



Band Backshell HE 308-35

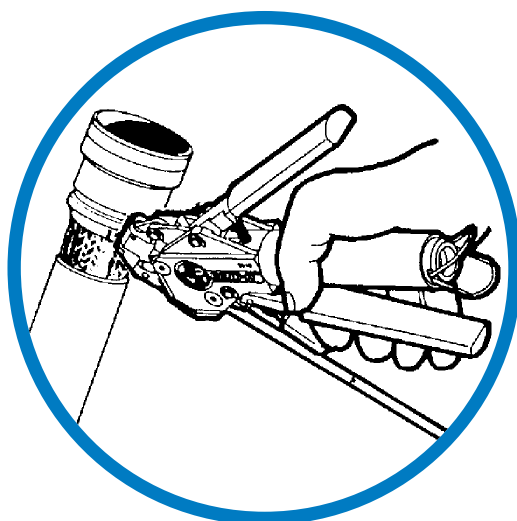
for MIL.DTL-38999 I & II connectors

TV-35

for MIL.DTL-38999 III connectors



- Mass continuity assured by the band between cable braid and backshell
- Very high level of cable retention assured by the band on the braid
- Easy cabling process
- Very good sealed when terminated with a straight or right angle heat-shrink molded piece
- Provides an high performance EMI/RFI protection
- Only one tool is needed to set up the band on the backshell
- Available with different cabling chamber lengths to meet your requirement



DESCRIPTION

Band backshells were originally developed for military applications. They provide facility by using due to the band which assures very high quality level (tightness, wire retention force, EMI/RFI protection...)

The HE 308-35 is usable with all JT/ LJT connectors which accept rear accessories (MIL-DTL-38999 Series I&II).

The TV-35 is usable with all TV connectors which accept rear accessories (MIL-DTL-38999 Series III).

*Heavy duty
EMI - RFI
band backshell*

APPLICATIONS

- These backshells are suited to harsh environment / military / aeronautic use.



Amphenol

Application tools & process

1. Prepare Cable Braid for termination process (Figure 1).
2. Push Braid forward over Adapter Retention Lip to the Adapter Incline Point (or .4" [10.2mm] minimum braid length). Milk Braid as required to remove slack and insure a snug fit around the shield termination area (Figure 2).
3. Prepare the Band in the following manner:

IMPORTANT:

Due to Connector/ Adapter circumference, it may be necessary to prepare the Band around the Cable or Retention Area.

- A. Roll Band through the Buckle Slot twice. (Bands must be double-coiled.)
- B. Pull on Band until Mark (▷) is within approximately .250 inch (6.4mm) of Buckle Slot (Figure 3). The Band may be tightened further if desired.

NOTE: Prepared Band should have (▷) Mark visible approximately where shown in Figure 3.

SHIELD TERMINATION CLAMPING PROCESS:

(Figures 4 thru 8):

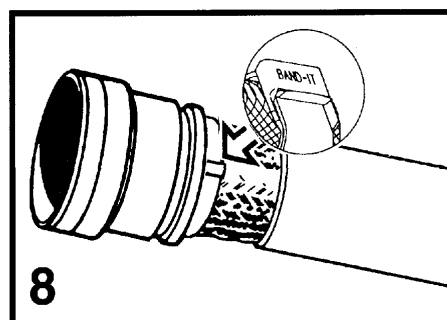
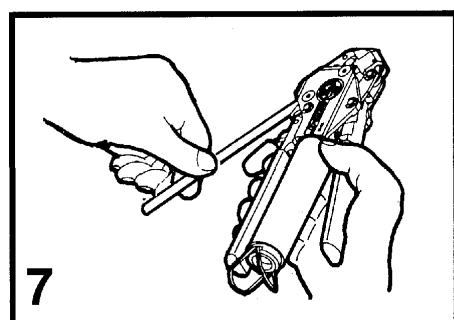
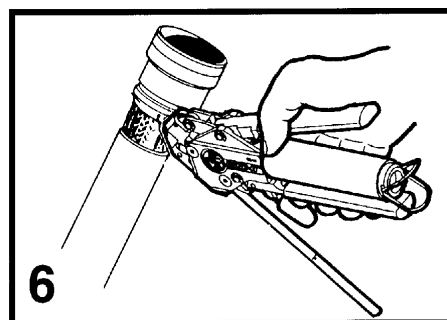
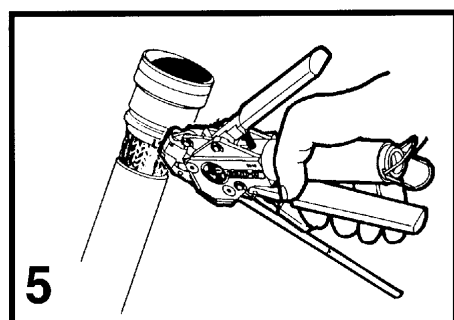
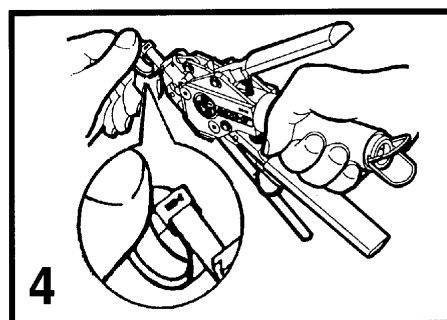
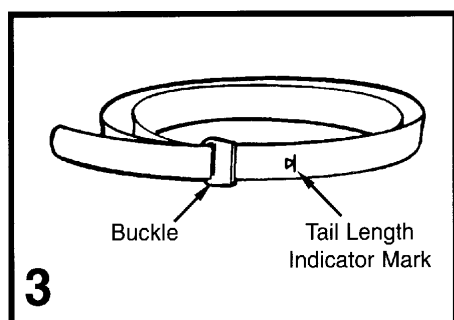
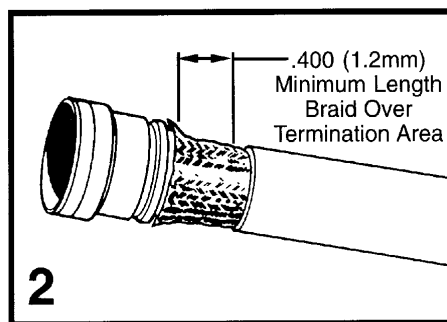
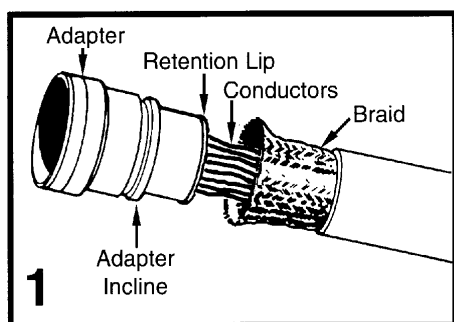
NOTE: To free Tool Handles, move Holding Clips to center of Tool.

4. Squeeze Gripper Release Lever and insert Band into the front end opening of the Tool. (NOTE: Circular portion of looped band must always face downward.)
5. Aligning the Band and Tool with the Shield Termination Area, squeeze Black Pull-Up Handle repeatedly using short strokes until it locks against Tool Body. (This indicates the Band is compressed to the Tool Precalibrated Tension).

NOTE: If alignment of band and shield is unsatisfactory, tension on band can be relaxed by pushing on slotted release lever on top of tool. Make adjustments as necessary and again squeeze black pull-up handle.

6. Complete the Clamping Process by squeezing the Gray Cut-Off Handle.
7. Remove excess Band from Tool.
8. Inspect Shield Termination.

ADVISE: Coupling will be ensured if thread locking "Lactite 243" is used on connector.



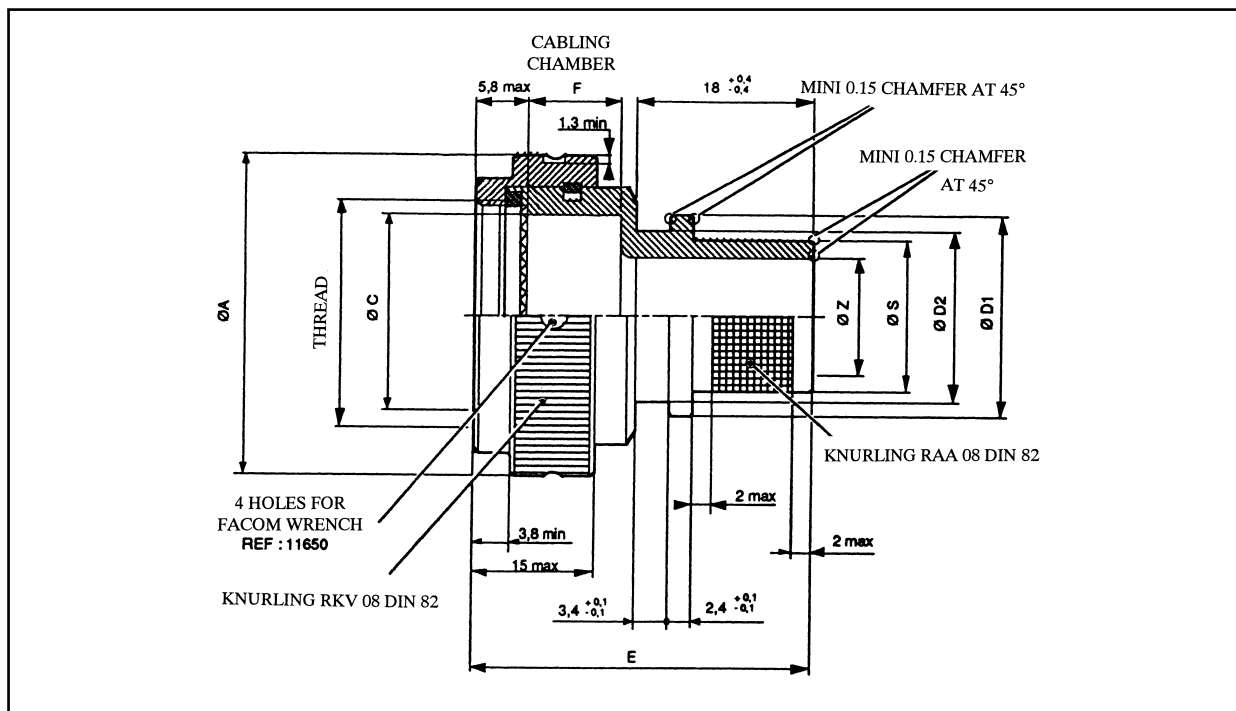


Chart I

Size	C diam. +0.1/-0 (mm)	C1 diam. Max. (mm)	Thread Series I&II UNEF	Thread Series III Iso Metric	Number of serrations
09	7.8	9.83	0.4375-28	M12 x 1.0 - 6H	12
11	10.8	12.81	0.5625-24	M15 x 1.0 - 6H	16
13	13.1	15.98	0.6875-24	M18 x 1.0 - 6H	20
15	16.3	18.88	0.8125-20	M22 x 1.0 - 6H	24
17	19.5	22.03	0.9375-20	M25 x 1.0 - 6H	28
19	21.7	25.02	1.0625-18	M28 x 1.0 - 6H	32
21	24.9	28.20	1.1875-18	M31 x 1.0 - 6H	36
23	28.1	31.37	1.3125-18	M34 x 1.0 - 6H	40
25	31.2	34.55	1.4375-18	M37 x 1.0 - 6H	44

Chart II

Size	A diam. Max. (mm)	E Max. (mm) (1)	Cabling chamber length F +/-0.4 (mm)	Z rear side diameter		S diam. Min./Max. (mm)	Diam. D1 +/-01 (mm)	Diam. D2 +/-01 (mm)	Accessory coupling (N/m)
				Coding 1/32 of Inch	Dimension min.				
09	21.4	36	10	08	6.3	9.4/9.5	14	11.4	8+/-0.4
11	24.3	36	10	12	9.4	12.6/12.7	17.1	14.5	8+/-0.4
13	27.4	36 36 or 56	10 10 or 30	12 16	9.4 12.6	12.6/12.7 15.7/15.9	17.1 20.3	14.5 17.7	11+/-0.5
15	31.8	36 36 or 56	10 10 or 30	14 20	11 15.8	14.1/14.3 18.9/19.1	18.7 23.5	16.1 20.9	11+/-0.5
17	35	36 51 36 or 56	10 25 10 or 30	16 12 24	12.6 9.4 19	15.7/15.9 12.6/12.7 22/22.2	20.3 17.1 26.7	17.7 14.5 23.1	14+/-0.5
19	38.1	36 36 or 56	10 10 or 30	16 24	12.6 19	15.7/15.9 22/22.2	20.3 26.7	17.7 23.1	14+/-0.5
21	41.2	36 or 46 36 or 56	10 20 10 or 30	20 14 28	15.8 11 22.1	18.9/19.1 14.1/14.3 25.2/25.4	23.5 18.7 29.8	20.9 16.1 26.2	17+/-0.8
23	44.3	36 36 or 56	10 10 or 30	24 32	19 25.3	22/22.2 28.4/28.6	26.7 33	23.1 29.4	17+/-0.8
25	47.2	36 36 or 56	10 10 or 30	28 36	22.1 28.6	25.2/25.4 31.5/31.8	29.8 36.2	26.2 32.6	20+/-1

(1): depends on the chamber length

Backshell

HE308 corresponds to our proprietary P/N and also to the french Military standard NFC 93-422

Mil-DTL-38999 series I&II: HE 308 - 35 - 09 - 10 - 08 - 7 M
Mil-DTL-38999 series III : TV -

Grounding and heat shrink sleeve compatible

Shell size: 09/11/13/15
17/19/21/23/25

Cabling chamber length in mm:
10/20/25/30 (see chart II page 3 for availability)

Rear side (dimension Z):
diameter in 1/32 of inch (see chart II page 3 for availability)

Finish:	HE 308	TV
Olive drab cadmium-plate:	7	014
Electroless nickel:	6	023

Conformity to the french military standard NFC 93-422 (HE308): M / others: blank

Dashes must be duly mentioned in the P/N.

Accessories

- **Band** (Amphenol ref.): **072952**
Length: 362 mm - Width: 6.1 mm - Thickness: 0.5 mm
- **Straight heat-shrink molded piece** with preinstalled adhesive (Raychem ref.): **See chart III bellow**
- **Right angle heat-shrink molded piece** with preinstalled adhesive (Raychem ref.): **See chart III bellow**
- **For heat-shrink sleeves**, please consult us or Raychem

Tools

- **Wrench for coupling** **11650**
(see figure page 3)
(Facom reference)
- **Tool for banding process**
(see page 3):
- Manual tool: **809952**

Heat-shrink molded pieces (Chart III)

Shell size	Chamber length in mm	Rear side internal diameter in 1/32 of inch	Corresponding braid internal diameter (mm)	Corresponding STRAIGHT molded piece / Raychem reference	Corresponding RIGHT ANGLE molded piece / Raychem reference
09	10	08	6.3	202K121-25/225M	222K121-25/225M
11	10	12	9.5	202K132-25/225M	222K132-25/225M
13	10	12	9.5	202K132-25/225M	222K132-25/225M
	10	16	9.5	202K142-25/225M	222K142-25/225M
	30	16	9.5	202K142-25/225M	222K142-25/225M
15	10	14	9.5	202K132-25/225M	222K132-25/225M
	10	20	12.7	202K153-25/225M	222K153-25/225M
	30	20	12.7	202K153-25/225M	222K153-25/225M
17	10	16	9.5	202K142-25/225M	222K142-25/225M
	25	12	9.5	202K132-25/225M	222K132-25/225M
	30	24	12.7	202K153-25/225M	222K153-25/225M
19	10	16	9.5	202K142-25/225M	222K142-25/225M
	10	24	12.7	202K153-25/225M	222K152-25/225M
	30	24	12.7	202K153-25/225M	222K152-25/225M
21	10	20	12.7	202K153-25/225M	222K152-25/225M
	20	14	9.5	202K132-25/225M	222K132-25/225M
	30	28	20.0	202K163-25/225M	222K163-25/225M
23	10	24	12.7	202K153-25/225M	222K152-25/225M
	10	32	20.0	202K163-25/225M	222K163-25/225M
	30	32	20.0	202K163-25/225M	222K163-25/225M
25	10	28	20.0	202K163-25/225M	222K163-25/225M
	10	36	20.0	202K174-25/225M	222K174-25/225M
	30	36	20.0	202K174-25/225M	222K174-25/225M

Do not hesitate to contact us for further information

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