



## CODE 40 - TINEL-LOCK BACKSHELL

**TXR40AB00-1608AI-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 <sup>2</sup>

### NOTES:

1. THIS PRODUCT IS DESIGNED TO TERMINATE A BRAIDED CABLE SHIELD AND A HEAT SHRINKABLE LIPPED BOOT TO A CONNECTOR.
- <sup>2</sup> FOR ADDITIONAL DIMENSIONS, ORDERING INFORMATION AND MODIFICATIONS, SEE CH00-0250-008.
- <sup>3</sup> 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-TXR40AB00-1206). RING SHALL BEAR NO MARKING.
- <sup>5</sup> FOR LARGER ENTRY SIZES, A 2 PIECE BACKSHELL ASSEMBLY (TYPE 2) IS SUPPLIED.
6. BACKSHELL MATES TO MIL-DTL-38999, SERIES III AND IV, CLASS C, F, K, AND W, D38999/20, /24, /26, /40, /46 AND /47 CONNECTORS, AND WHEN SO MATED SHALL PROVIDE A WATER-TIGHT SEAL MEETING THE REQUIREMENTS OF MIL-C-85049, PARA. 3. 5. 7.
- <sup>7</sup> THESE DIMENSIONS APPLY IF A SELF-LOCKING COUPLING NUT IS USED.

|  |                           |             |                 |   |  |                      |  |                                    |                                 |                        |
|--|---------------------------|-------------|-----------------|---|--|----------------------|--|------------------------------------|---------------------------------|------------------------|
| <b>DRAWN</b>                                       | K.WINCZURA                | DATE        | 04/12/2014      | <br>3RD ANGLE PROJECTION<br>NOT TO SCALE | <b>TITLE:</b>  | TINEL-LOCK BACKSHELL | <br><b>Polamco</b><br> |                                    |                                 |                        |
| <b>CHECKED</b>                                     |                           | DATE        | 04/12/2014      |   |  |                      |  |                                    |                                 |                        |
| <b>APPROVED</b>                                    | K.SHEPPARD                | DATE        | 04/12/2014      |   | UNLESS OTHERWISE SPECIFIED<br>ALL DIMENSIONS IN MILLIMETRES<br><b>GENERAL TOL</b><br>LINEAR +/-0.25MM<br>ANGULAR +/- 1°  | <b>ASSY USED ON:</b> |  | MIL-DTL-38999 SERIES III & IV      |                                 |                        |
| <b>APPROVED</b>                                    | H.SMITH                   | DATE        | 15/06/2015      |   |  |                      |  |                                    |                                 |                        |
| <b>REVISIONS</b>                                   |                           |             |                 |   |  |                      |  |                                    |                                 |                        |
| <b>LTR</b>   | <b>DESCRIPTION</b>        | <b>DATE</b> | <b>APPROVED</b> |   |  |                      |  |                                    |                                 |                        |
| K  | REVISED PER ECO-15-002200 | 11.02.15    | H.SMITH         |   |  |                      |  |                                    |                                 |                        |
| L  | REVISED PER ECO-17-009011 | 21.06.17    | D.JONES         |   |  |                      |  |                                    |                                 |                        |
| TE CAGE CODE: 06090<br>POLAMCO/TE CAGE CODE: U5792 |                           |             |                 |   | 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. |                      |  | <b>DRAWING NO:</b><br><b>TXR40</b> | <b>DRAWING REV:</b><br><b>L</b> | <b>SHT</b><br><b>1</b> |



STRAIGHT BACKSHELL - TYPE 1



STRAIGHT BACKSHELL - TYPE 2

IF MAX ENTRY IS EXCEEDED BACKSHELL WILL BE SUPPLIED AS 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 | <br>3RD ANGLE<br>PROJECTION<br>NOT TO<br>SCALE |
| CHECKED  |                           | DATE     | 04/12/2014 |  |
| APPROVED   | K.SHEPPARD                | DATE     | 04/12/2014 |  |
| APPROVED   | H.SMITH                   | DATE     | 15/06/2015 |  |
| UNLESS OTHERWISE SPECIFIED<br>ALL DIMENSIONS IN MILLIMETRES<br>GENERAL TOL<br>LINEAR +/-0.25MM<br>ANGULAR +/- 1° |                           |          |            |  |
| <b>REVISIONS</b>   |                           |          |            |  |
| LTR  | DESCRIPTION               | DATE     | APPROVED   |  |
| K  | REVISED PER ECO-15-002200 | 11.02.15 | H.SMITH    |  |
| L  | REVISED PER ECO-17-009011 | 21.06.17 | D.JONES    |  |

|                      |                               |
|----------------------|-------------------------------|
| <b>TITLE:</b>        | TINEL-LOCK BACKSHELL          |
| <b>ASSY USED ON:</b> | MIL-DTL-38999 SERIES III & IV |



TE CAGE CODE: 06090  
POLAMCO/TE CAGE CODE: U5792

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|             |              |     |
|-------------|--------------|-----|
| DRAWING NO: | DRAWING REV: | SHT |
| TXR40       | L            | 2   |

# MODIFICATION S (SELF-LOCKING COUPLING NUT)



BACKSHELL - TYPE 1



BACKSHELL - TYPE 2

TABLE 1

| ORDER NO. | SHELL SIZE COM'L / MIL | A THREAD  | ØB MAX | ØB MAX $\langle 7 \rangle$ | MAX ENTRY | C $\pm 0,5$ | D $\pm 0,5$ | W $\pm 0,5$ | T $\pm 0,5$ | E $\pm 0,5$ | THESE DIMENSIONS APPLY IF BACKSHELL IS STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE |             |             |
|-----------|------------------------|-----------|--------|----------------------------|-----------|-------------|-------------|-------------|-------------|-------------|---|-------------|-------------|
|           |                        |           |        |                            |           |             |             |             |             |             | W $\pm 0,5$   | T $\pm 0,5$ | E $\pm 0,5$ |
| 08        | 9 / A                  | M12 x 1.0 | 18,0   | 21,5                       | 04        | 12,0        | 26,8        | 21,0        | 14,0        | 26,20       | 21,2  | 16,3        | 26,4        |
| 10        | 11 / B                 | M15 x 1.0 | 21,0   | 24,6                       | 07        | 12,5        | 27,5        | 24,0        | 15,5        | 27,95       | 24,3  | 17,2        | 28,2        |
| 12        | 13 / C                 | M18 x 1.0 | 24,5   | 28,3                       | 08        | 13,1        | 28,0        | 27,0        | 17,0        | 29,45       | 28,3  | 19,4        | 29,7        |
| 14        | 15 / D                 | M22 x 1.0 | 29,0   | 32,4                       | 10        | 13,5        | 29,0        | 31,0        | 19,5        | 31,00       | 31,1  | 21,0        | 31,2        |
| 16        | 17 / E                 | M25 x 1.0 | 32,5   | 35,6                       | 12        | 14,5        | 29,7        | 34,0        | 21,0        | 32,70       | 34,2  | 22,8        | 32,9        |
| 18        | 19 / F                 | M28 x 1.0 | 35,5   | 38,5                       | 14        | 15,5        | 30,5        | 35,0        | 20,0        | 34,25       | 38,5  | 25,3        | 34,5        |
| 20        | 21 / G                 | M31 x 1.0 | 37,0   | 41,7                       | 16        | 16,1        | 30,9        | 38,0        | 21,5        | 35,80       | 40,7  | 26,1        | 36,1        |
| 22        | 23 / H                 | M34 x 1.0 | 40,0   | 43,9                       | 18        | 16,5        | 31,1        | 42,0        | 24,0        | 37,40       | 43,7  | 27,6        | 37,6        |
| 24        | 25 / J                 | M37 x 1.0 | 43,5   | 47,0                       | 20        | 17,0        | 32,1        | 45,0        | 25,5        | 38,90       | 46,4  | 29,1        | 39,1        |

TABLE 2

| ENTRY SIZE | ØZ MIN | ØS            | ØY $\pm 0,3$ | ØK MAX | ØK MAX $\langle 7 \rangle$ | F $\pm 0,5$ | G $\pm 0,5$ | H $\pm 0,5$ | M $\pm 0,5$ | J $\pm 0,5$ | THESE DIMENSIONS APPLY IF BACKSHELL IS STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE |             |             |
|------------|--------|---------------|--------------|--------|----------------------------|-------------|-------------|-------------|-------------|-------------|---|-------------|-------------|
|            |        |               |              |        |                            |             |             |             |             |             | H $\pm 0,5$   | M $\pm 0,5$ | J $\pm 0,5$ |
| 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 |   |
| CHECKED  |            | DATE | 04/12/2014 |   |
| APPROVED | K.SHEPPARD | DATE | 04/12/2014 | UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS IN MILLIMETRES<br>GENERAL TOL<br>LINEAR +/-0,25MM<br>ANGULAR +/- 1° |
| APPROVED | H.SMITH    | DATE | 15/06/2015 |   |

| REVISIONS |                           |          |          |
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|                      |  |  |  |
|----------------------|--|--|--|
| <b>TITLE:</b>        |  | <b>TINEL-LOCK BACKSHELL</b>              |  |
| <b>ASSY USED ON:</b> |  | <b>MIL-DTL-38999 SERIES III &amp; IV</b> |  |



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|              |              |          |
|--------------|--------------|----------|
| DRAWING NO:  | DRAWING REV: | SHT      |
| <b>TXR40</b> | <b>L</b>     | <b>3</b> |