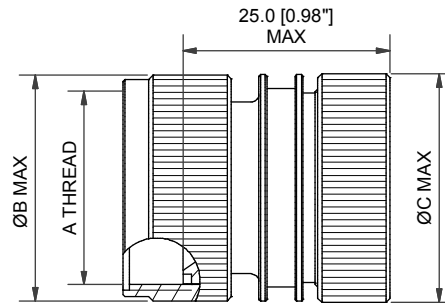
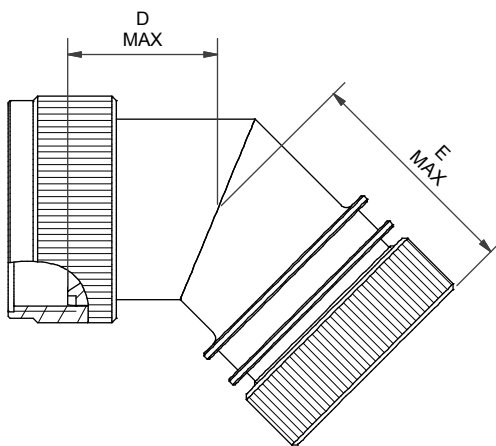
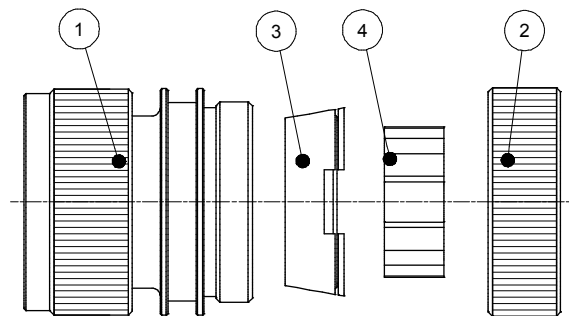


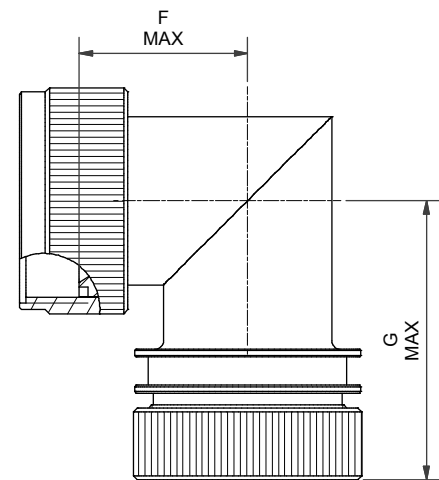
# SPECIFICATION CONTROL DRAWING



STRAIGHT BODY STYLE - 00



45° BODY STYLE - 45



90° BODY STYLE - 90

|                                                    |                           |            |            |                                                                                                                                                                                                                          |                                                                               |  |                                                                                                                                                                                                           |                                        |
|----------------------------------------------------|---------------------------|------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| DRAWN                                              | K.KUTA-WINCZURA           | DATE       | 28/07/2017 |  3RD ANGLE PROJECTION<br>NOT TO SCALE                                                                                                 | TITLE:<br>HEXASHIELD BACKSHELL FOR CODE 54<br>CONNECTORS, PLAIN CLAMPLING NUT |  | <br>Polamco<br><br>connectivity |                                        |
| CHECKED                                            |                           | DATE       | 28/07/2017 |                                                                                                                                                                                                                          |                                                                               |  |                                                                                                                                                                                                           |                                        |
| APPROVED                                           | K.SHEPPARD                | DATE       | 30/07/2017 |                                                                                                                                                                                                                          | ASSY USED ON:<br><br>SEE APPLICATION NOTE                                     |  |                                                                                                                                                                                                           |                                        |
| APPROVED                                           | K.SHEPPARD                | DATE       | 11/12/2017 |                                                                                                                                                                                                                          |                                                                               |  |                                                                                                                                                                                                           |                                        |
| REVISIONS                                          |                           |            |            | UNLESS OTHERWISE SPECIFIED<br>ALL DIMENSIONS IN MILLIMETRES<br>GENERAL TOL<br>LINEAR +/-0.25MM<br>ANGULAR +/- 1°                                                                                                         |                                                                               |  |                                                                                                                                                                                                           |                                        |
| LTR                                                | DESCRIPTION               | DATE       | APPROVED   |                                                                                                                                                                                                                          |                                                                               |  |                                                                                                                                                                                                           |                                        |
| B                                                  | REVISED PER D060254       | 17/08/2006 |            |                                                                                                                                                                                                                          |                                                                               |  |                                                                                                                                                                                                           |                                        |
| C                                                  | REVISED PER ECO-17-017923 | 11/12/2017 | K.SHEPPARD |                                                                                                                                                                                                                          |                                                                               |  |                                                                                                                                                                                                           |                                        |
| 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>HEX54-AY-YY-YY-AYY-1-YY |

# SPECIFICATION CONTROL DRAWING

## KIT DESCRIPTION

| ITEM | DESCRIPTION          | MATERIAL        |
|------|----------------------|-----------------|
| 1    | BODY ASSEMBLY        | ALUMINIUM ALLOY |
| 2    | CLAMPING NUT - PLAIN | ALUMINIUM ALLOY |
| 3    | CONIC RING           | ALUMINIUM ALLOY |
| 4    | STAR                 | ALUMINIUM ALLOY |

## TABLE OF DIMENSIONS

| Order Number | Shell Size (see overleaf) |        | A Thread UNF/UNEF-2B | ØB MAX          | ØC MAX          | D MAX           | E MAX           | F MAX           | G MAX           | Ferrule Quantity |       |       |
|--------------|---------------------------|--------|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|-------|-------|
|              | Type A                    | Type B |                      |                 |                 |                 |                 |                 |                 | Std.             | Opt.1 | Opt.2 |
| 09           | 08                        | N/A    | 0.5000"-20           | 16.0<br>[0.63"] | 17.5<br>[0.69"] | 12.5<br>[0.49"] | 25.5<br>[1.00"] | 16.0<br>[0.63"] | 29.0<br>[1.14"] | 1                | -     | -     |
| 11           | 10                        | N/A    | 0.6250"-24           | 22.0<br>[0.87"] | 21.5<br>[0.85"] | 13.0<br>[0.51"] | 26.0<br>[1.02"] | 17.5<br>[0.69"] | 30.5<br>[1.20"] | 2                | -     | -     |
| 13           | 12                        | 07     | 0.7500"-20           | 25.0<br>[0.98"] | 22.5<br>[0.89"] | 14.0<br>[0.55"] | 26.5<br>[1.04"] | 19.0<br>[0.75"] | 32.0<br>[1.26"] | 3                | -     | -     |
| 15           | 14                        | 12     | 0.8750"-20           | 30.0<br>[1.18"] | 25.5<br>[1.00"] | 14.5<br>[0.57"] | 27.5<br>[1.08"] | 20.5<br>[0.81"] | 33.5<br>[1.32"] | 5                | -     | -     |
| 17           | 16                        | 19     | 1.0000"-20           | 33.0<br>[1.30"] | 28.5<br>[1.12"] | 15.0<br>[0.59"] | 28.0<br>[1.10"] | 22.0<br>[0.87"] | 35.0<br>[1.38"] | 6                | 7     | -     |
| 19           | 18                        | 27     | 1.0625"-18           | 37.0<br>[1.46"] | 31.5<br>[1.24"] | 15.5<br>[0.61"] | 28.5<br>[1.12"] | 23.5<br>[0.93"] | 36.5<br>[1.44"] | 7                | -     | -     |
| 21           | 20                        | 37     | 1.1875"-18           | 38.0<br>[1.50"] | 35.0<br>[1.38"] | 16.5<br>[0.65"] | 29.0<br>[1.14"] | 25.5<br>[1.00"] | 38.5<br>[1.52"] | 9                | 11    | -     |
| 23           | 22                        | N/A    | 1.3125"-18           | 41.0<br>[1.61"] | 38.0<br>[1.50"] | 17.0<br>[0.67"] | 30.0<br>[1.18"] | 27.0<br>[1.06"] | 40.0<br>[1.57"] | 10               | 13    | -     |
| 25           | 24                        | N/A    | 1.4375"-18           | 46.0<br>[1.81"] | 41.0<br>[1.61"] | 18.0<br>[0.71"] | 31.0<br>[1.22"] | 28.5<br>[1.12"] | 41.5<br>[1.63"] | 12               | 17    | -     |
| 61           | N/A                       | 61     | 1.5000"-18           | 42.0<br>[1.65"] | 41.0<br>[1.61"] | 18.0<br>[0.71"] | 31.0<br>[1.22"] | 31.0<br>[1.22"] | 41.5<br>[1.63"] | 12               | 17    | 18    |

## PART NUMBERING

**HEX54-AC-00-21-A9-1-DS**  
 SERIES \_\_\_\_\_  
 CONNECTOR INTERFACE \_\_\_\_\_  
 MATERIAL \_\_\_\_\_  
     A - ALUMINIUM ALLOY  
 FINISH \_\_\_\_\_  
     C - ELECTROLESS NICKEL TO MIL-C-26074  
     B - CADMIUM OLIVE DRAB OVER  
     ELECTROLESS NICKEL TO QQ-P416  
 BODY STYLE \_\_\_\_\_  
     00 = STRAIGHT  
     45 = 45°  
     90 = 90°  
 ORDER NUMBER \_\_\_\_\_  
 FERRULE QUANTITY CODE \_\_\_\_\_  
 BACK END OPTION \_\_\_\_\_  
     1 - PLAIN CLAMPING NUT  
 STAR STYLE \_\_\_\_\_  
     DS - DRILLED STAR (SEE NOTE 2)  
     OMIT FOR PLAIN STAR

|           |                 |      |            |                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| DRAWN     | K.KUTA-WINCZURA | DATE | 28/07/2017 | <br>3RD ANGLE<br>PROJECTION<br>NOT TO<br>SCALE<br><br>UNLESS OTHERWISE SPECIFIED<br>ALL DIMENSIONS IN MILLIMETRES<br><b>GENERAL TOL</b><br>LINEAR +/-0.25MM<br>ANGULAR +/- 1° | TITLE:<br><br>HEXASHIELD BACKSHELL FOR CODE 54<br>CONNECTORS, PLAIN CLAMPLING NUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| CHECKED   |                 | DATE | 28/07/2017 |                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| APPROVED  | K.SHEPPARD      | DATE | 30/07/2017 |                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| APPROVED  | K.SHEPPARD      | DATE | 11/12/2017 |                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| REVISIONS |                 |      |            |                                                                                                                                                                                                                                                                  | ASSY USED ON:<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><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|                                                                                                                                                                                               |

# SPECIFICATION CONTROL DRAWING

## APPLICATION:

- These adaptors are designed to be mounted on the following connectors:

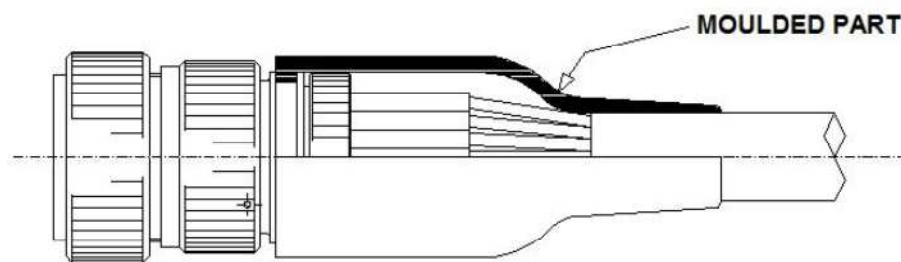
MIL-C-26482 Series II  
MIL-C-83723 Series I and III  
MIL-C-5015  
HE312

Shell Size Type A

MIL-C-81703 Series III  
HE312  
DBAD

Shell Size Type B

- They are qualified to the Raychem specification RB-114, when installed on metallic Mil-Specification circular connectors only.
- They are designed primarily for open wire bundle installation but are also designed to accept Raychem heat shrink moulded parts where strain relief is required - see illustration.



- Use in conjunction with the ferrules HET-A-0XX, which are purchased separately. Refer to HET-A-0XX S.C.D. for relevant selection details.

## INSTALLATION:

- See Installation Procedure RPIP-696-04.

## PACKAGING:

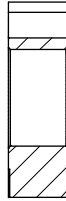
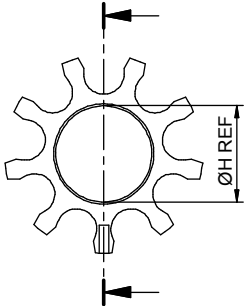
- All components are supplied in a plastic bag.

|                                                                                                                                                                                                                          |                           |                           |                                                                                                                                   |                                                                                          |                                                                                                                                                                                                                                   |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>DRAWN</b>                                                                                                                                                                                                             | K.KUTA-WINCZURA           | <b>DATE</b><br>28/07/2017 | <br>3RD ANGLE<br>PROJECTION<br>NOT TO<br>SCALE | <b>TITLE:</b><br><br>HEXASHIELD BACKSHELL FOR CODE 54<br>CONNECTORS, PLAIN CLAMPLING NUT | <br><b>Polamco</b><br><br><br><b>TE</b><br>connectivity |          |
| <b>CHECKED</b>                                                                                                                                                                                                           |                           | 28/07/2017                |                                                                                                                                   |                                                                                          |                                                                                                                                                                                                                                   |          |
| <b>APPROVED</b>                                                                                                                                                                                                          | K.SHEPPARD                | 30/07/2017                |                                                                                                                                   |                                                                                          |                                                                                                                                                                                                                                   |          |
| <b>APPROVED</b>                                                                                                                                                                                                          | K.SHEPPARD                | 11/12/2017                |                                                                                                                                   |                                                                                          |                                                                                                                                                                                                                                   |          |
| <b>REVISIONS</b>                                                                                                                                                                                                         |                           |                           | <b>ASSY USED ON:</b><br><br><br><br><br><br><br><b>SEE APPLICATION NOTE</b>                                                       |                                                                                          |                                                                                                                                                                                                                                   |          |
| <b>LTR</b>                                                                                                                                                                                                               | <b>DESCRIPTION</b>        | <b>DATE</b>               |                                                                                                                                   | <b>APPROVED</b>                                                                          |                                                                                                                                                                                                                                   |          |
| <b>B</b>                                                                                                                                                                                                                 | REVISED PER D060254       | 17/08/2006                |                                                                                                                                   |                                                                                          |                                                                                                                                                                                                                                   |          |
| <b>C</b>                                                                                                                                                                                                                 | REVISED PER ECO-17-017923 | 11/12/2017                |                                                                                                                                   | K.SHEPPARD                                                                               |                                                                                                                                                                                                                                   |          |
| 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>HEX54-AY-YY-YY-AYY-1-YY                                                   | DRG REV:<br>C                                                                                                                                                                                                                     | SHT<br>3 |

# SPECIFICATION CONTROL DRAWING

## NOTES!

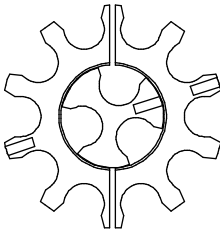
- Item 4 - Star - is **not** supplied with Hexashield Order Number 09.
- The DS option, illustrated below, is for a Drilled Star, which is available on sizes 15 to 61 when the standard ferrule quantity is selected, and sizes 25 and 61 when the optional ferrule quantity is selected. This option is to allow unshielded wires to pass through the assembly.



| STAR SIZE | 15             | 17             | 19             | 21              | 23              | 25<br>(Std.)    | 25<br>(Opt.1)  | 61<br>(Std.)    | 61<br>(Opt.1)  | 61<br>(Opt.2)  |
|-----------|----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|-----------------|----------------|----------------|
| ØH REF    | 3.0<br>[0.12"] | 6.0<br>[0.24"] | 9.0<br>[0.35"] | 12.0<br>[0.47"] | 15.0<br>[0.59"] | 18.0<br>[0.71"] | 3.0<br>[0.12"] | 18.0<br>[0.71"] | 3.0<br>[0.12"] | 6.0<br>[0.24"] |

- Where the ferrule quantities required are standard, the item 4 - Star - is also standard.  
If the optional quantity is selected, then 2 items 4 will be supplied - one "split" and the other one standard.  
See below for illustration.

"SPLIT" STAR



EXAMPLE: FERRULE QUANTITY CODE -A13  
-A13 = -A10 SPLIT RING STAR + -A3 STANDARD STAR

- Assembly is to be permanently marked with Code Identity Number and Part Number.  
(e.g. 06090 HEX54-AB-00-21-A9-1)

|                                                    |                           |                                                                                                                                                                                                                          |                                                                                          |                                                                                                  |                                               |                 |
|----------------------------------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------|
| <b>DRAWN</b> K.KUTA-WINCZURA                       | <b>DATE</b> 28/07/2017    | <br>3RD ANGLE<br>PROJECTION<br>NOT TO<br>SCALE                                                                                        | <b>TITLE:</b><br><br>HEXASHIELD BACKSHELL FOR CODE 54<br>CONNECTORS, PLAIN CLAMPLING NUT | <br>Polamco |                                               |                 |
| <b>CHECKED</b>                                     | 28/07/2017                |                                                                                                                                                                                                                          |                                                                                          |                                                                                                  |                                               |                 |
| <b>APPROVED</b> K.SHEPPARD                         | 30/07/2017                |                                                                                                                                                                                                                          |                                                                                          |                                                                                                  |                                               |                 |
| <b>APPROVED</b> K.SHEPPARD                         | 11/12/2017                |                                                                                                                                                                                                                          |                                                                                          |                                                                                                  |                                               |                 |
| <b>REVISIONS</b>                                   |                           | <b>ASSY USED ON:</b><br><br>SEE APPLICATION NOTE                                                                                                                                                                         | <b>DRG REV:</b> C                                                                        | <b>SHT</b> 4                                                                                     |                                               |                 |
| <b>LTR</b>                                         | <b>DESCRIPTION</b>        |                                                                                                                                                                                                                          |                                                                                          |                                                                                                  | <b>DATE</b>                                   | <b>APPROVED</b> |
| B                                                  | REVISED PER D060254       |                                                                                                                                                                                                                          |                                                                                          |                                                                                                  | 17/08/2006                                    |                 |
| C                                                  | REVISED PER ECO-17-017923 |                                                                                                                                                                                                                          |                                                                                          |                                                                                                  | 11/12/2017                                    | K.SHEPPARD      |
| 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. |                                                                                          |                                                                                                  | <b>DRAWING NO:</b><br>HEX54-AY-YY-YY-YYY-1-YY |                 |

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity:](#)

[HEX54-AB-00-15-A5-1](#)