



## Glenair Environmental Shrink Boots Now TACOM Approved, In-Stock and Ready for Immediate Shipment

High-performance Series 77 “Full Nelson” environmental shrink boots manufactured by Glenair in Glendale, California are now approved by the US Army Tank-Automotive Command (TACOM). Manufactured from high-temperature crosslinked elastomeric polymer material and/or caustic chemical-resistant Viton polymer, Glenair straight and right angle long-tail shrink boots, Y and T transitions, convoluted strain-relief boots and heat-shrinkable adapter shims have been added to the following source control documentation:

| Glenair Series 77 “Full Nelson” TACOM APPROVED Shrink Boots |                      |                     |                     |                        |                                                        |                      |                     |                     |                        |
|-------------------------------------------------------------|----------------------|---------------------|---------------------|------------------------|--------------------------------------------------------|----------------------|---------------------|---------------------|------------------------|
| Description                                                 | Military Part Number | Glenair Part Number | Raychem Part Number | Hellermann Part Number | Description                                            | Military Part Number | Glenair Part Number | Raychem Part Number | Hellermann Part Number |
| Heat Shrinkable Low Profile 3-Entry “Y” Transition          | 12273148-1**         | 770-009Y*05         | 381A301-**          | 492H412-*              | Heat Shrinkable Straight Lipped 2-Entry Long Tail Boot | 12273147-1**         | 770-020S*02         | 202F211-**          | 313F322-*              |
|                                                             | 12273148-2**         | 770-009Y*06         | 381A302-**          | 492H413-*              |                                                        | 12273147-2**         | 770-020S*03         | 202F221-**          | 313F332-*              |
|                                                             | 12273148-3**         | 770-009Y*07-01      | 381A303-*01         | 492H414-*01            |                                                        | 12273147-3**         | 770-020S*04         | 202F232-**          | 313F343-*              |
|                                                             | 12273148-4**         | 770-009Y*08-01      | 381A304-*01         | 492H415-*01            |                                                        | 12273147-4**         | 770-020S*05         | 202F242-**          | 313F353-*              |
|                                                             | 12273148-5**         | 770-009Y*07         | 381A303-**          | —                      |                                                        | 12273147-5**         | 770-020S*06         | 202F253-**          | 313F364-*              |
| Heat Shrinkable Low Profile 3-Entry “T” Transition          | 12273162-1**         | 770-012T*01         | 301A511-**          | 412H622-*              | Heat Shrinkable 90° Lipped 2-Entry Long Tail Boot      | 12273147-6**         | 770-020S*07         | 202F263-**          | 313F374-*              |
|                                                             | 12273162-2**         | 770-012T*02         | 301A512-**          | 412H623-*              |                                                        | 12273147-7**         | 770-020S*08         | 202F274-**          | 313F385-*              |
|                                                             | 12273162-3**         | 770-012T*03         | 301A513-**          | 412H624-*              |                                                        | 12273176-1**         | 770-021A*02         | 222F211-**          | 333F322-*              |
|                                                             | 12273162-4**         | 770-012T*04         | 301A514-**          | 412H625-*              |                                                        | 12273176-2**         | 770-021A*03         | 222F221-**          | 333F332-*              |
| Heat Shrinkable Low Profile 4-Entry 3:1 Transition          | 12273163-1**         | 770-014*09          | 462A421-**          | 573H532-*              | Heat Shrinkable 90° Lipped 2-Entry Long Tail Boot      | 12273176-3**         | 770-021A*04         | 222F232-**          | 333F343-*              |
|                                                             | 12273163-2**         | 770-014*10          | 462A422-**          | 573H533-*              |                                                        | 12273176-4**         | 770-021A*05         | 222F242-**          | 333F353-*              |
|                                                             | 12273163-3**         | 770-014*11          | 462A423-**          | 573H534-*              |                                                        | 12273176-5**         | 770-021A*06         | 222F253-**          | 333F364-*              |
|                                                             | 12273163-4**         | 770-014*12          | 462A424-**          | 573H535-*              |                                                        | 12273176-6**         | 770-021A*07         | 222F263-**          | 333F374-*              |
| Heat Shrinkable Adapter Shim Boot                           | 12273164-1**         | 770-019SB*01        | 202E334-**          | 313E445-*              |                                                        | 12273176-7**         | 770-021A*08         | 222F274-**          | 333F385-*              |
|                                                             | 12273164-2**         | 770-019SB*02        | 202E344-**          | 313E455-*              | Heat Shrinkable Convoluted Strain Relief 2-Entry Boot  | 12273242-1**         | 770-022C*01         | 202C611-**          | 313C722-9              |
|                                                             | 12273164-3**         | 770-019SB*03        | 202E336-**          | 313E447-*              |                                                        | 12273242-2**         | 770-022C*02         | 202C621-**          | 313C732-9              |
|                                                             | 12273164-4**         | 770-019SB*04        | 202E346-**          | 313E457-*              |                                                        | 12273242-3**         | 770-022C*03         | 202C632-**          | 313C743-9              |
|                                                             | 12273242-1**         | 770-022C*01         | 202C611-**          | 313C722-9              |                                                        | 12273242-4**         | 770-022C*04         | 202C642-**          | 313C753-9              |
| Heat Shrinkable Convoluted Strain Relief 2-Entry Boot       | 12273242-2**         | 770-022C*02         | 202C621-**          | 313C732-9              |                                                        | 12273242-5**         | 770-022C*05         | 202C653-**          | 313C764-9              |
|                                                             | 12273242-3**         | 770-022C*03         | 202C632-**          | 313C743-9              |                                                        | 12273242-6**         | —                   | 202G621-**          | —                      |
|                                                             | 12273242-4**         | 770-022C*04         | 202C642-**          | 313C753-9              |                                                        | 12273242-7**         | —                   | 202G632-**          | —                      |
|                                                             | 12273242-5**         | 770-022C*05         | 202C653-**          | 313C764-9              |                                                        | 12273242-8**         | —                   | 202C642-**          | —                      |
|                                                             | 12273242-6**         | —                   | 202G621-**          | —                      |                                                        | 12273242-9**         | —                   | 202C653-**          | —                      |
|                                                             | 12273242-7**         | —                   | 202G632-**          | —                      |                                                        |                      |                     |                     |                        |
|                                                             | 12273242-8**         | —                   | 202C642-**          | —                      |                                                        |                      |                     |                     |                        |
|                                                             | 12273242-9**         | —                   | 202C653-**          | —                      |                                                        |                      |                     |                     |                        |

### VG QUALIFIED SHRINK BOOTS AND ADHESIVES

DIN



VG Standards are established by the Deutsches Institut für Normung (DIN) and are widely used in European defense programs. Glenair Type 2 shrink boots are qualified to VG95343 Part 28, and our adhesives are qualified to VG95343 Part 18. Consult Glenair UK for price and delivery.

## SERIES 77 TACOM-Approved Environmental Shrink Boots

| Expanded Cross-Reference: TACOM-to-Glenair Shrink Boot Part Numbers |                |              |              |              |             |
|---------------------------------------------------------------------|----------------|--------------|--------------|--------------|-------------|
| TACOM #                                                             | GLENAIR #      | TACOM #      | GLENAIR #    | TACOM #      | GLENAIR #   |
| 12273147-120                                                        | 770-020S602    | 12273162-110 | 770-012T601  | 12273176-120 | 770-021A602 |
| 12273147-220                                                        | 770-020S603    | 12273162-210 | 770-012T602  | 12273176-220 | 770-021A603 |
| 12273147-320                                                        | 770-020S604    | 12273162-310 | 770-012T603  | 12273176-320 | 770-021A604 |
| 12273147-420                                                        | 770-020S605    | 12273162-410 | 770-012T604  | 12273176-420 | 770-021A605 |
| 12273147-520                                                        | 770-020S606    | 12273162-120 | 770-012T501  | 12273176-520 | 770-021A606 |
| 12273147-620                                                        | 770-020S607    | 12273162-220 | 770-012T502  | 12273176-620 | 770-021A607 |
| 12273147-720                                                        | 770-020S608    | 12273162-320 | 770-012T503  | 12273176-720 | 770-021A608 |
| 12273147-130                                                        | 770-020S502    | 12273162-420 | 770-012T504  | 12273176-130 | 770-021A502 |
| 12273147-230                                                        | 770-020S503    | 12273163-110 | 770-014609   | 12273176-230 | 770-021A503 |
| 12273147-330                                                        | 770-020S504    | 12273163-310 | 770-014611   | 12273176-330 | 770-021A504 |
| 12273147-430                                                        | 770-020S505    | 12273163-410 | 770-014612   | 12273176-430 | 770-021A505 |
| 12273147-530                                                        | 770-020S506    | 12273163-120 | 770-014509   | 12273176-530 | 770-021A506 |
| 12273147-630                                                        | 770-020S507    | 12273163-220 | 770-014510   | 12273176-630 | 770-021A507 |
| 12273147-730                                                        | 770-020S508    | 12273163-320 | 770-014511   | 12273176-730 | 770-021A508 |
| 12273148-110                                                        | 770-009Y605    | 12273163-420 | 770-014512   | 12273242-110 | 770-022C601 |
| 12273148-210                                                        | 770-009Y606    | 12273164-110 | 770-019SB601 | 12273242-210 | 770-022C602 |
| 12273148-310                                                        | 770-009Y607-01 | 12273164-210 | 770-019SB602 | 12273242-310 | 770-022C603 |
| 12273148-410                                                        | 770-009Y608-01 | 12273164-310 | 770-019SB603 | 12273242-410 | 770-022C604 |
| 12273148-510                                                        | 770-009Y607    | 12273164-410 | 770-019SB604 | 12273242-510 | 770-022C605 |
| 12273148-120                                                        | 770-009Y505    | 12273164-120 | 770-019SB501 | 12273242-120 | 770-022C501 |
| 12273148-220                                                        | 770-009Y506    | 12273164-220 | 770-019SB502 | 12273242-220 | 770-022C502 |
| 12273148-320                                                        | 770-009Y507-01 | 12273164-320 | 770-019SB503 | 12273242-320 | 770-022C503 |
| 12273148-420                                                        | 770-009Y508-01 | 12273164-420 | 770-019SB504 | 12273242-320 | 770-022C503 |
| 12273148-520                                                        | 770-009Y507    |              |              | 12273242-420 | 770-022C504 |
|                                                                     |                |              |              | 12273242-520 | 770-022C505 |

| TACOM Approved Shrink Boot Material Properties |                                                     |                                                         |
|------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|
| Property                                       | Viton® Fluoroelastomer Blend (SPEC-01417-SC-X15111) | High Performance Elastomer Blend (SPEC-01417-SC-X15112) |
| Flexibility                                    | Flexible                                            | Flexible                                                |
| Operating Temperature Range                    | -55°C to +150°C                                     | -55°C to +135°C                                         |
| Shrink Temperature (min.)                      | 135°C                                               | 135°C                                                   |
| Tensile Strength (psi)                         | 2200                                                | 1500                                                    |
| Elongation (% min.)                            | 400                                                 | 300                                                     |
| Heat Shock                                     | 4 hrs, 225°C                                        | 4 hrs, 220°C                                            |
| Heat Aging                                     | 168 hrs, 150°C                                      | 168 hrs, 150°C                                          |
| Dielectric Strength (V/mil)                    | 200                                                 | 200                                                     |
| Volume Resistivity (ohms-cm)                   | 10 <sup>10</sup>                                    | 10 <sup>10</sup>                                        |
| Water Absorption (%)                           | 0.5                                                 | 0.5                                                     |
| Flammability                                   | Burn Time <120 sec<br>Burn Length <25mm             | Burn Time <120 sec<br>Burn Length <25mm                 |
| RoHS Compliant                                 | Yes                                                 | Yes                                                     |

**Approval:**  
Project Manager, Heavy Brigade Combat Team (PM-HBCT),  
US Army Tank-Automotive Command (TACOM)



For more information contact Glenair at **818-247-6000** or visit our website at **www.glenair.com**  
U.S. CAGE code 06324