
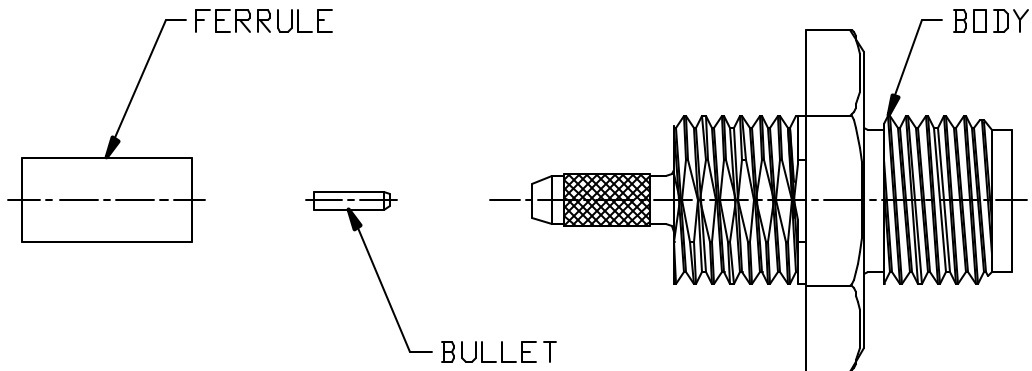


NOTES:

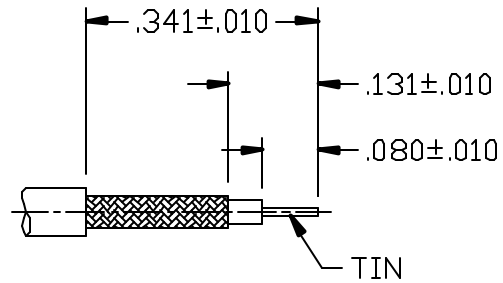
1. DESIGN AND INTERFACE PER I. D. S. -20.
2. BULLET, JAM NUT, LOCK WASHER, 'O' -RING & FERRULE ARE SHIPPED LOOSE.
3. RATED TO IP67.
4. MOUNTING HOLE PER DS-16A, FIGURE 3.
5. ACCOMMODATES RG-178, HIROSE 088 (1.37mm) OR EQUIVALENT CABLES.
6. CRIMP USING .108 HEX DIE (M22520/5-03).

				<b>PALCO CONNECTOR</b> 22 GREAT HILL RD., NAUGATUCK, CT 06770 UNLESS OTHERWISE SPECIFIED, PALCO WORKMANSHIP STANDARDS APPLY TOLERANCES IN: DECIMALS: XX ±.01 .XXX ±.005 ANGLES ±1/2° 32' DIMENSIONS IN INCHES OR (METRIC) DO NOT SCALE PRINTS	DRAWN JEM	CHECKED MS	ENGINEER JEM	APPROVED MS	FSCM 58167
						DESCRIPTION SMA WATERPROOF FRONT MOUNT BULKHEAD JACK			
A	PER ECN 11452	09/19/12	JEM		DATE 09/07/12	DRAWING NO. 22-1917-0498		PLATING OPT. N	
REV.	DESCRIPTION	DATE	APPR.	CATALOG ITEM					

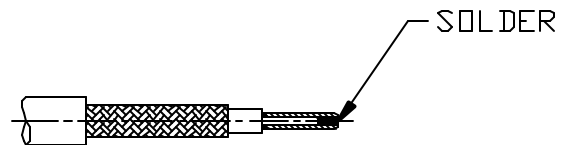
CABLE ASSEMBLY PROCEDURE		 22 GREAT HILL ROAD, NAUGATUCK, CT. 06770 PHONE: (203) 729-9090 FAX: (203) 723-1794	REV	DESCRIPTION	DATE	APPR
P/N	22-1917-0498		01	PRELIMINARY	9/10/12	JEM
PAGE 1 OF 1	DATE: 9/10/11		A	PER ECN 11452	09/19/12	JEM
DRAWN: JEM	APPROVED: JEM					
FOR USE WITH RG-178 CABLE						



STEP 1  
 TRIM CABLE TO DIMENSIONS  
 SHOWN. TIN CENTER CONDUCTOR.  
 CLEAN.



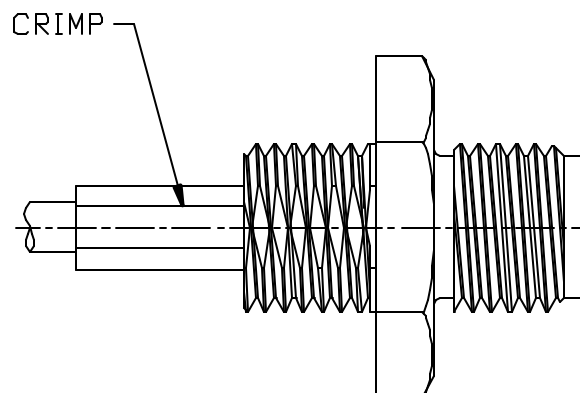
STEP 2.  
 SOLDER BULLET TO CENTER  
 CONDUCTOR AS SHOWN.



STEP 3  
 SLIDE FERRULE ONTO CABLE.  
 FLARE BRAID BY ROTATING  
 CABLE DIELECTRIC.



STEP 4  
 INSERT CABLE INTO BODY  
 UNTIL CABLE BOTTOMS.  
 SLIDE FERRULE UP UNTIL  
 IT BOTTOM ON SHOULDER.  
 CRIMP USING .105 HEX  
 DIE (M22520/5-03).



INTERFACE DESIGN STANDARD		 22 GREAT HILL ROAD, NAUGATUCK, CT. 06770 PHONE: (203) 729-9090 FAX: (203) 723-1794	REV	DESCRIPTION	DATE	APPR
IDS-22			D	PER ECN 5828	02/12/01	HN
PAGE 1 OF 2	DATE: 03/05/97		E	PER ECN 6802	11/07/02	HN
DRAWN: JEM	APPROVED: HN		F	PER ECN 7036	03/31/03	HN
		G	PER ECN 8609	08/02/06	JEM	

DESCRIPTION: SMA 22 SERIES (BRASS)

MECHANICAL

MATERIALS

BODIES, NUTS- BRASS 1/2 HD, PER ASTM-B-16, ALLOY 36000.  
INSULATORS - TEFLON (PTFE) PER ASTM-D-1457.  
CONTACTS, MALE AND FEMALE- BERYLLIUM COPPER PER ASTM-B-196.  
GASKETS - SILICONE RUBBER PER ZZ-R-765.

FINISHES (ADD LETTER TO END OF PART NUMBER)

CONTACTS - .00005 GOLD OVER .00005 NICKEL PER MIL-G-45204  
TO MEET THE ENVIRONMENTAL REQUIREMENTS OF MIL-C-39012.  
OTHER METAL PARTS - .000020 GOLD PLATED  
TO MEET THE ENVIRONMENTAL REQUIREMENTS OF MIL-C-39012.

MATING CHARACTERISTICS

CENTER CONTACT PIN AND SOCKET PER MIL-C-39012 (1 OZ. MIN) (2 LBS. MAX)  
FORCE TO ENGAGE /DISENGAGE- 2 IN.-LBS. MAX. TORQUE.  
COUPLING NUT RETENTION - 60 LBS. MIN.  
CONNECTOR DURABILITY - 100 CYCLES PER MIL-PRF-39012.

	WALL THICKNESS OF BODY	
	THICK	THIN
COUPLING PROOF TORQUE, IN.-LBS	15 MIN.	7-10
RECOMMENDED TORQUE, IN.-LBS.	7-10	5-6.5

ELECTRICALS

IMPEDANCE: 50 OHMS.  
FREQUENCY RANGE: DC TO 18 GHz.  
INSULATION RESISTANCE: 5000 MEGOHMS.  
TEMPERATURE RATING: -65°C TO +165°C

	<u>RG 402 (141)</u> <u>SEMI-RIGID</u>	<u>RG 405 (085)</u> <u>SEMI-RIGID</u>
DWV -	1,500 VOLTS RMS.	1,000 VOLTS RMS.
RF HIGH POTENTIAL -	1,000 VOLTS RMS.	670 VOLTS RMS.
CONTACT RESISTANCE -		
CENTER CONTACT:	2.0 MILLIOHMS MAX.	2.0 MILLIOHMS MAX.
OUTER CONTACT:	2.0 MILLIOHMS MAX.	2.0 MILLIOHMS MAX.
OUTER CONTACT TO CABLE:	0.5 MILLIOHMS MAX.	0.5 MILLIOHMS MAX.
VSWR -		
DC - 18.0 GHz:	1.05 + .005F (GHz)	1.05 + .005F (GHz)
CORONA LEVEL -	375 VOLTS MIN.	335 VOLTS MIN.
R.F. LEAKAGE -	-90 dB MIN.	-90 dB MIN.
INSERTION LOSS -	.03 x √F (GHz)	.03 x √F (GHz)

ENVIRONMENTAL

VIBRATION: MIL-STD-202, METHOD 204, TEST CONDITION D.  
SHOCK: MIL-STD-202, METHOD 213, TEST CONDITION I.  
THERMAL SHOCK: MIL-STD-202, METHOD 107, TEST CONDITION B.  
CORROSION: MIL-STD-202, METHOD 101, TEST CONDITION B, 5% SALT SOLUTION.  
MOISTURE RESISTANCE: MIL-STD-202, METHOD 106, OMIT STEP 7B.

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