



## 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 (2)

### 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-TXR40AB00-1206). 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 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.
- (7) THESE DIMENSIONS APPLY IF A SELF-LOCKING COUPLING NUT IS USED.

|                                                    |                           |                    |                                                                                                                                   |                                                                                                                                                                                                                          |                                                                                                  |                                                                                                             |
|----------------------------------------------------|---------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| DRAWN                                              | K.WINCZURA                | DATE<br>04/12/2014 | <br>3RD ANGLE<br>PROJECTION<br>NOT TO<br>SCALE | TITLE:<br><br>TINEL-LOCK BACKSHELL                                                                                                                                                                                       | <br>Polamco |                                                                                                             |
| CHECKED                                            |                           | 04/12/2014         |                                                                                                                                   |                                                                                                                                                                                                                          |                                                                                                  |                                                                                                             |
| APPROVED                                           | K.SHEPPARD                | 04/12/2014         |                                                                                                                                   | UNLESS OTHERWISE SPECIFIED<br>ALL DIMENSIONS IN MILLIMETRES<br><b>GENERAL TOL</b><br>LINEAR +/-0.25MM<br>ANGULAR +/- 1°                                                                                                  | ASSY USED ON:<br><br>MIL-DTL-38999 SERIES III & IV                                               | <br>TE<br>connectivity |
| APPROVED                                           | H.SMITH                   | 15/06/2015         |                                                                                                                                   |                                                                                                                                                                                                                          |                                                                                                  |                                                                                                             |
| REVISIONS                                          |                           |                    |                                                                                                                                   |                                                                                                                                                                                                                          |                                                                                                  |                                                                                                             |
| LTR                                                | DESCRIPTION               | DATE               | APPROVED                                                                                                                          |                                                                                                                                                                                                                          |                                                                                                  |                                                                                                             |
| K                                                  | REVISED PER ECO-15-002200 | 11.02.15           | H.SMITH                                                                                                                           |                                                                                                                                                                                                                          |                                                                                                  |                                                                                                             |
| L                                                  | REVISED PER ECO-17-009011 | 21.06.17           | DJONES                                                                                                                            |                                                                                                                                                                                                                          |                                                                                                  |                                                                                                             |
| 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>TXR40                                                                             |                                                                                                             |
|                                                    |                           |                    |                                                                                                                                   | DRAWING REV:<br>L                                                                                                                                                                                                        | SHT<br>1                                                                                         |                                                                                                             |



STRAIGHT BACKSHELL - TYPE 1



STRAIGHT BACKSHELL - TYPE 2



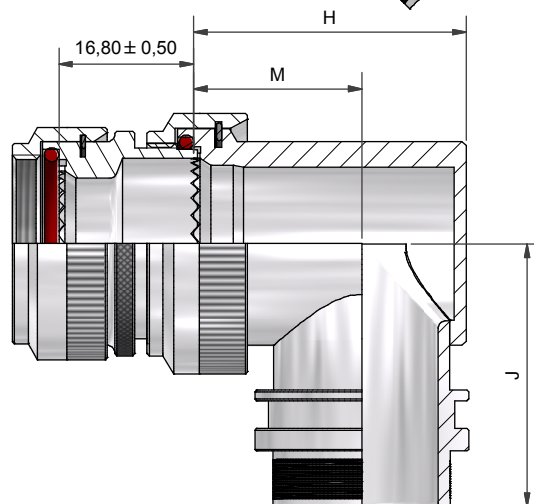
45° BACKSHELL - TYPE 1



45° BACKSHELL - TYPE 2



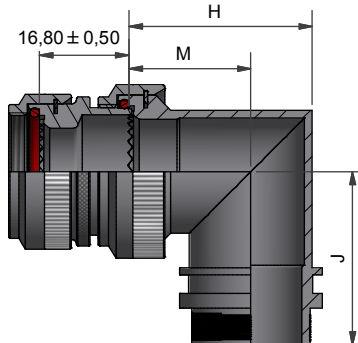
90° BACKSHELL - TYPE 1



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     | 15/06/2015 |
| REVISIONS                                          |                           |          |            |
| 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    |
| TE CAGE CODE: 06090<br>POLAMCO/TE CAGE CODE: U5792 |                           |          |            |

|                                                                                                                                                                                                                    |  |                      |              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------|--------------|
| TITLE:                                                                                                                                                                                                             |  |                      |              |
| TINEL-LOCK BACKSHELL                                                                                                                                                                                               |  |                      |              |
| ASSY USED ON:                                                                                                                                                                                                      |  |                      |              |
| MIL-DTL-38999 SERIES III & IV                                                                                                                                                                                      |  |                      |              |
| 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:<br>TXR40 | DRAWING<br>L |

|                                                                                       |                    |     |  |
|---------------------------------------------------------------------------------------|--------------------|-----|--|
|  |                    |     |  |
|                                                                                       | TE<br>connectivity |     |  |
| 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 |             |             |
|-----------|------------------------|------------------|--------|----------------------------|-----------|-------------|-------------|-------------|-------------|-------------|-----------------------------------------------------------------------------------|-------------|-------------|
| 08        | 9 / A                  | M12 $\times$ 1.0 | 18,0   | 21,5                       | 04        | 12,0        | 26,8        | 21,0        | 14,0        | 26,20       | W $\pm 0,5$                                                                       | T $\pm 0,5$ | E $\pm 0,5$ |
| 10        | 11 / B                 | M15 $\times$ 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 $\times$ 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 $\times$ 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 $\times$ 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 $\times$ 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 $\times$ 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 $\times$ 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 $\times$ 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 |             |             |
|------------|--------|------------------|--------------|--------|----------------------------|-------------|-------------|-------------|-------------|-------------|-----------------------------------------------------------------------------------|-------------|-------------|
| 04         | 6,35   | 9,49 $\pm 0,04$  | 14,00        | NA     | NA                         | NA          | NA          | NA          | NA          | NA          | H $\pm 0,5$                                                                       | M $\pm 0,5$ | J $\pm 0,5$ |
| 05         | 7,92   | 11,06 $\pm 0,04$ | 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 $\pm 0,04$ | 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 $\pm 0,07$ | 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 $\pm 0,07$ | 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 $\pm 0,08$ | 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 $\pm 0,08$ | 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 $\pm 0,08$ | 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 $\pm 0,08$ | 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 $\pm 0,08$ | 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 $\pm 0,08$ | 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 $\pm 0,08$ | 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 $\pm 0,08$ | 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 PROJECTION NOT TO SCALE<br><br>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS IN MILLIMETRES<br>GENERAL TOL<br>LINEAR $\pm 0,25$ MM<br>ANGULAR $\pm 1^\circ$ |
| CHECKED                                            |                           | DATE     | 04/12/2014 |                                                                                                                                                                       |
| APPROVED                                           | K.SHEPPARD                | DATE     | 04/12/2014 |                                                                                                                                                                       |
| APPROVED                                           | H.SMITH                   | DATE     | 15/06/2015 |                                                                                                                                                                       |
| REVISIONS                                          |                           |          |            |                                                                                                                                                                       |
| 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    |                                                                                                                                                                       |
| TE CAGE CODE: 06090<br>POLAMCO/TE CAGE CODE: U5792 |                           |          |            |                                                                                                                                                                       |

|                                                                                                                                                                                                                    |  |                                                                                                                                                                                           |                   |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------|
| TITLE:                                                                                                                                                                                                             |  | <br>Polamco<br> |                   |          |
| TINEL-LOCK BACKSHELL                                                                                                                                                                                               |  |                                                                                                                                                                                           |                   |          |
| ASSY USED ON:                                                                                                                                                                                                      |  | MIL-DTL-38999 SERIES III & IV                                                                                                                                                             |                   |          |
|                                                                                                                                                                                                                    |  |                                                                                                                                                                                           |                   |          |
| 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:<br>TXR40                                                                                                                                                                      | DRAWING REV:<br>L | SHT<br>3 |