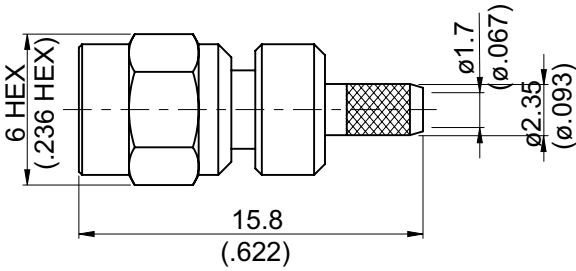


SMC3100-L100	SMC plug crimp for JBY100,LMR100; 3GHz VSWR 1.2		50Ω																					
																								
<table><tr><th>Parts</th><th>Material</th><th>Plating (Micro-inch)</th></tr><tr><td>Ferrule</td><td>Brass</td><td>Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20</td></tr><tr><td>Contact Pin</td><td>Phosphor Bronze</td><td>Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20</td></tr><tr><td>Barrel</td><td>Brass</td><td>Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20</td></tr><tr><td>Insulator</td><td>Teflon</td><td></td></tr><tr><td>Body</td><td>Brass</td><td>Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20</td></tr><tr><td>Coupling Nut</td><td>Brass</td><td>Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20</td></tr></table>				Parts	Material	Plating (Micro-inch)	Ferrule	Brass	Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20	Contact Pin	Phosphor Bronze	Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20	Barrel	Brass	Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20	Insulator	Teflon		Body	Brass	Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20	Coupling Nut	Brass	Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20
Parts	Material	Plating (Micro-inch)																						
Ferrule	Brass	Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20																						
Contact Pin	Phosphor Bronze	Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20																						
Barrel	Brass	Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20																						
Insulator	Teflon																							
Body	Brass	Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20																						
Coupling Nut	Brass	Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20																						
Weight: 1.7g Suitable Cables:JBY100, LMR100																								

This part number complies with RoHS.

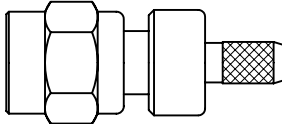
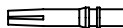
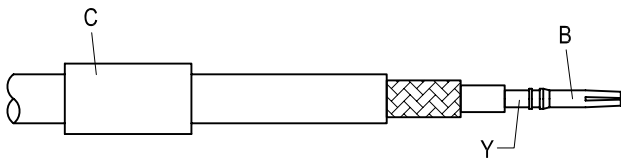
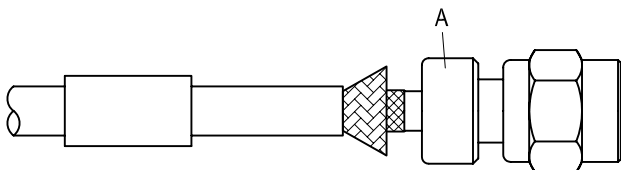
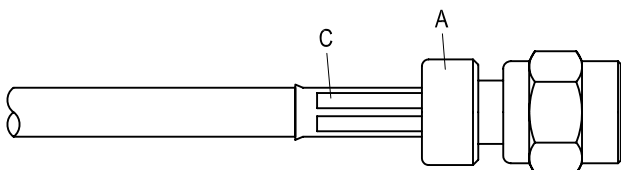
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

SMC	SMC3100-L100																				
Interface MIL-STD-348B																					
Electrical Data <table> <tr> <td>Impedance</td><td>50Ω</td></tr> <tr> <td>Frequency range</td><td>DC to 3GHz</td></tr> <tr> <td>VSWR</td><td>≤ 1.2 (DC to 3GHz)</td></tr> <tr> <td>Insertion loss</td><td>$\leq 0.1 \times \sqrt{f(\text{GHz})}$ dB</td></tr> <tr> <td>Insulation resistance</td><td>$\geq 10000\text{M}\Omega$</td></tr> <tr> <td>Contact resistance inner conductor</td><td>$\leq 5\text{m}\Omega$</td></tr> <tr> <td>Contact resistance outer conductor</td><td>$\leq 2.5\text{m}\Omega$</td></tr> <tr> <td>Dielectric withstanding voltage (at sea level)</td><td>750 V rms</td></tr> <tr> <td>Working voltage (at sea level)</td><td>250 V rms</td></tr> <tr> <td>RF leakage</td><td>$\geq 90\text{dB}$ to 1GHz</td></tr> </table>		Impedance	50Ω	Frequency range	DC to 3GHz	VSWR	≤ 1.2 (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)	750 V rms	Working voltage (at sea level)	250 V rms	RF leakage	$\geq 90\text{dB}$ to 1GHz
Impedance	50Ω																				
Frequency range	DC to 3GHz																				
VSWR	≤ 1.2 (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)	750 V rms																				
Working voltage (at sea level)	250 V rms																				
RF leakage	$\geq 90\text{dB}$ to 1GHz																				
Mechanical Data <table> <tr> <td>Recommended coupling nut torque</td><td>2.2 to 3.1 inch lbs</td></tr> <tr> <td>Coupling proof torque</td><td>6.2 inch lbs</td></tr> <tr> <td>Coupling nut retention force</td><td>≥ 33.72 lbs</td></tr> <tr> <td>Contact captivation-axial</td><td>≥ 2.25 lbs</td></tr> <tr> <td>Durability (mating)</td><td>≥ 500</td></tr> </table>		Recommended coupling nut torque	2.2 to 3.1 inch lbs	Coupling proof torque	6.2 inch lbs	Coupling nut retention force	≥ 33.72 lbs	Contact captivation-axial	≥ 2.25 lbs	Durability (mating)	≥ 500										
Recommended coupling nut torque	2.2 to 3.1 inch lbs																				
Coupling proof torque	6.2 inch lbs																				
Coupling nut retention force	≥ 33.72 lbs																				
Contact captivation-axial	≥ 2.25 lbs																				
Durability (mating)	≥ 500																				
Environmental Data <table> <tr> <td>Temperature range</td><td>-65°C to +165°C</td></tr> <tr> <td>Thermal shock</td><td>MIL-STD-202, Method 107, Condition B</td></tr> <tr> <td>Moisture resistance</td><td>MIL-STD-202, Method 106</td></tr> <tr> <td>Corrosion</td><td>MIL-STD-202, Method 101, Condition B</td></tr> <tr> <td>RoHS</td><td>Compliant</td></tr> </table>		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										
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 <table> <tr> <td>Crimping tool</td><td>CRT-1 or CRT-2</td></tr> <tr> <td>Crimp insert</td><td>INSERT-A</td></tr> </table>		Crimping tool	CRT-1 or CRT-2	Crimp insert	INSERT-A																
Crimping tool	CRT-1 or CRT-2																				
Crimp insert	INSERT-A																				

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

JYE BAO CO., LTD.

CABLE ASSEMBLY INSTRUCTION

SMC3100-L100		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 CRIMP IN " Y ". (USE SQUARE 0.70mm/0.028inch SECTION OF INSERT-A)		
			Step 4: LOOSEN BRAIDING AND SLIDE CONNECTOR " A " IN PLACE.		
			Step 5: SLIDE FERRULE " C " TOWARDS THE CONNECTOR " A " AND CRIMP. (USE 3.3mm/0.130inch HEX SECTION OF INSERT-A)		
This part number complies with RoHS. Notice: JYEBAO reserves the right to make modifications deemed appropriate.					
APPROVED		CHECKED		DRAWING	
				Albert	

SMC3100-L100

S11

