

**SERIES 77  
ENVIRONMENTAL  
SHRINK BOOTS**



**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-*              | 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-*              | Heat Shrinkable 90° Lipped 2-Entry Long Tail Boot      | 12273176-1**         | 770-021A*02         | 222F211-**          | 333F322-*              |
|  | 12273162-4**         | 770-012T*04         | 301A514-**          | 412H625-*              |  | 12273176-2**         | 770-021A*03         | 222F221-**          | 333F332-*              |
| 12273163-1**                                       | 770-014*09           | 462A421-**          | 573H532-*           | 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-*           |                        |
| Heat Shrinkable Low Profile 4-Entry 3:1 Transition | 12273163-4**         | 770-014*12          | 462A424-**          | 573H535-*              | 12273176-6**   | 770-021A*07          | 222F263-**          | 333F374-*           |                        |
|  | 12273164-1**         | 770-019SB*01        | 202E334-**          | 313E445-*              | 12273176-7**   | 770-021A*08          | 222F274-**          | 333F385-*           |                        |
| Heat Shrinkable Adapter Shim Boot                  | 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              |
| 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**                                       | —                    | —                   | —                   | 12273242-9**           |  | —                    | 202C653-**          | —                   |                        |
| 12273242-7**                                       | —                    | —                   | —                   |                        |  |                      |                     |                     |                        |
| 12273242-8**                                       | —                    | —                   | —                   |                        |  |                      |                     |                     |                        |
| 12273242-9**                                       | —                    | —                   | —                   |                        |  |                      |                     |                     |                        |

**VG QUALIFIED SHRINK BOOTS AND ADHESIVES**



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