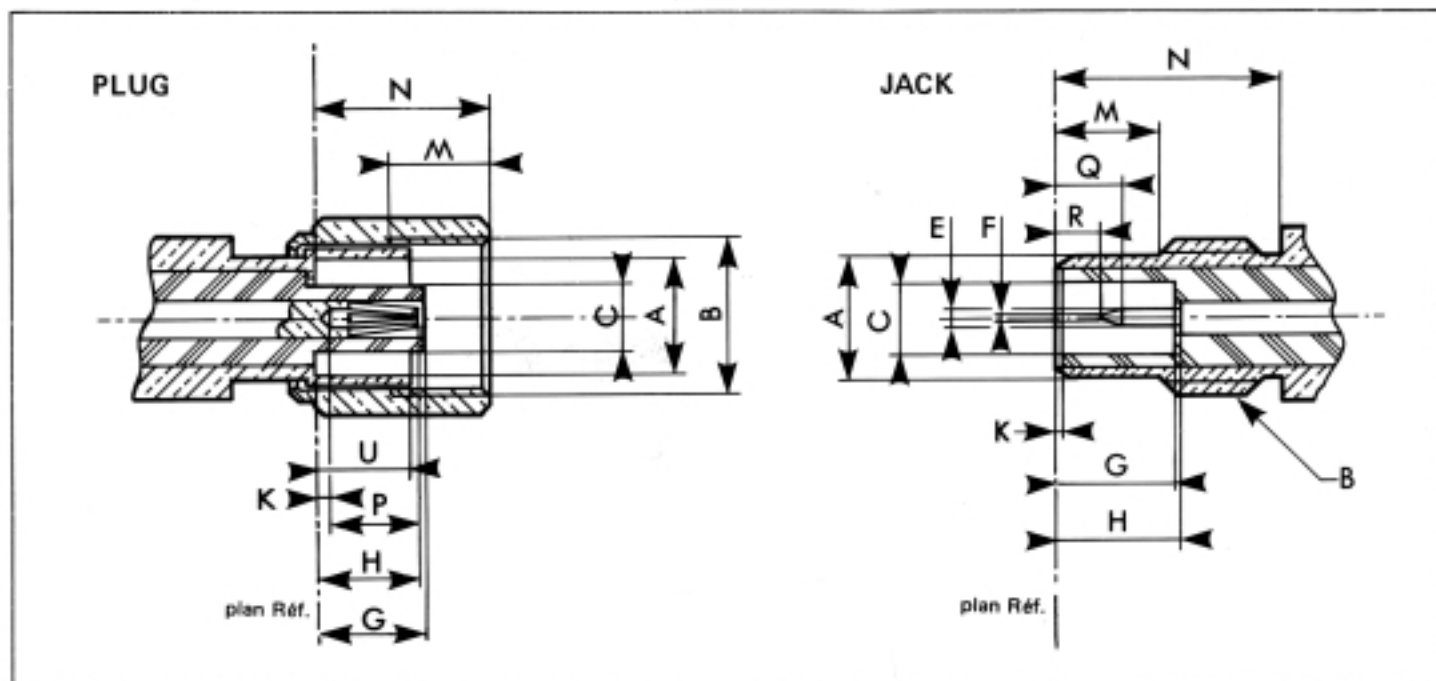


REQUIREMENT	MIL - C - 39012 paragraph	GENERAL SPECIFICATIONS									
ELECTRICAL											
Impedance		50 Ω									
Frequency range		0 - 10 GHz									
V.S.W.R.	3 - 14	<table border="0"> <tr> <td>cable</td> <td>2/50</td> <td>2,6/50</td> </tr> <tr> <td>straight</td> <td>1,25 +0,04 F (GHz)</td> <td>1,20 +0,04 F (GHz)</td> </tr> <tr> <td>right angle</td> <td>1,40 +0,06 F (GHz)</td> <td>1,30 +0,04 F (GHz)</td> </tr> </table>	cable	2/50	2,6/50	straight	1,25 +0,04 F (GHz)	1,20 +0,04 F (GHz)	right angle	1,40 +0,06 F (GHz)	1,30 +0,04 F (GHz)
cable	2/50	2,6/50									
straight	1,25 +0,04 F (GHz)	1,20 +0,04 F (GHz)									
right angle	1,40 +0,06 F (GHz)	1,30 +0,04 F (GHz)									
Insertion loss	3 - 27	<table border="0"> <tr> <td>straight</td> <td>: 0,25 dB max. at 4 GHz</td> </tr> <tr> <td>right angle</td> <td>: 0,5 dB max. at 4 GHz</td> </tr> </table> - 60 dB min. between 2 and 3 GHz	straight	: 0,25 dB max. at 4 GHz	right angle	: 0,5 dB max. at 4 GHz					
straight	: 0,25 dB max. at 4 GHz										
right angle	: 0,5 dB max. at 4 GHz										
RF leakage	3 - 26										
Insulation resistance	3 - 11	1000 megohms min.									
Contact resistance	3 - 16	<table border="1"> <thead> <tr> <th></th> <th>Initial</th> <th>After environment</th> </tr> </thead> <tbody> <tr> <td>Centre contact (mΩ)</td> <td>6</td> <td>8</td> </tr> <tr> <td>Outer contact (mΩ)</td> <td>1</td> <td>1,5</td> </tr> </tbody> </table>		Initial	After environment	Centre contact (m Ω)	6	8	Outer contact (m Ω)	1	1,5
	Initial	After environment									
Centre contact (m Ω)	6	8									
Outer contact (m Ω)	1	1,5									
Voltage rating (volts RMS)		<table border="0"> <tr> <td>cable 2/50</td> <td>: at sea level</td> <td>250 V, at 70000 ft</td> <td>60 V</td> </tr> <tr> <td>cable 2,6/50</td> <td>: at sea level</td> <td>335 V, at 21000 m</td> <td>85 V</td> </tr> </table>	cable 2/50	: at sea level	250 V, at 70000 ft	60 V	cable 2,6/50	: at sea level	335 V, at 21000 m	85 V	
cable 2/50	: at sea level	250 V, at 70000 ft	60 V								
cable 2,6/50	: at sea level	335 V, at 21000 m	85 V								
Dielectric withstanding voltage	3 - 17	<table border="0"> <tr> <td>cable 2/50</td> <td>: at sea level</td> <td>750 V, at 70000 ft</td> <td>185 V</td> </tr> <tr> <td>cable 2,6/50</td> <td>: at sea level</td> <td>1000 V, at 21000 m</td> <td>250 V</td> </tr> </table>	cable 2/50	: at sea level	750 V, at 70000 ft	185 V	cable 2,6/50	: at sea level	1000 V, at 21000 m	250 V	
cable 2/50	: at sea level	750 V, at 70000 ft	185 V								
cable 2,6/50	: at sea level	1000 V, at 21000 m	250 V								
RF high potential withstanding voltage (Frequency 5 MHz)	3 - 23	<table border="0"> <tr> <td>cable 2/50</td> <td>: at sea level</td> <td>500 V</td> </tr> <tr> <td>cable 2,6/50</td> <td>: at sea level</td> <td>700 V</td> </tr> </table>	cable 2/50	: at sea level	500 V	cable 2,6/50	: at sea level	700 V			
cable 2/50	: at sea level	500 V									
cable 2,6/50	: at sea level	700 V									
MECHANICAL											
Life	3 - 15	500 matings									
Force to engage and disengage	3 - 5 - 1	torque : 16 inch-ounces max. - 11,3 Ncm									
Mating torque		35 to 50 inch-ounces - 25 to 35 Ncm									
Coupling nut proof torque		100 inch-ounces - 71 Ncm									
Coupling nut retention force	3 - 25	35 lbs. min. - 156 N min.									
Cable retention force	3 - 24	cable 2/50 : 13 lbs - 58 N and cable 2,6/50 : 25 lbs - 110 N									
Contact captivation		axial force : 4 lbs - 18 N. torque : not applicable.									
ENVIRONMENTAL											
Operating temperature range		<table border="0"> <tr> <td>standard models</td> <td>: - 65°C + 165°C</td> </tr> <tr> <td>hermetic</td> <td>: - 65°C + 165°C</td> </tr> <tr> <td>semi rigid cables</td> <td>: - 65°C + 105°C</td> </tr> </table>	standard models	: - 65°C + 165°C	hermetic	: - 65°C + 165°C	semi rigid cables	: - 65°C + 105°C			
standard models	: - 65°C + 165°C										
hermetic	: - 65°C + 165°C										
semi rigid cables	: - 65°C + 105°C										
Temperature cycling		MIL - STD - 202, method 102, condition C									
Thermal shock	3 - 20	MIL - STD - 202, method 107, condition B									
High temperature test		MIL - STD - 202, method 108									
Corrosion (salt spray)	3 - 13	MIL - STD - 202, method 101, condition B, 5%									
Vibration	3 - 18	MIL - STD - 202, method 204, condition D, 20 g									
Shock	3 - 19	MIL - STD - 202, method 213, condition C, 100 g									
Moisture resistance	3 - 21	not applicable									
Barometric pressure	3 - 22	MIL - STD - 202, method 105, condition C									
Hermetic test		down to 10 ⁻⁶ mm Hg (Torr) leak rate < 1 x 10 ⁻⁶ atm/cm ³ /sec									
MATERIALS											
Bodies and male contacts		brass, half hard per QQ - B - 626									
Female contacts and interfaces		beryllium copper per QQ - C - 530									
Ferrules		brass									
Insulators		PTFE teflon									
Gaskets		silicone rubber									
PLATING											
Body		gold to satisfy the corrosion requirements									
Centre contacts		gold									



SMC

Letter	PLUG				JACK			
	mm		Inch		mm		Inch	
	min.	max.	min.	max.	min.	max.	min.	max.
ØA	3,73	-	.147	-	-	3,71	-	.146
B	N° 10 - 32 UNF - 2 B				N° 10 - 32 UNF - 2 A			
ØC	-	2,06	-	.081	2,08	-	.082	-
ØE	-	-	-	-	0,48	0,53	.019	.021
ØF	-	-	-	-	-	0,25	-	.010
G	-	3,40	-	.134	3,40	-	.134	-
H	-	3,40	-	.134	3,40	-	.134	-
K	-	-	-	-	000	-	000	-
M	2,79	-	.110	-	3,12	3,38	.123	.133
N	-	5,92	-	.233	5,94	-	.234	-
P	2,79	-	.110	-	-	-	-	-
Q	-	-	-	-	-	2,13	-	.084
R	-	-	-	-	0,61	-	.024	-
U	-	3,10	-	.122	-	-	-	-