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DESIGNED FOR USE WITH  
.085 DIA S.R. CABLE  
CABLE ENTRY DIAMETER  
MINIMUM

CONTACT

.021

HOUSING

.089

LOC

AJ

DIST

00

REVISIONS

| P | LTR | DESCRIPTION           | DATE      | DWN | APVD |
|---|-----|-----------------------|-----------|-----|------|
|   | B   | REV PER ECO 07-004710 | 3/15/2007 | DW  | KW   |

REF PLANE

.320  
(8.1mm)

REF

OSM PLUG

.312 HEX  
(7.9 mm)

.440  
(10.1mm)

REF

.250  
(6.4mm)

DIA

| ELECTRICAL                                                  | MECHANICAL                                     | ENVIRONMENTAL                                                              |
|-------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------|
| Nominal Impedance (Ohms) 50                                 | Interface Dimensions MIL-STD-348A              | TEMPERATURE RATING -65°C TO +105°C                                         |
| Frequency Range (GHz) DC to 18.0                            | Fig. 310.1                                     | Vibration MIL-STD-202, Method 204, Condition D                             |
| Volt Rating (VRMS MAX) @ Sea Level 335                      | Recommended Mating Torque 7 to 10 In-LBs       | Shock MIL-STD-202, Method 213, Condition I                                 |
| VSWR 1.05 + .005f(GHz)                                      | Mating Characteristics:                        | Thermal Shock MIL-STD-202, Method 107, Condition B, EXCEPT HIGH TEMP 115°C |
| Insertion Loss (dB MAX) .03 √f(GHz)                         | Insertion (MAX Lbs) N/A                        | Moisture Resistance MIL-STD-202, Method 106                                |
| RF Leakage (dB MIN) -[90-f(GHz)]                            | Withdrawal (MIN Oz) N/A                        | Corrosion - MIL-STD-202, Method 101, Condition B, 5% salt spray            |
| Corona, 70,000 Ft (VRMS MIN) 250                            | Force to Engage and Disengage (In-Lbs MAX) 2.0 |                                                                            |
| Dielectric Withstanding Voltage (VRMS MIN) @ Sea Level 1000 | Center Contact Captivation                     |                                                                            |
| Contact Resistance (Milliohms MAX) Center Contact 3.0       | Axial (Lbs) N/A                                |                                                                            |
| Outer Contact 2.0                                           | Radial (In-Oz) N/A                             |                                                                            |
| Cable to Housing 0.5                                        | Cable Retention                                |                                                                            |
| RF High Potential @ Sea Level (VRMS MIN @ 5 MHz) 670        | Axial Force (Lbs) 30                           |                                                                            |
| I.R.(Megohms MIN) 10,000                                    | Torque (In-Oz) 16                              |                                                                            |
|                                                             | Weight (Grams) T.B.D.                          |                                                                            |

| COMPONENT      | MATERIAL                                                                                        | FINISH                     |
|----------------|-------------------------------------------------------------------------------------------------|----------------------------|
| HOUSING        | STAINLESS STEEL PER ASTM-A484 AND ASTM-A582, TYPE 303                                           | GOLD PLATE PER MIL-G-45204 |
| COUPLING NUT   | STAINLESS STEEL PER ASTM-A484 AND ASTM-A582, TYPE 303                                           | PASSIVATE PER QQ-P-35      |
| DIELECTRIC     | TFE FLUOROCARBON PER ASTM-D-1457                                                                | N/A                        |
| CENTER CONTACT | BERYLLIUM COPPER PER ASTM-B-196 OR ASTM-B-197, ALLOY C17300, CONDITION H OR BRASS PER ASTM-B-16 | GOLD PLATE PER MIL-G-45204 |
| RETAINING RING | BERYLLIUM COPPER PER ASTM-B-194, ALLOY C17200, CONDITION H                                      | N/A                        |
| GASKET         | SILICONE RUBBER PER ZZ-R-765                                                                    | N/A                        |

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:  
INCHES

MATERIAL -

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ± -  
1 PLC ± -  
2 PLC ± -  
3 PLC ± .005  
4 PLC ± -  
ANGLES ± 1°  
FINISH -

DWN RNL 2/28/74  
CHK RMF 2/28/74  
APVD BWC 2/28/74  
PRODUCT SPEC -  
APPLICATION SPEC -  
WEIGHT -  
CUSTOMER DRAWING

tyco  
Electronics

Tyco Electronics Corporation  
Harrisburg, PA 17105-3608

NAME  
OSM STARIGHT CABLE PLUG  
DIRECT SOLDER ATTACHMENT  
-

SIZE  
A2

CAGE CODE  
00779

DRAWING NO  
C=1050532

RESTRICTED TO  
-

SCALE  
5:1

SHEET  
1 of 1

REV  
B

1050532-1

PART NUMBER

1050532

AMP 1471-9 REV 31MAR2000