

SMB3100W-0058

SMB Plug Crimp For RG58,JBY195,LMR195 50Ω
3GHz VSWR 1.25

Technical drawing of the SMB Plug Crimp connector. The drawing shows a side view of the component with the following dimensions:

- Outer diameter of the ferrule: $\varnothing 6.35$ ($\varnothing .250$)
- Length of the ferrule: 21.6 ($.850$)
- Outer diameter of the contact pin: $\varnothing 3.1$ ($\varnothing .122$)
- Outer diameter of the body: $\varnothing 4.4$ ($\varnothing .173$)

Parts	Material	Plating (Micro-inch)
Ferrule	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Contact Pin	Phosphor Bronze	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Retainer Ring	Beryllium Copper	Tin-Zinc-Copper-Alloy 100 Over Copper 50
Insulator	Teflon	
Body	Brass	Tin-Zinc-Copper-Alloy 100 Over Copper 50

Suitable Cables: RG58, JBY195, LMR195

This part number complies with RoHS.

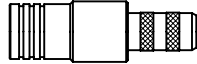
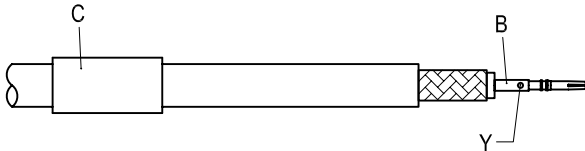
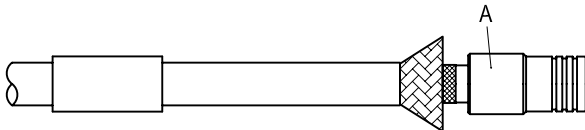
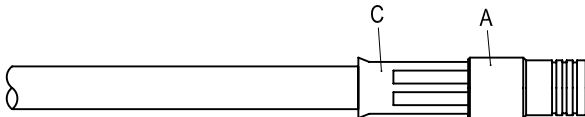
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

SMB	SMB3100W-0058
Interface MIL-STD-348B Mechanically compatible with SMS	
Electrical Data Impedance 50Ω Frequency range DC to 3GHz VSWR ≤ 1.25 (DC to 3GHz) Insertion loss $\leq 0.1 \times \sqrt{f(\text{GHz})}$ dB Insulation resistance $\geq 10000\text{M}\Omega$ Contact resistance inner conductor $\leq 5\text{m}\Omega$ Contact resistance outer conductor $\leq 2.5\text{m}\Omega$ Dielectric withstanding voltage (at sea level) 1000 V rms Working Voltage (at sea level) 335 V rms	
Mechanical Data Disengagement force 1.8 to 14.2 lbs Engagement force 1.8 to 14.2 lbs Contact captivation-axial ≥ 4 lbs Durability (mating) ≥ 500	
Environmental Data Temperature range -65°C to +165°C Thermal shock MIL-STD-202, Method 107, Condition B Moisture resistance MIL-STD-202, Method 106 Corrosion MIL-STD-202, Method 101, Condition B RoHS Compliant	
Tooling Crimping tool CRT-1 or CRT-2 Crimp insert INSERT-B	

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JYE BAO CO., LTD.

CABLE ASSEMBLY INSTRUCTION

SMB3100W-0058		DATE	2017/03/27	REV	—
A		B		C	
					
BODY		CONTACT PIN		FERRULE	
DIAGRAM			ASSEMBLY INSTRUCTION		
			Step 1: STRIP AS SHOWN.		
			Step 2: SLIDE FERRULE " C " OVER CABLE. Step 3: PUT PIN " B " ON CENTER CONDUCTOR AND SOLDER OR CRIMP IN " Y ". (USE SQUARE 0.98mm/0.039inch SECTION OF INSERT-B IF CRIMPED)		
			Step 4: LOOSEN BRAIDING AND SLIDE CONNECTOR " A " IN PLACE.		
			Step 5: SLIDE FERRULE " C " TOWARDS THE CONNECTOR " A " AND CRIMP. (USE 5.5mm/0.217inch HEX SECTION OF INSERT-B)		
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APPROVED		CHECKED		DRAWING	
				Albert	

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