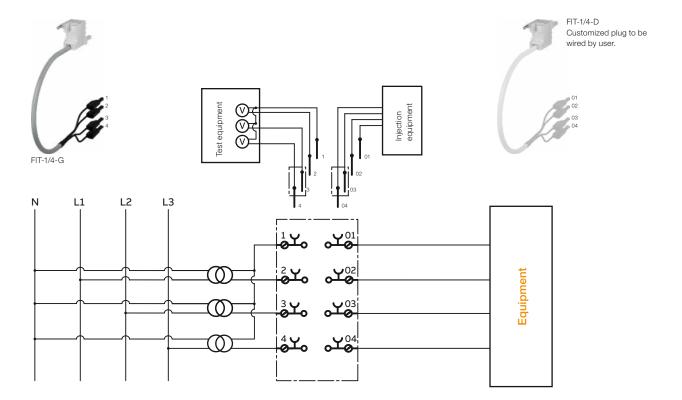


Voltage transformers applicationBreak before make test principle

Simultaneous measurement and injection with 2x4 poles test plug



Measurement or/and injection with 4 poles test plugs







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

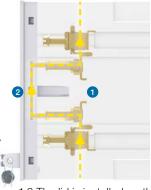
Applications

- 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).

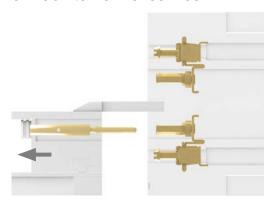
2. Preparation: plug



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.



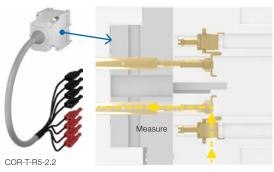
3. Test phase: Break



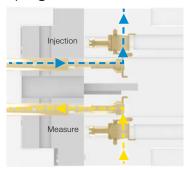
Removing of the lid **opens the circuit.**

The device to be tested is then isolated from the power supply (VT) and is no longer energized.

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



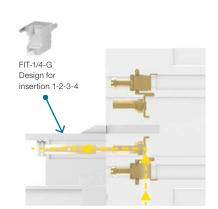
4.1 The plug is fully inserted in the socket, **the sig- nals are derived** into the plug towards the test set.



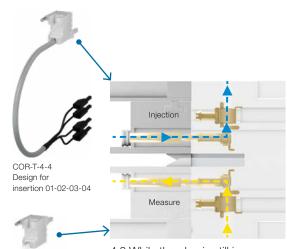
4.2 While the plug is still in place **simultaneous injection** can be realized on the equipment.



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



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



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.





Test phase: Break

ESSAILEC® sockets for voltage transformers - Break before make





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 tech	nical data		Mounting	Mounting instructions			
Connecting ca	pacity	IEC 947-1	Rail	'	G32, TH 35-7.5, TH 35-15		
Screw clamp	Rigid - Solid / Stranded	0.2 6 mm ²	Screw clamp				
(VL)	Flexible	0.22 4 mm ²					
Ring tongue	Flexible	0.34 10 mm ²	Wire		9.5 mm		
(VA)	Ø lug hole size	3 mm	stripping		0.370 in		
,	Width	7.5 mm	length				
Body		Polycarbonate					
Conductive par	ts	Silver-plated	Tool		Flat screwdriver		
Rated voltage		400 V			Ø 4 mm		
Impulse withsta	nd voltage	4000 V			Ø 0.157 in		
Pollution degree	9	3					
Rated current		8 A					
Short-circuit cu	rrent	25 A/5 s 800 A/25 ms	Torque		0.5 0.8 Nm		
Storage temper	ature range	-25 +70 °C		(())	4.4 7.1 lb.in		
Working temperature range		-10 +55 °C					
Protection with	out lid / with lid	IP20 / IP40					
Coding color		Grey - Blue - Orange	_				







Ordering details

Screw clamp

TO-DS-VL

PO-DS-VL

Grey

Blue

Color

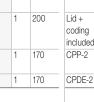
Ring-t	Ring-tongue									
Grey		TO-E-VA	1SNA166743R0600		1	170	(
		TO-E-VA-12.12	1SNA166925R1500		1	200	i			
Blue		PO-E-VA	1SNA166759R1600		1	170	(
Orange		DEO-E-VA	1SNA166878R0600		1	170	. (
Base	Base / Half-base mounting									

1SNA166741R0400

1SNA166757R0400

1SNA166945R2100

TO-S-INF-VL-12.12 | 1SNA166723R2200



100

200

117

Pkg Weight

qty 1 pce g



Universal

plug

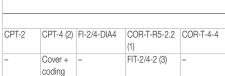
Compatible products



Pre-wired plugs

4 poles

2x4 poles



	included			
CPP-2	-	FI-2/4-DIA4	COR-P-R1-8.8 (1)	
CPT-2	-	FI-2/4-DIA4	COR-T-R5-2.2	COR-T-4

FIT-2/4-I

FIT-2/4-I (3)

Ring-t	ongue								
Grey	TO-D-VA	1SNA166744R0700	1	139	CPT-2	-	FI-2/4-DIA4	COR-T-R5-2.2 (1)	COR-T-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)	

190

CPT-2



⁽¹⁾ Compatible with some restrictions.

Reverse mounting Ring-tongue Grey

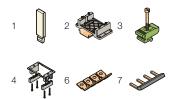
TO-I-VA-2

⁽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".

ESSAILEC® sockets for voltage transformers - Break before make





Accessories

	Description		Type	Part Number	Pkg	Weight
					qty	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







Cover CPC-7



Universal plug FI-2/4-DIA4



Plug 2x4 poles



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

Connection technologies





Ring-tongue

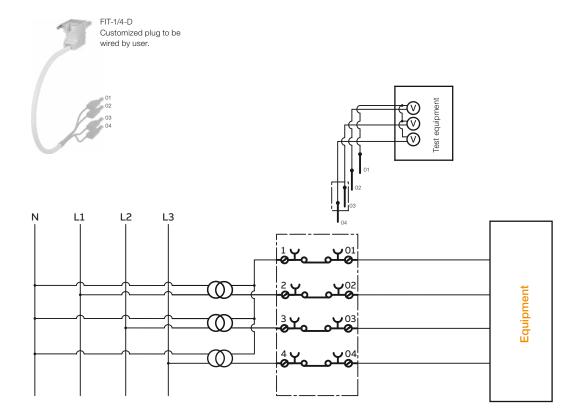




Screw clamp











Voltage transformers application Closed contact test principle - With 4 poles test plug

• 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.

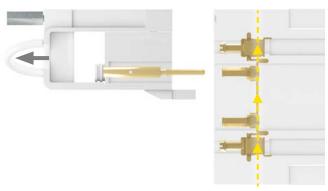


1.2 The lid is installed on the socket and can be sealed to prevent unauthorized access.

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.



normal service service

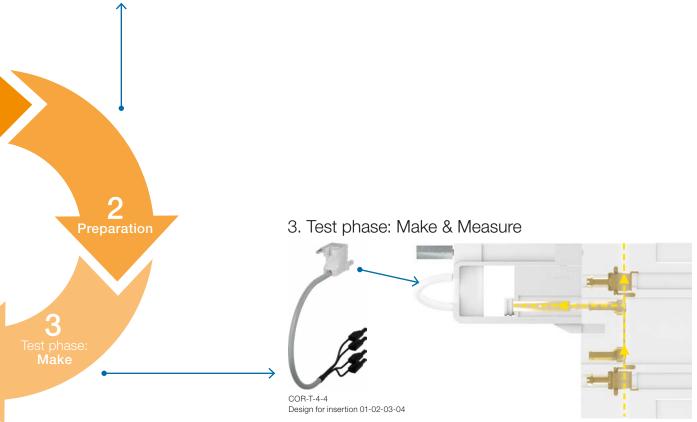
2. Preparation: plug and lid





2.1 The lid is removed.

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



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



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 tech	nical data		Mounting instructions			
Connecting ca	pacity	IEC 947-1	Rail	'	G32, TH 35-7.5, TH 35-15	
Screw clamp	Rigid - Solid / Stranded	0.2 6 mm ²	Screw clamp			
(VL)	Flexible	0.22 4 mm ²				
Ring tongue	Flexible	0.34 10 mm ²	Wire		9.5 mm	
(VA)	Ø lug hole size	3 mm	stripping	+ +	0.370 in	
,	Width	7.5 mm	length			
Body		Polycarbonate				
Conductive part	S	Silver-plated	Tool		Flat screwdriver	
Rated voltage		400 V			Ø 4 mm	
Impulse withsta	nd voltage	4000 V			Ø 0.157 in	
Pollution degree		3				
Rated current		8 A				
Short-circuit cur	rent	25 A/5 s 800 A/25 ms	Torque		0.5 0.8 Nm	
Storage tempera	ature range	-25 +70 °C		(())	4.4 7.1 lb.in	
Working temperature range		-10 +55 °C				
Protection without	ut lid / with lid	IP20 / IP40				
Coding color		Grey - Blue - Orange				





0.00.	dering details					Compatible products			
Color	Туре	Part Number	Pkg	Weight	Lid	Cover	Universal plug	Pre-wired pl	ugs
			qty	1 pce g				2x4 poles	4 poles
Flush	mounting								
Ring-to	ongue								
Grey	☐ TF-E-VA	1SNA166745R0000	1	170	CPT-1	-	-	-	COR-T-4-4
Blue	PF-E-VA	1SNA166761R0000	1	170	CPP-1				FIP-1/4-D (1
									FIP-1/4-G (1
	/ Half-base	mounting							
Screw		mounting	1	120	CPT-1	CPT-5 (2)	-	-	COR-T-4-4
Base A Screw Grey Blue	clamp		1	120	CPT-1	CPT-5 (2)		-	COR-T-4-4 FIP-1/4-D (1
Screw Grey	clamp TF-DS-VL	1SNA166503R2700	1			CPT-5 (2) -		-	
Screw Grey Blue	Clamp TF-DS-VL PF-DS-VL	1SNA166503R2700	1			CPT-5 (2)		-	FIP-1/4-D (1
Screw Grey Blue	Clamp TF-DS-VL PF-DS-VL	1SNA166503R2700	1			CPT-5 (2) -	-	-	FIP-1/4-D (1
Screw Grey Blue	clamp TF-DS-VL PF-DS-VL congue	1SNA166503R2700 1SNA166506R2200	1	117	CPP-1	-			FIP-1/4-D (1 FIP-1/4-G (1

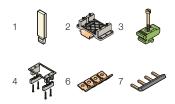
⁽¹⁾ Plug to be mounted / see customized plugs page.

(2) Compatible in base mounting only.

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



ESSAILEC® sockets for voltage transformers - closed contact



Accessories

	Description		Туре	Part Number	Pkg	Weight
					qty	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





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

Connection technologies







Screw clamp



ESSAILEC® sockets for voltage transformers - independent circuits





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.

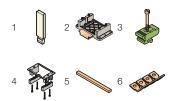
The socket is supplied with a compact cover and sealing option (no coding required).

Main technical data Mounting instructions

man toon	mour data		modifiend modifications			
Connecting ca	pacity	IEC 947-1			TH 35-7.5, TH 35-15	
Screw clamp	Rigid - Solid / Stranded	0.2 6 mm ²	Wire stripping		9.5 mm	
(VL)	Flexible	0.22 4 mm ²	length	+ +	0.370 in	
	with non insulated ferrule	0.22 4 mm ²				
Body		Polycarbonate				
Conductive part	ts	Silver-plated	Tool		Flat screwdriver	
Rated voltage		400 V			Ø 4 mm	
Impulse withstar	nd voltage	4000 V			Ø 0.157 in	
Pollution degree)	3				
Rated current		8 A				
Short-circuit cur	rrent	25 A/5 s 800 A/25 ms	Torque	<u>~</u>	0.5 0.8 Nm	
Storage temperature range		-25 +70 °C		(\bigcirc)	4.4 7.1 lb.in	
Working temper	rature range	10 +55 °C				
Protection without	out cover/ lid	IP20				

Ordering details					Compatible products	
Color	Туре	Part Number	Pkg qty	Weight 1 pce g	Lid / Cover	Cover
Base /	/ Half-base mo	ounting				
Grev	TT4-S-VI-INF	1SNA166972R0000	40	114	Included	included

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





Accessories

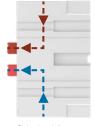
	Description		Type	Part Number	Pkg	Weight
					qty	1 pce g
1	Interlocking peg	For 2 sockets assembly	CVABM	1SNA183436R0500	10	0.4
2	Mounting kits	For TH35 rail (a)	KEM-3	1SNA166962R0000	10	24
3		For DIN 1 rail (a)	FX	1SNA167682R2300	10	20
4		For ring-tongue flush mounting (b)	KEM-1	1SNA166928R2000	50	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





ESSAILEC® pre-wired plugs for voltage transformers

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

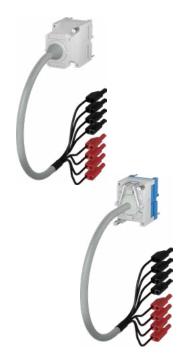
Connecting conceity	IEC 947-1
Connecting capacity	IEO 947-1
Body	Polycarbonate
Conductive parts	Silver-plated
Rated voltage	400 V
Impulse withstand voltage	4000 V
Pollution degree	3
Rated current	15 A
Short-circuit current	25 A/5 s 800 A/25 ms
Storage temperature range	-25 +70 °C
Working temperature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

Ordering details					Compatible products
Description	Туре	Part Number	Pkg qty	Weight 1 pce g	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-2.2 TC-DS-VL TC-S-INF-VL-2.2 TC-D-VA TC-T-135-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-8.8 PC-DS-VL PC-D-VA PO-DS-VL PO-D-VA DEO-E-VA DEO-E- A DEO-D-VA

Continue on next page



Voltage transformers applicationESSAILEC® pre-wired plugs for voltage transformers



Ordering details					Compatible products
Description	Туре	Part Number	Pkg qty	Weight 1 pce g	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 TC-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 PC-E-VA-8.8 PC-DS-VL PC-D-VA PO-E-VA
Plug 4 poles					
1 plug 4 pins / Grey Design for insertion 01-02-03-04 (D. design.)	COR-T-4-4	1SNA167935R1000	1	500	TC-E-VA TC-E-VA-2.2 TC-E-VA-R2-2.2



					_ 1000
Plug 4 poles					
plug 4 pins / Grey Design for insertion 01-02-03-04 (D. design.) x Ø 4 mm test plugs / Black Conductors section: 2.5 mm² able 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-12.12 TO-DS-VL TO-S-INF-VL-12.12 TO-DS-VL TC-D-VA TF-E-VA





ESSAILEC® customized plugs

Description

To create a customized ESSAILEC $\ensuremath{^{\tiny 0}}$ 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.

Description	Color	Туре	Part Number	Pkg qty	Weight 1 pce g	products Socket
1 pole plug with cor	ntact pin	S				
Plug 2 poles with 2.5 mm ²	Grey [FIT-2/1-1	1SNA166821R1500	1	30	TC-E-VA
contact pins (BRE-T-2.5), without coding pins		FIT-2/1-2	1SNA166644R0300	1	30	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: 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-E-VA PO-E-VA PO-DS-VL PC-D-VA DEO-E- A
Plugs without conta 2x4 poles	ict pins (contact pins	BRE, to be ordered	separati	eiy)	
Plugs 2x4 poles, long cover, with 2 coding pins (COP-FI-1) and 8 locking pin. Contacts pins (BRE-T) to be ordered separately.		FIT-2/4-2	1SNA166939R2300	1	105	TC-E-VA TC-E-VA-2.2 TC-E-VA-2.2 TC-B-VL-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-12.7 TO-D-VA PC-E-VA
Plug 2 poles with 2.5 mm²		FIDE-2/4-2	1SNA166943R2700	1	105	PC-E-VA-8.8 PC-DS-VL PC-D-VA PO-E-VA PO-DS-VL PO-D-VA DEO-E- A
Plug 2 poles with 2.5 mm² contact pins	Orange	FIUE-2/4-2	15NA100943K2/UU		105	DEO-E- A DEO-D-VA

Continue on next page



Voltage transformers application ESSAILEC® customized plugs

Ordering details



Description	Color	Туре	Part Number	Pkg	Weight	products
				qty	1 pce g	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.		∏ 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-S-VL TC-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
	Orongo	FIDE-1//I-G	1SNA166808B2300	1	40	DEO-D-VA

1SNA166898R2300

Orange FIDE-1/4-G

Continue on next page

DEO-D-VA DEF-D-VA DEO-E-VA

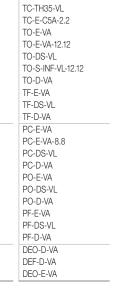
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Voltage transformers application ESSAILEC® customized plugs



Ordering details						Compatible
Description	Color	Туре	Part Number	Pkg	Weight	products
				qty	1 pce g	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.		FIT-1/4-D	1SNA166546R2100	1	60	TC-E-VA TC-E-VA-2.2 TC-E-VA-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
		FIP-1/4-D	1SNA166555R2200	1	40	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 DEO-D-VA
	Orange	FIDE-1/4-D	1SNA16689/R1200	1	40	DEC-D-VA DEF-D-VA DEC-F-VA



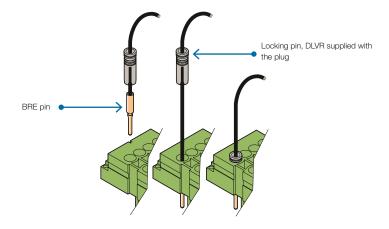


ESSAILEC® customized plugs



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

Pin installation on plugs





Description

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

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	туре	Part Number	qty	1 pce g
Lid	<u>'</u>				
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					



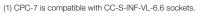
Protecting lid for voltage sockets	Grey	CPT-2	1SNA166577R2000	1	40
Protecting lid for polarity sockets	Blue	CPP-2	1SNA166645R0400	1	40
Protecting lid for trip sockets	Orange	CPDE-2	1SNA166926R1600	1	40

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













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

Mounting instructions

capacity	IEC 947-1		
Quick connect (C5A)	0.5 0.8 Nm	Wire stripping 9.5 mm	
Flexible	2.5 mm ²	length 0.370 in	
	Pin BRE		
	Polycarbonate		
arts	Silver-plated		
9	400 V		
stand voltage	4000 V		
ree	3		
t	8 A		
current	25 A/5 s 800 A/25 ms		
perature range	-25 +70 °C		
perature range	-10 +55 °C		
thout cover/ lid	IP20 / IP40		
	Quick connect (C5A) Flexible arts extand voltage ree current erature range perature range	Quick connect (C5A)	Quick connect (C5A)











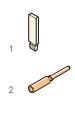


FIM20-I

Orde	ring details				Compatible produc	cts
Color	Туре	Part Number	Pkg qty	Weight 1 pce g	Plug	Socket
Sock	ets					
Half-b	ase mounting					
Grey [M10-D-C5A	1SNA166513R1000	10	60	FIM10-1	-
Exten	sion mounting					
Grey [■ M10-P-C5A	1SNA166772R0300	10	66	-	-
Rack	mounting					
Grey [■ M10-R-C5A	1SNA166566R2500	10	60	FIM10-R	-
Rever	se mounting					
Grey [M10-I-C5A-1	1SNA166774R0500	10	100	FIM10-I-1	-
	M20-I-C5A	1SNA166777R0000	1	190	FIM20-I	-
Plugs	3					
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





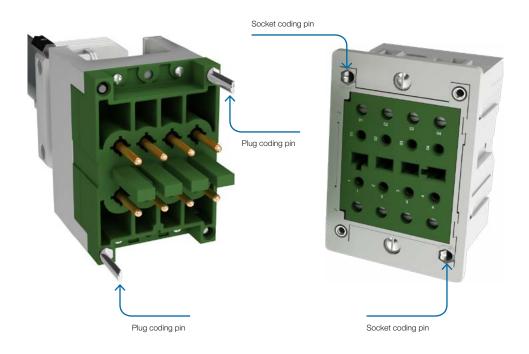
	Description	Type	Part Number	Pkg	Weight
				qty	1 pce g
Fo	or sockets	·			
1	For 2 sockets assembly	CVABM	1SNA183436R0500	10	0.4
Fo	or plugs	•	•		
2	Pin 0.34 mm ²	BRE-T-0.34	1SNA168160R1400	50	2
	Pin 0.75 mm ²	BRE-T-0.75	1SNA167779R1300	50	2.9
	Pin 1 mm ²	BRE-T-1	1SNA164921R1700	50	3
	Pin 1.5 mm ²	BRE-T-1.5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

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



Mounting instructions for coding	
Outer dimensions, mounting instructions	60







Socket coding













Plug coding













These numbers correspond to the coding information For instance:

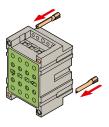
CC-E-VA-6.6 corresponds to COR-C-R4-6.6 TC-E-VA-2.2 corresponds to COR-T-R5-2.2

Ordering details

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

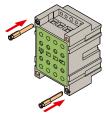


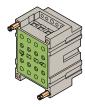
How to insert the coding pins?



Step 1 - Socket

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

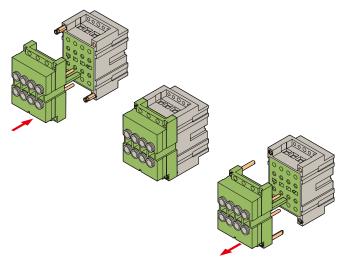




Step 2 - Plug

In order to guarantee a perfect compatibility between the socket coding and the plug coding, you have to:

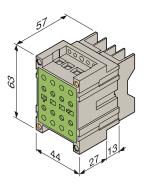
1. Insert the coding pin for the plug (COP-FI-1) inside the socket.

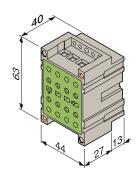


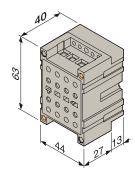
2. On a second time, connect the plug on the socket to insert the plug coding within the plug.

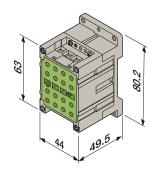


Sockets







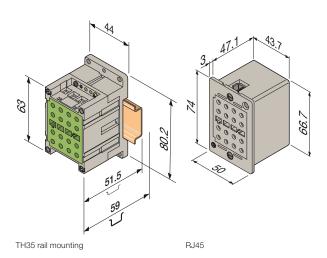


Half-base mounting

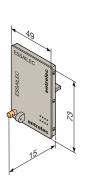
Rack mounting

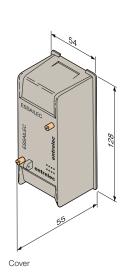
Base mounting

Base mounting with KEM-3



Lids and covers

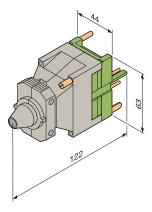




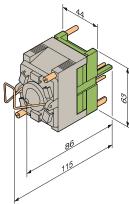
1SNC169022S

Outer dimensions

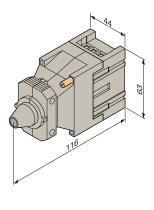
Plugs







Plug 2x4 poles short cover

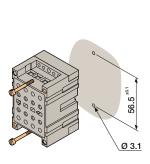


Reverse mounting

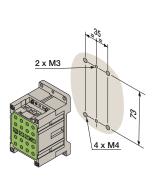




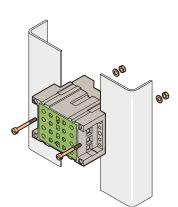
Sockets



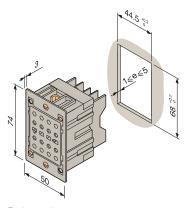
Base mounting 0.5 Nm < Tightening torque < 0.8 Nm.



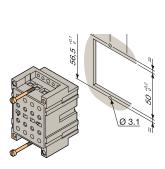
Base mounting



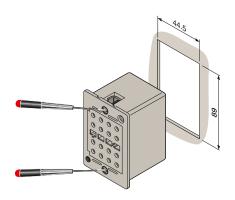
Flush mounting



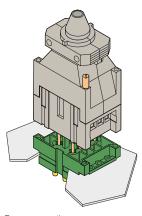
Flush mounting
The flush mounting kit must be mounted on the socket prior to the installation on the panel.
Tightening torque = 0.5 Nm maxi.



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

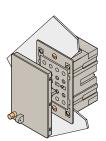


Flush mounting (RJ45)

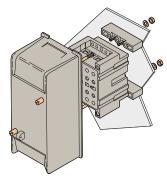


Reverse mounting

Lids and covers



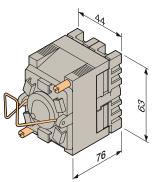
Flush mounting



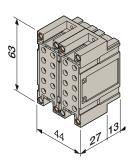
Base mounting



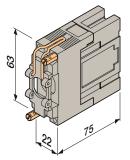
Outer dimensions Sockets



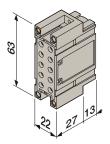
M20-I-C5A 20 points multicircuits half-base reverse mounting socket



M20-C5A 20 points multicircuits half-base mounting socket

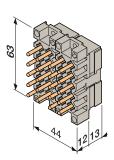


M10-I-C5A-1 10 points multicicuits half-base reverse mounting socket

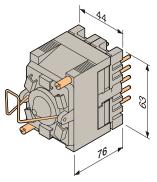


M10-D-C5A 10 points multicircuits half-base mounting socket

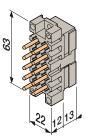
Plugs



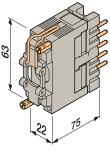
FIM20-I 20 points multicircuits half-base reverse mounting plug



FIM20 20 points multicircuits half-base mounting plug

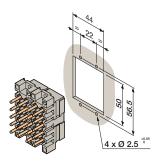


FIM10-I-1 10 points multicicuits half-base reverse mounting plug

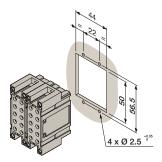


FIM10-1 10 points multicircuits half-base mounting plug

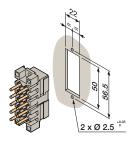
Mounting instructions



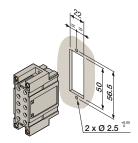
20 points multicircuits half-base reverse mounting plug



20 points multicircuits half-base mounting socket



10 points multicicuits half-base reverse mounting plug



10 points multicircuits half-base mounting socket



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Part Number classification

ISNA164921R1700 BRE-T-1 54 ISNA164922R1000 BRE-T-1.5 54 ISNA166923R1100 BRE-T-2.5 54 ISNA166503R2700 TF-DS-VL 46 ISNA166503R2700 M10-D-C5A 56 ISNA166513R1000 M10-D-C5A 56 ISNA166513R1000 M10-D-C5A 56 ISNA166513R1200 CC-R-VA 22 ISNA166528R1200 FIC-2/4-1 26 ISNA166528R2000 FIC-2/4-R 26 ISNA16654R2100 FIT-1/4-D 53 ISNA16654R2100 FIT-1/4-D 53 ISNA166550R0100 FIT-2/4-1 52 ISNA166550R0100 FIT-2/4-1 52 ISNA166556R2200 FIP-1/4-D 53 ISNA166558R2200 FIP-1/4-D 53 ISNA166558R2200 FIP-1/4-D 53 ISNA166558R2000 FIP-2/4-1 52 ISNA166558R2000 FIP-2/4-1 52 ISNA166558R2000 FIP-2/4-1 52 ISNA166578R2000 FIM-10-I-1 56 ISNA166578R2000 FIM-10-I-1 56 ISNA166578R2000 FIM-10-I-1 56 ISNA166578R2000 FIM-2/4-I 56 ISNA166578R2000 CPT-2 55 ISNA166578R2000 CPT-2 55 ISNA166628R0300 TC-E-VA-2-2 34 ISNA166628R0300 TC-E-VA-2-2 34 ISNA166638R0500 COR-C-3 24 ISNA166648R0300 FIT-2/1-2 51 ISNA166648R0300 FIT-2/1-2 51 ISNA166648R0300 FIT-2/4-I 52 ISNA166648R0300 CPP-1 55 ISNA166672R2700 FIT-2/4-I 52 ISNA166648R0300 FIT-2/1-2 51 ISNA166648R0300 FIT-2/1-2 51 ISNA166678R000 CPP-1 55 ISNA166672R0700 FIT-2/4-I 52 ISNA166673R000 CPP-1 55 ISNA16673R000 CPP-1 55 ISNA16673R000 CPP-1 55 ISNA16673R000 CPP-1 55 ISNA16673R000 CP-4 55 ISNA166748R000 TC-E-VA 22 ISNA166748R000 TC-E-VA 22 ISNA166748R000 TC-E-VA 40 ISNA16675R0400 TC-D-VA 40 ISNA16675R0400 TC-D-VA 40 ISNA16675R0400 TC-D-VA 40 ISNA166748R0000 TC-E-VA 34 ISNA16675R0400 TC-D-VA 34 ISNA16675R0400 TC-D-VA 34 ISNA16675R0400 TC-D-VA 34 ISNA16675R0400 TC-D-VA	Part Number	Туре	Page
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ISNA166556R2300 FIP-1/4-G 52 ISNA166559R0600 FIP-2/4-1 52 ISNA166559R0600 FIP-2/4-1 52 ISNA166559R0600 FIP-2/4-1 52 ISNA166576R2500 FIM10-R 56 ISNA166574R2500 FIM10-I-1 56 ISNA166577R2000 CPT-2 55 ISNA166578R0100 CPC-1 55 ISNA166589R2500 FIC-2/4-I 26 ISNA166658P2000 CC-E-VA-6.6 22 ISNA166625R2000 CC-E-VA-2-2 34 ISNA166628R0300 TC-E-C5A-2.2 34 ISNA166638R0100 PC-E-VA-8.8 34 ISNA166638R0500 COR-C-3 24 ISNA166644R0300 FIT-2/1-2 51 ISNA1666478000 CPP-2 55 ISNA166647R0600 CPP-1 55 ISNA166672R270700 FIT-2/4-I 52 ISNA166738R200 CPC-7 (1) 55 ISNA166738R200 CPC-7 (1) 55 ISNA166738R000 TC-D-VA <t< td=""><td>1SNA166550R0100</td><td>FIT-2/4-1</td><td>52</td></t<>	1SNA166550R0100	FIT-2/4-1	52
ISNA166559R0600 FIP-2/4-1 52 ISNA166566R2500 M10-R-C5A 56 ISNA166573R2400 FIM10-R 56 ISNA166576R2700 FIM10-I-1 56 ISNA166576R2700 FIM20-I 56 ISNA166576R2700 FIM20-I 56 ISNA166577R2000 CPT-2 55 ISNA166578R0100 CPC-1 55 ISNA166589R2500 FIC-2/4-I 26 ISNA166625R2000 CC-E-VA-6.6 22 ISNA166627R2200 TC-E-VA-2-2 34 ISNA166638R0300 TC-E-C5A-2.2 34 ISNA166638R0500 COR-C-R1-6.6 24 ISNA166638R0200 COR-C-3 24 ISNA166644R0300 FIT-2/1-2 51 ISNA166646R0500 CPP-1 55 ISNA166672R27000 FIT-2/4-I 52 ISNA166738R2000 TO-S-INF-VL-6.6 22 ISNA166738R2000 TO-S-INF-VL-12.12 40 ISNA166738R000 TC-E-VA 22 ISNA166748R0000 TC-D-VA<	1SNA166555R2200	FIP-1/4-D	53
ISNA166566R2500 M10-R-C5A 56 ISNA166573R2400 FIM10-R 56 ISNA166574R2500 FIM10-I-1 56 ISNA166576R2700 FIM20-I 56 ISNA166577R2000 CPT-2 55 ISNA166578R0100 CPC-I 55 ISNA166589R2500 FIC-2/4-I 26 ISNA166625R2000 CC-E-VA-6.6 22 ISNA166627R2200 TC-E-VA-2-2 34 ISNA166628R0300 TC-E-C5A-2.2 34 ISNA166638R0500 COR-C-R1-6.6 24 ISNA166638R0500 COR-C-R1-6.6 24 ISNA166643R0200 COR-C-3 24 ISNA166648R0300 FIT-2/1-2 51 ISNA166646R0500 CPT-1 55 ISNA166672R0700 FIT-2/4-I 52 ISNA16672R22100 CC-S-INF-VL-6.6 22 ISNA16673R2200 TO-S-INF-VL-12.12 40 ISNA166738R2000 CPC-7 (1) 55 ISNA166738R000 TC-E-VA 22 ISNA16674R000 TO-D-VA	1SNA166556R2300	FIP-1/4-G	52
ISNA166573R2400 FIM10-R 56 ISNA166574R2500 FIM10-I-1 56 ISNA166576R2700 FIM20-I 56 ISNA166577R2000 CPT-2 55 ISNA166578R0100 CPC-1 55 ISNA166589R2500 FIC-2/4-I 26 ISNA166658P2000 CC-E-VA-6.6 22 ISNA16662FR2200 TC-E-VA-2-2 34 ISNA166628R0300 TC-E-C5A-2.2 34 ISNA166638R0500 COR-C-R1-6.6 24 ISNA166643R0200 COR-C-R1-6.6 24 ISNA166644R0300 FIT-2/1-2 51 ISNA166647R0500 CPP-2 55 ISNA166672R0700 FIT-2/4-I 52 ISNA16672R2200 TO-S-INF-VL-6.6 22 ISNA166728R2200 TO-S-INF-VL-12.12 40 ISNA16673R2400 CPT-4 55 ISNA166738R2000 TO-S-INF-VL-12.12 40 ISNA166738R0100 CC-E-VA 22 ISNA16674R000 TO-D-VA 22 ISNA166748R0000 TC-	1SNA166559R0600	FIP-2/4-1	52
ISNA166574R2500 FIM10-I-1 56 ISNA166576R2700 FIM20-I 56 ISNA166577R2000 CPT-2 55 ISNA166578R0100 CPC-1 55 ISNA166578R0100 CPC-1 55 ISNA166589R2500 FIC-2/4-I 26 ISNA166625R2000 CC-E-VA-6.6 22 ISNA166628R0300 TC-E-VA-2-2 34 ISNA166628R0300 TC-E-VA-8.8 34 ISNA166638R0500 COR-C-R1-6.6 24 ISNA166644R0300 FIT-2/1-2 51 ISNA166644R0300 FIT-2/1-2 51 ISNA166645R0400 CPP-2 55 ISNA166647R0600 CPP-1 55 ISNA166672R0700 FIT-2/4-I 52 ISNA16672R2200 TO-S-INF-VL-12.12 40 ISNA166738R200 CPT-4 55 ISNA166738R0100 CPC-7 (1) 55 ISNA166741R0400 TO-DS-VL 40 ISNA166744R0500 TC-E-VA 40 ISNA166745R0000 TC-E-VA <td< td=""><td>1SNA166566R2500</td><td>M10-R-C5A</td><td>56</td></td<>	1SNA166566R2500	M10-R-C5A	56
ISNA166576R2700 FIM20-I 56 ISNA166577R2000 CPT-2 55 ISNA166578R0100 CPC-1 55 ISNA166578R2000 CPC-1 26 ISNA166625R2000 CC-E-VA-6.6 22 ISNA166625R2000 TC-E-VA-2-2 34 ISNA166628R0300 TC-E-VA-2-2 34 ISNA166630R0100 PC-E-VA-8.8 34 ISNA166638R0500 COR-C-R1-6.6 24 ISNA166644R0300 FIT-2/1-2 51 ISNA166644R0300 FIT-2/1-2 51 ISNA166645R0400 CPP-2 55 ISNA166647R0600 CPP-1 55 ISNA166672R0700 FIT-2/4-I 52 ISNA166728R2200 TO-S-INF-VL-6.6 22 ISNA166738R2400 CPT-4 55 ISNA166738R2000 CPC-7 (1) 55 ISNA166738R0100 CC-E-VA 22 ISNA166744R0500 TO-DS-VL 40 ISNA166744R0700 TO-D-VA 40 ISNA166745R0000 TF-E-VA <td< td=""><td>1SNA166573R2400</td><td>FIM10-R</td><td>56</td></td<>	1SNA166573R2400	FIM10-R	56
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1SNA166578R0100 CPC-1 55 1SNA166589R2500 FIC-2/4-I 26 1SNA166625R2000 CC-E-VA-6.6 22 1SNA166627R2200 TC-E-VA-2-2 34 1SNA166628R0300 TC-E-C5A-2.2 34 1SNA166630R0100 PC-E-VA-8.8 34 1SNA166638R0500 COR-C-R1-6.6 24 1SNA166644R0300 FIT-2/1-2 51 1SNA166644R0300 FIT-2/1-2 51 1SNA166645R0400 CPP-2 55 1SNA166647R0600 CPP-1 55 1SNA166672R0700 FIT-2/4-I 52 1SNA166722R2100 CC-S-INF-VL-6.6 22 1SNA166738R200 TO-S-INF-VL-12.12 40 1SNA166734R2500 CPC-7 (1) 55 1SNA166737R2000 CC-E-VA 22 1SNA166741R0400 TO-DS-VL 40 1SNA166743R0600 TC-DS-VL 34 1SNA166745R0000 TF-E-VA 46 1SNA166747R0200 TC-E-VA 46 1SNA166747R0200 TC-E-	1SNA166576R2700	FIM20-I	56
1SNA166578R0100 CPC-1 55 1SNA166589R2500 FIC-2/4-I 26 1SNA166625R2000 CC-E-VA-6.6 22 1SNA166627R2200 TC-E-VA-2-2 34 1SNA166628R0300 TC-E-C5A-2.2 34 1SNA166630R0100 PC-E-VA-8.8 34 1SNA166638R0500 COR-C-R1-6.6 24 1SNA166644R0300 FIT-2/1-2 51 1SNA166644R0300 FIT-2/1-2 51 1SNA166645R0400 CPP-2 55 1SNA166647R0600 CPP-1 55 1SNA166672R0700 FIT-2/4-I 52 1SNA166722R2100 CC-S-INF-VL-6.6 22 1SNA166738R200 TO-S-INF-VL-12.12 40 1SNA166734R2500 CPC-7 (1) 55 1SNA166737R2000 CC-E-VA 22 1SNA166741R0400 TO-DS-VL 40 1SNA166743R0600 TC-DS-VL 34 1SNA166745R0000 TF-E-VA 46 1SNA166747R0200 TC-E-VA 46 1SNA166747R0200 TC-E-	1SNA166577R2000	CPT-2	55
1SNA166625R2000 CC-E-VA-6.6 22 1SNA166627R2200 TC-E-VA-2-2 34 1SNA166628R0300 TC-E-C5A-2.2 34 1SNA166638R0500 PC-E-VA-8.8 34 1SNA166638R0500 COR-C-R1-6.6 24 1SNA166643R0200 COR-C-3 24 1SNA166644R0300 FIT-2/1-2 51 1SNA166645R0400 CPP-2 55 1SNA166647R0600 CPT-1 55 1SNA166672R0700 FIT-2/4-I 52 1SNA166672R2000 FIT-2/4-I 52 1SNA166728R2100 CC-S-INF-VL-6.6 22 1SNA166733R2200 TO-S-INF-VL-12.12 40 1SNA166733R2400 CPT-4 55 1SNA166734R2500 CPC-7 (1) 55 1SNA166738R0100 CC-E-VA 22 1SNA166741R0400 TO-DS-VL 40 1SNA166744R0700 TO-D-VA 40 1SNA166745R0000 TF-E-VA 46 1SNA166747R0200 TC-E-VA 46 1SNA166748R1300 TC-D-VA			55
1SNA166627R2200 TC-E-VA-2-2 34 1SNA166628R0300 TC-E-C5A-2.2 34 1SNA166630R0100 PC-E-VA-8.8 34 1SNA166633R0500 COR-C-R1-6.6 24 1SNA166643R0200 COR-C-3 24 1SNA166644R0300 FIT-2/1-2 51 1SNA166645R0400 CPP-2 55 1SNA166646R0500 CPT-1 55 1SNA166647R0600 CPP-1 55 1SNA166672R0700 FIT-2/4-I 52 1SNA16672R22100 CC-S-INF-VL-6.6 22 1SNA166723R2200 TO-S-INF-VL-12.12 40 1SNA166733R2400 CPT-4 55 1SNA166734R2500 CPC-7 (1) 55 1SNA166738R0100 CC-E-VA 22 1SNA16674R0400 TO-DS-VL 40 1SNA166748R0600 TC-E-VA 40 1SNA166745R0000 TF-E-VA 46 1SNA166747R0200 TC-E-VA 46 1SNA166748R1300 TC-D-VA 34 1SNA166757R0400 PO-DS-VL	1SNA166589R2500	FIC-2/4-I	26
ISNA166628R0300 TC-E-C5A-2.2 34 ISNA166630R0100 PC-E-VA-8.8 34 ISNA166638R0500 COR-C-R1-6.6 24 ISNA166643R0200 COR-C-3 24 ISNA166644R0300 FIT-2/1-2 51 ISNA166645R0400 CPP-2 55 ISNA166647R0600 CPT-1 55 ISNA166672R0700 FIT-2/4-I 52 ISNA16672R27200 CC-S-INF-VL-6.6 22 ISNA16673R2200 TO-S-INF-VL-12.12 40 ISNA16673R2200 CPT-4 55 ISNA166738R2400 CPT-7 (1) 55 ISNA166737R2000 CC-E-VA 22 ISNA166738R0100 CC-D-VA 22 ISNA166741R0400 TO-DS-VL 40 ISNA166744R0500 TC-DS-VL 34 ISNA166745R0000 TF-E-VA 46 ISNA166747R0200 TF-D-VA 46 ISNA166748R1300 TC-D-VA 34 ISNA166757R0400 PO-DS-VL 40	1SNA166625R2000	CC-E-VA-6.6	22
ISNA166630R0100 PC-E-VA-8.8 34 ISNA166638R0500 COR-C-R1-6.6 24 ISNA166644R0200 COR-C-3 24 ISNA166644R0300 FIT-2/1-2 51 ISNA166645R0400 CPP-2 55 ISNA16664FR0500 CPT-1 55 ISNA166672R0700 FIT-2/4-I 52 ISNA16672R2R2100 CC-S-INF-VL-6.6 22 ISNA166723R2200 TO-S-INF-VL-12.12 40 ISNA166733R2400 CPT-4 55 ISNA166734R2500 CPC-7 (1) 55 ISNA166737R2000 CC-E-VA 22 ISNA166741R0400 TO-DS-VL 40 ISNA166742R0500 TC-DS-VL 34 ISNA166745R0000 TO-E-VA 40 ISNA166746R0100 TF-E-VA 46 ISNA166748R1300 TC-E-VA 34 ISNA166757R0400 PO-DS-VL 40	1SNA166627R2200	TC-E-VA-2-2	34
1SNA166638R0500 COR-C-R1-6.6 24 1SNA166643R0200 COR-C-3 24 1SNA166644R0300 FIT-2/1-2 51 1SNA166645R0400 CPP-2 55 1SNA166646R0500 CPT-1 55 1SNA166647R0600 CPP-1 55 1SNA166672R0700 FIT-2/4-I 52 1SNA16672R2100 CC-S-INF-VL-6.6 22 1SNA166723R2200 TO-S-INF-VL-12.12 40 1SNA166733R2400 CPT-4 55 1SNA166734R2500 CPC-7 (1) 55 1SNA166738R0100 CC-B-VA 22 1SNA166738R0100 TO-DS-VL 40 1SNA166742R0500 TC-DS-VL 34 1SNA166748R000 TO-E-VA 40 1SNA166745R0000 TF-E-VA 46 1SNA166746R0100 TF-D-VA 46 1SNA166747R0200 TC-E-VA 34 1SNA166748R1300 TC-D-VA 34 1SNA166757R0400 PO-DS-VL 40	1SNA166628R0300	TC-E-C5A-2.2	34
1SNA166643R0200 COR-C-3 24 1SNA166644R0300 FIT-2/1-2 51 1SNA166645R0400 CPP-2 55 1SNA166647R0600 CPT-1 55 1SNA166647R0600 CPP-1 55 1SNA166672R0700 FIT-2/4-I 52 1SNA16672R2100 CC-S-INF-VL-6.6 22 1SNA166728R2200 TO-S-INF-VL-12.12 40 1SNA166738R2000 CPT-4 55 1SNA166734R2500 CPC-7 (I) 55 1SNA166737R2000 CC-E-VA 22 1SNA166738R0100 CC-D-VA 22 1SNA166741R0400 TO-DS-VL 40 1SNA166743R0600 TC-DS-VL 34 1SNA166745R0000 TF-E-VA 46 1SNA166746R0100 TF-D-VA 46 1SNA166747R0200 TC-E-VA 34 1SNA166748R1300 TC-D-VA 34 1SNA166757R0400 PO-DS-VL 40	1SNA166630R0100	PC-E-VA-8.8	34
1SNA166644R0300 FIT-2/1-2 51 1SNA166645R0400 CPP-2 55 1SNA166646R0500 CPT-1 55 1SNA166647R0600 CPP-1 55 1SNA166672R0700 FIT-2/4-I 52 1SNA166722R2100 CC-S-INF-VL-6.6 22 1SNA166723R2200 TO-S-INF-VL-12.12 40 1SNA166733R2400 CPT-4 55 1SNA166734R2500 CPC-7 (1) 55 1SNA166737R2000 CC-E-VA 22 1SNA166738R0100 CC-D-VA 22 1SNA166741R0400 TO-DS-VL 40 1SNA166743R0600 TC-DS-VL 34 1SNA166745R0000 TC-E-VA 40 1SNA166746R0100 TF-D-VA 46 1SNA166747R0200 TC-E-VA 34 1SNA166748R1300 TC-D-VA 34 1SNA166757R0400 PO-DS-VL 40	1SNA166638R0500	COR-C-R1-6.6	24
1SNA166645R0400 CPP-2 55 1SNA166646R0500 CPT-1 55 1SNA166647R0600 CPP-1 55 1SNA166672R0700 FIT-2/4-I 52 1SNA166672R2000 CC-S-INF-VL-6.6 22 1SNA166723R2200 TO-S-INF-VL-12.12 40 1SNA166733R2400 CPT-4 55 1SNA166734R2500 CPC-7 (1) 55 1SNA166737R2000 CC-E-VA 22 1SNA166738R0100 CC-D-VA 22 1SNA166741R0400 TO-DS-VL 40 1SNA166742R0500 TC-DS-VL 34 1SNA166744R0700 TO-E-VA 40 1SNA166745R0000 TF-E-VA 46 1SNA166747R0200 TC-E-VA 34 1SNA166747R0200 TC-E-VA 34 1SNA166748R1300 TC-D-VA 34 1SNA166757R0400 PO-DS-VL 40	1SNA166643R0200	COR-C-3	24
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ISNA166647R0600 CPP-1 55 ISNA166672R0700 FIT-2/4-I 52 ISNA166672R27200 CC-S-INF-VL-6.6 22 ISNA166723R2200 TO-S-INF-VL-12.12 40 ISNA166733R2400 CPT-4 55 ISNA166734R2500 CPC-7 (1) 55 ISNA166737R2000 CC-E-VA 22 ISNA166738R0100 CC-D-VA 22 ISNA166741R0400 TO-DS-VL 40 ISNA166742R0500 TC-DS-VL 34 ISNA166744R0700 TO-D-VA 40 ISNA166745R0000 TF-E-VA 46 ISNA166747R0200 TC-E-VA 34 ISNA166748R1300 TC-D-VA 34 ISNA166757R0400 PO-DS-VL 40	1SNA166645R0400	CPP-2	55
ISNA166672R0700 FIT-2/4-I 52 ISNA166722R2100 CC-S-INF-VL-6.6 22 ISNA166723R2200 TO-S-INF-VL-12.12 40 ISNA166733R2400 CPT-4 55 ISNA166734R2500 CPC-7 (1) 55 ISNA166737R2000 CC-E-VA 22 ISNA166738R0100 CC-D-VA 22 ISNA166741R0400 TO-DS-VL 40 ISNA166742R0500 TC-DS-VL 34 ISNA166743R0600 TO-E-VA 40 ISNA166745R0000 TF-E-VA 46 ISNA166747R0200 TF-E-VA 46 ISNA166748R1300 TC-E-VA 34 ISNA166748R1300 TC-D-VA 34 ISNA166757R0400 PO-DS-VL 40	1SNA166646R0500	CPT-1	55
1SNA166722R2100 CC-S-INF-VL-6.6 22 1SNA166723R2200 TO-S-INF-VL-12.12 40 1SNA166733R2400 CPT-4 55 1SNA166734R2500 CPC-7 (1) 55 1SNA166737R2000 CC-E-VA 22 1SNA166738R0100 CC-D-VA 22 1SNA166741R0400 TO-DS-VL 40 1SNA166742R0500 TC-DS-VL 34 1SNA166748R0600 TO-E-VA 40 1SNA166745R0000 TF-E-VA 46 1SNA166746R0100 TF-D-VA 46 1SNA166747R0200 TC-E-VA 34 1SNA166748R1300 TC-D-VA 34 1SNA166757R0400 PO-DS-VL 40	1SNA166647R0600	CPP-1	55
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ISNA166733R2400 CPT-4 55 ISNA166734R2500 CPC-7 (1) 55 ISNA166737R2000 CC-E-VA 22 ISNA166738R0100 CC-D-VA 22 ISNA166741R0400 TO-DS-VL 40 ISNA166742R0500 TC-DS-VL 34 ISNA166743R0600 TO-E-VA 40 ISNA166746R0700 TO-D-VA 40 ISNA166746R0100 TF-E-VA 46 ISNA166746R0100 TF-D-VA 46 ISNA166747R0200 TC-E-VA 34 ISNA166748R1300 TC-D-VA 34 ISNA166757R0400 PO-DS-VL 40	1SNA166722R2100	CC-S-INF-VL-6.6	22
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1SNA166737R2000 CC-E-VA 22 1SNA166738R0100 CC-D-VA 22 1SNA166741R0400 TO-DS-VL 40 1SNA166742R0500 TC-DS-VL 34 1SNA166743R0600 TO-E-VA 40 1SNA166744R0700 TO-D-VA 40 1SNA166746R0000 TF-E-VA 46 1SNA166746R0100 TF-D-VA 46 1SNA166747R0200 TC-E-VA 34 1SNA166748R1300 TC-D-VA 34 1SNA166757R0400 PO-DS-VL 40	1SNA166733R2400	CPT-4	55
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