

MAIN CATALOG

Essailec®

Test blocks





- Plug and play solution
- Safe and easy test operations such as measurement, monitoring, injection
- For current and voltage, transformers or sensors

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

CURRENT AND VOLTAGE SENSORS APPLICATION P.9

CURRENT TRANSFORMERS APPLICATION P.15

VOLTAGE TRANSFORMERS APPLICATION P.29

PROTECTION LIDS AND COVERS P.55

MULTICIRCUITS P.56

MOUNTING INSTRUCTIONS P.57

INDEX P.64

Value propositions



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

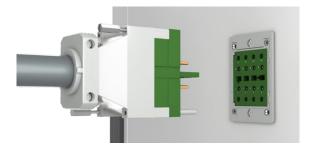
Essailec® offers several connection types: ring tongue, screw clamp, quick-connect and RJ45, to allow different wire terminations and connections up to 10 mm².

Features and benefits

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

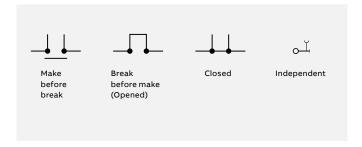


Essailec® is based on a plug & play operation solution. It is composed of a socket and a test plug.

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:

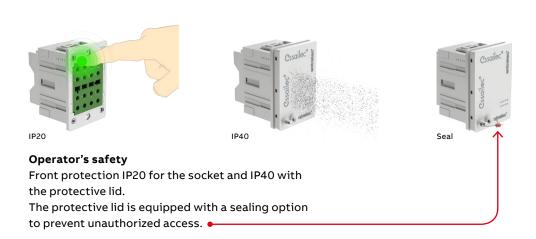
- Socket with "Make before break" contact design, available in the current, voltage, and RJ45 ranges
- Socket with "Break before make" (opened) contact design, available in voltage application
- Socket with "Closed" contact design, available in voltage application
- Socket with "4 independent circuits"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

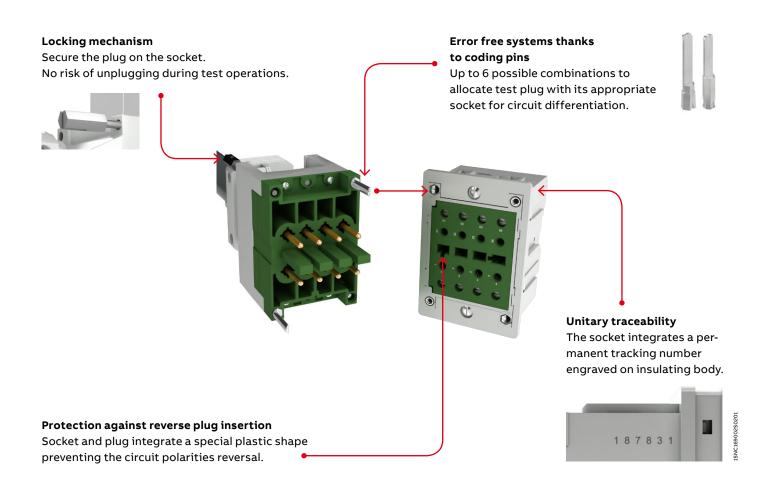
Safety & protection



Color coding

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





Features and benefits

Easy to install

Multiple choices of socket mounting

Mounting on panel: front or base mounting











Flush mounting

Half-base mounting

Base mounting

TH35 rail mounting

Rack mounting

Mounting within the panel.

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.





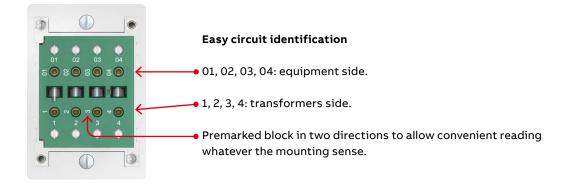






Quick-connect

Screw clamp



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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.







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)

circuits. Available in different colors

Allow testing of 4 voltage

(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.



Cover



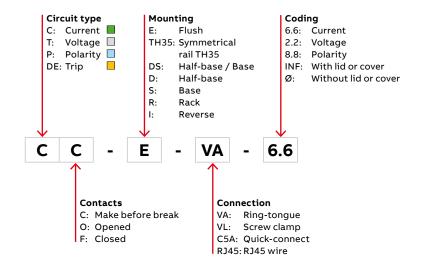
Lid with electrical continuity

Cover with electrical continuity

Sockets panorama

Contact type	Mounting	Connection	For current and		For voltage transformers			
			voltage sensors	transformers	Grey coding (standard)	Blue coding (polarity)	Orange coding (trip)	
					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		5	
1ake before break	Flush	Ring-tongue		CC-E-VA	TC-E-VA	PC-E-VA	_	
		g cogue		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	_	
ndependent circuit	sBase	Screw clamp	_	_	TT4-S-VL-INF	_	_	

Socket designation



VC169003S0201

Current and voltage sensors application

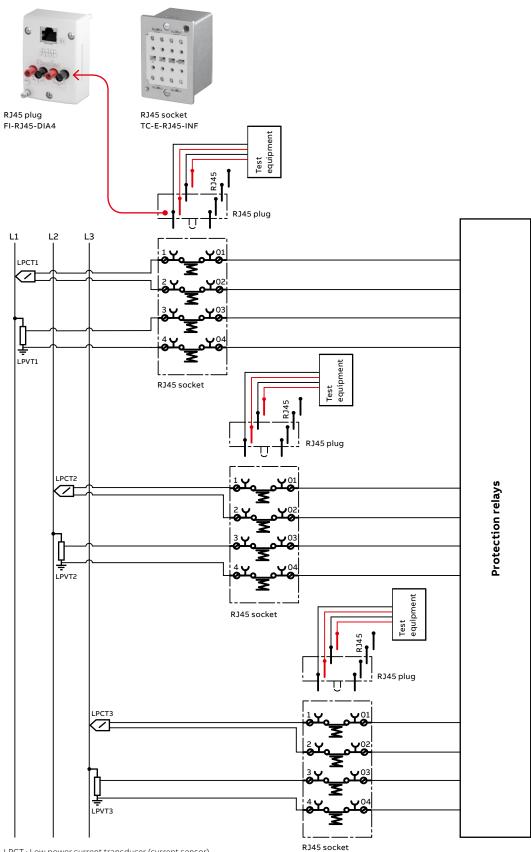
Make before break

CURRENT AND VOLTAGE SENSORS APPLICATION

Test principles - Essailec® RJ45	10	
Essailec® RJ45 sockets for current and voltage sensors	1/	

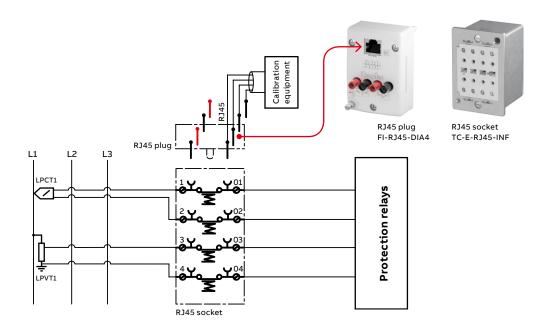
Current and voltage sensors application

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)

Make before break base Injection with Essailec® RJ45 test plug



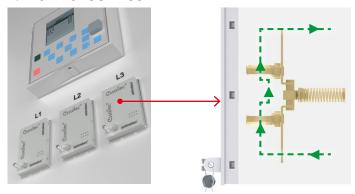
Current and voltage sensors application

Make before break test principle With Essailec® RJ45 test plug

Applications

- Injection
- Equipment replacement



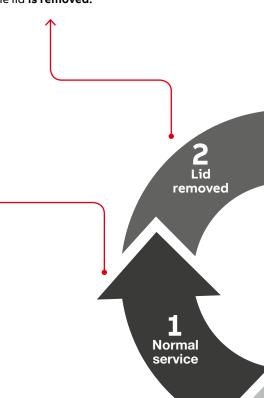


1.1 Essailec® RJ45 sockets have a shielded body. The 3 sockets are required to cover the testing operation on the 3 main lines (L1, L2, L3). 1.2 The lid is installed on the socket and can be sealed to prevent unauthorized access. The socket **circuits are closed** and signals flow from current and voltage sensors to protection relay.

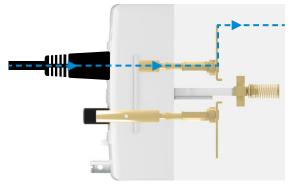
2. Lid removal



The lid is removed.



4.2 Test phase: Injection

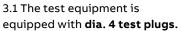




The RJ45 socket allows to perform **injection**. Plug a **RJ45 connector** on to the Essailec® RJ45 plug to test the protection relay through the integrated RJ45 input.

3. Preparation: Test plugs connections





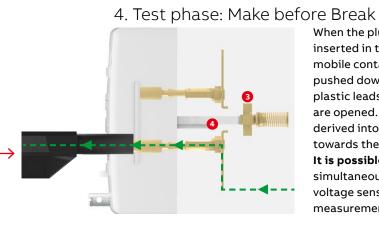
Preparation:

Test plugs connections

Measurement Injection



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).



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

Current and voltage sensors application

Essailec® RJ45 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 Posidriv Conductive parts Silver-plated (for grounding Ø 4 mm Rated voltage 125 V Ø 0.16 in screw) 1000 V Impulse withstand voltage Pollution degree Rated current 1.5 A 1.2 Nm Torque 0.5 % 10.8 lb.in Accuracy (for grounding -40 ... +85 °C Storage temperature range screw) -40 ... +85 °C Working temperature range Protection without lid / with lid IP20 / IP40



Ordering details					Compatible products			
Color	Туре	Order code	Pkg qty	Weight 1 pce g	Lid / Cover	Plug	Socket	
Socke	et							
Flushr	nounting		'					
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	Order code	Pkg	Weight
				qty	(1 pce) g
1 Protecting covers for RJ45 sockets	Grey 🔲	CPT-RJ45	1SNA167002R0000	1	25.4



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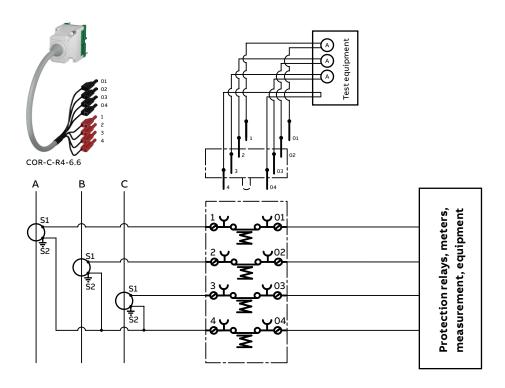
Current transformers application

Make before break

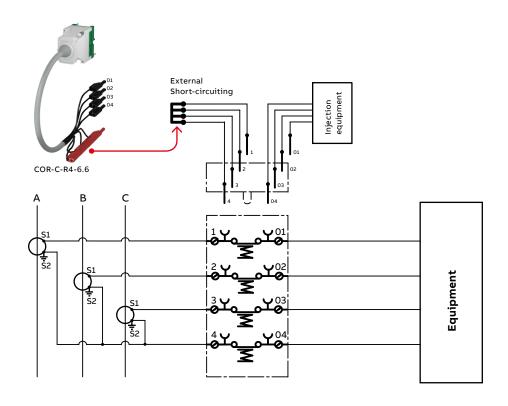
CURRENT TRANSFORMERS APPLICATION

Test principles	10
Essailec® sockets for Current Transformers	2:
Essailec® pre-wired plugs for Current Transformers	24
Essailec® universal adaptor with Ø 4mm outputs	2!
Essailec® customized plugs	20

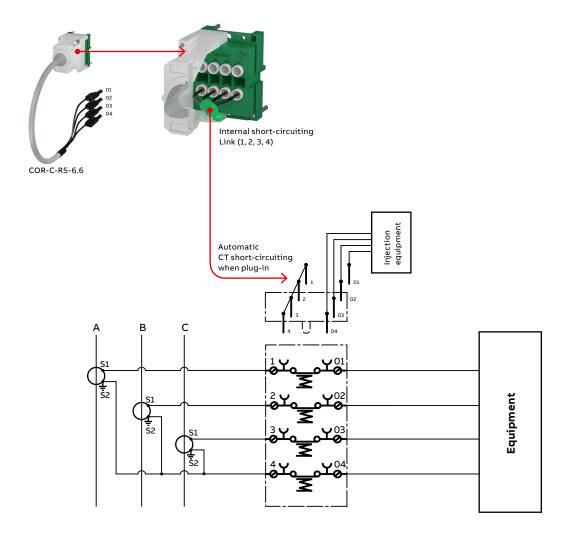
Make before break test principle Measurement with 2x4 poles test plug



Make before break test principle Injection or equipment replacement with 2x4 poles test plug



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

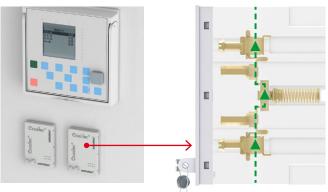


Make before break test principle With 2x4 poles test plug

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

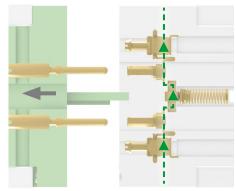


2.1 The lid is removed.

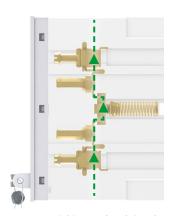


2.2 Connect the Essailec® test plug leads to the test set. (For equipment change or injection, short-circuit externally the 4 test leads connected on the current transformer side: 1-2-3-4)

5. Back to normal service



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



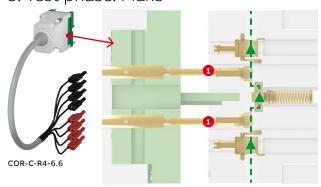
5.2 Lid is put back in place.



5 Back to normal service

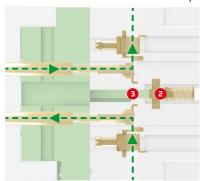
3. Test phase: Make

Test phase:



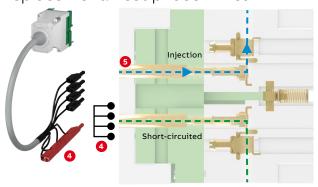
During plug insertion, plug pins make contact with socket pins (1). **Contacts remain closed and the signal flow has not change.** This operation prevent signal interruption (mandatory for current transformers).

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).

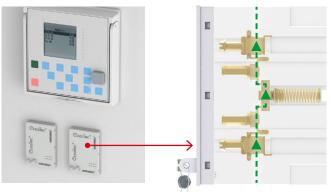
When the plug is fully inserted in the socket, **the current transformer is automatically short-circuited** and current injection (or equipment change) can be done on the equipment side (5).

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

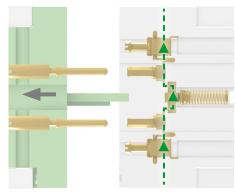


2.1 The lid is removed.



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.

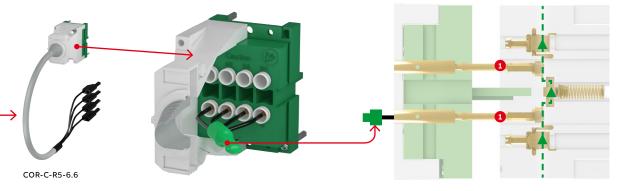


5.2 Lid is put back in place.



Preparation

5 Back to normal service 3. Test phase: Make & CT short-circuiting

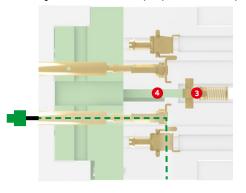


The plug is equipped with built in short circuited contacts on current transformers side (1-2-3-4)

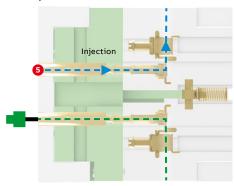
During plug insertion, plug pins make contact with the socket pins (1), and simultaneously the current transformer is short-circuited.

Test phase:

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:

- $\bullet\,$ 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			Mounting instructions			
Connecting capacity		IEC 947-1	Rail)	G32, TH 35-7.5, TH 35-15	
Screw clamp	Rigid - Solid / Stranded	0.2 6 mm²	Screw clamp			
(VL)	Flexible	0.22 4 mm²				
Ring tongue	Flexible	0.34 10 mm²	Wire		9.5 mm	
(VA)	Ø lug hole size	3 mm	stripping		0.370 in	
	Width	7.5 mm	length			
Body		Polycarbonate				
Conductive pa	rts	Gold-plated	Tool		Flat screwdriver	
Rated voltage		400 V			Ø 4 mm	
Impulse withs	tand voltage	4000 V			Ø 0.157 in	
Pollution degr	ee	3				
Rated current		15 A				
Short-circuit current		100 A/5 s 200 A/1 s	Torque		0.5 0.8 Nm	
Storage temperature range		-25 +70 °C		((),	4.4 7.1 lb.in	
Working temperature range		-10 +55 °C				
Protection wit	hout lid / with lid	IP20 / IP40				
Coding color		Green				











Ordering details				Compatible products						
Туре	Order code	Pkg	Weight	Lid	Cover	Universal	Pre-wired plug	gs		
		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 mou	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-R	
CC-E-VA-6.6	1SNA166625R2000	1	150	Lid +						
CC-E-VA-R2-6.6	1SNA166976R0000	50	170	coding included	1		COR-C-R1-6.6	COR-C-R2-6.6	COR-C-3	
Base / Half	f-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-R	
INF-VL-0.0					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-R5-6.6		
							COR-C-R1-6.6	COR-C-R2-6.6	COR-C-3	
TH35 rail m	nounting									
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-R	
							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-R	
							-	-	COR-C-3	
Reverse mo	ounting									
Ring-tongue										
CC-I-VA-2	1SNA166941R2500	1	210	-	-	-	-	-	COR-C-R	
							-	_	COR-C-3	

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

Essailec® sockets for Current Transformers – Make before break







Accessories

	Description		Туре	Order code	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	Compatible with ring-tongue connection only (VA) (b)	PCVA	1SNA167496R1100	10	1
7	bars	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



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





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

Compatible

products

Description	Туре	Order code	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 mm ² 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 mm ² 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 mm ² 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
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

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

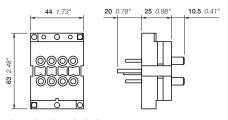
Standard current plugs are compatible with Essailec® current sockets.

• 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	Compatible products				
Description	Туре	Order code	Pkg	Weight	Socket
			qty	1 pce g	
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



Essailec® customized plugs

Description

Ordering details

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

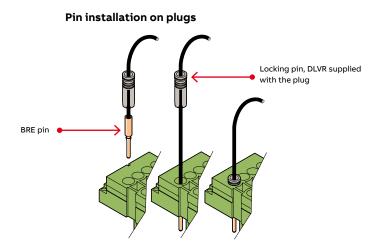
Compatible

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.

	Description	Туре	Order code	Pkg qty	Weight 1 pce g	products Socket
				4-3	- pcc 9	JULKEL
	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
	Plugs without contact pins (cont	act pins BF	RE-C to be ordered	l separa	telv)	
	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 mm²	BRE-C-1	1SNA167264R0700	10	2.6	-
	Pin 1.5 mm²	BRE-C-1.5	1SNA167265R0000	10	2.6	-
	Pin 2.5 mm ²	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 mm ² (1)	PSC	1SNA173181R1300	1	478	-
2	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	-
4	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	_
6 4	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	_
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				_	
	12 Plug coding pin	COP-FI-1	1SNA167378R1100	10	2.3	_

Essailec® customized plugs



40

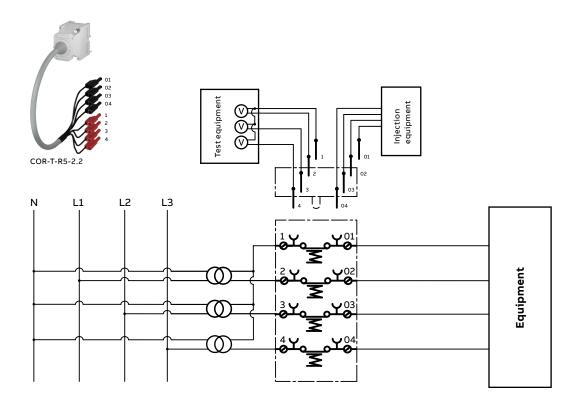
Voltage transformers application

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

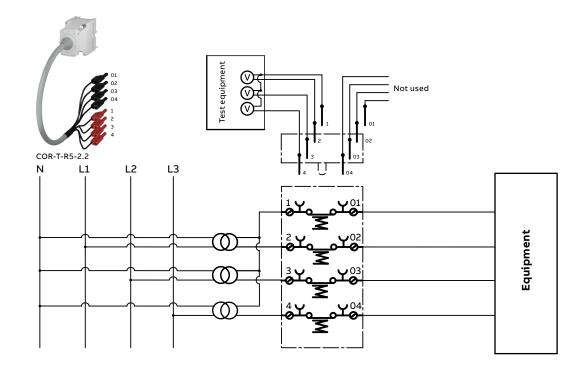
VOLTAGE TRANSFORMERS APPLICATION

Voltage transformers application

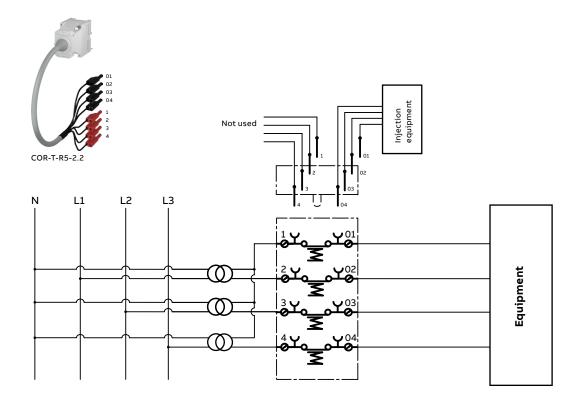
Make before break test principle Simultaneous measurement and injection with 2x4 poles test plug



Make before break test principle Measurement with 2x4 poles test plug



Make before break test principle Injection with 2x4 poles test plug



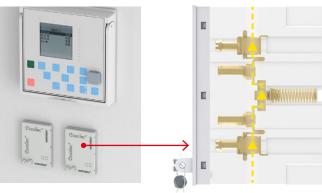
Voltage transformers application

Make before break test principle With 2x4 poles test plug

Applications

- Measurement on VT's
- Injection
- Equipment replacement

1. Normal service

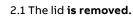


1.1 Essailec® voltage sockets allow the simultaneous testing operations of 1 to 4 independent circuits on the same socket.

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

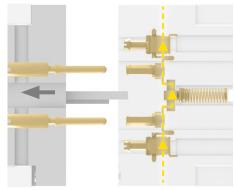






2.2 Connect the Essailec® test plug leads to the test set.

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.

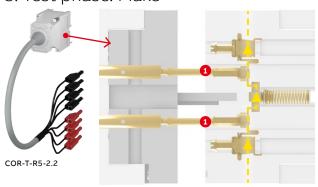
Preparation

1
Normal service

5
Back to normal

service

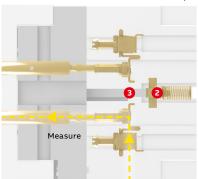
3. Test phase: Make



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

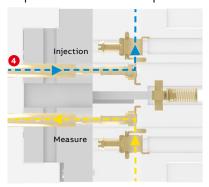
Test phase: Make Test phase: Break

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).

Voltage transformers application

Essailec® sockets for voltage transformers - Make before break





TC-E-VA

Description

 $Short\mbox{-circuited contacts for measurement, calibration and distribution applications.}$

Make before break principle:

- $\bullet\,$ 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.
- $\bullet\,$ By convention grey coding is for voltage circuits and blue coding is for polarity circuits.

Main techr	nical data	Mounting instructions				
Connecting capacity		IEC 947-1	Rail	ر	G32, TH 35-7.5, TH 35-15	
Screw clamp	Rigid - Solid / Stranded 0.2 6 mm²		Screw clamp	'		
(VL)	Flexible	0.22 4 mm ²				
Ring tongue	Flexible	0.34 10 mm²	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			Ø 4 mm	
Impulse withsta	ind voltage	4000 V			Ø 0.157 in	
Pollution degree	9	3				
Rated current		8 A				
Short-circuit current		25 A/5 s 800 A/1 s	Torque		0.5 0.8 Nm	
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					
Color		Туре	Order code	_	Weight	Lid	Cover	Universal	Pre-wired plugs	
				qty	1 pce g			plug	2x4 poles	4 poles
Flus	h m	nounting								
Ring-	-ton	igue								
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				
Quic	kcoı	nnect								
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
		Half-base m	ounting							
Scre	w cla	amp		1	100	CDT-1	CDT-5 (1)	EL-2/A-DIAA	COD.T.D5.2 2	COP-T-4-4 (
	w cla	amp] TC-DS-VL	Ounting 1SNA166742R0500 1SNA166948R0400	1 1	100	CPT-1	CPT-5 (1) Cover + coding included	FI-2/4-DIA4	COR-T-R5-2.2	COR-T-4-4 (2 COR-T-4-4
Scre	w cla	amp] TC-DS-VL	1SNA166742R0500	_		-	Cover + coding	FI-2/4-DIA4	COR-T-R5-2.2	COR-T-4-4
Scre v Grey	w cla	amp TC-DS-VL TC-S-INF-VL-2.2	1SNA166742R0500 1SNA166948R0400	1	170	-	Cover + coding	FI-2/4-DIA4		COR-T-4-4
Screv Grey Blue	w cla	amp TC-DS-VL TC-S-INF-VL-2.2	1SNA166742R0500 1SNA166948R0400	1	170	-	Cover + coding	,		COR-T-4-4
Screv Grey Blue Ring	w cla	amp TC-DS-VL TC-S-INF-VL-2.2 PC-DS-VL	1SNA166742R0500 1SNA166948R0400 1SNA166758R1500	1	170	CPT-1	Cover + coding	,	COR-P-R1-8.8	COR-T-4-4 (2
Screv Grey Blue Ring Grey Blue	w cla	TC-DS-VL TC-S-INF-VL-2.2 PC-DS-VL gue	1SNA166742R0500 1SNA166948R0400 1SNA166758R1500 1SNA166748R1300 1SNA166764R0300	1 1	170 130	CPT-1	Cover + coding	,	COR-P-R1-8.8	COR-T-4-4 (2
Screv Grey Blue Ring Grey Blue	w cla	amp TC-DS-VL TC-S-INF-VL-2.2 PC-DS-VL TGue TC-D-VA PC-D-VA TC-D-VA TIC-D-VA TIC-D-VA TIC-D-VA TIC-D-VA TIC-D-VA TIC-D-VA	1SNA166742R0500 1SNA166948R0400 1SNA166758R1500 1SNA166748R1300 1SNA166764R0300	1 1	170 130	CPT-1	Cover + coding	,	COR-P-R1-8.8	COR-T-4-4 (2



⁽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		Туре	Order code	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	Compatible with ring-tongue connection only (VA) (b)	PCVA	1SNA167496R1100	10	1
7	bars	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 COR-T-R5-2.2



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

Connection technologies





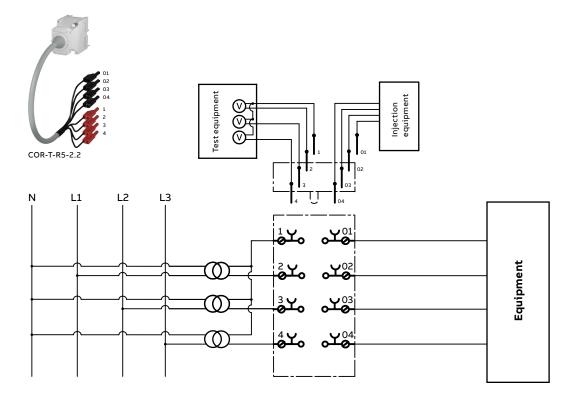


Screw clamp

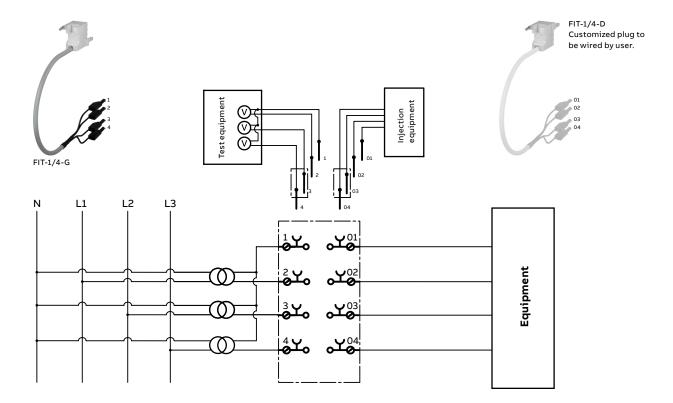


Quick-connect

Break before make test principle Simultaneous measurement and injection with 2x4 poles test plug



Break before make test principle Measurement or/and injection with 4 poles test plugs

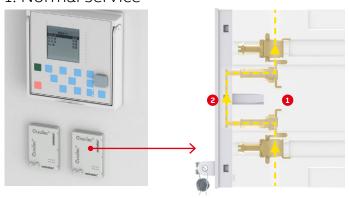


Break before make test principle With 2x4 or 4 poles test plug

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.

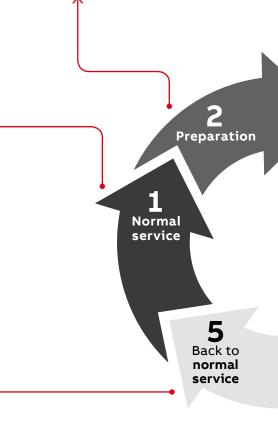
1.2 The lid is installed on the socket and can be sealed to prevent unauthorized access.

The socket has no mobile contacts (closed style) (1). Circuit continuity is ensured by the lid equipped with built- in contact pins (2).

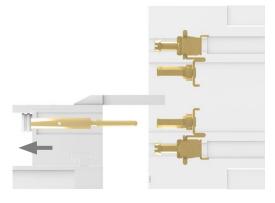
2. Preparation: plug



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.

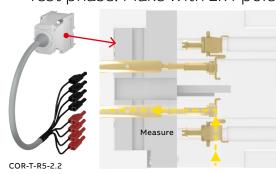
3. Test phase: Break



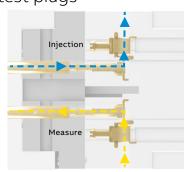
Removing of the lid **opens the** circuit.

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

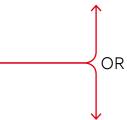
Test phase: Break 4. Simultaneous measurement and injection Test phase: Make with 2x4 poles test plugs



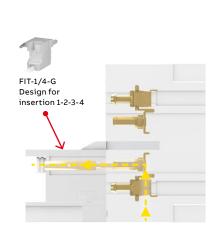
4.1 The plug is fully inserted in the socket, **the signals** are **derived** into the plug towards the test set.



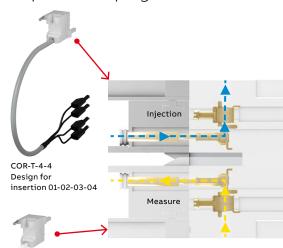
4.2 While the plug is still in place **simultaneous injection** can be realized on the equipment.



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.

Essailec® sockets for voltage transformers - Break before make





TO-E-VA

Description

Ordering details

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 mm²	Screw clamp				
(VL)	Flexible	0.22 4 mm²					
Ring tongue	Flexible	0.34 10 mm²	Wire		9.5 mm		
(VA)	Ø lug hole size	3 mm	stripping	+ +	0.370 in		
	Width	7.5 mm	length				
Body		Polycarbonate					
Conductive pa	rts	Silver-plated	Tool		Flat screwdriver		
Rated voltage		400 V			Ø 4 mm		
Impulse withst	and voltage	4000 V			Ø 0.157 in		
Pollution degre	ee	3					
Rated current		8 A					
Short-circuit c	urrent	25 A/5 s 800 A/1 s	Torque		0.5 0.8 Nm		
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 - Orange					

Compatible products









unting		qty	1 pce g					
			1 pce g	-		plug	2x4 poles	4 poles
ie.								
-								
)-E-VA	1SNA166743R0600	1	170	CPT-2	-	FI-2/4-DIA4	COR-T-R5-2.2 (1)	COR-T-4-4
)-E-VA-12.12	1SNA166925R1500	1	200	Lid + coding included			FIT-2/4-2 (3)	
)-E-VA	1SNA166759R1600	1	170	CPP-2			COR-P-R1-8.8 (1)	_
O-E-VA	1SNA166878R0600	1	170	CPDE-2			FIDE-2/4 (3)	
l f-base m p)-DS-VL	1SNA166741R0400	1	100	CPT-2	CPT-4 (2)	FI-2/4-DIA4	COR-T-R5-2.2	COR-T-4-4
)-DS-VL	15NA166741R0400	1	100	CP1-2	CP1-4 (2)	FI-2/4-DIA4	(1)	COR-1-4-4
)-S- F-VL-12.12	1SNA166723R2200	1	200	_	Cover + coding included	-	FIT-2/4-2 (3)	-
)-DS-VL	1SNA166757R0400	1	117	CPP-2	-	FI-2/4-DIA4	COR-P-R1-8.8 (1)	
ie								
)-D-VA	1SNA166744R0700	1	139	CPT-2	-	FI-2/4-DIA4	COR-T-R5-2.2 (1)	COR-T-4-4
D-D-VA	1SNA166760R1300	1	170	CPP-2			COR-P-R1-8.8 (1)	_
O-D-VA	1SNA166874R2200	1	140	CPDE-2	1		FIDE-2/4 (3)	
)-[)-[D-VA	D-VA 1SNA166760R1300 -D-VA 1SNA166874R2200	D-VA 1SNA166760R1300 1 -D-VA 1SNA166874R2200 1	D-VA 1SNA166760R1300 1 170 -D-VA 1SNA166874R2200 1 140	D-VA 1SNA166760R1300 1 170 CPP-2 -D-VA 1SNA166874R2200 1 140 CPDE-2	D-VA 15NA166760R1300 1 170 CPP-2 -D-VA 15NA166874R2200 1 140 CPDE-2	D-VA 1SNA166760R1300 1 170 CPP-2 -D-VA 1SNA166874R2200 1 140 CPDE-2	(1) COR-P-R1-8.8 (1) D-VA 1SNA166760R1300 1 170 CPP-2 (1) COR-P-R1-8.8 (1) FIDE-2/4 (3)

190

CPT-2

FIT-2/4-I

FIT-2/4-I (3) -

(1) Compatible with some restrictions.

TO-I-VA-2

Ring-tongue

Grey

- (2) Compatible in base mounting only.

1SNA166945R2100

(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	Order code	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	Compatible with ring-tongue connection only (VA) (b)	PCVA	1SNA167496R1100	10	1
7	bars	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 COR-T-R5-2.2



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

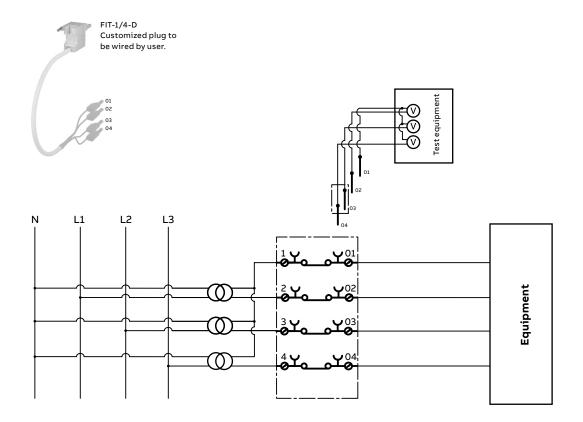
Connection technologies





Screw clamp

Closed contact test principle Measurement with 4 poles test plug

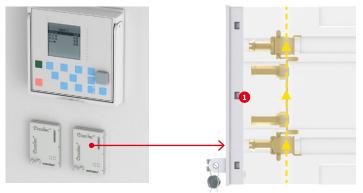


Closed contact test principle With 4 poles test plug

Applications

• Measurement on VT's

1. Normal service



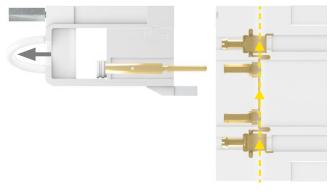
1.1 Essailec® voltage sockets allow the simultaneous testing operations of 1 to 4 independent circuits on the same socket.

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.

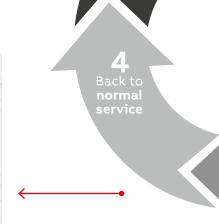
4. Back to normal service



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.



Normal service

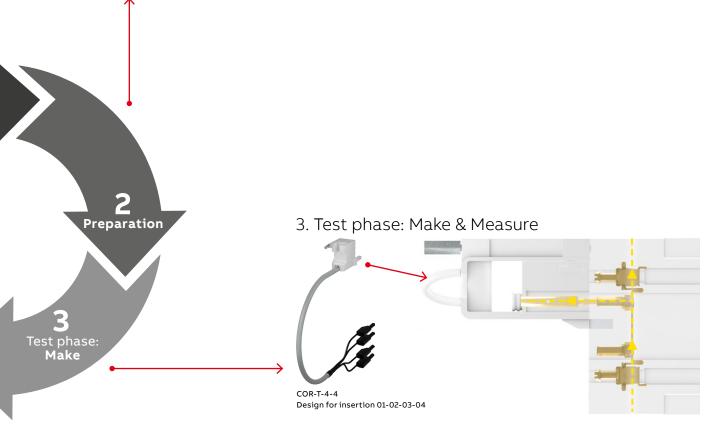
2. Preparation: plug and lid





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	lounting instructions			
Connecting ca	pacity	IEC 947-1	Rail)	G32, TH 35-7.5, TH 35-15		
Screw clamp	Rigid - Solid / Stranded	0.2 6 mm²	Screw clamp				
(VL)	Flexible	0.22 4 mm²					
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 pa	rts	Silver-plated	Tool	(Z)	Flat screwdriver		
Rated voltage		400 V			Ø 4 mm		
Impulse withst	tand voltage	4000 V			Ø 0.157 in		
Pollution degre	ee	3					
Rated current		8 A					
Short-circuit c	urrent	25 A/5 s 800 A/1 s	Torque		0.5 0.8 Nm		
Storage temperature range		-25 +70 °C		((),	4.4 7.1 lb.in		
Working temp	erature range	-10 +55 °C					
Protection without lid / with lid		IP20 / IP40					
Coding color		Grey 🔲 - Blue 🔲 - Orange 🔲	_				





Orae	Ordering details				Comp	atible	products				
Color	Туре	Order code	Pkg	Weight	Lid	Cover	ver Universal	Pre-wired plugs			
			qty	1 pce g			plug	2x4 poles	4 poles		
Flush	mounting										
Ring-t	ongue										
Grey	☐ TF-E-VA	1SNA166745R0000	1	170	CPT-1	-	-	-	COR-T-4-4		
		1611116676180000	1	170	CPP-1				FIP-1/4-D (1)		
Blue	PF-E-VA	1SNA166761R0000									
									FIP-1/4-G (1		
Base	/ Half-base	mounting							FIP-1/4-G (1)		
Base	/ Half-base		1	120	CPT-1	CPT-5 (2	2) –	-	FIP-1/4-G (1)		
Base Screw	/ Half-base	mounting	1 1	120	CPT-1 CPP-1	CPT-5 (2	2) –	-	COR-T-4-4 FIP-1/4-D (1)		
Base Screw Grey	/ Half-base	mounting 15NA166503R2700				CPT-5 (2	2) –	-	COR-T-4-4		
Base Screw Grey Blue	/ Half-base	mounting 15NA166503R2700	1 1			CPT-5 (2	2) -	-	COR-T-4-4 FIP-1/4-D (1)		
Base Screw Grey Blue	/ Half-base clamp TF-DS-VL PF-DS-VL	mounting 15NA166503R2700				CPT-5 (2	2) -	-	COR-T-4-4 FIP-1/4-D (1)		
Base Screw Grey Blue Ring-t	/ Half-base clamp TF-DS-VL PF-DS-VL	mounting 1SNA166503R2700	1 1 1 1	117	CPP-1	CPT-5 (2	2) -	-	COR-T-4-4 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	Order code	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	Compatible with ring-tongue connection only (VA) (b)	PCVA	1SNA167496R1100	10	1
7	bars	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 COR-T-4-4 Design for insertion 01-02-03-04

Connection technologies







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**

Connecting ca	pacity	IEC 947-1	Rail	TH 35-7.5,
			T	TH 35-15
Screw clamp	Rigid - Solid / Stranded	0.2 6 mm²	Wire stripping	9.5 mm
(VL)	Flexible	0.22 4 mm²	length	0.370 in
	with non insulated ferrule	0.22 4 mm²		
Body		Polycarbonate		
Conductive pa	rts	Silver-plated	Tool	Flat screwdriver
Rated voltage		400 V		Ø 4 mm
Impulse withst	and voltage	4000 V		Ø 0.157 in
Pollution degre	ee	3		
Rated current		8 A		
Short-circuit current		25 A/5 s 800 A/1 s	Torque	0.5 0.8 Nm
Storage tempe	rature range	-25 +70 °C	(()	4.4 7.1 lb.in
Working temperature range		10 +55 °C		,
Protection witl	hout cover/ lid	IP20		

Ordering details			Compatible	ole products		
Color	Туре	Order code	Pkg qty	Weight 1 pce g	Lid / Cover	Cover
Base	/ Half-base mo	unting				
Grey	TT4-S-VL-INF	1SNA166972R0000	40	114	Included	included

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





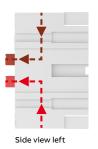


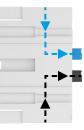
Accessories

	Description		Туре	Order code	Pkg	
					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	Compatible with ring-tongue connection only (VA) (b)	PCVA	1SNA167496R1100	10	1
7	bars	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 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 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/1 s
Storage temperature range	-25 +70 °C
Working temperature range	-10 +55 °C

Ordering details					products
Description	Туре	Order code	Pkg	Weight	Socket
			qty	1 pce g	
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 PC-E-VA PC-E-VA PC-E-VA PC-D-VA PO-DS-VL PO-D-VA DEO-E- A DEO-D-VA

Continue on next page \rightarrow

Compatible

Essailec® pre-wired plugs for voltage transformers



Ordering details					Compatible products
Description	Туре	Order code	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 mm ² 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-8.8 PC-DS-VL PC-D-VA PO-E-VA PO-E-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



Essailec® customized plugs

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.

Description	Color	Туре	Order code	Pkg qty	Weight 1 pce g	products Socket
				40	- pec g	Jocket
1 pole plug with co		ns				
Plug 2 poles with 2.5 mm ²	-	FIT-2/1-1	1SNA166821R1500	1	30	TC-E-VA
contact pins (BRE-T-2.5), without coding pins		FIT-2/1-2	ns BRE, to be ordere	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-12.12 TO-DS-VL TO-S-INF-VL-12.13 TO-D-VA TO-I-VA-2 PC-E-VA-PC-E-VA-8.8 PC-DS-VL PC-D-VA PO-E-VA-VA PO-E-VA-VA PO-E-VA-VA PO-E-VA-VA PO-BS-VL PO-D-VA DEO-E-A
2x4 poles	act pins	(contact pii	is bitting to be ordere	a sepai	ucc.y,	
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	1SNA166937R1100	1	105	TC-E-VA TC-E-VA-R2-2.2 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-12.13 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 mm ² 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 \rightarrow

Essailec® customized plugs



Ordering details						Compatible
Description	Color	Туре	Order code	Pkg qty	Weight 1 pce g	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.		FIT-1/4-G	1\$NA166547R2200	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
	Orange	FIDE-1/4-G	1SNA166898R2300	1	40	DEO-D-VA DEF-D-VA

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DEO-E-VA

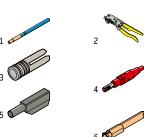
Essailec® customized plugs



Ordering details						Compatible
Description	Color	Туре	Order code	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.	Grey	FIT-1/4-D	1SNA166546R2100	i	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 TF-DS-VL TF-DS-VL
	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

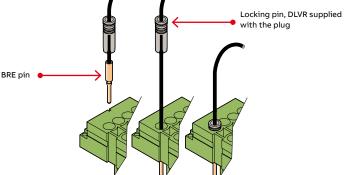
Essailec® customized plugs

RE-T-0.34 RE-T-0.75 RE-T-1	1SNA168160R1400 1SNA167779R1300	Pkg qty	Weight 1 pce g	Socket
RE-T-0.75		50		
RE-T-0.75			2	
RE-T-0.75			2	
	1SNA167779R1300		ı -	-
RE-T-1		50	2.9	-
	1SNA164921R1700	50	3	-
RE-T-1.5	1SNA164922R1000	50	2.6	-
RE-T-2.5	1SNA164923R1100	50	2	-
RE-T-4	1SNA166980R0000	100	3	-
RE-T-6	1SNA168147R0300	50	3	-
XBR1	1SNA167008R0300	1	24	-
SC	1SNA173181R1300	1	478	-
LVR	1SNA167971R2400	10	0.4	-
C4-1	1SNA167927R1000	10	11	-
C4-5	1SNA167931R1400	10	10	-
F	RE-T-4 RE-T-6 (BR1 GC VR	RE-T-4 15NA166980R0000 RE-T-6 15NA168147R0300 (BR1 15NA167008R0300 CC 15NA173181R1300 LVR 15NA167971R2400 (34-1 15NA167927R1000	RE-T-4 15NA166980R0000 100 RE-T-6 15NA168147R0300 50 (BR1 15NA167008R0300 1 CC 15NA173181R1300 1 CVR 15NA167971R2400 10 (34-1 15NA167927R1000 10	RE-T-4 15NA166980R0000 100 3 RE-T-6 15NA168147R0300 50 3 (BR1 15NA167008R0300 1 24 GC 15NA173181R1300 1 478 LVR 15NA167971R2400 10 0.4





Pin installation on plugs



40 1

40

66 1

78

1 66

For all applications

Essailec® protection lids and covers

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

Ducto etian with seven / liel	IDAO
Protection with cover / lid	1P40

Ordering details

Description	Color	Туре	Order code	Pkg qty	Weight 1 pce g
Lid					
Protecting covers for current sockets	Green	CPC-1	1SNA166578R0100	1	30
Protecting covers for voltage sockets	Grey	CPT-1	1SNA166646R0500	1	30
Protecting covers for trip sockets	Blue	CPP-1	1SNA166647R0600	1	30
Protecting covers for polarity sockets	Orange	CPDE-1	1SNA166876R2400	1	30
Lid for RJ45 socket (spare part)	Grey	CPT-RJ45	1SNA167002R0000	1	25.4

CPT-2

CPP-2

CPDE-2

CPC-7 (1)

CPT-5

CPT-4

1SNA166577R2000

1SNA166645R0400

1SNA166926R1600

1SNA166734R2500

1SNA166930R2600

1SNA166733R2400

Grey

Blue

Orange

Green

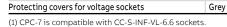
Grey











Cover with electrical continuity

Lid with electrical continuity

Protecting covers for voltage sockets

Protecting covers for polarity sockets

Protecting covers for current sockets

Protecting covers for voltage sockets

Protecting covers for trip sockets

Cover

Essailec® multicircuits

Range 10, 20 points



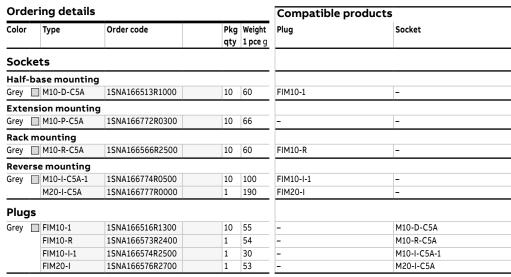
M10-D-C5A

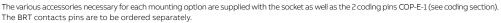
Description

- · 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** Connecting capacity IEC 947-1 Socket Quick connect (C5A) 0.5 ... 0.8 Nm Wire 9.5 mm Flexible 2.5 mm² stripping 0.370 in Plug Pin BRE length Body Polycarbonate Conductive parts Silver-plated Rated voltage 400 V Impulse withstand voltage 4000 V Pollution degree Rated current 8 A 25 A/5 s ... 800 A/1 s Short-circuit current -25 ... +70 °C Storage temperature range Working temperature range -10 ... +55 °C Protection without cover/ lid IP20 / IP40











M20-I-C5A





FIM20-I

Accessories







- 1		ı
	Description	

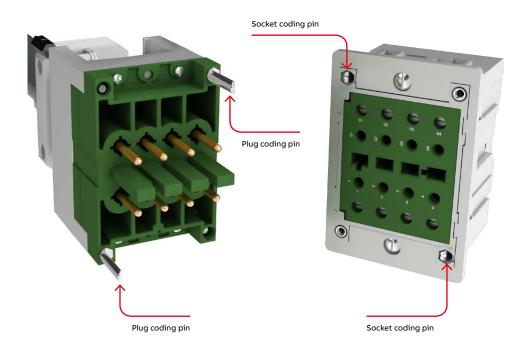
	Description	Туре	Order code	Pkg	Weight
				qty	1 pce g
Fc	or sockets				
1	For 2 sockets assembly	CVABM	1SNA183436R0500	10	0.4
Fo	or plugs	*		,	
2	Pin 0.34 mm²	BRE-T-0.34	1SNA168160R1400	50	2
	Pin 0.75 mm²	BRE-T-0.75	1SNA167779R1300	50	2.9
	Pin 1 mm²	BRE-T-1	1SNA164921R1700	50	3
	Pin 1.5 mm²	BRE-T-1.5	1SNA164922R1000	50	2.6
	Pin 2.5 mm ²	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

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Mounting instructions

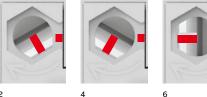
Mounting instructions for coding	58
Outer dimensions, mounting instructions	60

Mounting instructions for coding

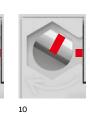




Socket coding









Plug coding













These numbers correspond to the coding information

For instance:

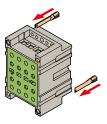
CC-E-VA-6.6 corresponds to COR-C-R4-6.6 TC-E-VA-2.2 corresponds to COR-T-R5-2.2

Ordering details

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

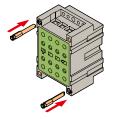
Mounting instructions for coding

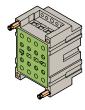
How to insert the coding pins?



Step 1 - Socket

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

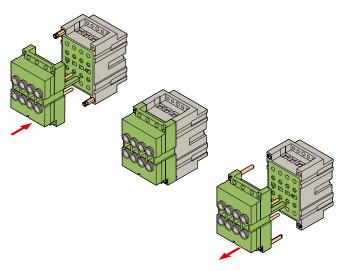




Step 2 - Plug

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

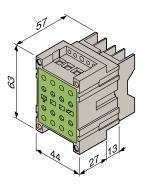
1. Insert the coding pin for the plug (COP-FI-1) inside the socket.

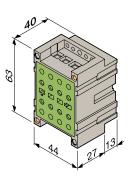


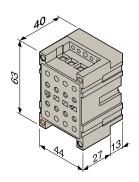
2. On a second time, connect the plug on the socket to insert the plug coding within the plug.

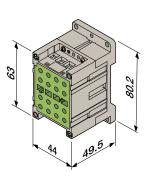
Outer dimensions

Sockets







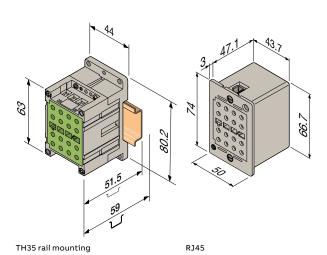


Half-base mounting

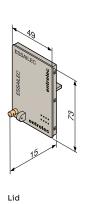
Rack mounting

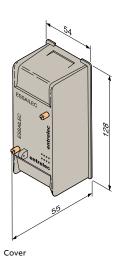
Base mounting

Base mounting with KEM-3







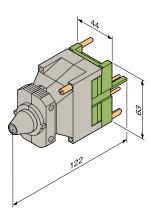


C16902250201

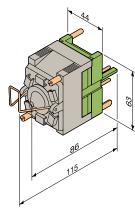
Essailec®

Outer dimensions

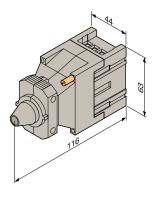
Plugs







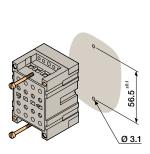
Plug 2x4 poles short cover



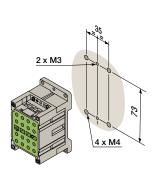
Reverse mounting

Outer dimensions, mounting instructions

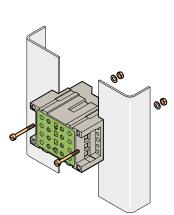
Sockets



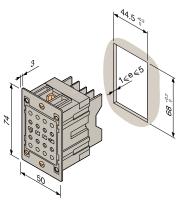
Rack mounting 0.5 Nm < Tightening torque < 0.8 Nm.



Base mounting

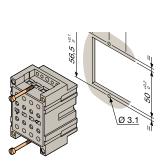


Rack mounting

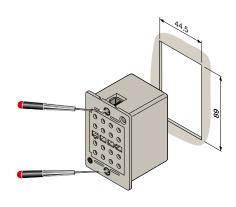


Base mounting
The flush mounting kit must be mounted on the socket prior to the installation on the panel.

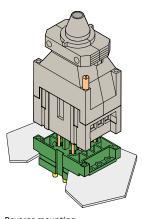
Tightening torque = 0.5 Nm maxi.



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

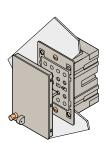


RJ45

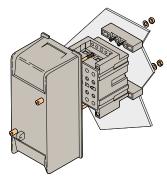


Reverse mounting

Lids and covers



Flush mounting

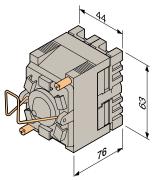


Base mounting

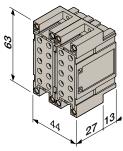
Essailec® multicircuits

Outer dimensions, mounting instructions

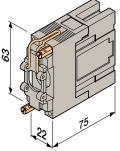
Outer dimensions Sockets



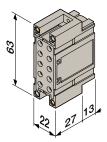
M20-I-C5A 20 points multicircuits half-base reverse mounting socket



M20-C5A 20 points multicircuits half-base mounting socket

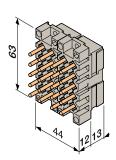


M10-I-C5A-1 10 points multicicuits half-base reverse mounting socket

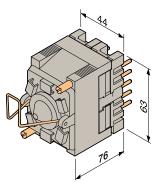


M10-D-C5A 10 points multicircuits half-base mounting socket

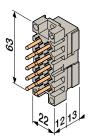
Plugs



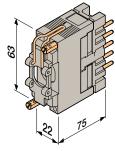
FIM20-I 20 points multicircuits half-base reverse mounting plug



FIM20 20 points multicircuits half-base mounting plug

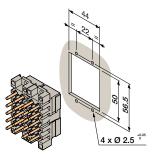


FIM10-I-1 10 points multicicuits half-base reverse mounting plug

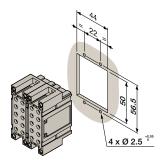


FIM10-1 10 points multicircuits half-base mounting plug

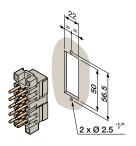
Mounting instructions



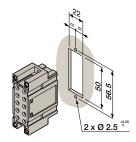
20 points multicircuits half-base reverse mounting plug



20 points multicircuits half-base mounting socket



10 points multicicuits half-base reverse mounting plug



10 points multicircuits half-base mounting socket

Index

Order code classification

Order code	Туре	Page
1SNA164921R1700	BRE-T-1	54
1SNA164922R1000	BRE-T-1.5	54
1SNA164923R1100	BRE-T-2.5	54
1SNA166503R2700	TF-DS-VL	46
1SNA166506R2200	PF-DS-VL	46
1SNA166513R1000	M10-D-C5A	56
1SNA166516R1300	FIM10-1	56
1SNA166523R1200	CC-R-VA	22
1SNA166525R1400	FIC-2/4-1	26
1SNA166529R2000	FIC-2/4-R	26
1SNA166546R2100	FIT-1/4-D	53
1SNA166547R2200	FIT-1/4-G	52
1SNA166550R0100	FIT-2/4-1	52
1SNA166555R2200	FIP-1/4-D	53
1SNA166556R2300	FIP-1/4-G	52
1SNA166559R0600	FIP-2/4-1	52
1SNA166566R2500	M10-R-C5A	56
1SNA166573R2400	FIM10-R	56
1SNA166574R2500	FIM10-I-1	56
1SNA166576R2700	FIM20-I	56
1SNA166577R2000	CPT-2	55
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
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
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
1SNA166743R0600	TO-E-VA	40
1SNA166744R0700	TO-D-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
1SNA166758R1500	PC-DS-VL	34

Order code	Туре	Page
1SNA166759R1600	PO-E-VA	40
1SNA166760R1300	PO-E-VA PO-D-VA	40
1SNA166761R0000	PF-E-VA	46
1SNA166762R0100	PF-D-VA	46
1SNA166763R0200	PC-E-VA	34
1SNA166764R0300	PC-D-VA	34
1SNA166772R0300	M10-P-C5A	56
1SNA166774R0500	M10-I-C5A-1	56
1SNA166777R0000	M20-I-C5A	56
1SNA166778R1100	COR-C-R2-6.6	24
1SNA166819R2300	FIC-2/1-1	26
1SNA166821R1500	FIT-2/1-1	51
1SNA166874R2200	DEO-D-VA	40
1SNA166876R2400	CPDE-1	55
1SNA166877R2500	FIDE-2/4	52
1SNA166878R0600	DEO-E-VA	40
1SNA166896R1100	DEF-D-VA	46
1SNA166897R1200	FIDE-1/4-D	53
1SNA166898R2300	FIDE-1/4-G	52
1SNA166925R1500	TO-E-VA-12.12	40
1SNA166926R1600	CPDE-2	55
1SNA166928R2000	KEM-1	23
1SNA166930R2600	CPT-5	55
1SNA166936R1000	FIC-2/4-2	26
1SNA166937R1100	FIT-2/4-2	51
1SNA166939R2300	FIP-2/4-2	51
1SNA166941R2500	CC-I-VA-2	22
1SNA166943R2700	FIDE-2/4-2	51
1SNA166945R2100	TO-I-VA-2	40
1SNA166948R0400	TC-S-INF-VL-2.2	34
1SNA166962R0000	KEM-3	23
1SNA166963R0000	CC-TH35-VL-6.6	22
1SNA166964R0000	TC-TH35-VL	34
1SNA166972R0000	TT4-S-VL-INF	48
1SNA166976R0000	CC-E-VA-R2-6.6	22
1SNA166977R0000	TC-E-VA-R2-2.2	34
1SNA166978R0000	COR-P-R1-8.8	50
1SNA166979R0000	COR-C-R3	24
1SNA166980R0000	BRE-T-4	54
1SNA167002R0000	CPT-RJ45	14
1SNA167008R0300	EXBR1	26
1SNA167260R1700	BRE-C-2.5	26
1SNA167264R0700	BRE-C-1	26
1SNA167265R0000	BRE-C-1.5	26
1SNA167378R1100	COP-FI-1	58
1SNA167379R1200	COP-E-1	58
1SNA167496R1100	PCVA	23
1SNA167622R2600	IR1	26
1SNA167623R2700	IR2	26
1SNA167624R2000	IR3	26

Order code	Туре	Page
1SNA167680R0500	BJ-VL	23
1SNA167681R2200	PCVL	23
1SNA167682R2300	FX	23
1SNA167690R0700	FCB-1	26
1SNA167692R2500	FCB-2	26
1SNA167697R2200	CA	26
1SNA167779R1300	BRE-T-0.75	54
1SNA167927R1000	FC4-1	26
1SNA167931R1400	FC4-5	26
1SNA167932R1500	COR-C-R4-6.6	24
1SNA167933R1600	COR-T-R5-2.2	50
1SNA167934R1700	COR-C-R5-6.6	24
1SNA167935R1000	COR-T-4-4	50
1SNA167936R1100	FI-2/4-DIA4	49
1SNA167937R0000	FIC-2/4-DIA4	25
1SNA167971R2400	DLVR	26
1SNA167981R1700	DI	26
1SNA168146R0200	BRE-C-6	26
1SNA168147R0300	BRE-T-6	54
1SNA168160R1400	BRE-T-0.34	54
1SNA173181R1300	PSC	26
1SNA183436R0500	CVABM	23
1SNA205876R0400	BRE-C-4	26
1SNA566000R0000	TC-E-RJ45-INF	14
1SNA566001R0000	FI-RJ45-DIA4	14

Index

Type classification

Туре	Order code F	age
BJ-VL	1SNA167680R0500	23
BRE-C-1	1SNA167264R0700	26
BRE-C-1.5	1SNA167265R0000	26
BRE-C-2.5	1SNA167260R1700	26
BRE-C-4	1SNA205876R0400	26
BRE-C-6	1SNA168146R0200	26
BRE-T-0.34	1SNA168160R1400	54
BRE-T-0.75	1SNA167779R1300	54
BRE-T-1	1SNA164921R1700	54
BRE-T-1.5	1SNA164922R1000	54
BRE-T-2.5	1SNA164923R1100	54
BRE-T-4	1SNA166980R0000	54
BRE-T-6	1SNA168147R0300	54
CA	1SNA167697R2200	26
CC-D-VA	1SNA166738R0100	22
CC-E-VA	1SNA166737R2000	22
CC-E-VA-6.6	1SNA166625R2000	
CC-E-VA-R2-6.6	1SNA166976R0000	
CC-I-VA-2	1SNA166941R2500	
CC-R-VA	1SNA166523R1200	22
CC-S-INF-VL-6.6	1SNA166722R2100	22
CC-TH35-VL-6.6	1SNA166963R0000	
COP-E-1	1SNA167379R1200	
COP-FI-1	1SNA167378R1100	58
COR-C-3	1SNA166643R0200	
COR-C-R1-6.6	1SNA166638R0500	
COR-C-R2-6.6	1SNA166778R1100	
COR-C-R3	1SNA166979R0000	
COR-C-R4-6.6	1SNA167932R1500	24
COR-C-R5-6.6	1SNA167934R1700	24
COR-P-R1-8.8	1SNA166978R0000	
COR-T-4-4	1SNA167935R1000	50
COR-T-R5-2.2	1SNA167933R1600	50
CPC-1	1SNA166578R0100	55
CPC-7	1SNA166734R2500	
CPDE-1	1SNA166876R2400	
CPDE-2	1SNA166926R1600	
CPP-1	1SNA166647R0600	
CPP-2	1SNA166645R0400	
CPT-1	1SNA166646R0500	
CPT-2	1SNA166577R2000	
CPT-4	1SNA166733R2400	
CPT-5	1SNA166930R2600	
CPT-RJ45	1SNA167002R0000	
CVABM	1SNA183436R0500	
DEF-D-VA	1SNA166896R1100	
DEO-D-VA	1SNA166874R2200	
DEO-E-VA	1SNA166878R0600	
DI	1SNA167981R1700	26
DLVR	1SNA167981R1700	26
DLVK	13NA101311K2400	20

Туре	Order code P	age
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FC4-1	1SNA167927R1000	26
FC4-5	1SNA167931R1400	26
FCB-1	1SNA167690R0700	26
FCB-2	1SNA167692R2500	26
FI-2/4-DIA4	1SNA167936R1100	49
FIC-2/1-1	1SNA166819R2300	26
FIC-2/4-1	1SNA166525R1400	26
FIC-2/4-2	1SNA166936R1000	26
FIC-2/4-DIA4	1SNA167937R0000	25
FIC-2/4-I	1SNA166589R2500	26
FIC-2/4-R	1SNA166529R2000	26
FIDE-1/4-D	1SNA166897R1200	53
FIDE-1/4-G	1SNA166898R2300	52
FIDE-2/4	1SNA166877R2500	52
FIDE-2/4-2	1SNA166943R2700	51
FIM10-1	1SNA166516R1300	56
FIM10-I-1	1SNA166574R2500	56
FIM10-R	1SNA166573R2400	56
FIM20-I	1SNA166576R2700	56
FIP-1/4-D	1SNA166555R2200	53
FIP-1/4-G	1SNA166556R2300	52
FIP-2/4-1	1SNA166559R0600	52
FIP-2/4-2	1SNA166939R2300	51
FI-RJ45-DIA4	1SNA566001R0000	14
FIT-1/4-D	1SNA166546R2100	53
FIT-1/4-G	1SNA166547R2200	52
FIT-2/1-1	1SNA166821R1500	51
FIT-2/1-2	1SNA166644R0300	51
FIT-2/4-1	1SNA166550R0100	52
FIT-2/4-2	1SNA166937R1100	51
FIT-2/4-I	1SNA166672R0700	52
FX	1SNA167682R2300	23
IR1	1SNA167622R2600	26
IR2	1SNA167623R2700	26
IR3	1SNA167624R2000	26
KEM-1	1SNA166928R2000	23
KEM-3	1SNA166962R0000	23
M10-D-C5A	1SNA166513R1000	56
M10-I-C5A-1	1SNA166774R0500	56
M10-P-C5A	1SNA166772R0300	56
M10-R-C5A	1SNA166566R2500	56
M20-I-C5A	1SNA166777R0000	56
PC-DS-VL	1SNA166758R1500	34
PC-D-VA	1SNA166764R0300	34
PC-E-VA	1SNA166763R0200	34
PC-E-VA-8.8	1SNA166630R0100	34
PCVA	1SNA167496R1100	23
PCVL	1SNA167681R2200	23
PF-DS-VL	1SNA166506R2200	46

Туре	Order code	Page
PF-D-VA	1SNA166762R010	0 46
PF-E-VA	1SNA166761R000	0 46
PO-DS-VL	1SNA166757R040	0 40
PO-D-VA	1SNA166760R130	0 40
PO-E-VA	1SNA166759R160	0 40
PSC	1SNA173181R130	0 26
TC-DS-VL	1SNA166742R050	0 34
TC-D-VA	1SNA166748R130	0 34
TC-E-C5A-2.2	1SNA166628R030	0 34
TC-E-RJ45-INF	1SNA566000R000	00 14
TC-E-VA	1SNA166747R020	0 34
TC-E-VA-2-2	1SNA166627R220	0 34
TC-E-VA-R2-2.2	1SNA166977R000	0 34
TC-S-INF-VL-2.2	1SNA166948R040	00 34
TC-TH35-VL	1SNA166964R000	00 34
TF-DS-VL	1SNA166503R270	0 46
TF-D-VA	1SNA166746R010	0 46
TF-E-VA	1SNA166745R000	0 46
TO-DS-VL	1SNA166741R040	0 40
TO-D-VA	1SNA166744R070	0 40
TO-E-VA	1SNA166743R060	0 40
TO-E-VA-12.12	1SNA166925R150	0 40
TO-I-VA-2	1SNA166945R210	0 40
TO-S-INF-VL-12.12	1SNA166723R220	0 40
TT4-S-VL-INF	1SNA166972R000	0 48



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