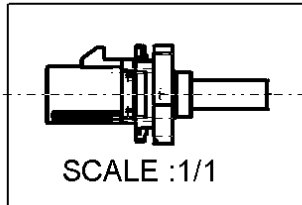
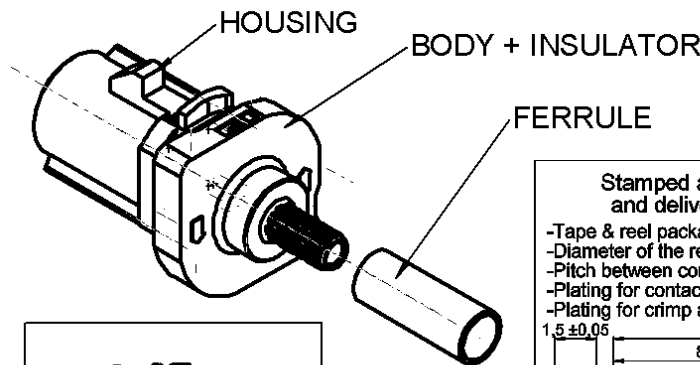
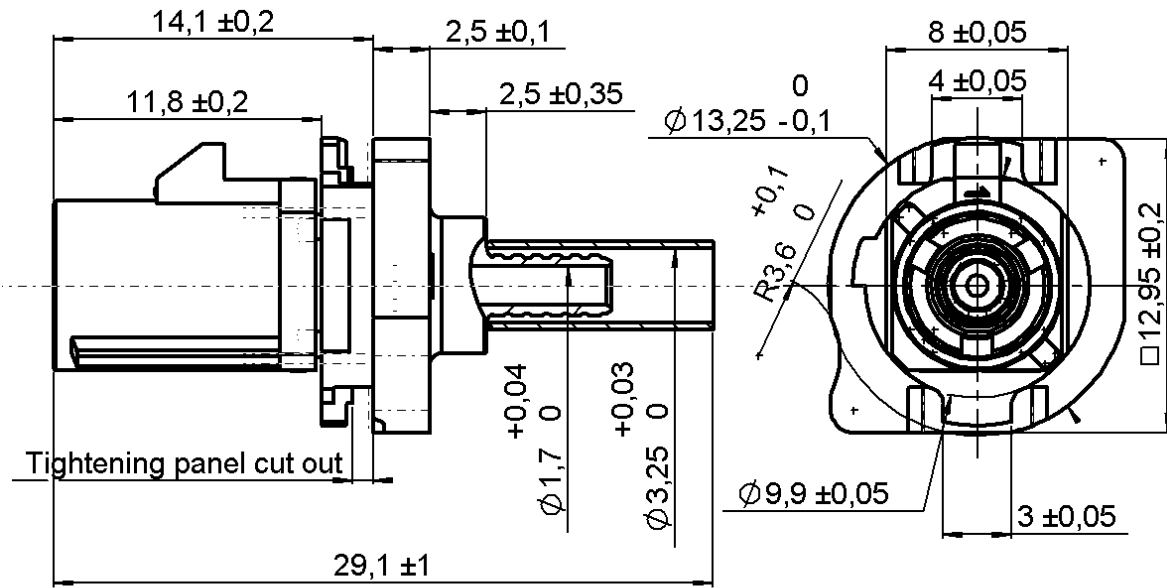


**TWIST AND LOCK CONNECTOR**  
**ONLY FOR 1 MM PANEL CUT OUT**

**R197.134.C30**

Series : **SMB**  
**CARLOCK**



SCALE :1/1

Stamped and formed center contact to be ordered and delivered separately P/N : 250.56.172 rev B

- Tape & reel packaging by 10000
- Diameter of the reel: 600 mm
- Pitch between contacts: 5 mm
- Plating for contact area :Gold 0.5 over Nickel2
- Plating for crimp area :Tin 1 over Nickel 2

Detailed drawing of the stamped and formed center contact with dimensions: 1,5 ±0,05, 9,71 nominal, 2,5 ±0,1, 8,61 ±0,06, 1,1 ±0,05, 6,5 ±0,1, 3 ±0,05, R0,3 ±0,05, 1,5 ±0,05, 1,55 ±0,05, 1,8 ±0,1, 1,5 ±0,05. Includes a detail B showing the crimp area with the note 'Direction: from reel'.

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	BLUE (RAL5005)

**Remark** : Connection interface according to FAKRA specifications.

Issue : 0648 B

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**TWIST AND LOCK CONNECTOR**  
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Series : **SMB**  
**CARLOCK**

**PACKAGING**

Standard	Unit	Other
<b>100</b>	<b>'W' option</b>	<b>Contact us</b>

**SPECIFICATION**

**QS9000**

**CABLE ASSEMBLY**

Stripping	a	b	c	d	e	f
mm	3,60	5,50	13,9	0,00	10,3	0,00

**ELECTRICAL CHARACTERISTICS**

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

Assembly instruction :

**Pages 3 to 8**

Recommended cable(s)  
**RG316 BLACK**

Characteristics indicated on this data sheet are those that can be achieved with the highest performance cable. Intrinsic limitations of the cable may diminish the performance of the assembly

Cable retention  
 Cable retention

- pull off	RG 174	<b>60</b>	N mini
	RG 316	<b>110</b>	N mini
- torque		<b>NA</b>	N cm

**MECHANICAL CHARACTERISTICS**

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

Recommended torque		
Mating		N.cm
Panel nut		N.cm
Clamp nut	<b>NA</b>	N.cm
A/F clamp nut	<b>0,0000</b>	mm

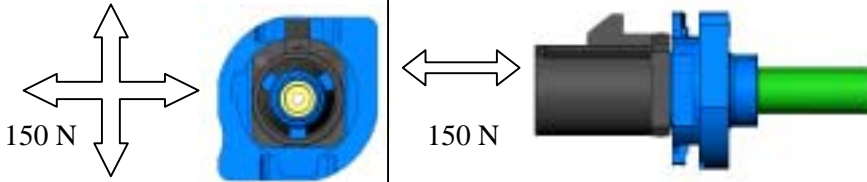
Mating life	<b>50</b>	Cycles mini
Weight	<b>5,0300</b>	g

Part Number	Description	Hexagon
.	.	.
R282.235.915	CRIMPING DIES	
R282.271.000	CRIMPING TOOL	
R282.293.000	CRIMPING TOOL M22520/5-01	

**OTHER CHARACTERISTICS**

**ENVIRONMENTAL**

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



Issue : **0648 B**

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

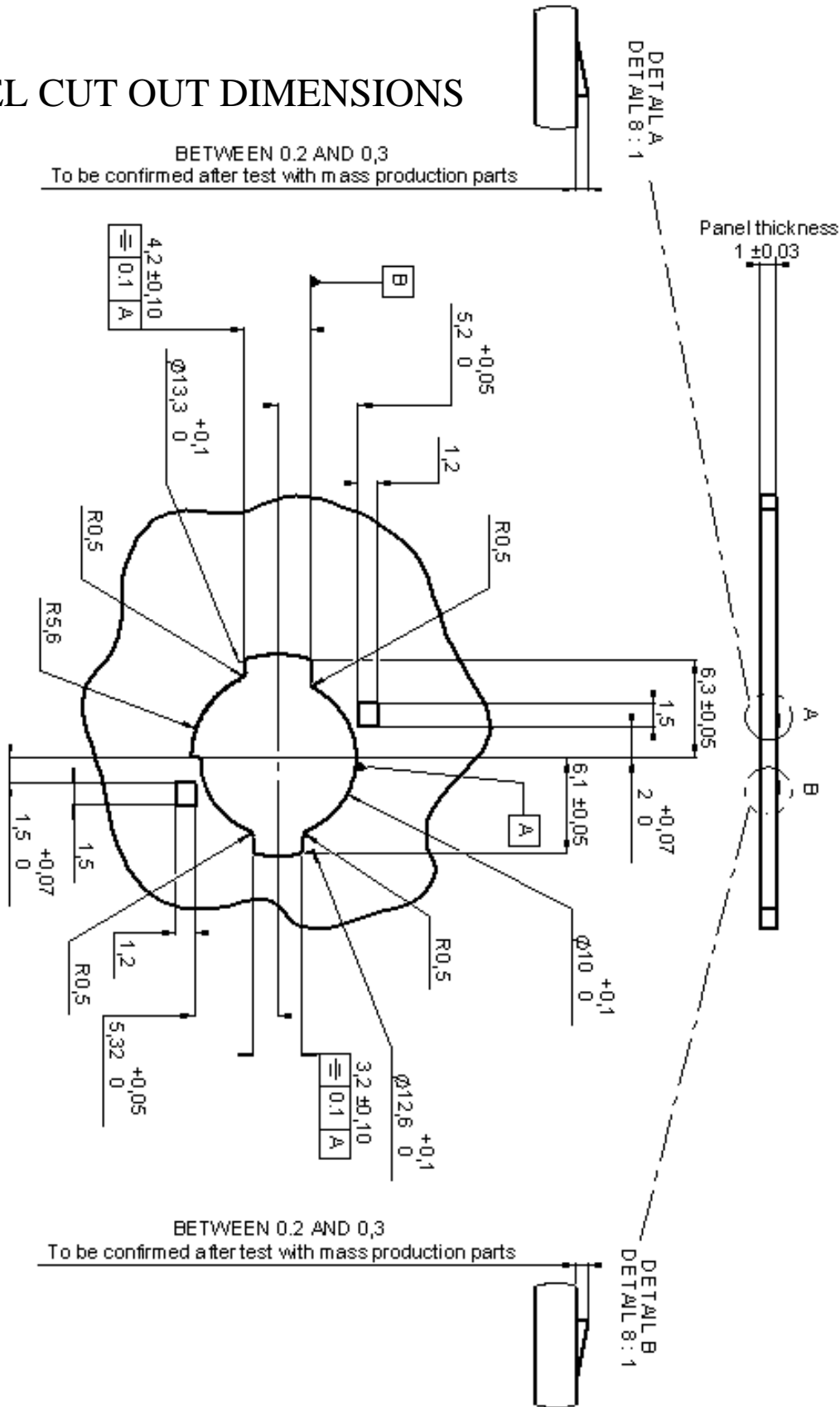


**TWIST AND LOCK CONNECTOR**  
**ONLY FOR 1 MM PANEL CUT OUT**

**R197.134.C30**

Series : **SMB**  
**CARLOCK**

**PANEL CUT OUT DIMENSIONS**



Issue : 0648 B

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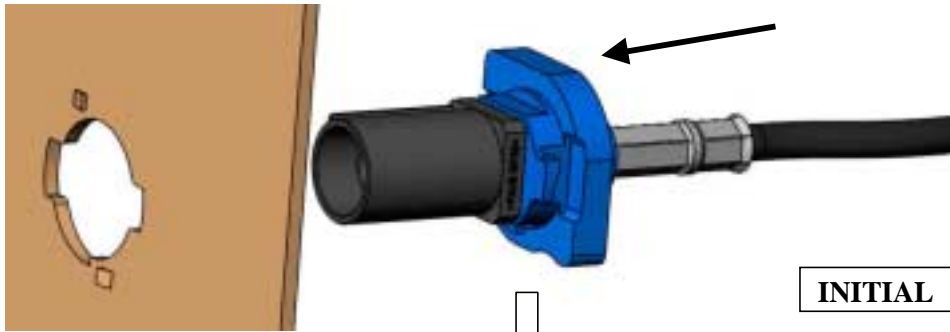


**TWIST AND LOCK CONNECTOR**  
**ONLY FOR 1 MM PANEL CUT OUT**

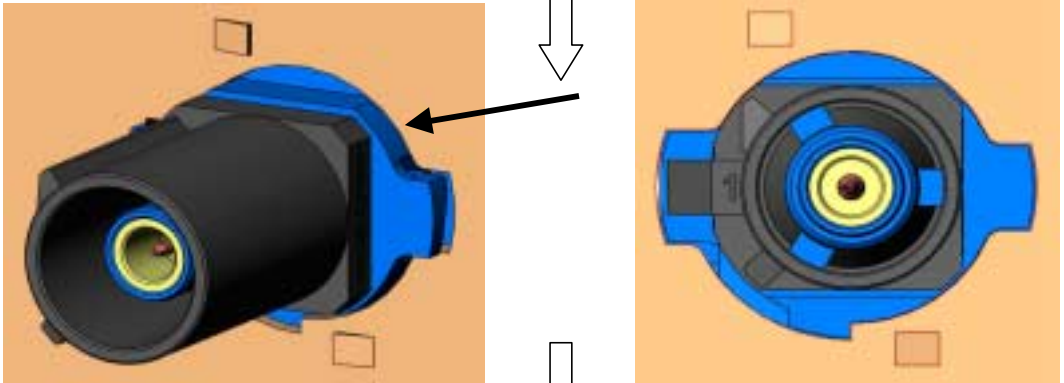
**R197.134.C30**

Series : SMB  
CARLOCK

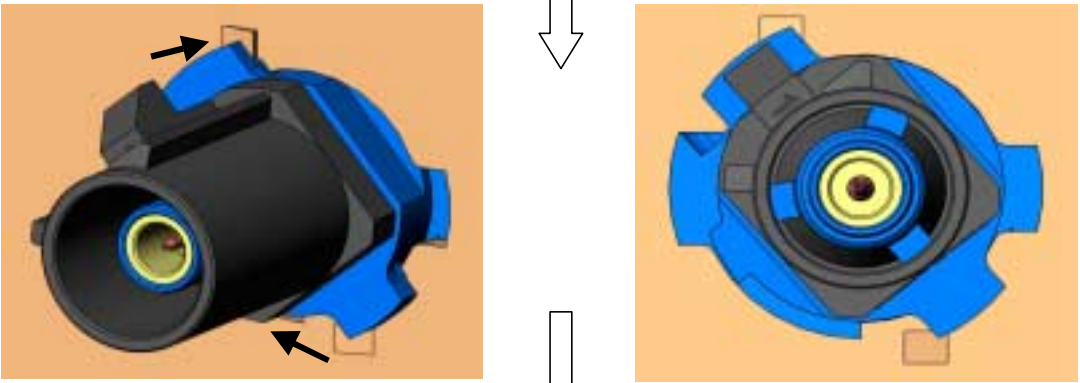
**MOUNTING  
PROCEDURE**



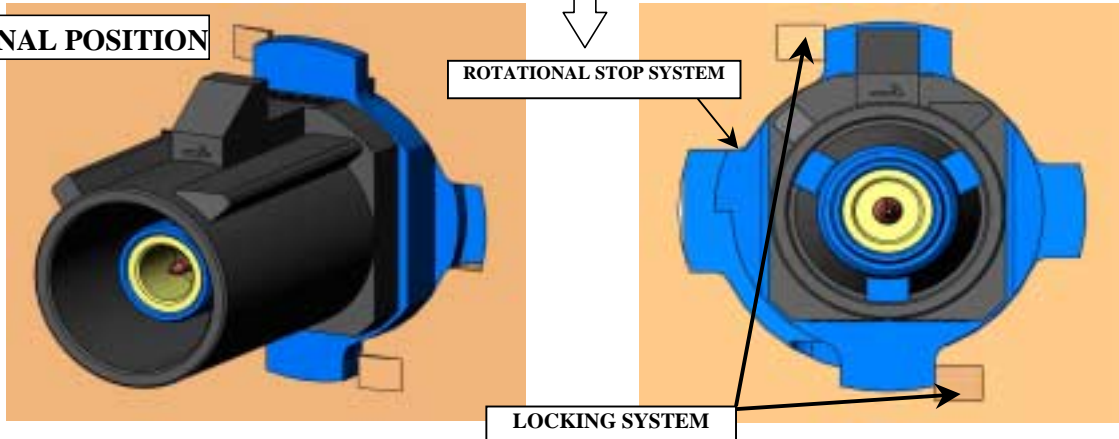
**INSERTION**



**ROTATION**



**LOCKING-FINAL POSITION**



**Issue : 0648 B**

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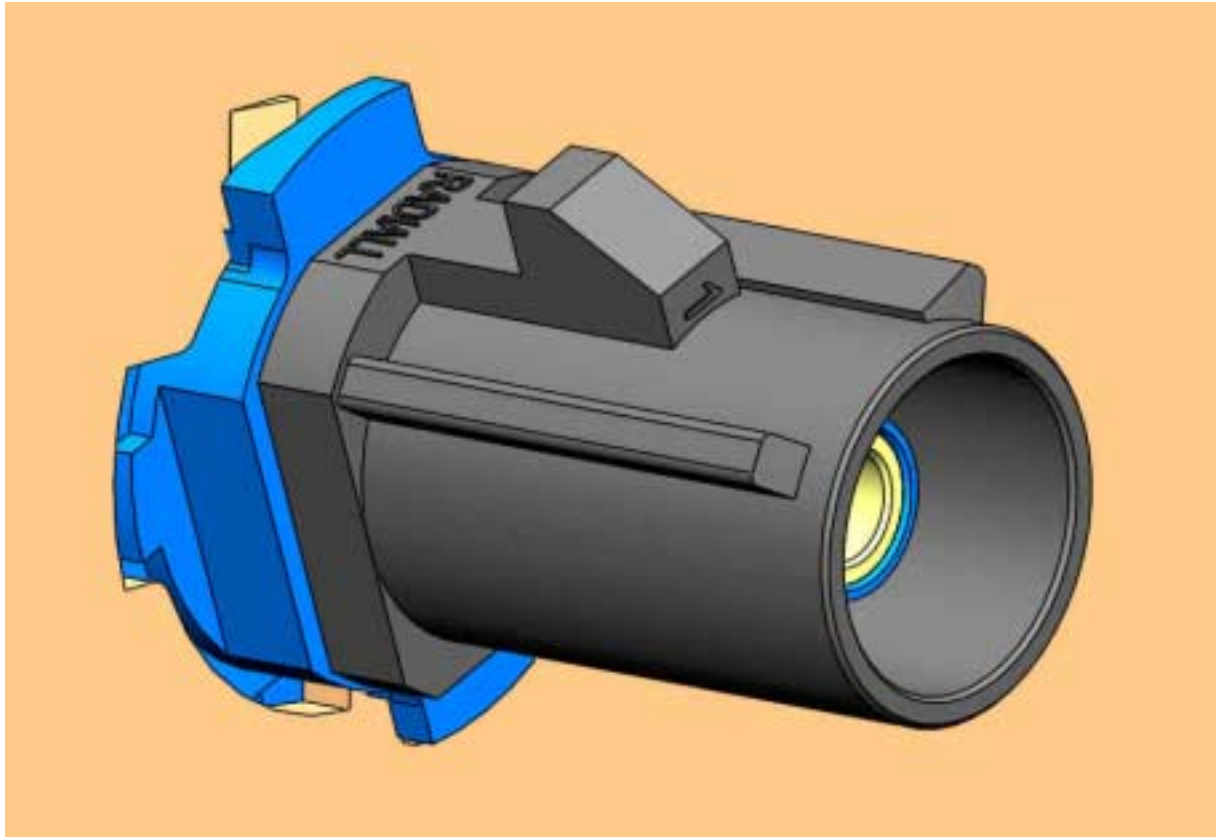


**TWIST AND LOCK CONNECTOR**  
**ONLY FOR 1 MM PANEL CUT OUT**

**R197.134.C30**

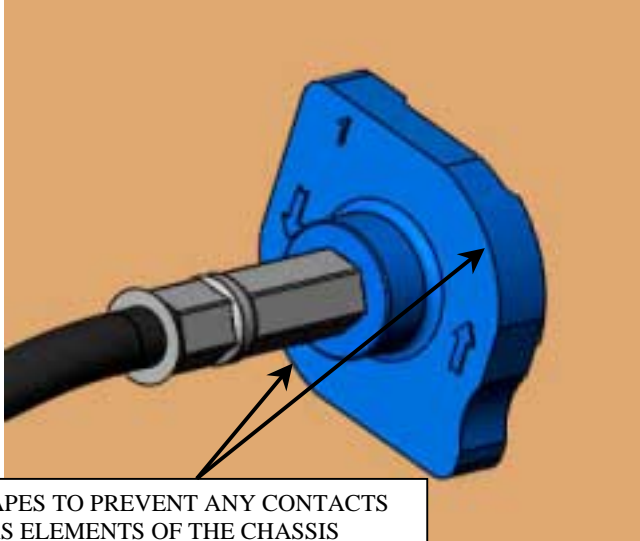
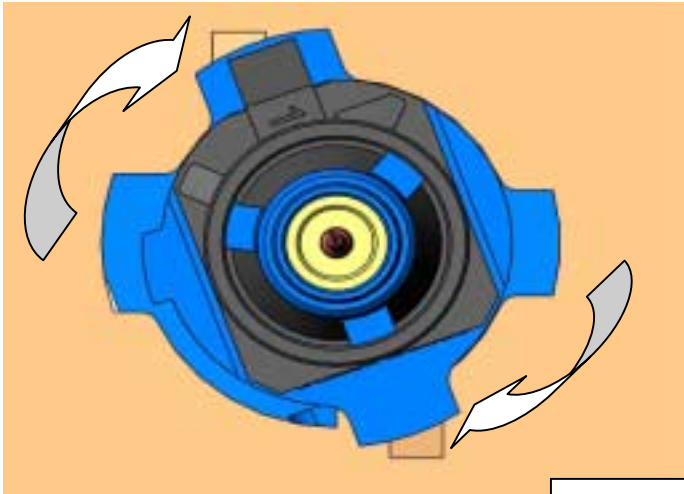
Series : SMB  
 CARLOCK

**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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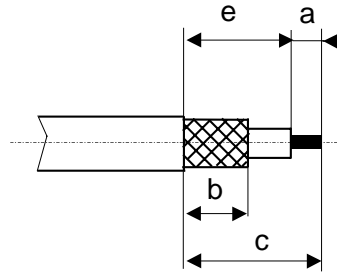
**TWIST AND LOCK CONNECTOR**  
**ONLY FOR 1 MM PANEL CUT OUT**

**R197.134.C30**

Series : SMB  
 CARLOCK

**RECOMMENDED MOUNTING PROCEDURE**

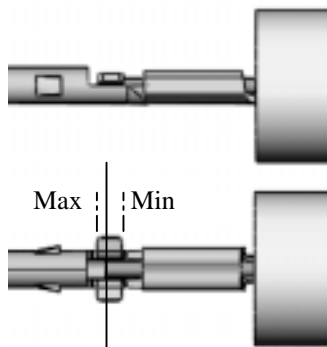
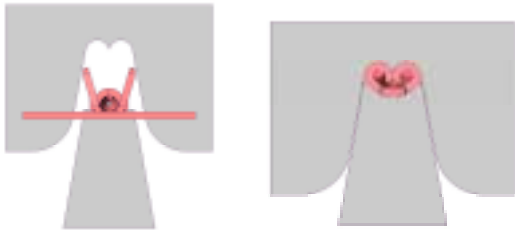
**1**



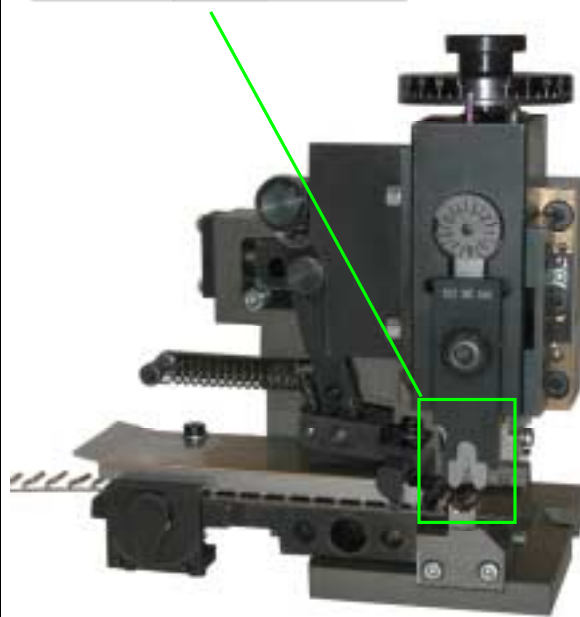
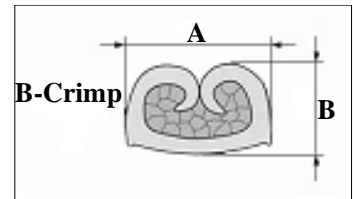
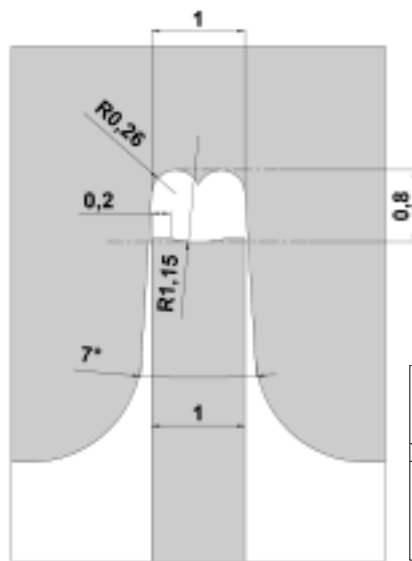
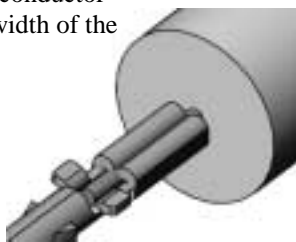
• Strip the cable

**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

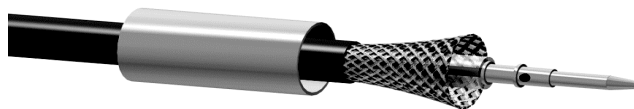
In the effort to improve our products, we reserve the right to make changes judged to be necessary.



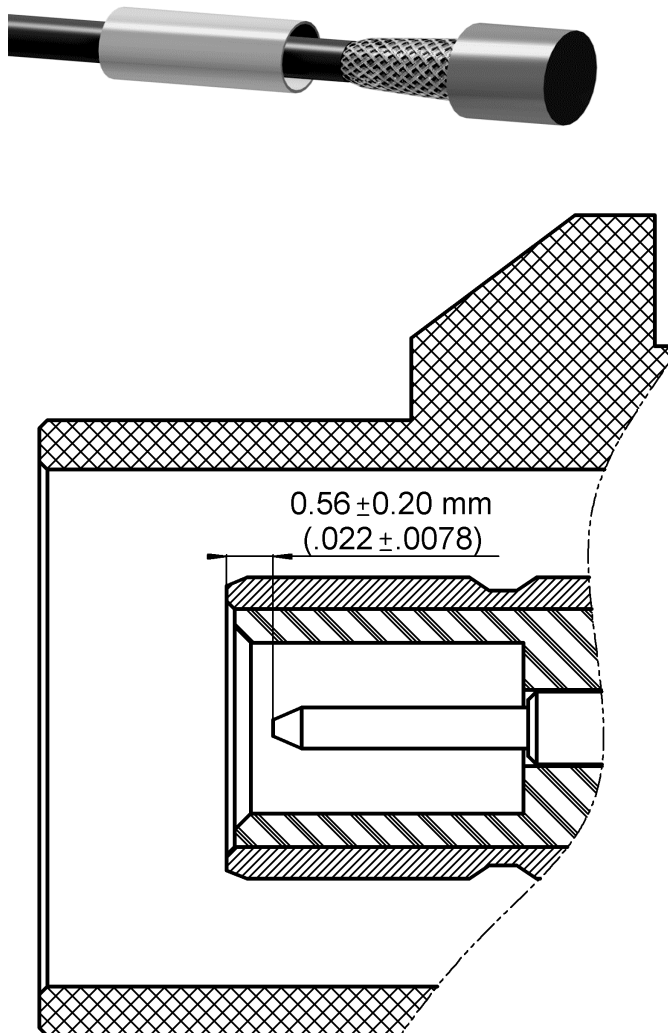
**TWIST AND LOCK CONNECTOR**  
**ONLY FOR 1 MM PANEL CUT OUT**

**R197.134.C30**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 :  $0.56 \pm 0.2$ .

**Issue : 0648 B**

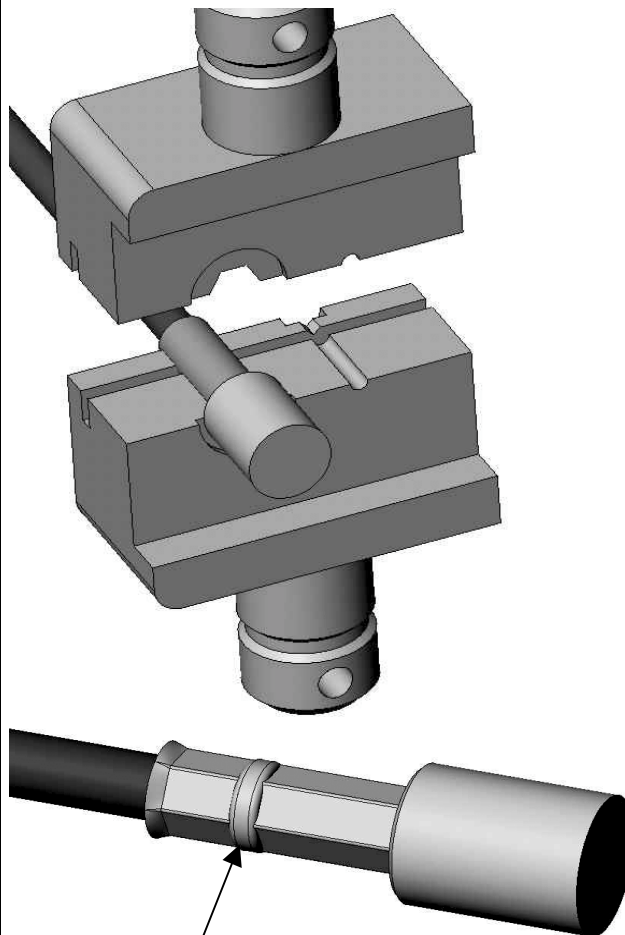
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**TWIST AND LOCK CONNECTOR**  
**ONLY FOR 1 MM PANEL CUT OUT**

**R197.134.C30**Series : SMB  
CARLOCK**RECOMMENDED MOUNTING PROCEDURE****5**

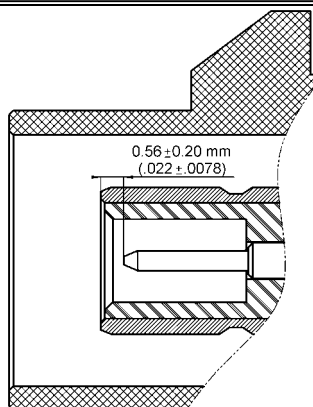
- Slide the ferrule over the braid
- Crimp the ferrule as shown on this picture with crimping tool  
R282.293.000 (M22520/5-01) + dies  
R282.235.915 (Double crimping Hex 3.25).



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 :  
 $0.56 \pm 0.20$ .

**Issue : 0648 B**

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