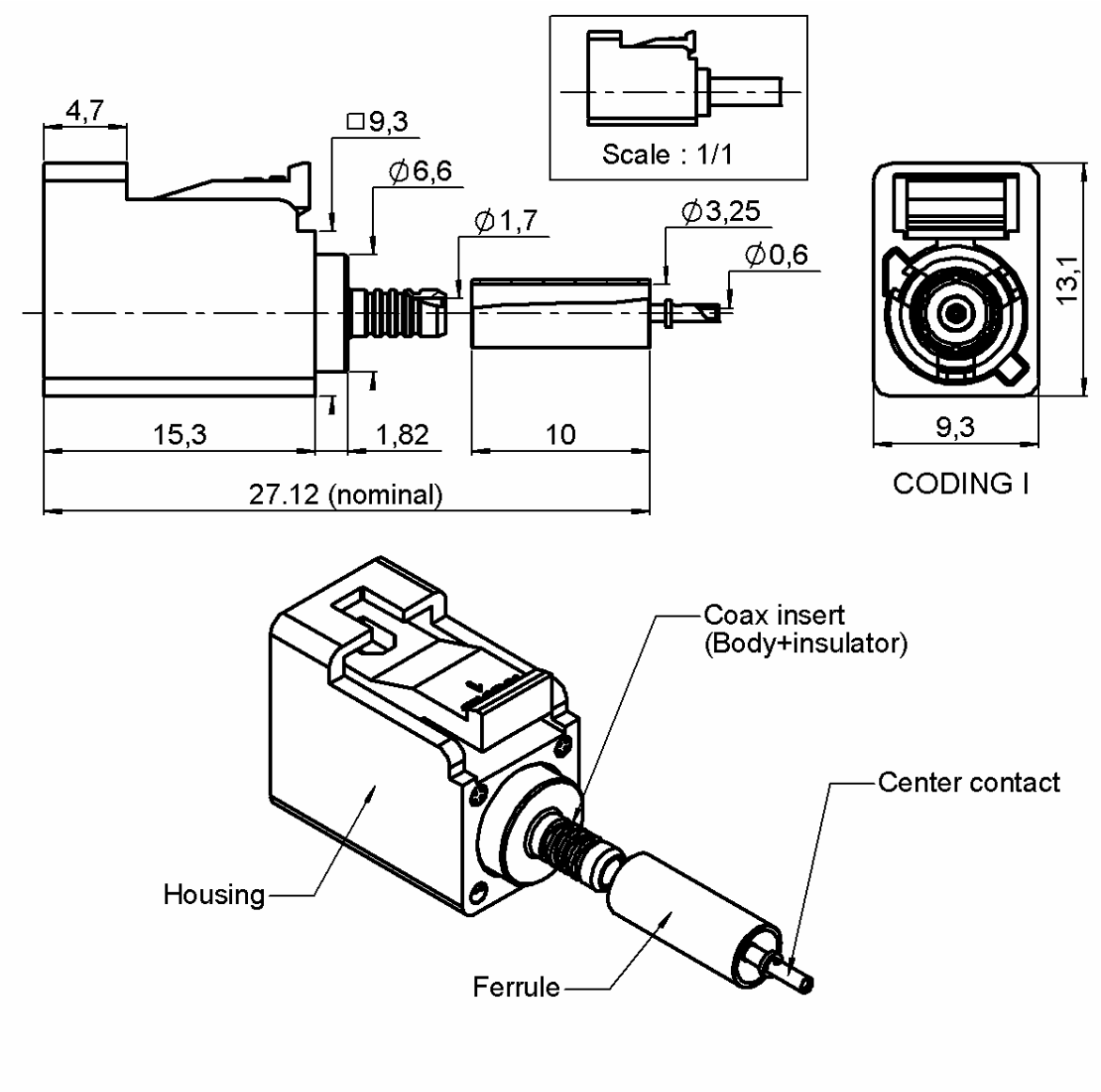
HOUSING + STRAIGHT FEMALE PLUG

CRIMP TYPE 2.6/50S CABLE PACK500

R197.114.I00

Series : **SMB**
CARLOCK



All dimensions are in mm.

COMPONENTS	MATERIALS	PLATINGS (µm)
BODY	**BRONZE**	**NICKEL 2**
CENTER CONTACT	**BRONZE**	**GOLD 0.8 OVER NICKEL 2**
OUTER CONTACT	-	-
INSULATOR	**PTFE**	
GASKET	-	
OTHERS PARTS	**BRASS**	**NICKEL 2**
		UL CLASSIFICATION / COLOR
HOUSING	**PA6.6 GF13 (POLYAMIDE)**	**UL 94 V-2** / **BEIGE RAL1001**

Issue : 0636 B

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PACKAGING

Standard	Unit	Other
500	**'W' option**	**Contact us**

ELECTRICAL CHARACTERISTICS

Impedance			**50**	Ω
Frequency			**0-4**	GHz
VSWR	**1.20****	+	**0,0000**	x F(GHz) Maxi
Insertion loss			**0.05**	√F(GHz) dB Maxi
RF leakage			**-45**	- F(GHz)) dB Maxi
Voltage rating			**335**	Veff Maxi
Dielectric withstanding voltage			**1000**	Veff mini
Insulation resistance			**1000**	MΩ mini

MECHANICAL CHARACTERISTICS

Center contact retention		
Axial force – Mating end	**10**	N mini
Axial force – Opposite end	**10**	N mini
Torque	**NA**	N.cm mini
Recommended torque		
Mating	**NA**	N.cm
Panel nut	**NA**	N.cm
Clamp nut	**NA**	N.cm
A/F clamp nut	**0,0000**	mm
Mating life	**100**	Cycles mini
Weight	**3,1000**	g

ENVIRONMENTAL

Operating temperature	**-40/+110***	° C
Hermetic seal	**NA**	Atm.cm3/s
Panel leakage	**NA**	

SPECIFICATION

SAE/USCAR-17 Rev.1 (October 2002)
SAE/USCAR-2 Rev.3 (February 2001)
SAE/USCAR-18 Rev.2 (January 2003)

CABLE ASSEMBLY

Stripping	a	b	c	d	e	f
mm	2,40	5,50	9,40	0,00	7,00	0,00

Assembly instruction : **Pages 3 & 4**

Recommended cable(s)
RG 174
RG 316

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

- pull off	**RG174 JUDD CABLE**	**110**	N mini
	RG316	**110**	N mini
	RG174	**65***	N mini
- torque		**NA**	N.cm

TOOLING

Part Number	Description	Hexagon
.	.	.
R282.293.000	CRIMPING TOOL	
R282.235.915	CRIMPING DIES	Hex 3.25 Square 0.72
R282.271.000	CRIMPING TOOL	Hex 3.25 Square 0.72
R282.281.000	CRIMPING TOOL	2x4pts 3pos
R282.967.034	POSITIONER FOR TOOL R282 281	

OTHERS CHARACTERISTICS

* Depends on the cable used
** VSWR : 1.20 maxi at 4 GHZ

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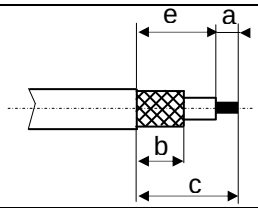
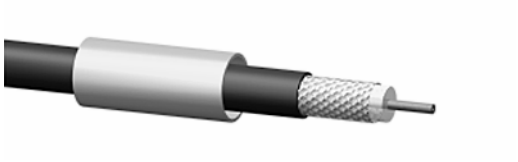
Series : **SMB CARLOCK**

Recommended mounting procedure for RG174 cable



1

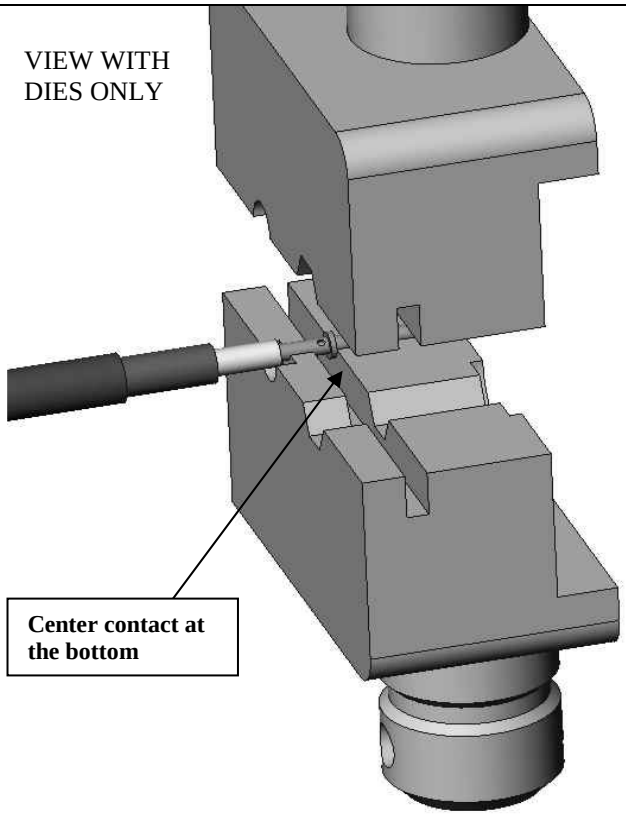
- **Slide the ferrule onto the cable**
- **Strip the cable**

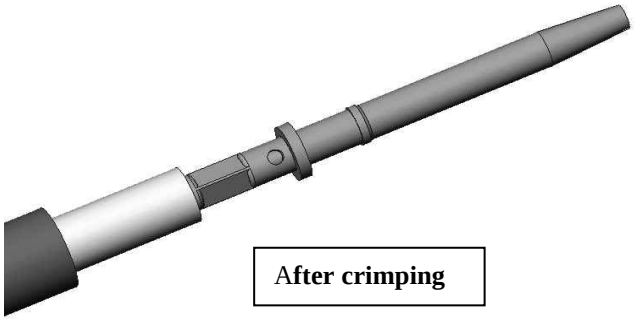


2

- **Slide the centre contact on until it bottoms against the cable dielectric**
- **Crimp the centre contact with crimping tool R282.271.000 (square 0.72) or R282.293.000 (M22520/5-01) + dies R282.235.915 (square 0.72) or R282.281.000 (M22520/2-01) (3 position) (2x4pts) with positioner R282.967.034.**

VIEW WITH DIES ONLY





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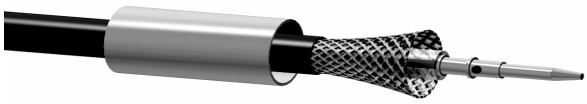
Recommended mounting procedure for RG174 cable

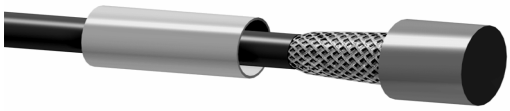
3

- **Fan the braid**



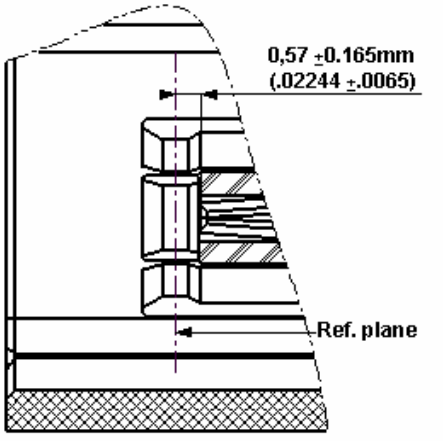
4

- **Slide the cable into the body until it bottoms against insulator**

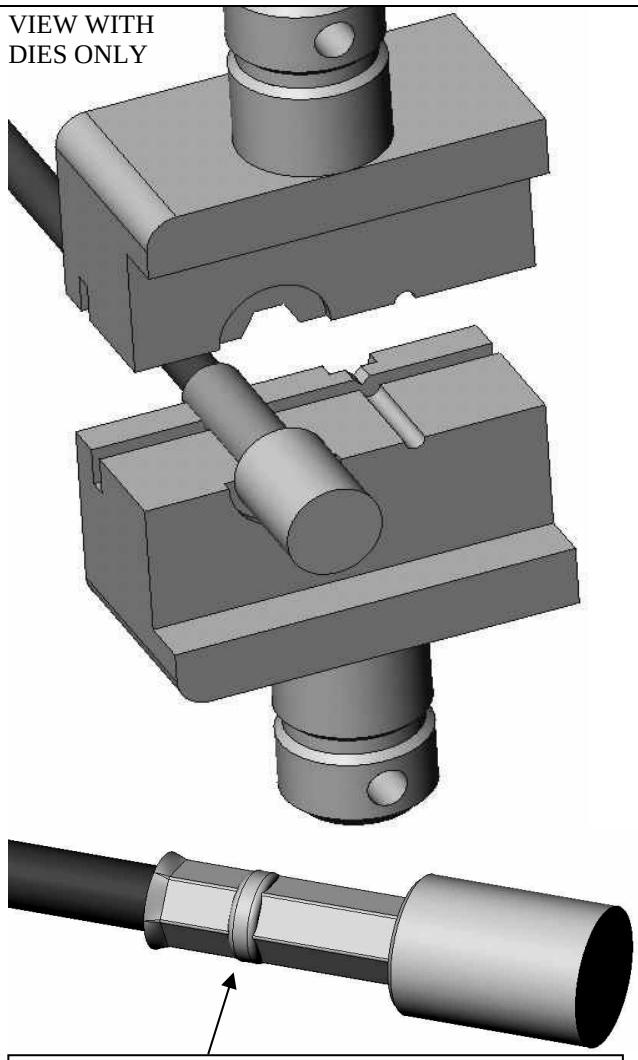


5

- **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)**
- **Check the position of the center contact between the top of the center contact and the SMB ref. plane : 0.57 ±0.165**



VIEW WITH DIES ONLY



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