

Amphenol

Interconnection Accessories

5003 Backshell Series



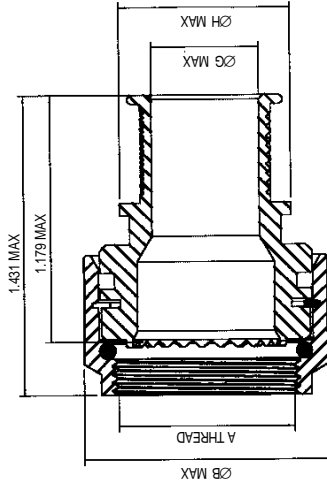
- For use on Mil-C-38999 Series III
- The 5003 Backshells are suitable for termination using Bandit, Zetalock and Heatshrink Products
- The 5003 is designed to give 360° Screening


[Amphenol Interconnection Accessories - Amphenol Distributor:](#)

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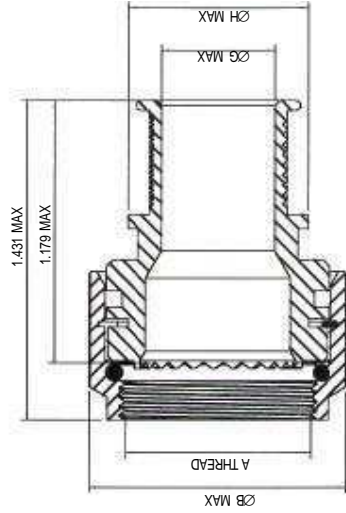
| PART NUMBER | A-THREAD | Ø B MAX | Ø G MAX | Ø H MAX | REC HELLERMAN BOOT 90° | REC HELLERMAN BOOT STRAIGHT | SPRING REF |
|------------------------|----------|---------|---------|---------|------------------------|-----------------------------|------------|
| 5003-09-00-00-10-AA-XX | M12 x 1 | 18.14 | 6.48 | 14.04 | 1152-4-GW24 | 152-42-GW24 | HE 050 |
| 5003-11-00-00-10-AA-XX | M15 x 1 | 20.45 | 8.05 | 15.61 | 1154-4-GW24 | 154-42-GW24 | HE 100 |
| 5003-13-00-00-10-AA-XX | M18 x 1 | 24.64 | 11.25 | 18.81 | 1155-4-GW24 | 155-42-GW24 | HE 100 |
| 5003-15-00-00-10-AA-XX | M22 x 1 | 29.13 | 12.83 | 20.39 | 1155-4-GW24 | 155-42-GW24 | HE 200 |
| 5003-17-00-00-10-AA-XX | M25 x 1 | 32.13 | 16.00 | 23.57 | 1156-4-GW24 | 156-42-GW24 | HE 200 |
| 5003-19-00-00-10-AA-XX | M28 x 1 | 32.64 | 19.18 | 26.74 | 1156-4-GW24 | 156-42-GW24 | HE 300 |
| 5003-21-00-00-10-AA-XX | M31 x 1 | 39.78 | 22.38 | 29.92 | 1157-4-GW24 | 157-43-GW24 | HE 300 |
| 5003-23-00-00-10-AA-XX | M34 x 1 | 43.28 | 25.55 | 33.09 | 1157-4-GW24 | 157-43-GW24 | HE 300 |
| 5003-25-00-00-10-AA-XX | M37 x 1 | 44.25 | 25.55 | 33.09 | 1157-4-GW24 | 157-43-GW24 | HE 300 |
| 5003-09-06-00-10-AA-XX | M12 x 1 | 18.14 | 4.83 | 14.04 | 1152-4-GW24 | 152-42-GW24 | HE 050 |
| 5003-11-08-00-10-AA-XX | M15 x 1 | 20.45 | 6.48 | 14.04 | 1154-4-GW24 | 154-42-GW24 | HE 050 |
| 5003-13-10-00-10-AA-XX | M18 x 1 | 24.64 | 8.05 | 15.61 | 1155-4-GW24 | 155-42-GW24 | HE 100 |
| 5003-15-12-00-10-AA-XX | M22 x 1 | 29.13 | 11.25 | 18.81 | 1155-4-GW24 | 155-42-GW24 | HE 100 |
| 5003-17-14-00-10-AA-XX | M25 x 1 | 32.13 | 12.83 | 20.39 | 1156-4-GW24 | 156-42-GW24 | HE 200 |
| 5003-19-16-00-10-AA-XX | M28 x 1 | 32.64 | 16.00 | 23.57 | 1156-4-GW24 | 156-42-GW24 | HE 200 |
| 5003-21-18-00-10-AA-XX | M31 x 1 | 39.78 | 19.18 | 26.74 | 1157-4-GW24 | 157-43-GW24 | HE 300 |
| 5003-23-20-00-10-AA-XX | M34 x 1 | 43.28 | 22.38 | 29.92 | 1157-4-GW24 | 157-43-GW24 | HE 300 |
| 5003-25-22-00-10-AA-XX | M37 x 1 | 44.25 | 25.55 | 33.09 | 1157-4-GW24 | 157-43-GW24 | HE 300 |




| | | | | | | | |
|---|---|---------|------------------|--|---|--|----------------|
|  THIRD ANGLE PROJECTION | MATERIAL AND FINISH CODES ARE SPECIFIED ON ORDER | CHECKED | DIMENSIONS IN MM | | AMPHENOL LTD Amphenol Ltd Thanet Way, Whitstable, Kent. CT15 3JF Tel: 01227773200 Fax: 01227276571 | This drawing is the property of Amphenol Ltd and shall not be copied or disclosed to a third party without the express permission of Amphenol Ltd Amphenol Ltd 2000® | TITLE |
| | NOTE: ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS AFTER PLATING/METAL FINISHING | SCALE | TOLERANCES | | | | Drawing Number |

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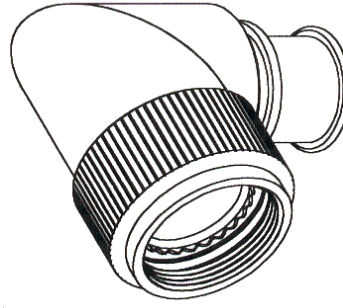
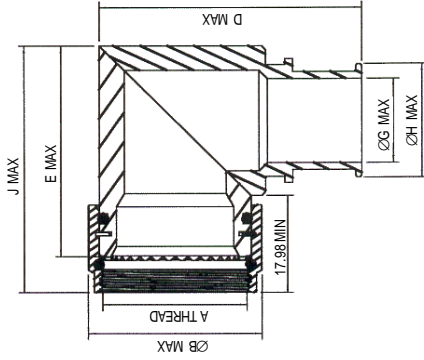
| PART NUMBER | A-THREAD | ØB MAX | ØG MAX | ØH MAX | REC HELLERMAN BOOT 90° | REC HELLERMAN BOOT STRAIGHT | SPRING REF |
|------------------------|----------|--------|--------|--------|---------------------------|--------------------------------|---------------|
| 5003-09-00-00-10-AA-XX | M12 x 1 | 0.714 | 0.255 | 0.5528 | 1152-4-GW24 | 152-42-GW24 | HE 050 |
| 5003-11-00-00-10-AA-XX | M15 x 1 | 0.805 | 0.317 | 0.6146 | 1154-4-GW24 | 154-42-GW24 | HE 100 |
| 5003-13-00-00-10-AA-XX | M18 x 1 | 0.970 | 0.443 | 0.7406 | 1155-4-GW24 | 155-42-GW24 | HE 100 |
| 5003-15-00-00-10-AA-XX | M22 x 1 | 1.147 | 0.505 | 0.8028 | 1155-4-GW24 | 155-42-GW24 | HE 200 |
| 5003-17-00-00-10-AA-XX | M25 x 1 | 1.265 | 0.630 | 0.9280 | 1156-4-GW24 | 156-42-GW24 | HE 200 |
| 5003-19-00-00-10-AA-XX | M28 x 1 | 1.285 | 0.755 | 1.0528 | 1156-4-GW24 | 156-42-GW24 | HE 300 |
| 5003-21-00-00-10-AA-XX | M31 x 1 | 1.566 | 0.881 | 1.1780 | 1157-4-GW24 | 157-43-GW24 | HE 300 |
| 5003-23-00-00-10-AA-XX | M34 x 1 | 1.704 | 1.006 | 1.3028 | 1157-4-GW24 | 157-43-GW24 | HE 300 |
| 5003-25-00-00-10-AA-XX | M37 x 1 | 1.742 | 1.006 | 1.3028 | 1157-4-GW24 | 157-43-GW24 | HE 300 |
| 5003-09-06-00-10-AA-XX | M12 x 1 | 0.714 | 0.190 | 0.5528 | 1152-4-GW24 | 152-42-GW24 | HE 050 |
| 5003-11-08-00-10-AA-XX | M15 x 1 | 0.805 | 0.255 | 0.5528 | 1154-4-GW24 | 154-42-GW24 | HE 050 |
| 5003-13-10-00-10-AA-XX | M18 x 1 | 0.970 | 0.317 | 0.6146 | 1155-4-GW24 | 155-42-GW24 | HE 100 |
| 5003-15-12-00-10-AA-XX | M22 x 1 | 1.147 | 0.443 | 0.7406 | 1155-4-GW24 | 155-42-GW24 | HE 100 |
| 5003-17-14-00-10-AA-XX | M25 x 1 | 1.265 | 0.505 | 0.8028 | 1156-4-GW24 | 156-42-GW24 | HE 200 |
| 5003-19-16-00-10-AA-XX | M28 x 1 | 1.285 | 0.630 | 0.9280 | 1156-4-GW24 | 156-42-GW24 | HE 200 |
| 5003-21-18-00-10-AA-XX | M31 x 1 | 1.566 | 0.755 | 1.0528 | 1157-4-GW24 | 157-43-GW24 | HE 300 |
| 5003-23-20-00-10-AA-XX | M34 x 1 | 1.704 | 0.881 | 1.1780 | 1157-4-GW24 | 157-43-GW24 | HE 300 |
| 5003-25-22-00-10-AA-XX | M37 x 1 | 1.742 | 1.006 | 1.3028 | 1157-4-GW24 | 157-43-GW24 | HE 300 |




| | | | | | | |
|--|---|---------|-------------------------|--|--|--|
|  THIRD ANGLE PROJECTION | MATERIAL AND FINISH CODES ARE SPECIFIED ON ORDER | CHECKED | DIMENSIONS IN Inches | AMPHENOL LTD Amphenol Ltd Thanet Way, Whitstable, Kent. CT5 3JF Tel: 01227 773200 Fax: 01227 276571 | This drawing is the property of Amphenol Ltd and shall not be copied or disclosed to a third party without the express permission of Amphenol Ltd Amphenol Ltd 2000® | TITLE |
| | NOTE: ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS AFTER PLATING/METAL FINISHING | SCALE | TOLERANCES | | | BACKSHELL STRAIGHT Drawing Number 5003 SERIES |

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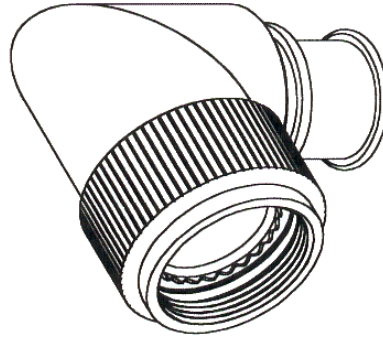
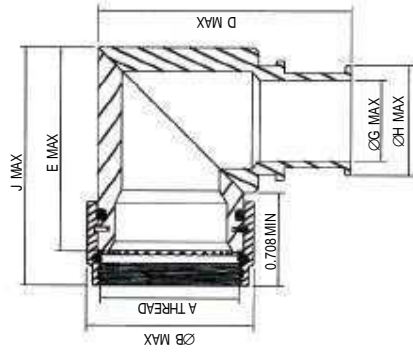
| PART NUMBER | A-THREAD | D MAX | ØB MAX | E MAX | ØG MAX | ØH MAX | J MAX | REC HELLERMAN BOOT STRAIGHT | SPRING REF |
|------------------------|----------|-------|--------|-------|--------|--------|-------|--------------------------------|---------------|
| 5003-09-00-90-10-AA-XX | M12 x 1 | 35.18 | 18.14 | 25.98 | 6.48 | 14.04 | 32.39 | 152-42-GW24 | HE 050 |
| 5003-11-00-90-10-AA-XX | M15 x 1 | 38.35 | 20.45 | 29.16 | 8.05 | 15.61 | 35.56 | 154-42-GW24 | HE 100 |
| 5003-13-00-90-10-AA-XX | M18 x 1 | 41.53 | 24.64 | 32.33 | 11.25 | 18.81 | 38.74 | 155-42-GW24 | HE 100 |
| 5003-15-00-90-10-AA-XX | M22 x 1 | 46.30 | 29.13 | 37.11 | 12.83 | 20.39 | 43.51 | 155-42-GW24 | HE 200 |
| 5003-17-00-90-10-AA-XX | M25 x 1 | 49.48 | 32.13 | 40.28 | 16.00 | 23.57 | 46.69 | 156-42-GW24 | HE 200 |
| 5003-19-00-90-10-AA-XX | M28 x 1 | 49.48 | 32.64 | 40.28 | 19.18 | 26.74 | 46.69 | 156-42-GW24 | HE 300 |
| 5003-21-00-90-10-AA-XX | M31 x 1 | 57.40 | 39.78 | 48.21 | 22.38 | 29.92 | 54.61 | 157-43-GW24 | HE 300 |
| 5003-23-00-90-10-AA-XX | M34 x 1 | 60.58 | 43.28 | 51.38 | 25.55 | 33.09 | 57.79 | 157-43-GW24 | HE 300 |
| 5003-25-00-90-10-AA-XX | M37 x 1 | 60.58 | 44.25 | 51.38 | 25.55 | 33.09 | 57.79 | 157-43-GW24 | HE 300 |
| 5003-09-06-90-10-AA-XX | M12 x 1 | 35.18 | 18.14 | 25.98 | 4.83 | 14.04 | 32.39 | 152-42-GW24 | HE 050 |
| 5003-11-08-90-10-AA-XX | M15 x 1 | 38.35 | 20.45 | 29.16 | 6.48 | 14.04 | 35.56 | 154-42-GW24 | HE 050 |
| 5003-13-10-90-10-AA-XX | M18 x 1 | 41.53 | 24.64 | 32.33 | 8.05 | 15.61 | 38.74 | 155-42-GW24 | HE 100 |
| 5003-15-12-90-10-AA-XX | M22 x 1 | 46.40 | 29.13 | 37.11 | 11.25 | 18.81 | 43.51 | 155-42-GW24 | HE 100 |
| 5003-17-14-90-10-AA-XX | M25 x 1 | 49.48 | 32.13 | 40.28 | 12.83 | 20.39 | 46.69 | 156-42-GW24 | HE 200 |
| 5003-19-16-90-10-AA-XX | M28 x 1 | 49.48 | 32.64 | 40.28 | 16.00 | 23.57 | 46.69 | 156-42-GW24 | HE 200 |
| 5003-21-18-90-10-AA-XX | M31 x 1 | 57.40 | 39.78 | 48.21 | 19.18 | 26.74 | 54.61 | 157-43-GW24 | HE 300 |
| 5003-23-20-90-10-AA-XX | M34 x 1 | 58.80 | 43.28 | 51.38 | 22.38 | 29.92 | 57.79 | 157-43-GW24 | HE 300 |
| 5003-25-22-90-10-AA-XX | M37 x 1 | 58.80 | 44.25 | 51.38 | 25.55 | 33.09 | 57.79 | 157-43-GW24 | HE 300 |




| | | | | | | | | | |
|--|---|---------|---------------------|--|--|--|--|---|-------|
|  THIRD ANGLE PROJECTION | MATERIAL AND FINISH CODES ARE SPECIFIED ON ORDER | CHECKED | DIMENSIONS IN MM | | AMPHENOL LTD Amphenol Ltd Thanet Way, Whitstable, Kent. CT5 3JF Tel: 01227773200 Fax: 01227276571 | | This drawing is the property of Amphenol Ltd and shall not be copied or disclosed to a third party without the express permission of Amphenol Ltd Amphenol Ltd 2000 ^o | | TITLE |
| | NOTE: ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS AFTER PLATING/METAL FINISHING | SCALE | TOLERANCES | | | | | BACKSHELL RIGHT ANGLE 5003 SERIES Drawing Number | |

Amphenol

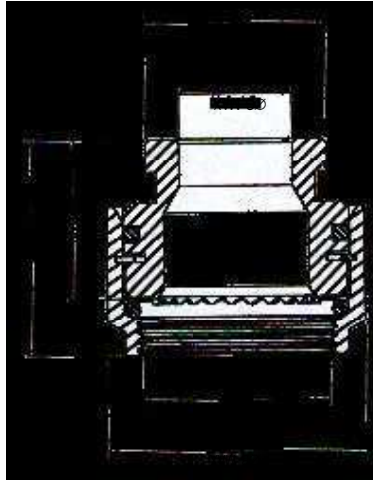
| PART NUMBER | A-THREAD | D MAX | ØB MAX | E MAX | ØG MAX | ØH MAX | J MAX | REC HELLERMAN BOOT STRAIGHT | SPRING REF |
|------------------------|----------|-------|--------|-------|--------|--------|-------|-----------------------------|------------|
| 5003-09-00-90-10-AA-XX | M12 x 1 | 1.385 | 0.714 | 1.023 | 0.255 | 0.5528 | 1.275 | 152-42-GW24 | HE 050 |
| 5003-11-00-90-10-AA-XX | M15 x 1 | 1.510 | 0.805 | 1.148 | 0.317 | 0.6146 | 1.400 | 154-42-GW24 | HE 100 |
| 5003-13-00-90-10-AA-XX | M18 x 1 | 1.635 | 0.970 | 1.273 | 0.443 | 0.7406 | 1.525 | 155-42-GW24 | HE 100 |
| 5003-15-00-90-10-AA-XX | M22 x 1 | 1.823 | 1.147 | 1.461 | 0.505 | 0.8028 | 1.713 | 155-42-GW24 | HE 200 |
| 5003-17-00-90-10-AA-XX | M25 x 1 | 1.948 | 1.265 | 1.586 | 0.630 | 0.9280 | 1.838 | 156-42-GW24 | HE 200 |
| 5003-19-00-90-10-AA-XX | M28 x 1 | 1.948 | 1.285 | 1.586 | 0.755 | 1.0528 | 1.838 | 156-42-GW24 | HE 300 |
| 5003-21-00-90-10-AA-XX | M31 x 1 | 2.260 | 1.566 | 1.898 | 0.881 | 1.1780 | 2.150 | 157-43-GW24 | HE 300 |
| 5003-23-00-90-10-AA-XX | M34 x 1 | 2.385 | 1.704 | 2.023 | 1.006 | 1.3028 | 2.275 | 157-43-GW24 | HE 300 |
| 5003-25-00-90-10-AA-XX | M37 x 1 | 2.385 | 1.742 | 2.023 | 1.006 | 1.3028 | 2.275 | 157-43-GW24 | HE 300 |
| 5003-09-06-90-10-AA-XX | M12 x 1 | 1.385 | 0.714 | 1.023 | 0.190 | 0.5528 | 1.275 | 152-42-GW24 | HE 050 |
| 5003-11-08-90-10-AA-XX | M15 x 1 | 1.510 | 0.805 | 1.148 | 0.255 | 0.5528 | 1.400 | 154-42-GW24 | HE 050 |
| 5003-13-10-90-10-AA-XX | M18 x 1 | 1.635 | 0.970 | 1.273 | 0.317 | 0.6146 | 1.525 | 155-42-GW24 | HE 100 |
| 5003-15-12-90-10-AA-XX | M22 x 1 | 1.823 | 1.147 | 1.461 | 0.443 | 0.7406 | 1.713 | 155-42-GW24 | HE 100 |
| 5003-17-14-90-10-AA-XX | M25 x 1 | 1.948 | 1.265 | 1.586 | 0.505 | 0.8028 | 1.838 | 156-42-GW24 | HE 200 |
| 5003-19-16-90-10-AA-XX | M28 x 1 | 1.948 | 1.285 | 1.586 | 0.630 | 0.9280 | 1.838 | 156-42-GW24 | HE 200 |
| 5003-21-18-90-10-AA-XX | M31 x 1 | 2.260 | 1.566 | 1.898 | 0.755 | 1.0528 | 2.150 | 157-43-GW24 | HE 300 |
| 5003-23-20-90-10-AA-XX | M34 x 1 | 2.315 | 1.704 | 2.023 | 0.881 | 1.1780 | 2.275 | 157-43-GW24 | HE 300 |
| 5003-25-22-90-10-AA-XX | M37 x 1 | 2.315 | 1.742 | 2.023 | 1.006 | 1.3028 | 2.275 | 157-43-GW24 | HE 300 |




| | | | | | | | |
|---|---|---------|----------------------|--|--|---|--|
|  THIRD ANGLE PROJECTION | MATERIAL AND FINISH CODES ARE SPECIFIED ON ORDER | CHECKED | DIMENSIONS IN INCHES | | AMPHENOL LTD Amphenol Ltd Thanet Way, Whitstable, Kent. CT5 3JF Tel: 01227 773200 Fax: 01227 276571 | This drawing is the property of Amphenol Ltd and shall not be copied or disclosed to a third party without the express permission of Amphenol Ltd Amphenol Ltd 2000® | BACKSHELL RIGHT ANGLE Drawing Number 5003 SERIES |
| | NOTE: ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS AFTER PLATING/METAL FINISHING | SCALE | TOLERANCES | | | | |

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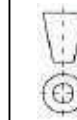
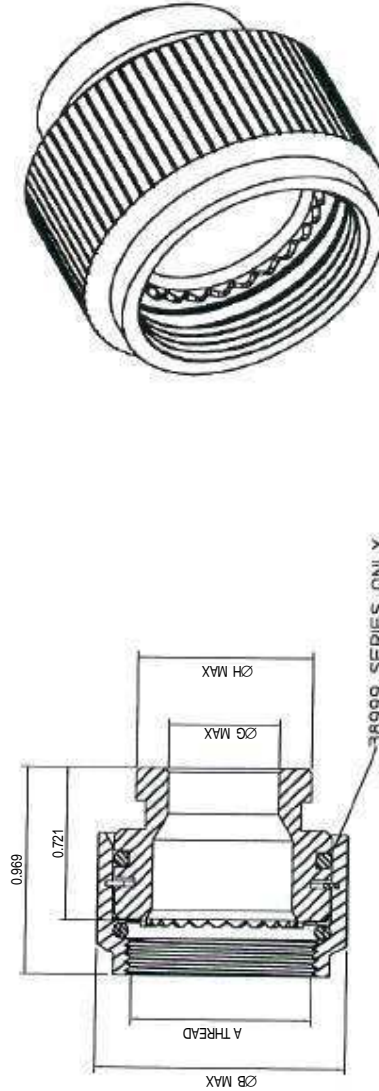
| PART NUMBER | A-THREAD | ØB MAX | ØG MAX | ØH MAX | REC HELLERMAN BOOT 90° | REC HELLERMAN BOOT STRAIGHT |
|------------------------|----------|--------|--------|--------|------------------------|-----------------------------|
| 5103-09-00-00-10-AA-XX | M12x1 | 0.714 | 0.255 | 0.5528 | 1154-4-GW24 | 154-42-GW24 |
| 5103-11-00-00-10-AA-XX | M15x1 | 0.805 | 0.317 | 0.6146 | 1155-4-GW24 | 155-42-GW24 |
| 5103-13-00-00-10-AA-XX | M18x1 | 0.970 | 0.443 | 0.7406 | 1155-4-GW24 | 155-42-GW24 |
| 5103-15-00-00-10-AA-XX | M22x1 | 1.147 | 0.505 | 0.8028 | 1156-4-GW24 | 156-42-GW24 |
| 5103-17-00-00-10-AA-XX | M25x1 | 1.265 | 0.630 | 0.9280 | 1156-4-GW24 | 156-42-GW24 |
| 5103-19-00-00-10-AA-XX | M28x1 | 1.285 | 0.755 | 1.0528 | 1157-4-GW24 | 157-43-GW24 |
| 5103-21-00-00-10-AA-XX | M31x1 | 1.566 | 0.881 | 1.1780 | 1157-4-GW24 | 157-43-GW24 |
| 5103-23-00-00-10-AA-XX | M34x1 | 1.704 | 1.006 | 1.3028 | 1157-4-GW24 | 157-43-GW24 |
| 5103-25-00-00-10-AA-XX | M37x1 | 1.742 | 1.006 | 1.3028 | 1157-4-GW24 | 157-43-GW24 |



| | | | | | | |
|---|---|---------|----------------------|---|--|---|
|  THIRD ANGLE PROJECTION | MATERIAL AND FINISH CODES ARE SPECIFIED ON ORDER | CHECKED | DIMENSIONS IN Inches | AMPHENOL LTD Amphenol Ltd Thanet Way, Whitstable, Kent. CT5 3JF Tel: 01222773200 Fax: 012227276571 | This drawing is the property of Amphenol Ltd and shall not be copied or disclosed to a third party without the express permission of Amphenol Ltd Amphenol Ltd 2000® | TITLE BACKSHELL STRAIGHT WITH HEATSHRINK BOOT Drawing Number 5103 SERIES |
| | NOTE: ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS AFTER PLATING/METAL FINISHING | SCALE | TOLERANCES | | | |

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| PART NUMBER | A-THREAD | ØB MAX | ØG MAX | ØH MAX | REC HELLERMAN BOOT 90° | REC HELLERMAN BOOT STRAIGHT |
|------------------------|----------|--------|--------|--------|------------------------|-----------------------------|
| 5103-09-00-00-10-AA-XX | M12x1 | 18.14 | 6.48 | 14.04 | 1154-4-GW24 | 154-42-GW24 |
| 5103-11-00-00-10-AA-XX | M15x1 | 20.45 | 8.05 | 15.61 | 1155-4-GW24 | 155-42-GW24 |
| 5103-13-00-00-10-AA-XX | M18x1 | 24.64 | 11.25 | 18.81 | 1155-4-GW24 | 155-42-GW24 |
| 5103-15-00-00-10-AA-XX | M22x1 | 29.13 | 12.83 | 20.39 | 1156-4-GW24 | 156-42-GW24 |
| 5103-17-00-00-10-AA-XX | M25x1 | 32.13 | 16.00 | 23.57 | 1156-4-GW24 | 156-42-GW24 |
| 5103-19-00-00-10-AA-XX | M28x1 | 32.64 | 19.18 | 26.74 | 1157-4-GW24 | 157-43-GW24 |
| 5103-21-00-00-10-AA-XX | M31x1 | 39.78 | 22.38 | 29.92 | 1157-4-GW24 | 157-43-GW24 |
| 5103-23-00-00-10-AA-XX | M34x1 | 43.28 | 26.56 | 33.09 | 1157-4-GW24 | 157-43-GW24 |
| 5103-25-00-00-10-AA-XX | M37x1 | 44.25 | 25.55 | 33.09 | 1157-4-GW24 | 157-43-GW24 |



THIRD ANGLE PROJECTION

MATERIAL AND FINISH CODES ARE SPECIFIED ON ORDER
NOTE:
ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS AFTER PLATING/METAL FINISHING

CHECKED
SCALE

DIMENSIONS IN MM
TOLERANCES

AMPHENOL LTD
Amphenol Ltd
Thames Way,
Whitstable, Kent.
CT5 3JF
Tel: 01227773200 Fax: 01227276571

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TITLE BACKSHELL STRAIGHT FOR HEATSHRINK BOOT
Drawing Number 5103 SERIES

Part Number Information

AIA50 03 XX XX XX XX XX XX

Denotes Backshell Style
 50 = Zeta Lock Termination with heatshrink boot groove
 51 = Spin Coupler to take heatshrink boot

Denotes Connector Style
 03 = 38999 Series

Denotes Connector Shell Size
 9, 11, 13, 15, 17, 19, 21, 23, 25

Denotes Backshell Inlet Size
 See Chart for Inlet Standard
 Consult Factory for Alternatives

Denotes Backshell Exit Angle
 00 = 0°
 45 = 45°
 90 = 90°
 Consult Factory for Alternatives

Denotes Working Length
 00 = Standard
 Consult Factory for Alternatives

Denotes Backshell Material
 AA = Aluminium Alloy
 RB = Aluminium Bronze
 SS = Stainless Steel

Denotes Backshell Plating Finish
 01 = Unplated
 02 = Electroless Nickel
 03 = Cadmium with Olive Drab Chromate Passivation
 04 = Zinc Cobalt with Green Chromate Passivation
 05 = Zinc Cobalt with Black Chromate Passivation

For further information on cables, connectors and assemblies please consult your local office.
 Product specifications and performance characteristics are typical only, and subject to change.

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