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COMPONENT	MATERIAL	FINISH	
HOUSING	STAINLESS STEEL PER ASTM-A-482 OR ASTM-A-582, TYPE 303	GOLD PLATED PER ASTM-B-488	
DIELECTRIC	TFE FLUOROCARBON PER ASTM-D-1457	-	
CENTER CONTACT	BRASS PER ASTM B16	GOLD PLATED PER ASTM-B-488	
COUPLING NUT	STAINLESS STEEL PER ASTM-A-482 OR ASTM-A-582, TYPE 303	PASSIVATED PER QQ-P-35	
RETAINING RING	BERYLLIUM COPPER PER PER ASTM-B-194 ALLOY C17200, CONDITION H	-	
GASKET	SILICONE RUBBER PER ZZ-R-765	-	
SHRINK TUBING	HEAT SHRINKABLE POLYOLEFIN COMPOUND PER MIL-I-23053/11	-	
FERRULE	COPPER OR BRASS ALLOY ROCKWELL F65 MAX	GOLD PLATED PER ASTM-B-488	

ENVIRONMENTAL	
TEMPERATURE RATING: -65° C TO +165° C	
VIBRATION: MIL-STD-202, METHOD 204, CONDITION D	
SHOCK: MIL-STD-202, METHOD 213, CONDITION 1	
MOISTURE RESISTANCE: MIL-STD-202, METHOD 106	
CORROSION: MIL-STD-202, METHOD 101, CONDITION B. 5% SALT SPRAY	
THERMAL SHOCK: MIL-STD-202, METHOD 107, CONDITION B EXCEPT HIGH TEMP 85° C	

MECHANICAL	
INTERFACE DIMENSIONS: MIL-STD-348A FIG. 310.1	
RECOMMENDED MATING TORQUE: 7-10 IN-LBS	
FORCE TO ENGAGE & DISENGAGE (IN-LBS MAX): 2.0	
WEIGHT (GRAMS): 2.7	
MATING CHARACTERISTICS: INSERTION (MAX LBS): N/A WITHDRAWAL (MIN OZ): N/A	
CABLE RETENTION: AXIAL FORCE (LBS): 20 TORQUE (IN-OZ): N/A	
CENTER CONTACT CAPTIVATION: AXIAL (LBS): N/A RADIAL (IN-OZ): N/A	

ELECTRICAL	
NORMAL IMPEDANCE (OHMS): 50	
FREQUENCY RANGE (GHz): DC TO 12.4	
VOLT RATING @ SEA LEVEL (VRMS MAX): 250	
VSWR: 1.20: 1 MAX	
INSERTION LOSS: (dB MAX): $.15 \sqrt{f(\text{GHz})@6\text{GHz}}$	
RF LEAKAGE (dB MIN): -60 @ 2-3 GHz	
CORONA 70,000 FT (VRMS MIN): 190	
DIELECTRIC WITHSTANDING VOLTAGE (VRMS MIN) AT SEA LEVEL: 750	
I.R. (MEGOHMS MIN): 5000	
RF HIGH POTENTIAL AT SEA LEVEL (VRMS MIN @ 5 MHz): 500	
CONTACT RESISTANCE (MILLIOHMS MAX):	
CENTER CONTACT: 3.0	
OUTER CONTACT: 2.0	
CABLE TO HOUSING: 0.5	

LOC		DIST		REVISIONS			
P	LTR	DESCRIPTION	DATE	DWN	APVD		
B		REV PER ECO 09-011021	5-7-09	CT	DW		

ASSEMBLED VIEW
SCALE 5:1

DESIGNED TO USE	
RG-188U CABLE	
CABLE ENTRY DIAMETER MIN	
HOUSING:	.066 [1.67]
CONTACT:	.021 [0.53]
FERRULE:	.126 [3.20]

1663515-1

PART NO.

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	12-9-08	Tyco Electronics Corporation	
DIMENSIONS: INCHES [mm]		C.C.THOMAS	12-8-08	Harrisburg, PA 17105-3608	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		D.WILSON	12-9-08	NAME	
0 PLC ± -		D.WILSON	12-9-08	SMA STRAIGHT CABLE PLUG ASSY, SOLDER ATTACHMENT	
1 PLC ± -		PRODUCT SPEC		SIZE	CAGE CODE
2 PLC ± -		APPLICATION SPEC		A2	00779
3 PLC ± -		408-4756		DRAWING NO	RESTRICTED TO
4 PLC ± -		WEIGHT		C=1663515	-
ANGLES ± -		CUSTOMER DRAWING		SCALE	SHEET
MATERIAL SEE TABLE	FINISH SEE TABLE			4:1	1 of 1
				REV	B

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