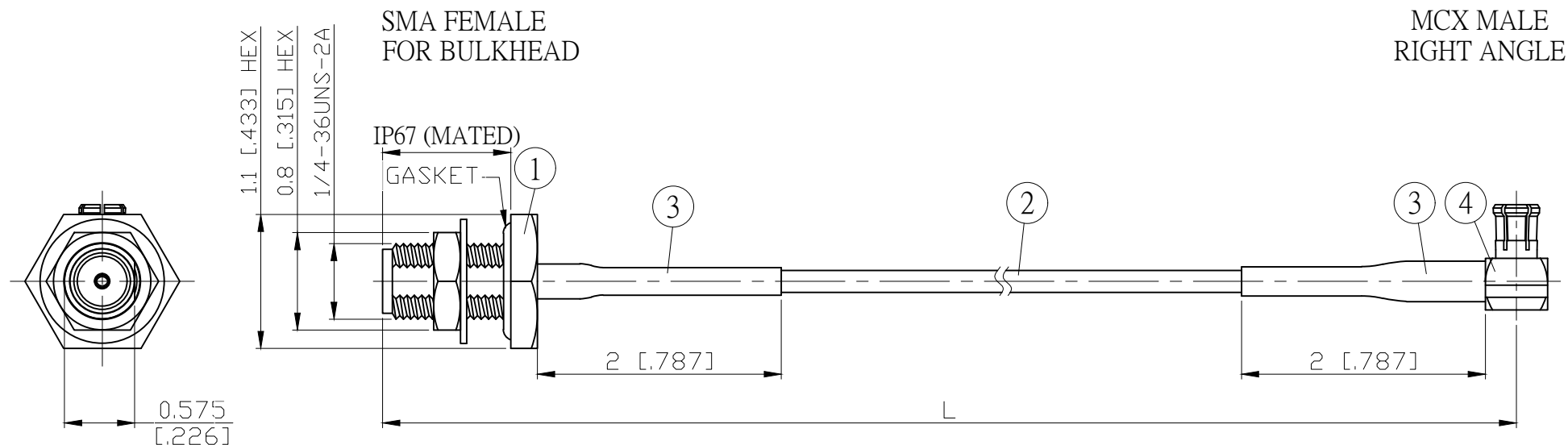


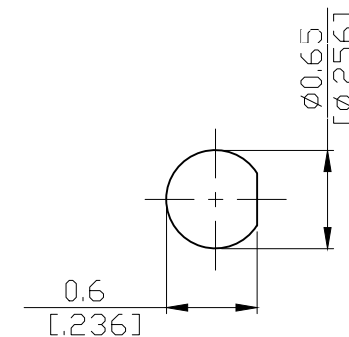
NO.	COMPONENTS	IMPEDANCE
1	SMA FEMALE FOR BULKHEAD	50 OHM
2	RG178	50 OHM
3	HEAT SHRINKING TUBE	
4	MCX MALE RIGHT ANGLE	50 OHM

REVISION			
REV.	DESCRIPTION	DATE	APPROVED
-	INITIAL RELEASE	2012/08/15	
A	修正SMA螺紋規格	2013/10/01	
B	SMA8305A-0178=>SMA8305PF1-0178	2022/05/19	



JYE BAO P/N	L CM (INCH)	L1 M (MM)
A85D39-178-15	15 (5.906)	0.145 (144.5)
A85D39-178-30	30 (11.811)	0.295 (294.5)
A85D39-178-50	50 (19.685)	0.495 (494.5)
A85D39-178-100	100 (39.370)	0.995 (994.5)
A85D39-178-150	150 (59.055)	1.495 (1494.5)
A85D39-178-200	200 (78.740)	1.995 (1994.5)
A85D39-178-XXX	CUSTOM LENGTH IN CM	- - -

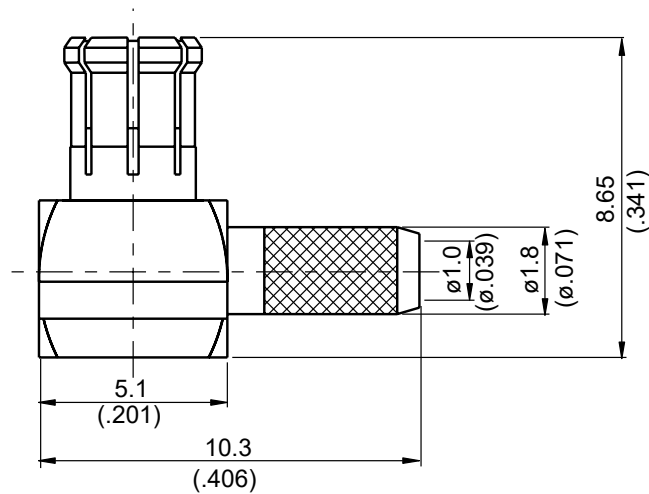
勝特力電材超市-龍山店 886-3-5773766
 勝特力電材超市-光復店 886-3-5729570
 勝特力電子(上海) 86-21-34970699
 勝特力電子(深圳) 86-755-83298787
<http://www.100y.com.tw>



4	MCX3100-9178	MCX PLUG R/A	1	EA
3	G5(F)-3.0MM-BLACK	TUBE	0.04	M
2	RG178	CABLE	SEE TABLE L1	M
1	SMA8305PF1-0178	SMA JACK	1	EA
NO.	PARTS NO.	DESCRIPTION	Q'TY	U/M

LENGTH TOLERANCE IS ±1.5% OR ±10MM, WHICHEVER IS GREATER.	STANDARD	REV B	UNIT CM(INCH)	DESCRIPTION CABLE ASSEMBLY SMA JACK FOR BULKHEAD TO MCX PLUG R/A JYE BAO DRAWING NO. A85D39-178-XXX
	APPROVED		DATE	
	CHECKED		DATE	
	DRAWING		DATE	

MCX3100-9178

MCX Plug Crimp Right Angle
For RG178, RG178-FEP; 2GHz VSWR 1.2**50Ω**

Parts	Material	Plating (Micro-inch)
Ferrule	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Cover	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Contact Pin	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Insulator	Teflon	
Body	Phosphor Bronze	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20

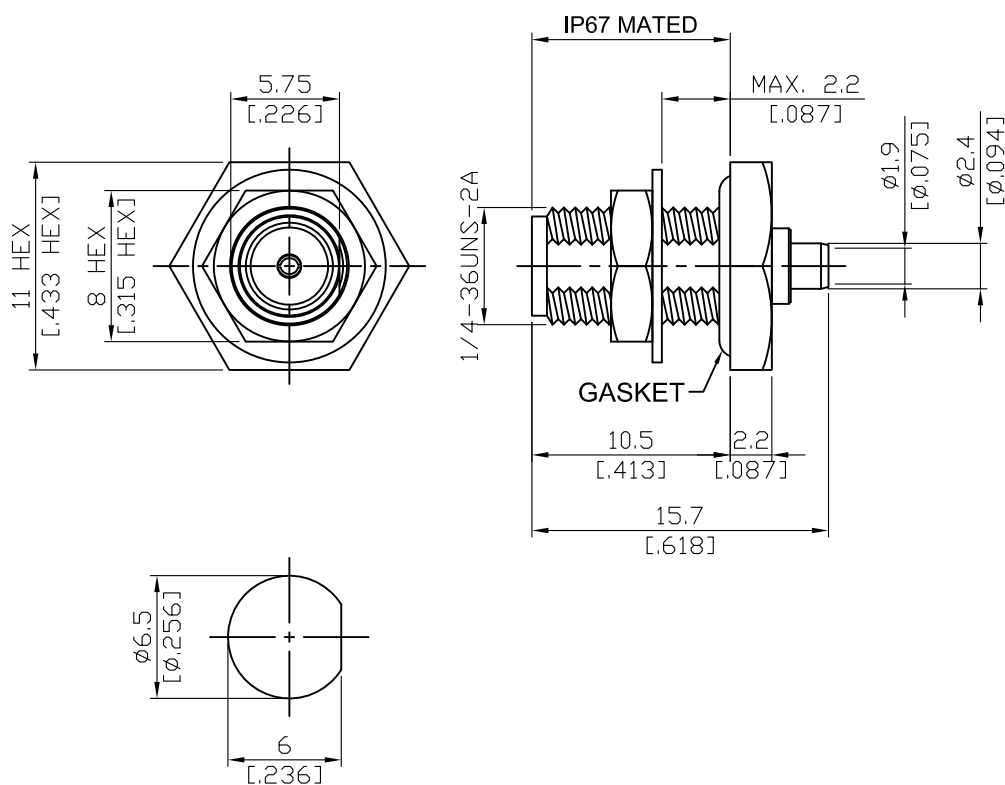
Weight: 1.1 g

Suitable Cables: RG178, RG196, RG178-FEP

SMA8305PF1-0178

SMA jack press fit bulkhead; IP67 mated; for
RG178, RG178-FEP; 6GHz VSWR 1.2

50Ω



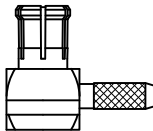
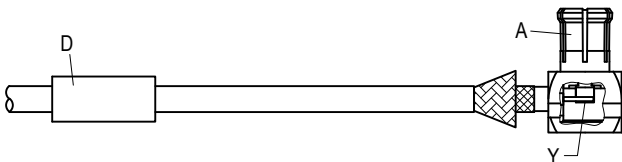
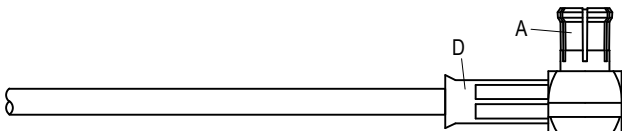
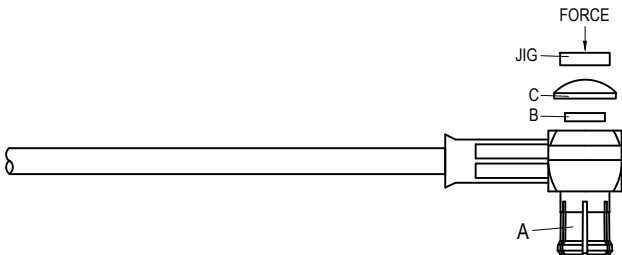
MOUNTING HOLE

Parts	Material	Plating (Micro-inch)
Body	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Insulator	Teflon	
Contact Pin	Beryllium Copper	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Gasket	Silicone	
Lock Washer	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Hex Nut	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Barrel	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20

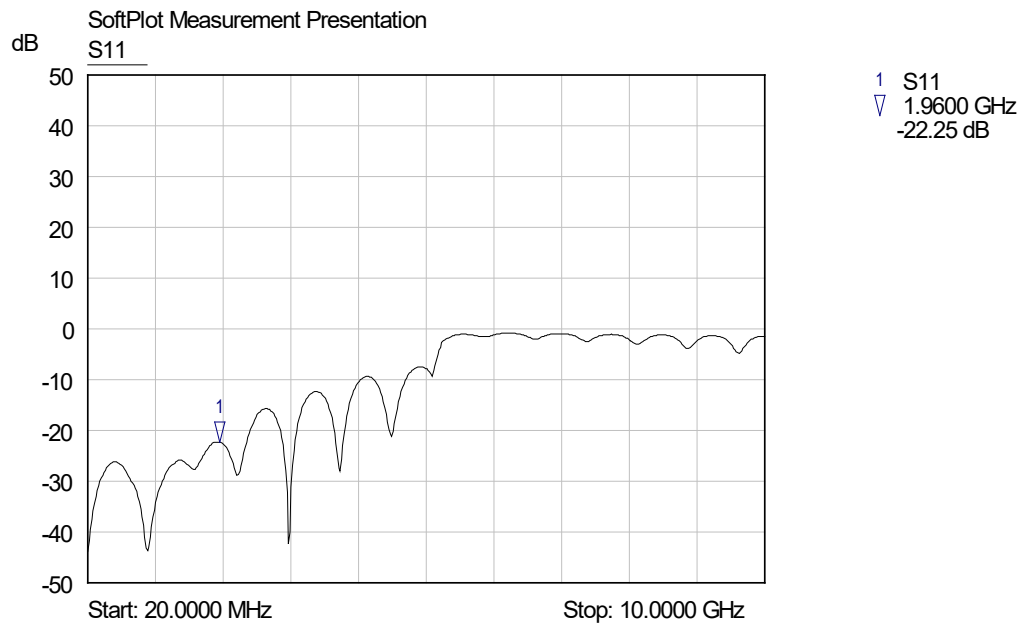
Suitable Cables: RG178,RG178-FEP

MCX	MCX3100-9178																		
Interface IEC 61169-36																			
Electrical Data <table> <tr> <td>Impedance</td><td>50Ω</td></tr> <tr> <td>Frequency range</td><td>DC to 2GHz</td></tr> <tr> <td>VSWR</td><td>≤1.2 (DC to 2GHz)</td></tr> <tr> <td>Insertion loss</td><td>≤0.1dB to 1GHz; ≤0.15 to 3GHz</td></tr> <tr> <td>Insulation resistance</td><td>≥10000mΩ</td></tr> <tr> <td>Contact resistance inner conductor</td><td>≤5mΩ</td></tr> <tr> <td>Contact resistance outer conductor</td><td>≤2.5mΩ</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> </table>		Impedance	50Ω	Frequency range	DC to 2GHz	VSWR	≤1.2 (DC to 2GHz)	Insertion loss	≤0.1dB to 1GHz; ≤0.15 to 3GHz	Insulation resistance	≥10000mΩ	Contact resistance inner conductor	≤5mΩ	Contact resistance outer conductor	≤2.5mΩ	Dielectric withstanding voltage (at sea level)	750 V rms	Working voltage (at sea level)	250 V rms
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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																		

CABLE ASSEMBLY INSTRUCTION

MCX3100-9178		DATE	2017/03/27	REV	—	
A		B	C	D		
						
BODY		INSULATOR		COVER		FERRULE
DIAGRAM			ASSEMBLY INSTRUCTION			
			Step 1: STRIP AS SHOWN.			
			Step 2: SLIDE FERRULE " D " OVER CABLE. Step 3: WRAP THE BRAIDING UPWARDS. Step 4: SLIDE CENTER CONDUCTOR ON THE CONTACT PIN OF CONNECTOR " A " AND SOLDER IN " Y ".			
			Step 5: SLIDE FERRULE " D " TOWARDS THE CONNECTOR " A " AND CRIMP. (USE 2.7mm/0.106inch HEX SECTION OF INSERT-A)			
			Step 6: PRESS ON THE TOP OF " C " AND " B " WITH JIGS.			
APPROVED		CHECKED		DRAWING		
				Albert		

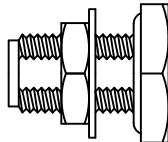
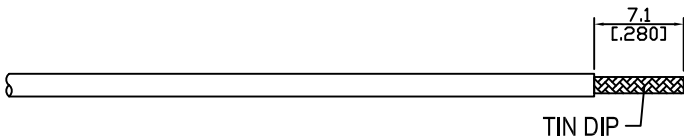
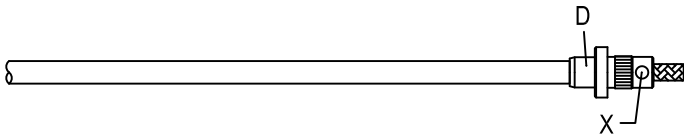
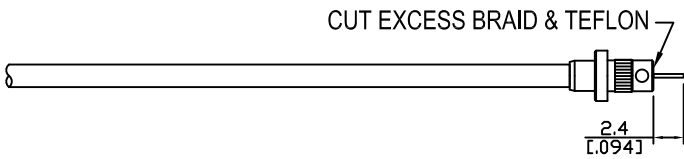
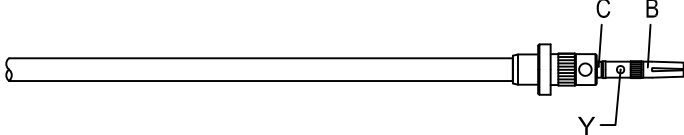
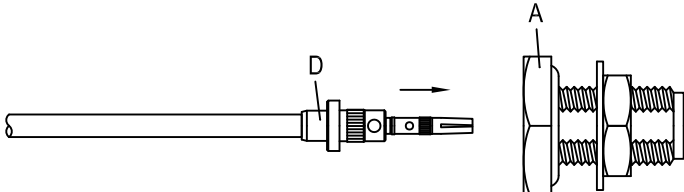
MCX3100-9178



SMA	SMA8305PF1-0178
Interface MIL-STD-348B Mechanically compatible with 2.92 & 3.5	
Electrical Data Impedance 50Ω Frequency range DC to 6GHz VSWR ≤ 1.2 (DC to 6GHz) Insertion loss $\leq 0.04 \times \sqrt{f(\text{GHz})}$ dB Insulation resistance $\geq 5000\text{M}\Omega$ Contact resistance inner conductor $\leq 3\text{m}\Omega$ Contact resistance outer conductor $\leq 2\text{m}\Omega$ Dielectric withstanding voltage (at sea level) 750 V rms Working voltage (at sea level) 250 V rms	
Mechanical Data Recommended coupling nut torque 4 inch lbs Coupling proof torque 5.3 inch lbs Coupling nut retention force ≥ 60.7 lbs Contact Captivation-axial ≥ 6.1 lbs Durability (mating) ≥ 100	
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	

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

CABLE ASSEMBLY INSTRUCTION

SMA8305PF1-0178		DATE	2023/12/20	REV	A
A		B	C	D	
					
BODY + WASHER + HEX NUT		CONTACT PIN	INSULATOR	BARREL	
DIAGRAM			ASSEMBLY INSTRUCTION		
			Step 1: STRIP AS SHOWN. 勝特力電材超市-龍山店 886-3-5773766 勝特力電材超市-光復店 886-3-5729570 勝特力电子(上海) 86-21-34970699 勝特力电子(深圳) 86-755-83298787 http://www.100y.com.tw		
			Step 2: SLIDE SOLDER FERRULE " D " OVER THE CABLE. Step 3: SOLDER IN " X ".		
			Step 4: CUT AWAY ANY EXCESS BRAID AND TEFLON STICKING OUT OF THE SOLDER FERRULE. Step 5: STRIP AS SHOWN.		
			Step 6: SLIDE PREPARED CABLE INTO INSULATOR " C " . Step 7: PUT CONTACT PIN " B " ON CENTER CONDUCTOR AND SOLDER IN " Y ".		
			Step 8: USE PRESS MACHINE TO INSERT BARREL " D " INTO THE CONNECTOR BODY " A ".		
This part number complies with RoHS. Notice: JYEBAO reserves the right to make modifications deemed appropriate.					
APPROVED		CHECKED		DRAWING	
				Albert	