

| MECHANICAL CHARACTERISTICS | |
|--|-------------------------|
| INTERFACE | MIL-STD-348, FIG. 313-1 |
| IN ACCORDANCE WITH THE INTENT OF SLANT SHEET | MIL-PRF-39012/26 REF. |
| RECOMMENDED MATING TORQUE | 20.0 IN-LBS. NOM. |
| COUPLING PROOF TORQUE | 25 IN-LBS. MIN. |
| COUPLING NUT RETENTION | 60 LBS MIN. |
| FORCE TO ENGAGE | 2.0 IN-LBS. MAX. |
| FORCE TO DISENGAGE | 2.0 IN-LBS. MIN. |
| DURABILITY | 500 CYCLES MIN. |
| AXIAL CONTACT RETENTION (FROM INTERFACE) | 6.0 LBS. MIN. |
| AXIAL CONTACT RETENTION (FROM CABLE) | 6.0 LBS. MIN. |
| CABLE RETENTION | 15 LBS. MIN. |
| MASS (SHEET 1) | 17.96 GRAMS NOM. |
| MASS (SHEET 2 WITH S.S. ELBOW) | 20.64 GRAMS NOM. |

ELECTRICAL CHARACTERISTICS

| | |
|---------------------------------|-------------------------------|
| IMPEDANCE | 50.0 Ohms NOM. |
| MAXIMUM FREQUENCY | 14.0 GHz |
| VSWR DC - 12.4 GHz | 1.15:1 MAX. |
| 12.4 GHz - 14.0 GHz | 1.20:1 MAX |
| INSERTION LOSS | 0.04 \sqrt{f} (GHz) dB MAX. |
| DIELECTRIC WITHSTANDING VOLTAGE | 1500 Vrms MIN. |
| INSULATION RESISTANCE | 5000 MegaOhms MIN. |
| RF LEAKAGE DC - 14 GHz | -90 dB MIN. |
| CORONA | 375 Vrms MIN. @ 70,000 FEET |
| RF HIGH POTENTIAL | 1000 Vrms MIN. |
| CONTACT RESISTANCE (INNER) | 4.0 MilliOhms MAX. |
| CONTACT RESISTANCE (OUTER) | 2.0 MilliOhms MAX. |

ENVIRONMENTAL CHARACTERISTICS

| | |
|-----------------------|---|
| OPERATING TEMPERATURE | -62°C TO 165°C |
| VIBRATION | MIL-STD-202, METHOD 204, CONDITION D |
| MECHANICAL SHOCK | MIL-STD-202, METHOD 213, CONDITION I |
| THERMAL SHOCK | MIL-STD-202, METHOD 107, CONDITION B |
| MOISTURE RESISTANCE | MIL-STD-202, METHOD 106, CONDITION (NO VIBRATION) |
| CORROSION | MIL-STD-202, METHOD 101, CONDITION B, 5% |

MATERIALS AND FINISH

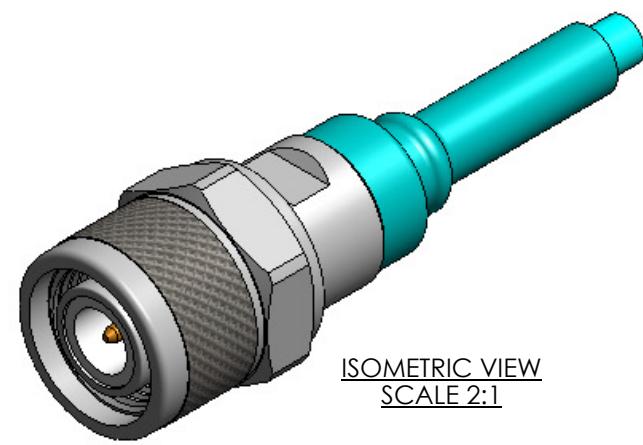
| | |
|---|--|
| CONTACT | BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER MIL-DTL-45204, OVER NICKEL PLATE PER AMS-QQ-N-290. |
| DIELECTRIC BEADS | POLYPHENYLENE SULFIDE, (PPS) PER ASTM-D-6358 |
| BODY, CLAMP NUT, BUSHING & COUPLING NUT | STEEL, CORROSION RESISTANT, PER ASTM-A-582, UNS NO. S30300, PASSIVATE PER ASTM-A-967 |
| GASKET | SILICONE RUBBER PER ZR-765 |
| SNAP RING | BERYLLIUM COPPER, PER ASTM-B-197 |
| CONTACT RING | BRASS, PER ASTM-B-16, GOLD PLATE PER MIL-DTL-45204, OVER NICKEL PLATE PER AMS-QQ-N-290 |
| INSULATOR | TFE FLUOROCARBON, PER ASTM-D-1710 |
| ELBOW | STEEL, CORROSION RESISTANT, PER ASTM-A-269, UNS NO. S30400 (TP 304) OR S30403 (TP 304L), PASSIVATED PER ASTM-A-967 |

APPLICATION

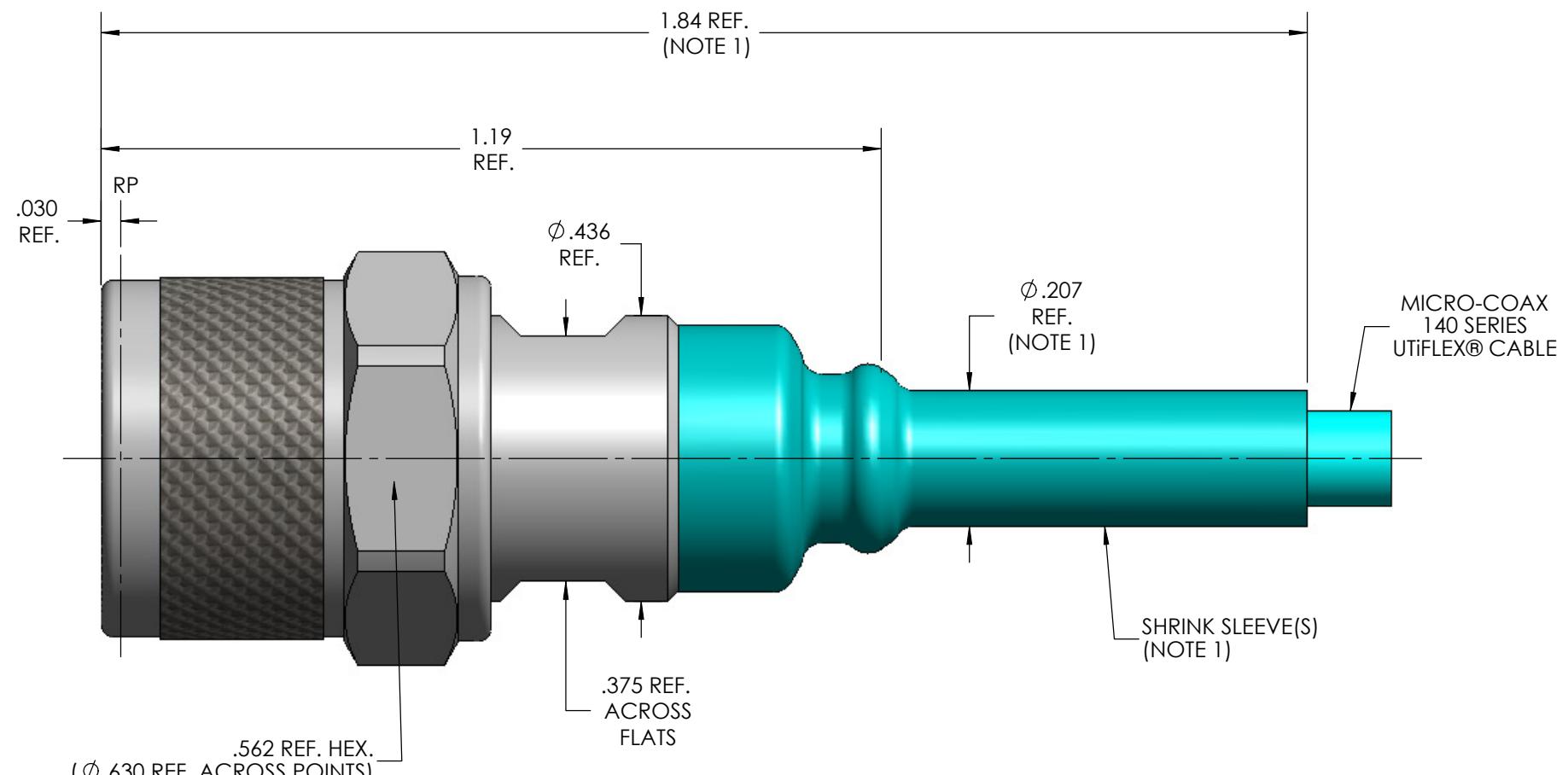
| | |
|-------------------------------------|------------------|
| CABLE(S) | 140 SERIES CABLE |
| INSTALLATION | PER CONFIGURATOR |
| CONNECTOR CODE SHEET 1 | A0U |
| CONNECTOR CODE SHEET 2 - S.S. ELBOW | AGU |
| CONNECTOR CODE SHEET 2 - HSFE | AQU |

THIS DRAWING IS PROPRIETARY AND CONFIDENTIAL.

| REV. | DESCRIPTION | DATE | BY | APPVD |
|------|-----------------|----------|-----|-------|
| A | INITIAL RELEASE | 05/31/05 | SRS | MJK |
| B | ECO 135241 | 5/1/2013 | MJM | RS |



ISOMETRIC VIEW
SCALE 2:1



SPECIFICATION DRAWING

| | | | |
|---|----------|---|--|
| THIS SPECIFICATION IS THE PROPERTY OF MICRO-COAX, INC. AND MAY NOT BE USED OR COPIED WITHOUT THE EXPRESS WRITTEN PERMISSION OF MICRO-COAX, INC. | INITIALS | DATE | |
| DWN. | SRS | 10/25/04 | |
| CHKD. | MJM | 5/2/13 | |
| APPVD. | | | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | | TITLE | |
| .XX | ± .02 | TNC PLUG, 140 SERIES | |
| XXX | ± .005 | ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED. | |
| XXXX | ± .0010 | SCREW THDS. TO BE IN ACCORD WITH ANSI B1.1-1989. | |
| ANGLES | ± 2° | FSCM NO. 64639 SIZE B SCALE 4:1 SHEET NO. 1 OF 2 DRAWING NO. SD904168 REV. B | |

MICRO-COAX®

Leading the way in transmission line solutions.

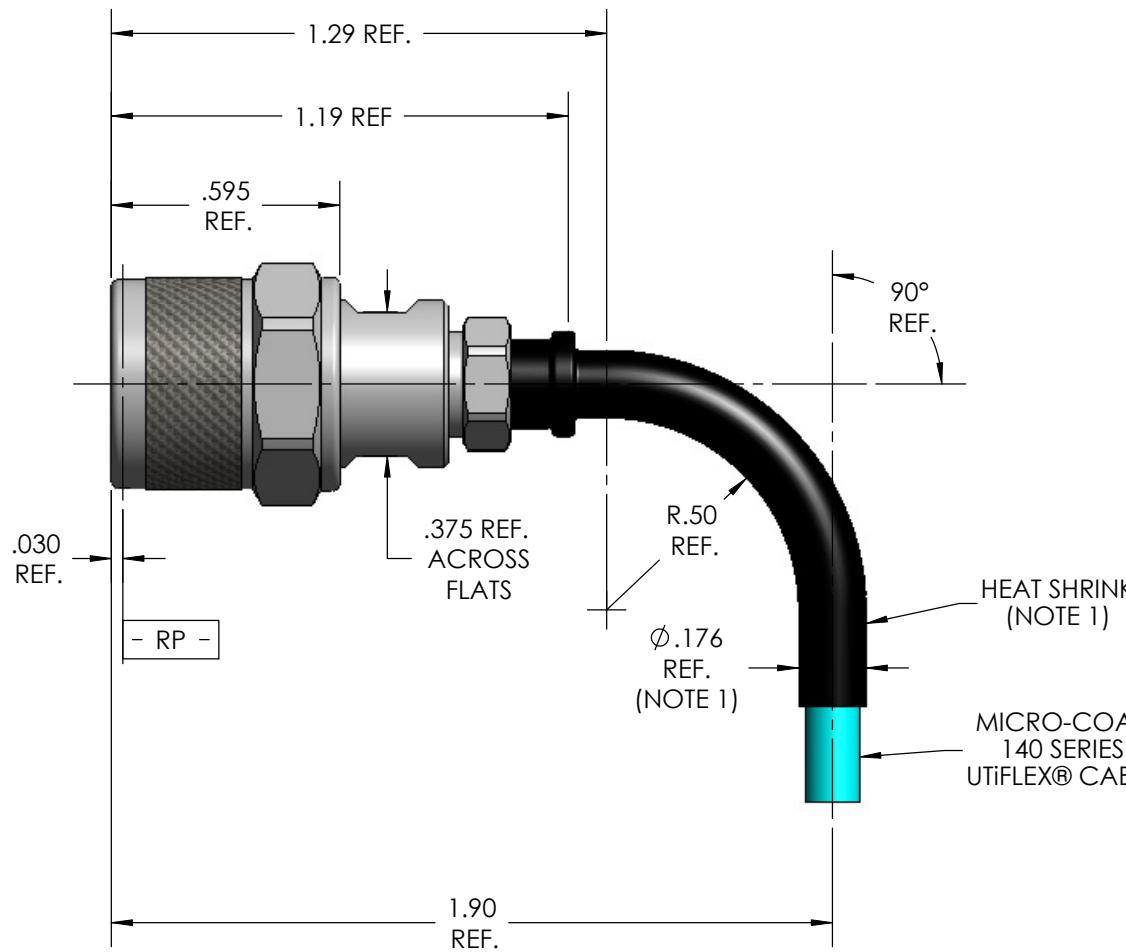
Copyright Micro-Coax, Inc.

NOTE:

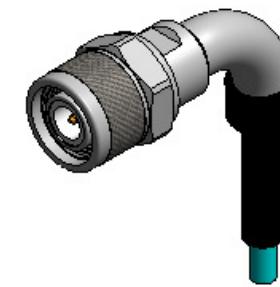
1. MARKER LOCATION ON THIS DRAWING IS FOR REFERENCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE.
2. SEE SHEET 2 FOR 90° S.S. ELBOW AND HEAT SHRINK FORMED ELBOW CONFIGURATIONS.



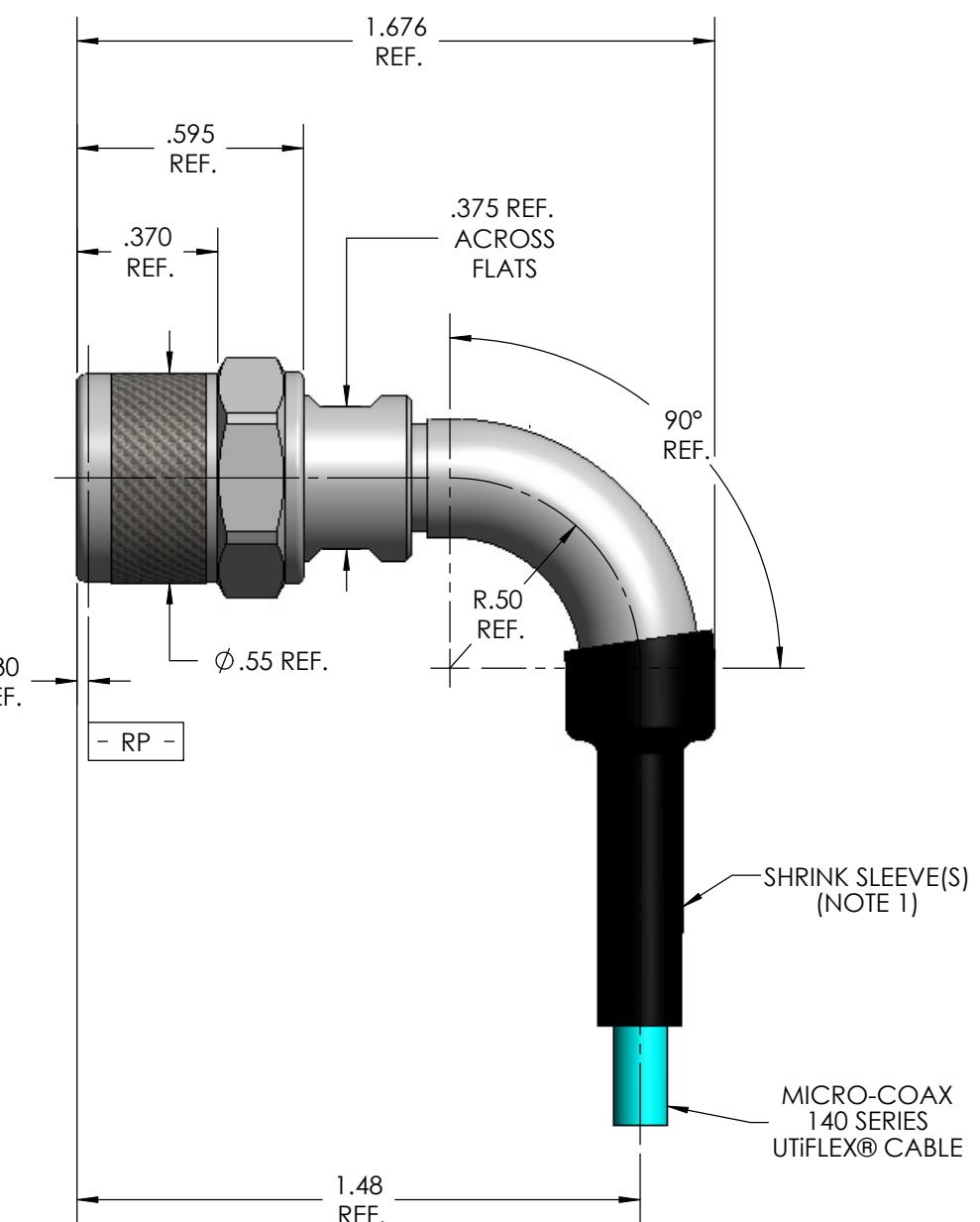
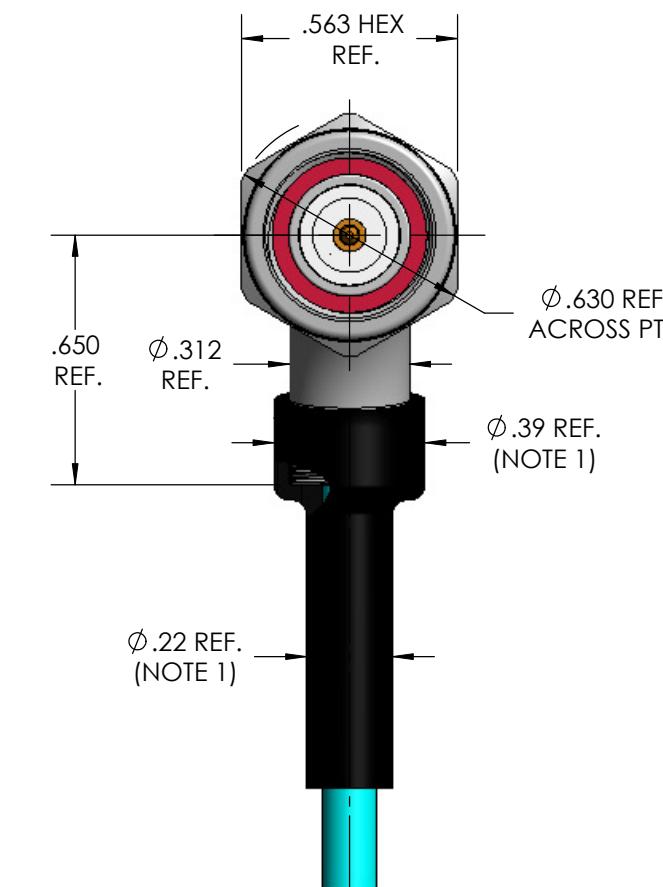
ISOMETRIC VIEW



HEAT SHRINK FORMED ELBOW



ISOMETRIC VIEW
SCALE 1:1



STAINLESS STEEL ELBOW

NOTE:

1. MARKER LOCATION ON THIS DRAWING IS FOR REFERENCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE.

| ALL DIMENSIONS AND TOLERANCES IN INCHES UNLESS OTHERWISE SPECIFIED. | | INITIALS | DATE |
|--|---------|---|------|
| DWN. | SRS | 10/25/04 | |
| CHKD. | MJM | 5/2/13 | |
| XX | ± .02 | APPVD. | |
| XXX | ± .005 | | |
| XXXX | ± .0010 | | |
| ANGLES | ± 2° | | |
| TITLE | | TNC PLUG, 90° STAINLESS STEEL & HEAT SHRINK FORMED ELBOWS, 140 SERIES | |

MICRO-COAX®

Leading the way in transmission line solutions.

Copyright Micro-Coax, Inc.

| | FSCM NO. | SIZE | SCALE | SHEET NO. | DRAWING NO. | REV. |
|--|----------|------|-------|-----------|-------------|------|
| | 64639 | B | 2:1 | 2 OF 2 | SD904168 | B |