



## CODE 41 - TINEL-LOCK BACKSHELL

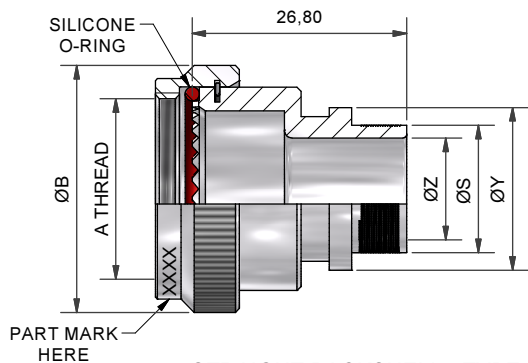
TXR41AB00-1608AI-S

SERIES  
 TXR: RING INCLUDED  
 (SEE RING OPTION)  
 TX: RING NOT INCLUDED  
 CONNECTOR INTERFACE  
 MATERIAL  
 REFER TO CH00-0250-008  
 FINISH  
 REFER TO CH00-0250-008  
 ANGLE  
 DASH NUMBER (TABLE 1)  
 ENTRY SIZE (TABLE 2)  
 RING OPTION  
 AI - TO SUIT SINGLE BRAID  
 BI - TO SUIT DOUBLE BRAID  
 FOR TX, LEAVE BLANK  
 MODIFICATION CODE  
 REFER TO CH00-0250-008

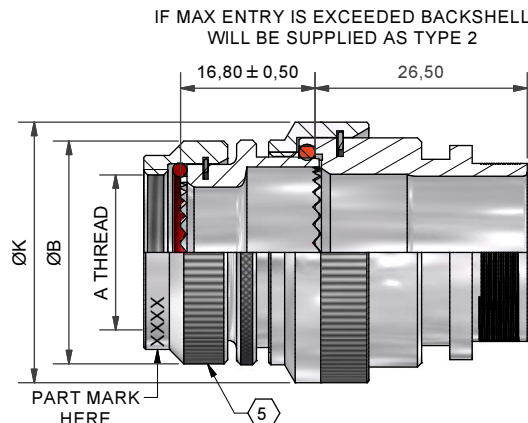
### NOTES:

1. THIS PRODUCT IS DESIGNED TO TERMINATE A BRAIDED CABLE SHIELD AND A HEAT SHRINKABLE LIPPED BOOT TO A CONNECTOR.
2. FOR ADDITIONAL DIMENSIONS, ORDERING INFORMATION AND MODIFICATIONS, SEE CH00-0250-008.
3. SEE DRAWING TR FOR DETAIL ON TINEL-LOCK RING, RINGS ARE DESIGNED TO BE HEATED ELECTRICALLY, ALL RINGS ARE MARKED WITH THERMOCHROMIC PAINT WHICH CHANGES COLOUR WHEN INSTALLATION TEMPERATURE IS REACHED.
4. BACKSHELL TO BE PERMANENTLY MARKED/BAGGED AND LABELLED WITH CODE IDENTIFICATION NUMBER AND PART NUMBER LESS RING DESIGNATOR. (e.g. 06090-TXR41AB00-1206). RING SHALL BEAR NO MARKING.
5. FOR LARGER ENTRY SIZES, A 2 PIECE BACKSHELL ASSEMBLY (TYPE 2) IS SUPPLIED.
6. BACKSHELL MATES TO MIL-DTL-38999, SERIES I AND II, CLASS E AND T, MS27466, MS27467, MS27468, MS27472, MS27473, MS27474, MS27479, MS27480, MS27481, MS27484, MS27497, MS27652, MS27653, MS27656 CONNECTORS.
7. THESE DIMENSIONS APPLY IF A SELF-LOCKING COUPLING NUT IS USED.

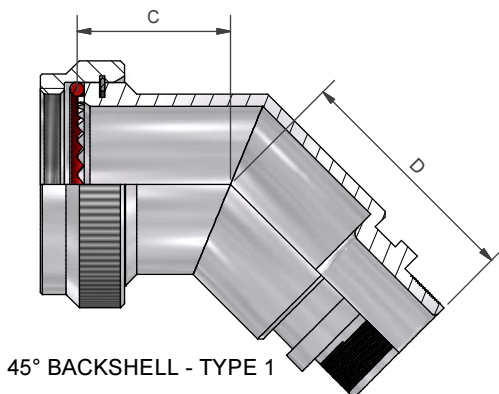
|                                                    |                           |      |            |                                                                                                                                |                                                                                                                                                                                                                          |  |                                                                                                                                                                                           |                   |          |          |
|----------------------------------------------------|---------------------------|------|------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------|----------|
| DRAWN                                              | K.WINCZURA                | DATE | 04/12/2014 |  3RD ANGLE<br>PROJECTION<br>NOT TO<br>SCALE | TITLE:<br><br>TINEL-LOCK BACKSHELL                                                                                                                                                                                       |  | <br>Polamco<br> |                   |          |          |
| CHECKED                                            |                           | DATE | 04/12/2014 |                                                                                                                                |                                                                                                                                                                                                                          |  |                                                                                                                                                                                           |                   |          |          |
| APPROVED                                           | K.SHEPPARD                | DATE | 04/12/2014 |                                                                                                                                | ASSY USED ON:<br><br>MIL-DTL-38999 SERIES I & II                                                                                                                                                                         |  |                                                                                                                                                                                           |                   |          |          |
| APPROVED                                           | H.SMITH                   | DATE | 16/02/2015 |                                                                                                                                |                                                                                                                                                                                                                          |  |                                                                                                                                                                                           |                   |          |          |
| REVISIONS                                          |                           |      |            | UNLESS OTHERWISE SPECIFIED<br>ALL DIMENSIONS IN MILLIMETRES<br>GENERAL TOL<br>LINEAR +/-0.25MM<br>ANGULAR +/- 1°               | TE CONNECTIVITY - POLAMCO LTD RESERVES THE RIGHT TO AMEND THIS DRAWING<br>AND THE INFORMATION SET FORTH HEREON AT ANY TIME. USERS SHOULD<br>INDEPENDENTLY EVALUATE THE SUITABILITY OF THE PRODUCT FOR THEIR APPLICATION. |  | DRAWING NO:<br>TXR41                                                                                                                                                                      | DRAWING REV:<br>J | SHT<br>1 |          |
| LTR                                                | DESCRIPTION               |      | DATE       |                                                                                                                                |                                                                                                                                                                                                                          |  |                                                                                                                                                                                           |                   |          | APPROVED |
| H                                                  | REVISED PER ECO-12-021161 |      | 04.12.12   |                                                                                                                                |                                                                                                                                                                                                                          |  |                                                                                                                                                                                           |                   |          | G.WELLS  |
| J                                                  | REVISED PER ECO-15-002319 |      | 16.02.15   |                                                                                                                                |                                                                                                                                                                                                                          |  |                                                                                                                                                                                           |                   |          | H.SMITH  |
| TE CAGE CODE: 06090<br>POLAMCO/TE CAGE CODE: U5792 |                           |      |            |                                                                                                                                |                                                                                                                                                                                                                          |  |                                                                                                                                                                                           |                   |          |          |



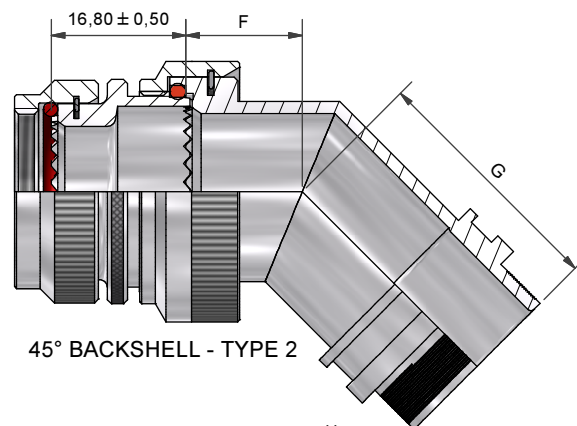
STRAIGHT BACKSHELL - TYPE 1



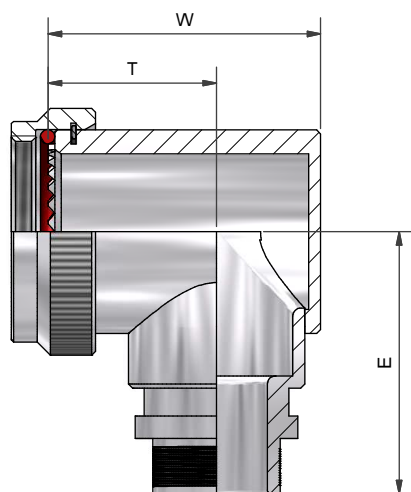
STRAIGHT BACKSHELL - TYPE 2



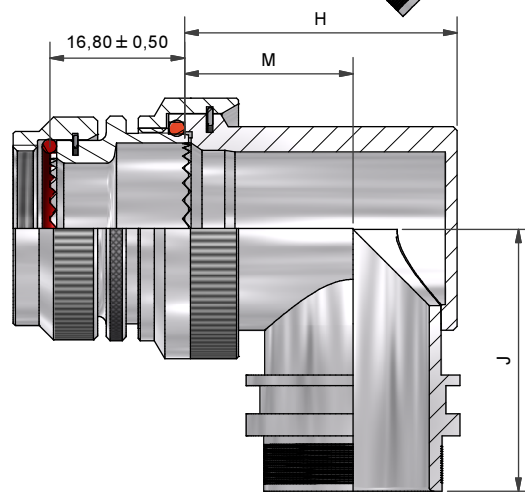
45° BACKSHELL - TYPE 1



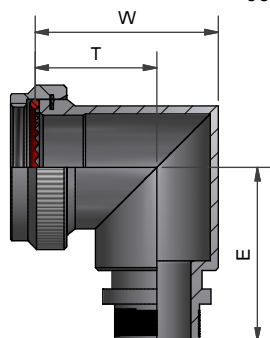
45° BACKSHELL - TYPE 2



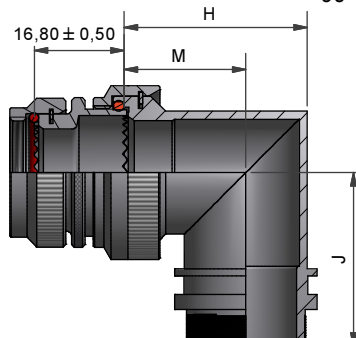
90° BACKSHELL - TYPE 1



90° BACKSHELL - TYPE 2



90° BACKSHELL - TYPE 1  
STAINLESS STEEL AND  
NICKEL ALUMINIUM BRONZE



90° BACKSHELL - TYPE 2  
STAINLESS STEEL AND  
NICKEL ALUMINIUM BRONZE

|                                                    |                           |          |            |
|----------------------------------------------------|---------------------------|----------|------------|
| DRAWN                                              | K.WINCZURA                | DATE     | 04/12/2014 |
| CHECKED                                            |                           | DATE     | 04/12/2014 |
| APPROVED                                           | K.SHEPPARD                | DATE     | 04/12/2014 |
| APPROVED                                           | H.SMITH                   | DATE     | 16/02/2015 |
| REVISIONS                                          |                           |          |            |
| LTR                                                | DESCRIPTION               | DATE     | APPROVED   |
| H                                                  | REVISED PER ECO-12-021161 | 04.12.12 | G.WELLS    |
| J                                                  | REVISED PER ECO-15-002319 | 16.02.15 | H.SMITH    |
| TE CAGE CODE: 06090<br>POLAMCO/TE CAGE CODE: U5792 |                           |          |            |



3RD ANGLE  
PROJECTION  
NOT TO  
SCALE

UNLESS OTHERWISE SPECIFIED  
ALL DIMENSIONS IN MILLIMETRES  
GENERAL TOL  
LINEAR  $\pm 0,25\text{MM}$   
ANGULAR  $\pm 1^\circ$

TITLE:

TINEL-LOCK BACKSHELL

ASSY USED ON:

MIL-DTL-38999 SERIES I & II

TE CONNECTIVITY - POLAMCO LTD RESERVES THE RIGHT TO AMEND THIS DRAWING  
AND THE INFORMATION SET FORTH HEREON AT ANY TIME. USERS SHOULD  
INDEPENDENTLY EVALUATE THE SUITABILITY OF THE PRODUCT FOR THEIR APPLICATION.

DRAWING NO:  
TXR41

DRAWING REV:  
J

SHT  
2



# MODIFICATION S (SELF-LOCKING COUPLING NUT)



BACKSHELL - TYPE 1



BACKSHELL - TYPE 2

TABLE 1

| ORDER NO. | SHELL SIZE SER I / SER II | A THREAD      | ØB MAX | ØB MAX (7) | MAX ENTRY | THESE DIMENSIONS APPLY IF BACKSHELL IS STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE |        |        |        |        |        |        |        |
|-----------|---------------------------|---------------|--------|------------|-----------|-----------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|
|           |                           |               |        |            |           | C ±0,5                                                                            | D ±0,5 | W ±0,5 | T ±0,5 | E ±0,5 | W ±0,5 | T ±0,5 | E ±0,5 |
| 08        | 9 / 8                     | 7/16-28UNEF   | 18,3   | 18,0       | 04        | 16,4                                                                              | 26,8   | 21,0   | 14,0   | 26,20  | 21,3   | 16,4   | 26,4   |
| 10        | 11 / 10                   | 9/16-24UNEF   | 21,5   | 21,0       | 07        | 17,2                                                                              | 27,5   | 24,0   | 15,5   | 27,95  | 24,4   | 17,3   | 28,2   |
| 12        | 13 / 12                   | 11/16-24UNEF  | 24,5   | 25,0       | 08        | 17,6                                                                              | 28,0   | 27,0   | 17,0   | 29,45  | 28,4   | 19,5   | 29,7   |
| 14        | 15 / 14                   | 13/16-20UNEF  | 27,8   | 28,0       | 10        | 18,5                                                                              | 29,0   | 31,0   | 19,5   | 31,00  | 31,2   | 21,0   | 31,2   |
| 16        | 17 / 16                   | 15/16-20UNEF  | 30,8   | 31,0       | 12        | 19,2                                                                              | 29,7   | 34,0   | 21,0   | 32,70  | 34,3   | 22,8   | 32,9   |
| 18        | 19 / 18                   | 1 1/16-18UNEF | 34,1   | 34,0       | 14        | 19,6                                                                              | 30,5   | 35,0   | 20,0   | 34,25  | 38,6   | 25,3   | 34,5   |
| 20        | 21 / 20                   | 1 3/16-18UNEF | 37,3   | 37,0       | 16        | 20,4                                                                              | 30,9   | 38,0   | 21,5   | 35,80  | 40,8   | 26,1   | 36,1   |
| 22        | 23 / 22                   | 1 5/16-18UNEF | 40,5   | 40,0       | 18        | 20,8                                                                              | 31,1   | 42,0   | 24,0   | 37,40  | 43,8   | 27,6   | 37,6   |
| 24        | 25 / 24                   | 1 7/16-18UNEF | 43,7   | 43,5       | 20        | 21,7                                                                              | 32,1   | 45,0   | 25,5   | 38,90  | 46,5   | 29,1   | 39,1   |

TABLE 2

| ENTRY SIZE | ØZ MIN | ØS            | ØY ± 0,3 | ØK MAX | ØK MAX (7) | THESE DIMENSIONS APPLY IF BACKSHELL IS STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE |        |        |        |        |        |        |        |
|------------|--------|---------------|----------|--------|------------|-----------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|
|            |        |               |          |        |            | F ±0,5                                                                            | G ±0,5 | H ±0,5 | M ±0,5 | J ±0,5 | H ±0,5 | M ±0,5 | J ±0,5 |
| 04         | 6,35   | 9,49 +/-0,04  | 14,00    | NA     | NA         | NA                                                                                | NA     | NA     | NA     | NA     | NA     | NA     | NA     |
| 05         | 7,92   | 11,06 +/-0,04 | 15,50    | 21,0   | 24,6       | 12,5                                                                              | 27,5   | 24,0   | 15,5   | 27,95  | 24,3   | 17,2   | 28,2   |
| 06         | 9,53   | 12,66 +/-0,04 | 17,10    | 21,0   | 24,6       | 12,5                                                                              | 27,5   | 24,0   | 15,5   | 27,95  | 24,3   | 17,2   | 28,2   |
| 07         | 11,10  | 14,21 +/-0,07 | 18,70    | 21,0   | 24,6       | 12,5                                                                              | 27,5   | 24,0   | 15,5   | 27,95  | 24,3   | 17,2   | 28,2   |
| 08         | 12,70  | 15,81 +/-0,07 | 20,30    | 24,5   | 28,3       | 13,1                                                                              | 28,0   | 27,0   | 17,0   | 29,45  | 28,3   | 19,4   | 29,7   |
| 10         | 15,88  | 18,96 +/-0,08 | 23,50    | 29,0   | 32,4       | 13,5                                                                              | 29,0   | 31,0   | 19,5   | 31,00  | 31,1   | 21,0   | 31,2   |
| 12         | 19,05  | 22,14 +/-0,08 | 26,70    | 32,5   | 35,6       | 14,5                                                                              | 29,7   | 34,0   | 21,0   | 32,70  | 34,2   | 22,8   | 32,9   |
| 14         | 22,23  | 25,30 +/-0,08 | 29,80    | 35,5   | 38,5       | 15,5                                                                              | 30,5   | 35,0   | 20,0   | 34,25  | 38,5   | 25,3   | 34,5   |
| 16         | 25,40  | 28,48 +/-0,08 | 33,00    | 37,0   | 41,7       | 16,1                                                                              | 30,9   | 38,0   | 21,5   | 35,80  | 40,7   | 26,1   | 36,1   |
| 18         | 28,58  | 31,65 +/-0,08 | 36,20    | 40,0   | 43,9       | 16,5                                                                              | 31,1   | 42,0   | 24,0   | 37,40  | 43,7   | 27,6   | 37,6   |
| 20         | 31,75  | 34,83 +/-0,08 | 39,40    | 43,5   | 47,0       | 17,0                                                                              | 32,1   | 45,0   | 25,5   | 38,90  | 46,4   | 29,1   | 39,1   |
| 22         | 34,93  | 37,98 +/-0,08 | 42,50    | 48,5   | 50,0       | 18,5                                                                              | 35,3   | 54,5   | 31,0   | 42,00  | 50,0   | 31,0   | 42,0   |
| 24         | 38,10  | 41,15 +/-0,08 | 45,70    | 52,1   | 56,0       | 21,9                                                                              | 38,1   | 58,0   | 33,0   | 46,00  | 53,5   | 33,0   | 46,0   |

|                                                    |                           |      |            |                                                                                                                                   |                                                                                                                                                                                                                          |  |  |  |                                                                                                                                                                                               |                   |          |
|----------------------------------------------------|---------------------------|------|------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------|
| DRAWN                                              | K.WINCZURA                | DATE | 04/12/2014 | <br>3RD ANGLE<br>PROJECTION<br>NOT TO<br>SCALE | TITLE:<br><br>TINEL-LOCK BACKSHELL                                                                                                                                                                                       |  |  |  | <br>Polamco<br><br> |                   |          |
| CHECKED                                            |                           | DATE | 04/12/2014 |                                                                                                                                   |                                                                                                                                                                                                                          |  |  |  |                                                                                                                                                                                               |                   |          |
| APPROVED                                           | K.SHEPPARD                | DATE | 04/12/2014 |                                                                                                                                   | UNLESS OTHERWISE SPECIFIED<br>ALL DIMENSIONS IN MILLIMETRES<br>GENERAL TOL<br>LINEAR +/-0.25MM<br>ANGULAR +/- 1°                                                                                                         |  |  |  |                                                                                                                                                                                               |                   |          |
| APPROVED                                           | H.SMITH                   | DATE | 16/02/2015 |                                                                                                                                   |                                                                                                                                                                                                                          |  |  |  |                                                                                                                                                                                               |                   |          |
| REVISIONS                                          |                           |      |            |                                                                                                                                   | ASSY USED ON:<br><br>MIL-DTL-38999 SERIES I & II                                                                                                                                                                         |  |  |  |                                                                                                                                                                                               |                   |          |
| LTR                                                | DESCRIPTION               |      | DATE       | APPROVED                                                                                                                          |                                                                                                                                                                                                                          |  |  |  |                                                                                                                                                                                               |                   |          |
| H                                                  | REVISED PER ECO-12-021161 |      | 04.12.12   | G.WELLS                                                                                                                           |                                                                                                                                                                                                                          |  |  |  |                                                                                                                                                                                               |                   |          |
| J                                                  | REVISED PER ECO-15-002319 |      | 16.02.15   | H.SMITH                                                                                                                           |                                                                                                                                                                                                                          |  |  |  |                                                                                                                                                                                               |                   |          |
| TE CAGE CODE: 06090<br>POLAMCO/TE CAGE CODE: U5792 |                           |      |            |                                                                                                                                   | TE CONNECTIVITY - POLAMCO LTD RESERVES THE RIGHT TO AMEND THIS DRAWING<br>AND THE INFORMATION SET FORTH HEREON AT ANY TIME. USERS SHOULD<br>INDEPENDENTLY EVALUATE THE SUITABILITY OF THE PRODUCT FOR THEIR APPLICATION. |  |  |  | DRAWING NO:<br>TXR41                                                                                                                                                                          | DRAWING REV:<br>J | SHT<br>3 |