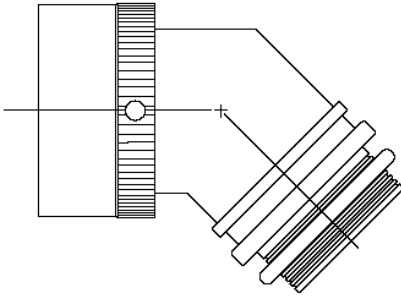


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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|---------------------------|----------|----------|
|                                                                                                                                                                                                                                                                                           |  | LTR       | DESCRIPTION               | DATE     | APPROVED |
|                                                                                                                                                                                                                                                                                           |  | 1         | REVISED PER ECO-13-013899 | 08/19/13 | NSWATKO  |



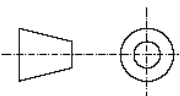
CODE 31  
TINEL-LOCK ADAPTER

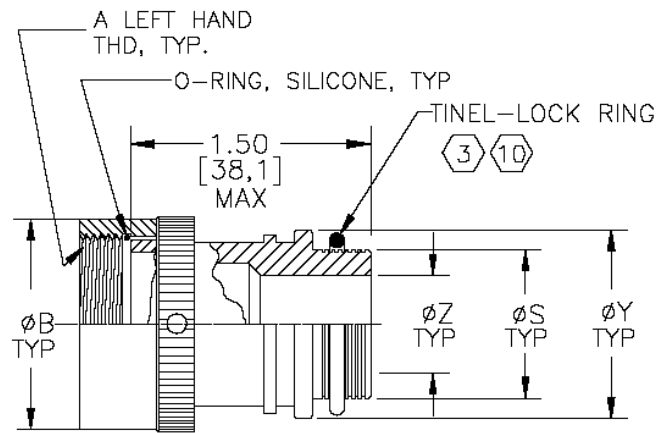
NOTES:

- ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
- SEE CH00-0250-008 FOR ORDERING INFORMATION, MODIFICATIONS, AND ADDITIONAL DIMENSIONS FOR MODIFICATIONS. MODIFICATIONS INDICATED BY TXR\_\_M OR ANY OF THE FOLLOWING LETTERS AT THE END OF PART NUMBER H J L P T S N OR V.
- SEE DRAWING 925078 FOR DETAIL ON TINEL-LOCK RING. THE TINEL RING IS AVAILABLE IN TWO TYPES. RINGS DESIGNED TO BE HEATED ELECTRICALLY HAVE A THIN DIELECTRIC LINING ON THE INSIDE DIAMETER. RINGS TO BE INSTALLED WITH A HOT AIR GUN HAVE NO LINING. ALL RINGS ARE MARKED WITH THERMOCROMIC PAINT WHICH CHANGES COLOR WHEN INSTALLATION TEMPERATURE IS REACHED.
- TEMPERATURE RANGE FOR ALUMINIUM ALLOY: -65° C TO +150° C
- ADAPTER TO BE PERMANENTLY MARKED WITH ASSEMBLY PN LESS RING DESIGNATOR (E.G.: TXR31AB00-1204) AND CODE IDENT. NO. (06090).
- CONSULT FACTORY FOR OPTIONAL ENTRIES, MATERIALS, MODIFICATIONS, FINISHES AND BRAID DESIGNATORS.
- ALL INTERNAL EDGES SHALL BE ROUNDED
- FOR LARGER ENTRY SIZES. A 2 PIECE ADAPTER (TYPE II) IS SUPPLIED
- THIS PRODUCT IS DESIGNED TO TERMINATE A BRAIDED CABLE SHIELD AND A HEAT SHRINKABLE LIPPED BOOT TO A CONNECTOR.
- RINGS SHALL BEAR NO MARKING
- ADAPTER MATES TO BENDIX OWL AND CANNON CWL SERIES CONNECTORS.
- ANTI-ROTATION SET SCREW PROVIDED.

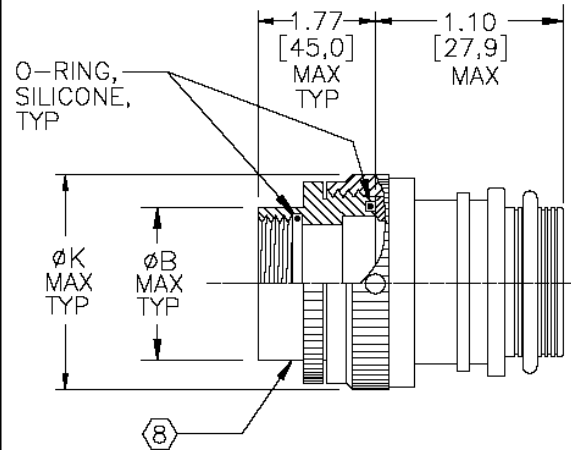
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**Raychem Adapters**  
 CUSTOMER DRAWING

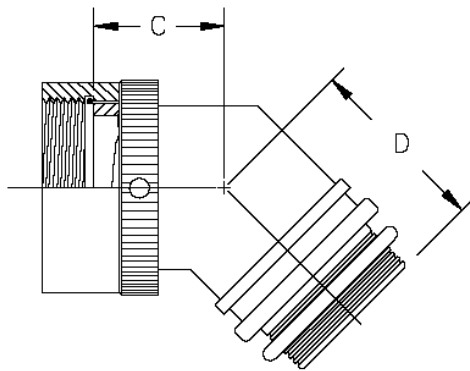
|                                                                                                                                                                           |  |                                                                                                                  |                                                       |                                                                                                      |                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------|
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>AND TOLERANCES ARE:<br>.XXX ± .005 [0,13]mm<br>.XX ± .01 [0,25]mm<br>.X ± 0.1 [0,50]mm<br>ANGLES<br>.X ± 1 DEG. |  | DRAWN<br>KARTHIK M<br>CHECKED<br>NICK S<br>APPROVED<br>—                                                         | DATE<br>08-19-2013<br>DATE<br>08-19-2013<br>DATE<br>— |  TE Connectivity |                     |
| MATERIAL<br>—                                                                                                                                                             |  | THIRD ANGLE<br>PROJECTION<br> |                                                       | TITLE<br>TINEL-LOCK™ ADAPTER                                                                         |                     |
| FINISH<br>—                                                                                                                                                               |  | CAD NAME<br>TXR31 CD<br>RPN:<br>—                                                                                |                                                       | SIZE<br>A                                                                                            | CAGE CODE:<br>06090 |
|                                                                                                                                                                           |  |                                                                                                                  |                                                       | DWG. NO.<br>TXR31                                                                                    | REV<br>1            |
|                                                                                                                                                                           |  | SCALE:<br>NONE                                                                                                   |                                                       | SHEET 1 OF 3                                                                                         |                     |



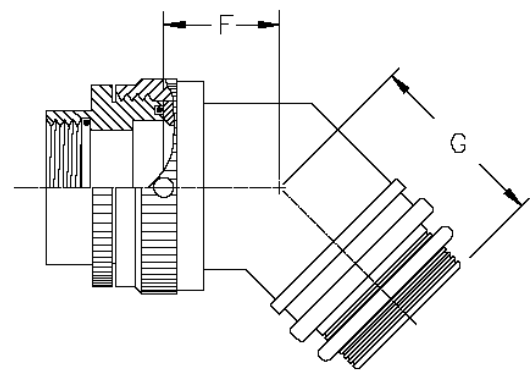
STRAIGHT ADAPTER-TYPE I



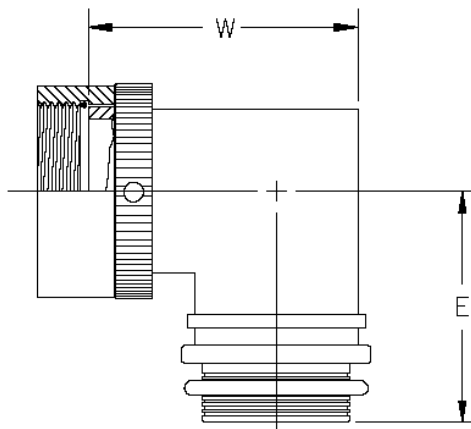
STRAIGHT ADAPTER-TYPE II



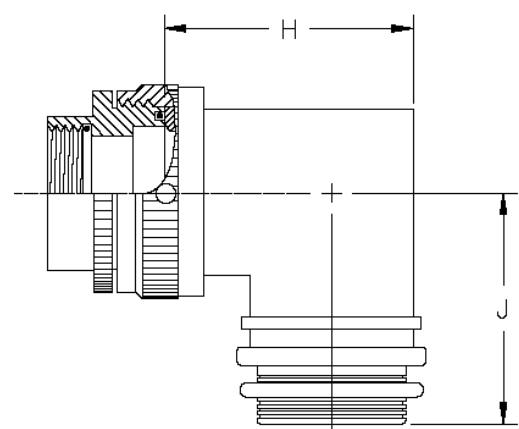
45° ADAPTER-TYPE I



45° ADAPTER-TYPE II



90° ADAPTER-TYPE I



90° ADAPTER-TYPE II

**Raychem Adapters**  
CUSTOMER DRAWING

|             |                     |                   |          |
|-------------|---------------------|-------------------|----------|
| SIZE<br>A   | CAGE CODE:<br>06090 | DWG. NO.<br>TXR31 | REV<br>1 |
| SCALE: NONE |                     | SHEET 2 OF 3      |          |

| TABLE 1   |                    |                                 |                                |                 |                |                |                |                |
|-----------|--------------------|---------------------------------|--------------------------------|-----------------|----------------|----------------|----------------|----------------|
| ORDER NO. | SHELL SIZE<br>(11) | MAX ENTRY SIZE<br>(8)<br>TYPE 1 | A<br>LEFT HAND THD<br>CLASS 2B | B<br>DIA<br>MAX | C<br>MAX       | D<br>MAX       | E<br>MAX       | W<br>MAX       |
| 10        | 10                 | 04                              | .500-28 UNEF                   | .82<br>(20,8)   | 1.12<br>(28,4) | .98<br>(24,9)  | 1.26<br>(32,0) |                |
| 12        | 12 & 13            | 06                              | .625-24 UNEF                   | .95<br>(24,1)   | 1.13<br>(28,7) | .99<br>(25,1)  | 1.29<br>(32,8) | 1.81<br>(46,0) |
| 14        | 14 & 15            | 08                              | .750-20 UNEF                   | 1.07<br>(27,2)  | 1.14<br>(29,0) | 1.00<br>(25,4) | 1.32<br>(33,5) | 1.94<br>(49,3) |
| 16        | 16 & 17            | 10                              | .875-20 UNEF                   | 1.19<br>(30,2)  | 1.17<br>(29,7) | 1.02<br>(25,9) | 1.39<br>(35,3) | 2.06<br>(52,3) |
| 18        | 18                 | 12                              | 1.000-20 UNEF                  | 1.32<br>(33,5)  | 1.18<br>(30,0) | 1.03<br>(26,2) | 1.46<br>(37,1) | 2.19<br>(55,6) |
| 20        | 20                 | 14                              | 1.125-18 UNEF                  | 1.44<br>(36,6)  | 1.21<br>(30,7) | 1.06<br>(26,9) | 1.52<br>(38,6) | 2.36<br>(60,0) |
| 22        | 22                 | 16                              | 1.250-18 UNEF                  | 1.57<br>(39,9)  | 1.23<br>(31,2) | 1.09<br>(27,7) | 1.58<br>(40,1) | 2.74<br>(69,6) |
| 24        | 24                 | 18                              | 1.375-18 UNEF                  | 1.69<br>(42,9)  | 1.26<br>(32,0) | 1.11<br>(28,2) | 1.64<br>(41,7) | 2.99<br>(76,0) |
| 28        | 28                 | 22                              | 1.625-18 UNEF                  | 2.07<br>(52,6)  | 1.32<br>(33,5) | 1.18<br>(30,0) | 1.83<br>(46,5) | 3.11<br>(79,0) |
| 32        | 32                 | 24                              | 1.875-16 UN                    | 2.32<br>(58,9)  | 1.37<br>(34,8) | 1.23<br>(31,2) | 1.96<br>(49,8) | 3.11<br>(79,0) |
| 36        | 36                 | 24                              | 2.062-16 UNS                   | 2.57<br>(65,3)  | 1.43<br>(36,3) | 1.28<br>(32,5) | 2.08<br>(52,8) | 3.11<br>(79,0) |
| 40        | 40                 | 24                              | 2.312-16 UNS                   | 2.82<br>(71,6)  | 1.46<br>(37,0) | 1.33<br>(33,8) | 2.21<br>(56,1) | 3.11<br>(79,0) |
| 44        | 44                 | 24                              | 2.625-16 UN                    | 3.07<br>(78,0)  | 1.53<br>(38,9) | 1.39<br>(35,3) | 2.32<br>(58,9) | 3.36<br>(85,4) |
| 48        | 48                 | 24                              | 2.875-16 UN                    | 3.39<br>(86,1)  | 1.59<br>(40,4) | 1.45<br>(36,8) | 2.51<br>(63,8) |                |

| TABLE 2    |                     |                                |                      |                |                |                |                |                |
|------------|---------------------|--------------------------------|----------------------|----------------|----------------|----------------|----------------|----------------|
| ENTRY SIZE | Z<br>+.010<br>-.020 | S<br>DIA                       | Y<br>±.015<br>±.0381 | F<br>MAX       | G<br>MAX       | J<br>MAX       | H<br>MAX       | K<br>MAX       |
| 04         | .250<br>(6,35)      | .376 (9,56)<br>.370 (9,39)     | .550<br>(13,97)      | N/A            | N/A            | N/A            | N/A            | N/A            |
| 05         | .312<br>(7,92)      | .438 (11,13)<br>.432 (10,97)   | .612<br>(15,54)      | .77<br>(19,6)  | .93<br>(23,6)  | 1.16<br>(29,5) | 1.19<br>(30,2) | .80<br>(20,3)  |
| 06         | .375<br>(9,52)      | .501 (12,73)<br>.495 (12,57)   | .675<br>(17,14)      | .77<br>(19,6)  | .93<br>(23,6)  | 1.16<br>(29,5) | 1.19<br>(30,2) | .80<br>(20,3)  |
| 07         | .437<br>(11,09)     | .563 (14,31)<br>.556 (14,12)   | .737<br>(18,71)      | .80<br>(20,3)  | .95<br>(24,1)  | 1.22<br>(31,0) | 1.38<br>(35,1) | .92<br>(23,4)  |
| 08         | .500<br>(12,70)     | .626 (15,91)<br>.619 (15,72)   | .800<br>(20,32)      | .80<br>(20,3)  | .95<br>(24,1)  | 1.22<br>(31,0) | 1.38<br>(35,1) | .92<br>(23,4)  |
| 10         | .625<br>(15,87)     | .752 (19,11)<br>.742 (18,84)   | .925<br>(23,49)      | .84<br>(21,3)  | 1.00<br>(25,4) | 1.35<br>(34,3) | 1.51<br>(38,4) | 1.18<br>(30,0) |
| 12         | .750<br>(19,05)     | .877 (22,28)<br>.867 (22,02)   | 1.050<br>(26,67)     | .86<br>(21,8)  | 1.01<br>(25,7) | 1.40<br>(35,6) | 1.63<br>(41,4) | 1.35<br>(34,3) |
| 14         | .875<br>(22,23)     | 1.002 (25,46)<br>.991 (25,17)  | 1.175<br>(29,84)     | .88<br>(22,4)  | 1.04<br>(26,4) | 1.46<br>(37,1) | 1.78<br>(45,2) | 1.41<br>(35,8) |
| 16         | 1.000<br>(25,40)    | 1.127 (28,63)<br>1.116 (28,34) | 1.300<br>(33,02)     | .91<br>(23,1)  | 1.06<br>(26,9) | 1.53<br>(38,9) | 1.88<br>(47,8) | 1.60<br>(40,6) |
| 18         | 1.125<br>(28,57)    | 1.252 (31,81)<br>1.241 (31,52) | 1.425<br>(36,19)     | .93<br>(23,6)  | 1.09<br>(27,7) | 1.59<br>(40,4) | 2.01<br>(51,1) | 1.66<br>(42,2) |
| 20         | 1.250<br>(31,75)    | 1.377 (34,98)<br>1.366 (34,69) | 1.550<br>(39,37)     | .98<br>(24,9)  | 1.13<br>(28,7) | 1.78<br>(45,2) | 2.13<br>(54,1) | 2.04<br>(51,8) |
| 22         | 1.375<br>(34,93)    | 1.502 (38,15)<br>1.488 (37,79) | 1.675<br>(42,55)     | 1.03<br>(26,2) | 1.38<br>(35,1) | 1.85<br>(47,0) | 2.29<br>(58,2) | 2.23<br>(56,6) |
| 24         | 1.500<br>(38,10)    | 1.627 (41,33)<br>1.613 (40,97) | 1.800<br>(45,72)     | 1.08<br>(27,4) | 1.44<br>(36,6) | 1.92<br>(48,8) | 2.42<br>(61,5) | 2.23<br>(56,6) |

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|-------------|---------------------|-------------------|----------|
| SIZE<br>A   | CAGE CODE:<br>06090 | DWG. NO.<br>TXR31 | REV<br>1 |
| SCALE: NONE |                     | SHEET 3 OF 3      |          |