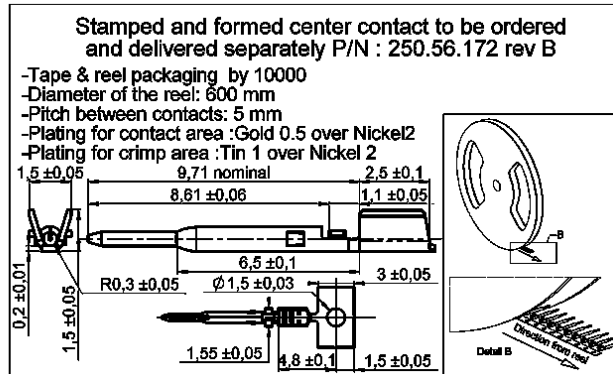
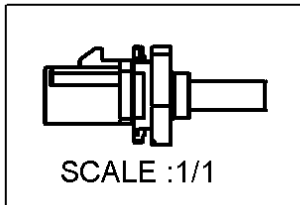
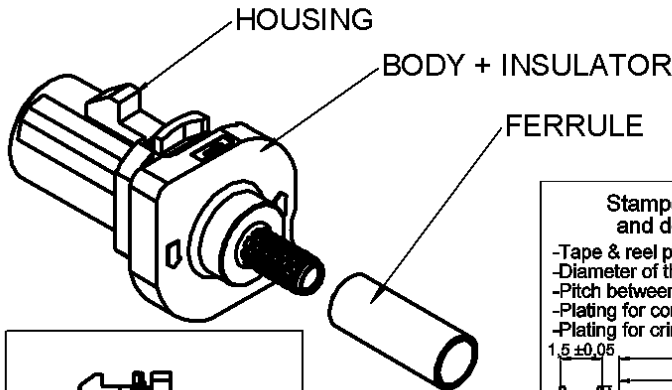
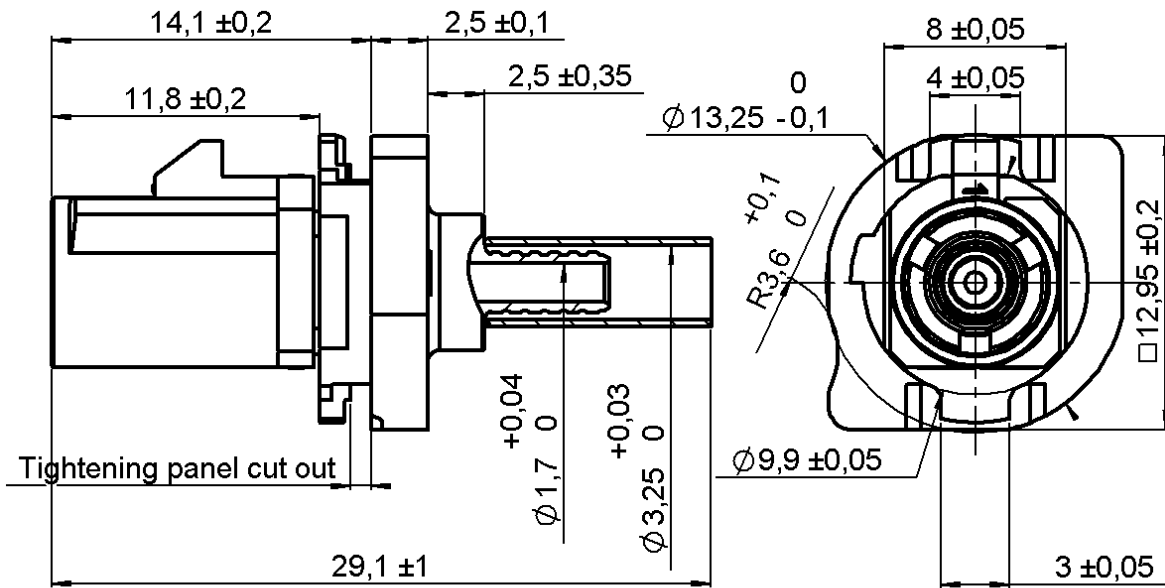


TWIST AND LOCK CONNECTOR
ONLY FOR 1 MM PANEL CUT OUT

R197.134.E30

Series : SMB CARLOCK



All dimensions are in mm.

COMPONENTS	MATERIALS	PLATING (µm)	
BODY	DIE CASTED	NICKEL 2 OVER COPPER 8	
CENTER CONTACT	BRONZE	SELECTIVE GOLD+ SELECTIVE TIN	
OUTER CONTACT	-	-	
INSULATOR	TPX	-	
GASKET	-	-	
OTHERS PARTS	BRASS	NICKEL 2	
-	-	-	
HOUSING	PA4.6 GF30 (POLYAMIDE)	UL CLASSIFICATION	COLOR
		UL 94 V-2	GREEN (RAL6002)

Remark : Connection interface according to FAKRA specifications.

Issue : 0648 B

In the effort to improve our products, we reserve the right to make changes judged to be necessary.



TWIST AND LOCK CONNECTOR
ONLY FOR 1 MM PANEL CUT OUT

R197.134.E30

Series : SMB CARLOCK

PACKAGING

Standard	Unit	Other
100	'W' option	Contact us

SPECIFICATION

QS9000

ELECTRICAL CHARACTERISTICS

Impedance	50	Ω
Frequency	0-4	GHz
VSWR	1.27 + 0,0000	x F(GHz) Maxi
Insertion loss	0.5	\sqrt{F} (GHz) dB Maxi
RF leakage	NA	- F(GHz) dB Maxi
Voltage rating	335	Veff Maxi
Dielectric withstanding voltage	1000	Veff mini
Insulation resistance	1000	M Ω mini

ENVIRONMENTAL

Operating temperature	-40/+110	$^{\circ}$ C
Hermetic seal	NA	Atm.cm3/s
Panel leakage	NA	

OTHER CHARACTERISTICS

Assembly instruction **Pages 3 to 8.**

Others :

MECHANICAL CHARACTERISTICS

Center contact retention	
Axial force – Mating end	20 N mini
Axial force – Opposite end	10 N mini
Torque	NA N.cm mini

Assembling Torque : max. 0.90 Nm
 Dissassembling Torque : > 0.3 Nm
 Push/Pull force into the panel : mini 150 Nm
 Engagement force : 25 N max
 Disengagement force : 2 N min

Mating life	50 Cycles mini
Weight	4.75 g

After assembly on the radio the FAKRA connector

CABLE ASSEMBLY

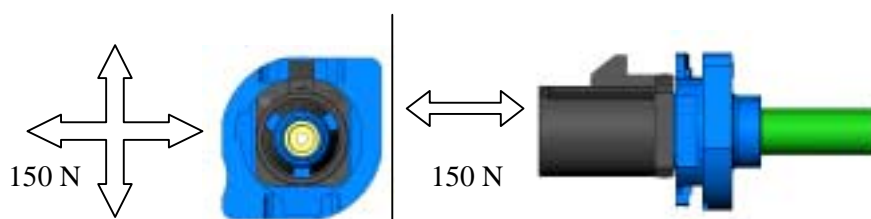
Stripping	a	b	c	d	e	f
mm	3.60	5.50	13.9	0.00	10.3	0.00

Cable retention

- pull off	RG174	60	N mini
	RG316	110	N mini
- torque		NA	N.cm

TOOLING

Part Number	Description	Hexagon
R282.235.915	CRIMPING DIES	3.25 (x2)
R282.293.000	CRIMPING TOOL	



Issue : 0648 B

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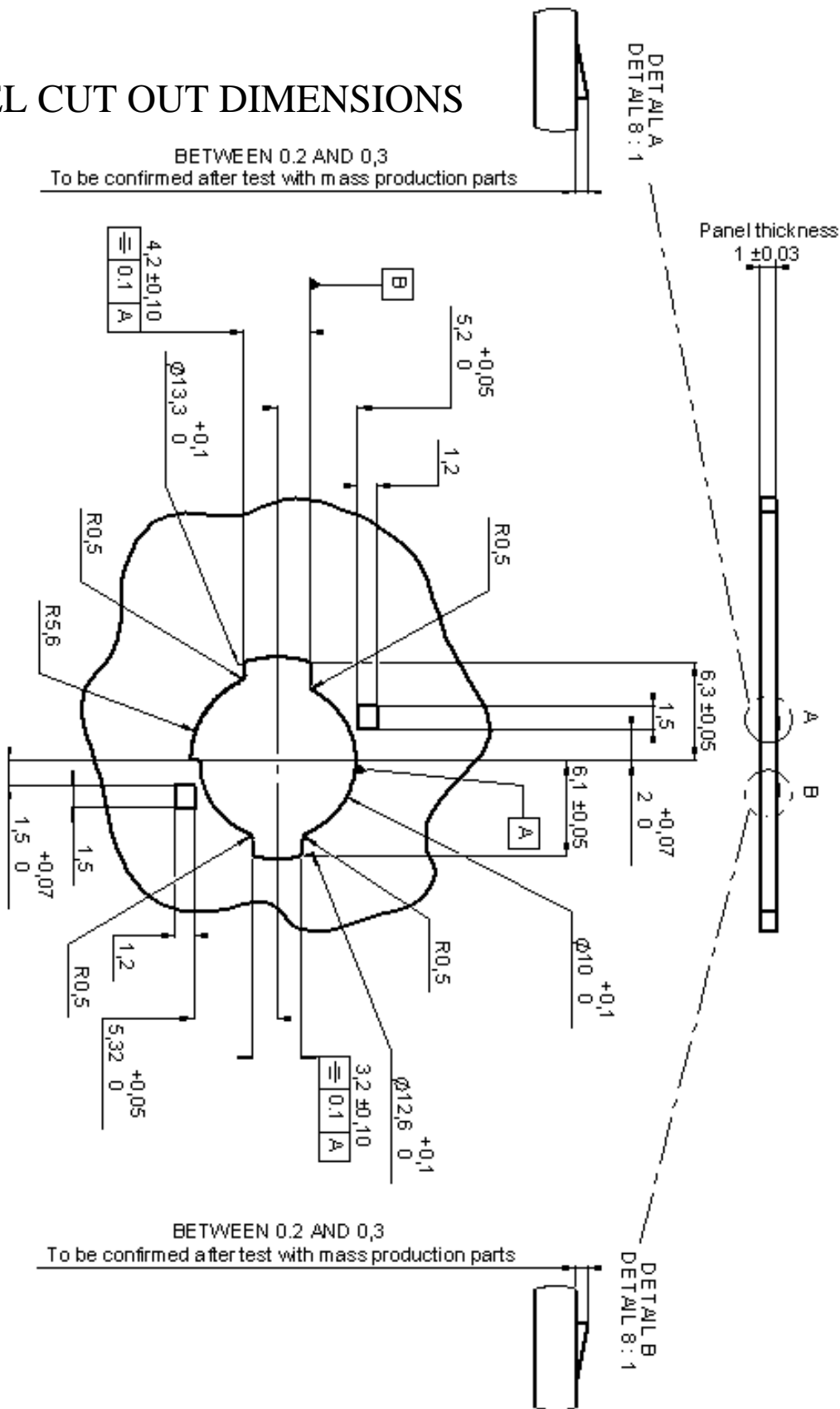


TWIST AND LOCK CONNECTOR
ONLY FOR 1 MM PANEL CUT OUT

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Series : SMB CARLOCK

PANEL CUT OUT DIMENSIONS



Issue : 0648 B

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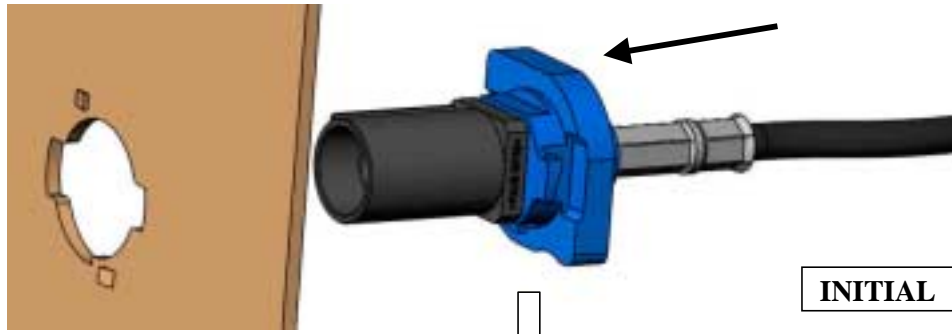


TWIST AND LOCK CONNECTOR
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R197.134.E30

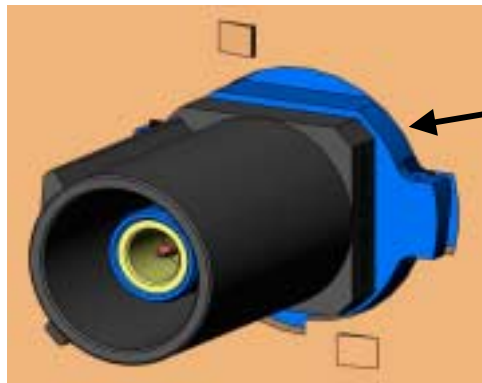
Series : SMB CARLOCK

**MOUNTING
 PROCEDURE**



INITIAL

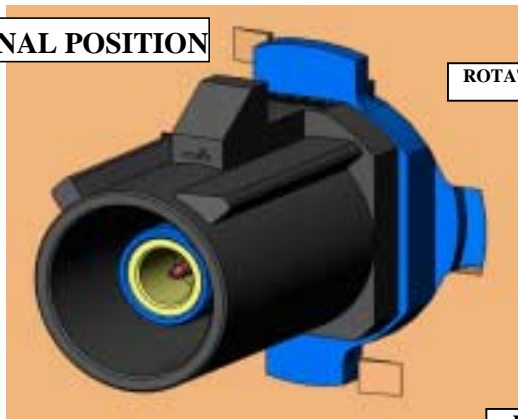
INSERTION



ROTATION

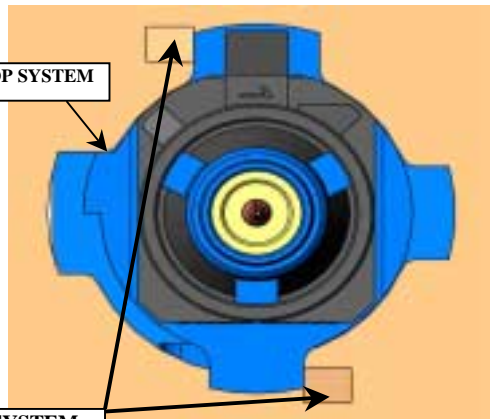


LOCKING-FINAL POSITION



ROTATIONAL STOP SYSTEM

LOCKING SYSTEM



Issue : 0648 B

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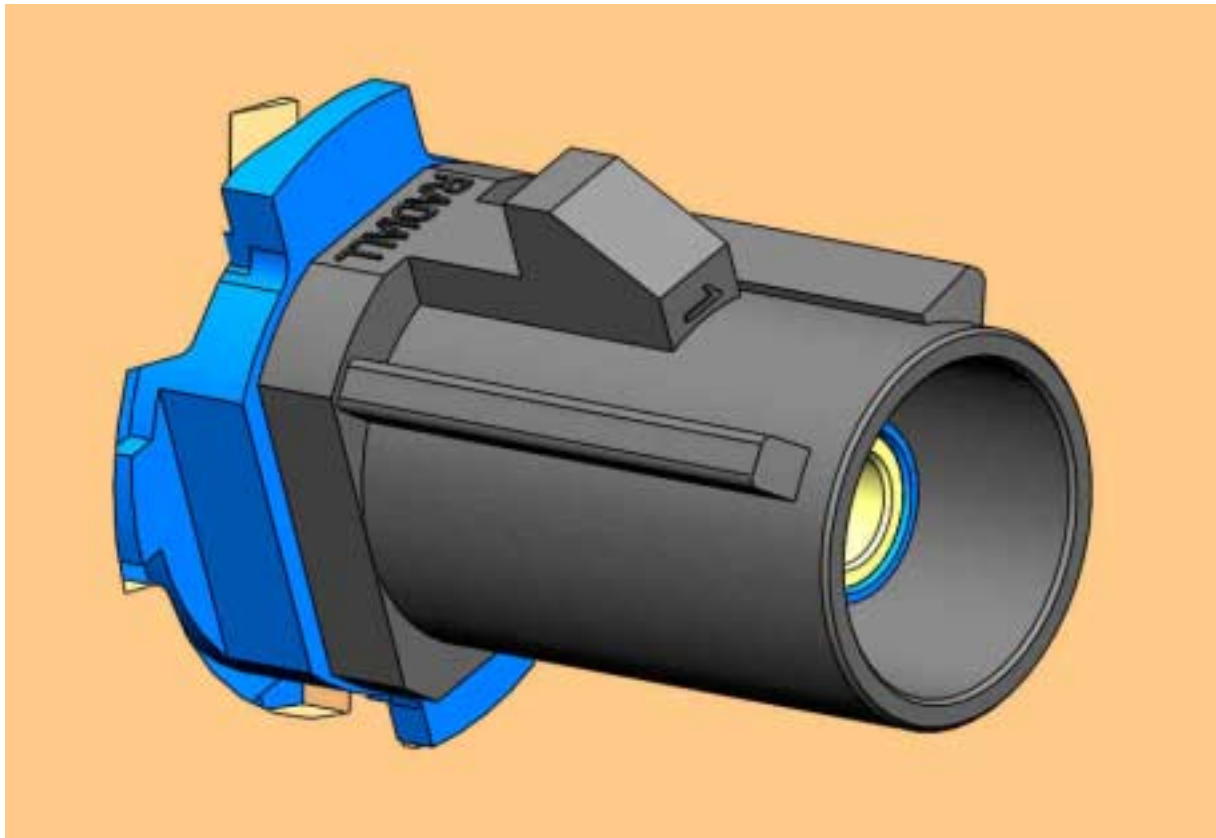


TWIST AND LOCK CONNECTOR
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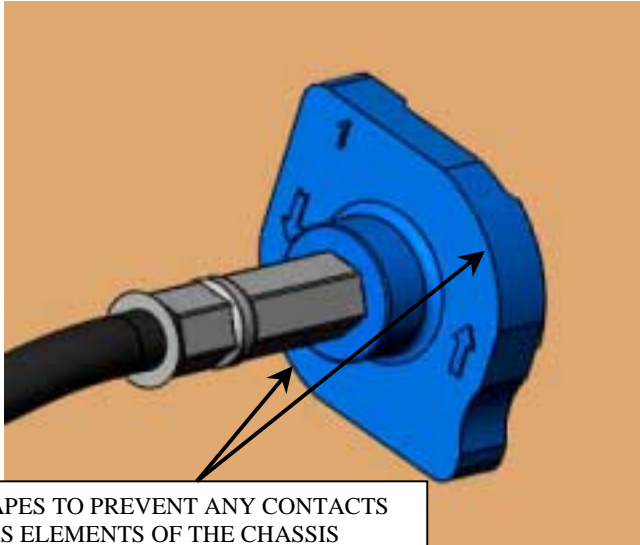
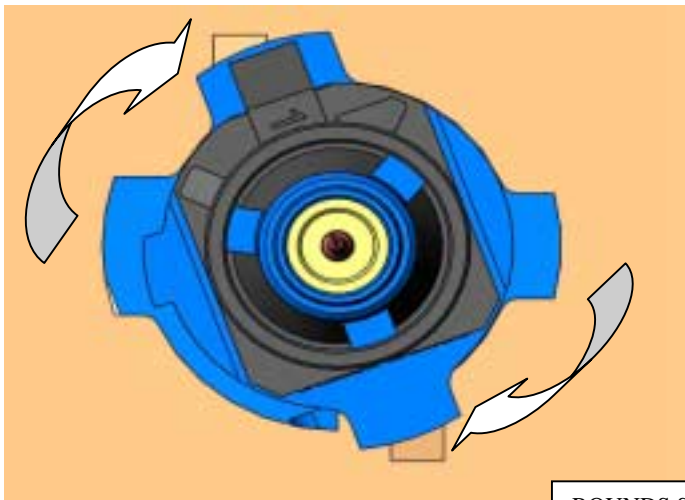
Series : SMB CARLOCK

DETAILS VIEW DURING THE ROTATION



FRONT VIEW

BACK VIEW



ROUNDS SHAPES TO PREVENT ANY CONTACTS WITH OTHERS ELEMENTS OF THE CHASSIS DURING THE ROTATION OF THE CONNECTOR

Issue : 0648 B

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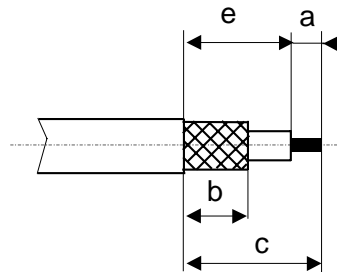
TWIST AND LOCK CONNECTOR
ONLY FOR 1 MM PANEL CUT OUT

R197.134.E30

Series : SMB CARLOCK

RECOMMENDED MOUNTING PROCEDURE

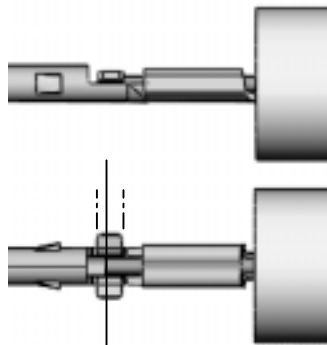
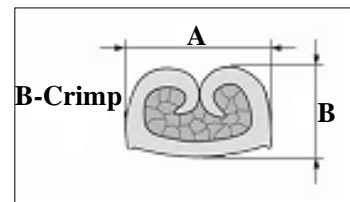
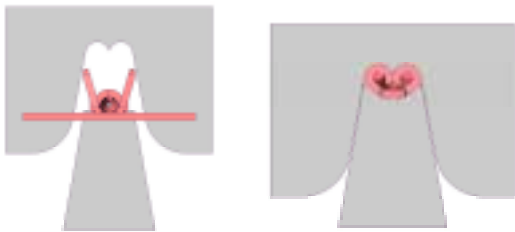
1



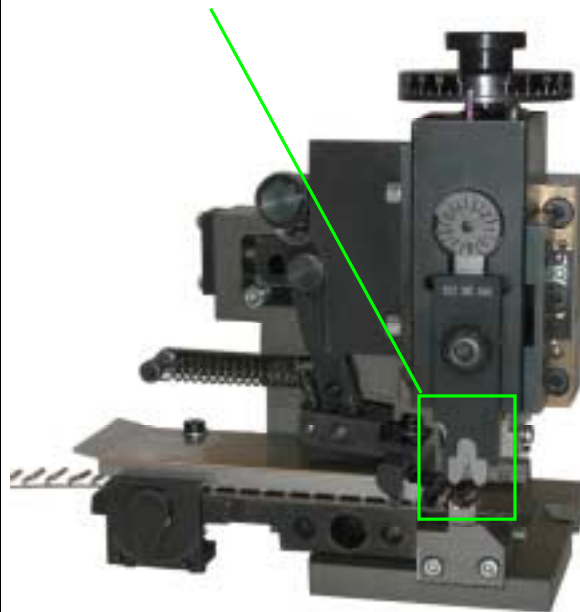
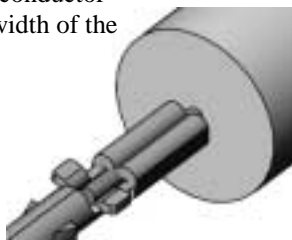
• Strip the cable

2

- Crimp the centre contact with crimping dies as described ,using standard mini applicator.
- check the crimping height $B=0.8 \pm 0.03$ and the crimping width $A=1 \pm 0.05$ of the center contact.



Visual checking
 The tip of the cable conductor must be within the width of the positive stop tap.



Mini applicator

Issue : 0648 B

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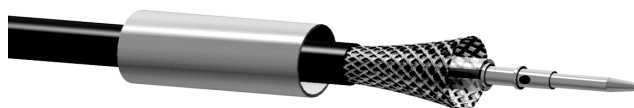
TWIST AND LOCK CONNECTOR
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R197.134.E30

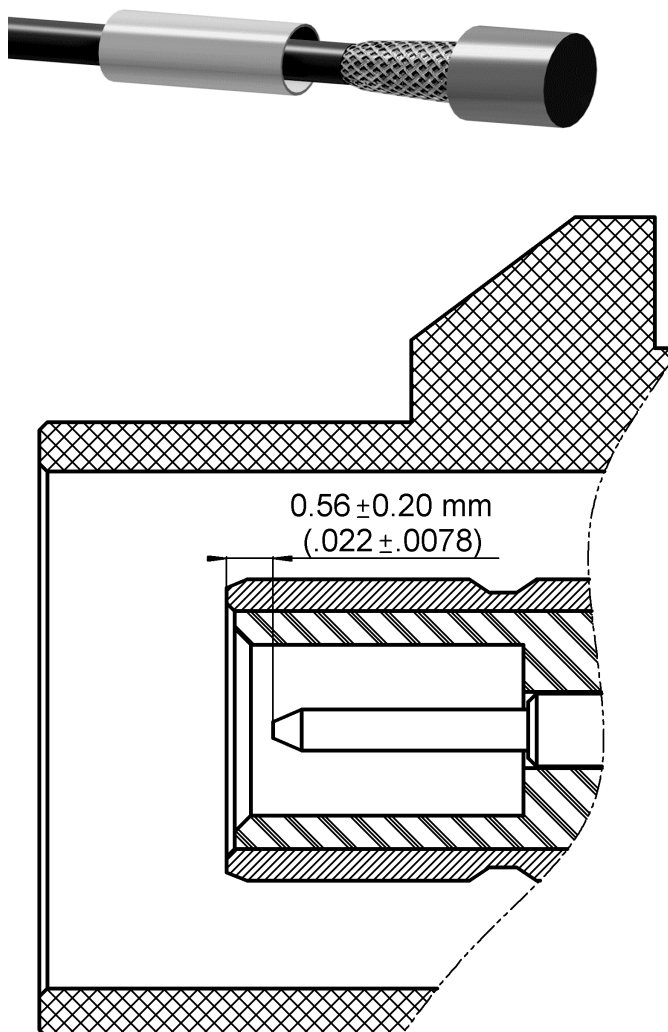
Series : SMB CARLOCK

RECOMMENDED MOUNTING PROCEDURE**3**

- Slide the ferrule
- Fan the braid

**4**

- Insert gently the center contact into the insulator ; Be cautious you must feel first a force detente corresponding to the center contact barb insertion, and a second force stage corresponding to the center contact reaching its final location. Do not apply an excessive force on the center contact in order to avoid bad interface. A correct insertion force must lead to the interface dimension compliance.
- Check the position of the center contact between the top of the insulator and the top of the center contact : 0.56 ± 0.2 .

**Issue : 0648 B**

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TWIST AND LOCK CONNECTOR
ONLY FOR 1 MM PANEL CUT OUT

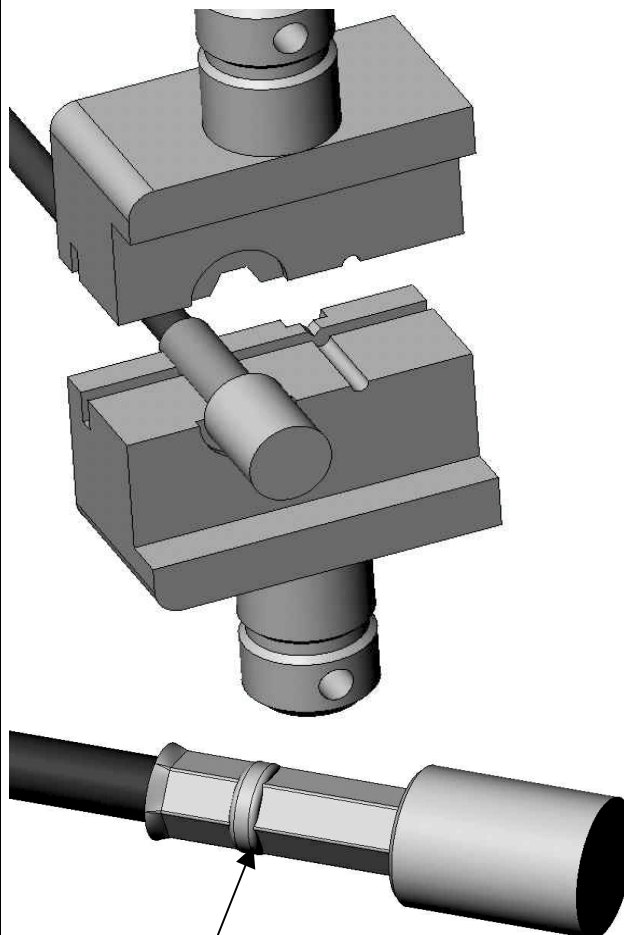
R197.134.E30

Series : SMB CARLOCK

RECOMMENDED MOUNTING PROCEDURE

5

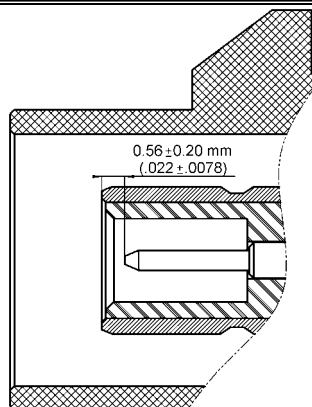
- Slide the ferrule over the braid
- Crimp the ferrule as shown on this picture with crimping tool
R282.293.000 (M22520/5-01) + dies
R282.235.915 (Double crimping Hex 3.25).



Right tool orientation : (OPTION)
after crimping the bump must be closer to the cable than to the body

6

- Check the position of the center contact between the top of the body and the top of the center contact : 0.56 ± 0.20 .



Issue : 0648 B

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