Amphenol

BACKSHELLS

For LJT, RNJ, RNJ LP, JT, TV-CTV, SC39 AND SJT CONNECTORS

For MIL-DTL-38999 series I,II,III and VG96912 connectors

www.38999-solutions.com - www.amphenol-socapex.com

BACKSHELLS

TABLE OF **CONTENTS**

GENERAL **CHARACTERISTICS**

Main features

- Shell material
  - Aluminium alloy
  - Marine bronze
  - For composite, please consult us

- Finish
  - Olive drab cadmium plating
  - Electroless nickel plating
  - For others, please consult us

- 9 shell sizes per model

- Straight or right angled versions

- Working temperature
  - From – 65°C to + 175°C with olive drab cadmium plating
  - From – 65°C to + 200°C with electroless nickel plating

- French standard qualification capability (UTE 93422)

For speci□c backshells for marine applications and 217 backshells, please consult us.

Description

You will find hereafter Amphenol Socapex backshells for LJT (MIL-DTL-38999 series I / HE308), RNJ (HE308), RNJ LP, TV-CTV (MIL-DTL-38999 series III), SC39 and SJT (VG96912) connectors, as well as specific light weight backshells for JT (MIL-DTL-38999 series II) connectors. These rear accessories enhance the performance capabilities of the connectors for both general duty and severe environment applications.

Different technologies are used in order to ensure the following functions:
- EMI shielding
- cable retention
- sealing

This large choice of rear accessories provides you with the right solution for your connector/backshell interconnection.

Applications

Military and aeronautic applications: battlefields, ground vehicles, aircrafts.

Advanced industrial applications with specific climatic, mechanical or electrical requirements.

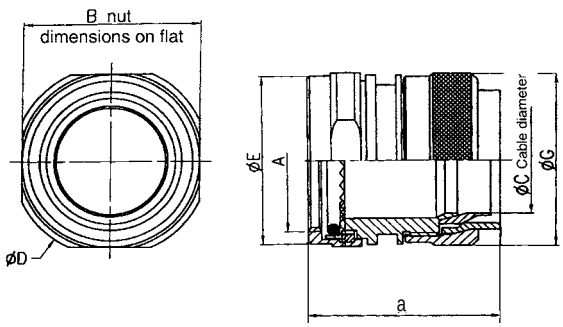
BACKSHELLS FOR **SHIELDING**

These backshells, providing an electrical continuity between cable and connector, ensure a high level or of EMI/RFI protection.
The sealing is ensured by-straight or right angled heat shrink moulded piece at the rear of the backshell.

NSA and SA backshells

LJT NSA (HE308-13) *suitable for LJT (MIL-DTL-38999 series I / HE308), RNJ (HE308) and SJT (VG96912) connectors.*
JT SA *suitable for JT (MIL-DTL-38999 series II) connectors.*
TV NSA *suitable for TV-CTV (MIL-DTL-38999 series III), SC39 and RNJ LP connectors.*

NSA and SA backshells ensure the shielding by clamping the braid with a screwing system. The free inner ring avoids twisting of the braid during screwing. For straight or right angled heat shrink moulded pieces, please refer to page 17-18.



LJT NSA & JT SA

a = 31.79 mm (1,252 in) max

Size		A Thread UNEF-2B	B max mm (in)	C max mm (in)	Ø E max mm (in)	Ø G max$^{+0.2}_{-0.5}$ mm (in)
LJT	JT/SJT					
09	08	.4375-28	16.70 (0.658)	6.90 (0.272)	15.20 (0.598)	16.40 (0.646)
11	10	.5625-24	20.70 (0.815)	9.60 (0.378)	18.40 (0.724)	19.53 (0.769)
13	12	.6875-24	22.70 (0.894)	12.70 (0.500)	21.60 (0.850)	22.60 (0.890)
15	14	.8125-20	25.70 (1.012)	14.80 (0.583)	24.80 (0.976)	25.80 (1.016)
17	16	.9375-20	28.70 (1.130)	17.90 (0.705)	28.00 (1.102)	28.80 (1.134)
19	18	1.0625-18	31.70 (1.248)	19.90 (0.784)	31.00 (1.221)	31.80 (1.252)
21	20	1.1875-18	35.70 (1.406)	23.10 (0.909)	34.20 (1.347)	33.87 (1.334)
23	22	1.3125-18	38.70 (1.524)	26.20 (1.032)	37.40 (1.472)	36.90 (1.453)
25	24	1.4375-18	41.70 (1.642)	28.80 (1.134)	40.60 (1.598)	41.52 (1.635)

TV NSA

a = 35.60 mm (1.402 in) max

Size	A Thread Metric	B max mm (in)	C max mm (in)	Ø E max mm (in)	Ø G max $^{+0.2}_{-0.5}$ mm (in)
09	M12 x 1.0 – 6H	16.70 (0.658)	6.90 (0.272)	15.62 (0.615)	16.50 (0.650)
11	M15 x 1.0 – 6H	20.70 (0.815)	9.60 (0.378)	18.62 (0.733)	19.40 (0.764)
13	M18 x 1.0 – 6H	22.70 (0.894)	12.70 (0.500)	21.64 (0.852)	22.60 (0.890)
15	M22 x 1.0 – 6H	25.70 (1.012)	14.80 (0.583)	25.60 (1.008)	25.80 (1.016)
17	M25 x 1.0 – 6H	28.70 (1.130)	17.90 (0.705)	28.50 (1.122)	29.00 (1.142)
19	M28 x 1.0 – 6H	31.70 (1.248)	19.90 (0.784)	31.62 (1.245)	32.00 (1.260)
21	M31 x 1.0 – 6H	35.70 (1.406)	23.10 (0.909)	34.11 (1.343)	35.20 (1.386)
23	M34 x 1.0 – 6H	38.70 (1.524)	26.20 (1.032)	37.13 (1.462)	38.40 (1.512)
25	M37 x 1.0 – 6H	41.70 (1.642)	28.80 (1.134)	40.13 (1.580)	41.50 (1.634)

ASSEMBLY INSTRUCTIONS FOR NSA and SA backshells

1. Prepare the cable for termination process and slide onto the cable the items in the order shown on figure 1.
2. Screw the backshell at the rear of the connector.
3. Fold back the braid on the outer jacket and fix it (figure 2)
4. Install the braid as shown on figures 3 and 4: Release the braid and cover the backshell (a) and the connector's shell. Slide the first ring (b) over the braid. Fold back the braid on the ring (b) and slide the second ring (c) over the braid and the first ring (b). Screw the last ring (d) at the rear of the backshell. If necessary, fix the extra braid on the outer jacket of the cable. If this installation (double folding of the braid) is not possible, refer to figure 5: Slide the first ring (b). Release the braid and cover the backshell (a) and the connector's shell. Cut the braid as shown. Slide the second ring (c) over the braid and the first ring (b). Screw the last ring at the rear of the backshell.
5. Install the heat-shrink moulded piece.

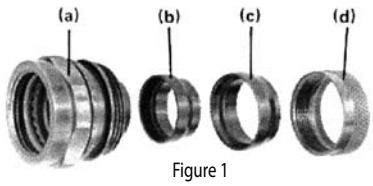


Figure 1


Figure 2

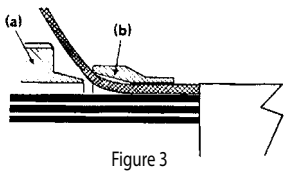


Figure 3

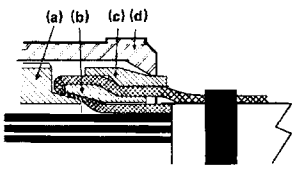


Figure 4

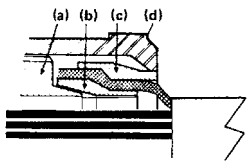


Figure 5

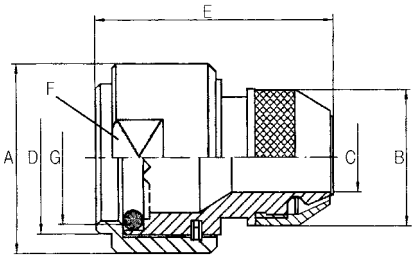
For ordering information, please refer to page 18

BACKSHELLS FOR **SHIELDING**

SQ backshells

LJT SQ *suitable for SJT (VG96912) connectors.*

SQ backshells ensure the shielding by clamping the braid with a screwing system. For straight or right angled heat shrink moulded pieces, please refer to page 17-18.



Size	Ø A $^{+0.2}_{-0.2}$ mm (in)	Ø B $^{+0.3}$ mm (in)	Ø C $^{+0.2}$ mm (in)	Ø D max mm (in)	E max mm (in)	F $^{-0.2}$ mm (in)	G Thread UNEF-2B
08	19.00 (0.748)	14.00 (0551)	6.20 (0.244)	16.00 (0.630)	30.00 (1.181)	17.00 (0.670)	7/16-28
10	22.00 (0.867)	16.00 (0.630)	7.00 (0.276)	19.00 (0.748)	30.00 (1.181)	20.00 (0.787)	9/16-24
12	25.00 (0.984)	18.00 (0.709)	9.50 (0.374)	22.00 (0.867)	30.00 (1.181)	23.00 (0.906)	11/16-24
14	28.00 (1.102)	22.00 (0.867)	12.50 (0.492)	25.10 (0.988)	33.00 (1.300)	26.00 (1.024)	13/16-20
16	30.00 (1.181)	25.00 (0.984)	15.50 (0.610)	28.30 (1.114)	33.00 (1.300)	28.00 (1.102)	15/16-20
18	34.00 (1.339)	28.00 (1.102)	18.50 (0.728)	31.30 (1.232)	34.00 (1.339)	32.00 (1.260)	11/16-18
20	38.00 (1.496)	32.00 (1.260)	21.50 (0.846)	34.50 (1.358)	36.00 (1.417)	36.00 (1.417)	13/16-18
22	43.00 (1.693)	34.00 (1.339)	23.50 (0.925)	37.70 (1.484)	36.00 (1.417)	41.00 (1.614)	15/16-18
24	45.00 (1.772)	38.00 (1.496)	27.5 (1.083)	40.80 (1.606)	36.00 (1.417)	43.00 (1.693)	17/16-18

ASSEMBLY INSTRUCTIONS FOR SQ backshells

1. Prepare the cable for termination process.
2. Screw the backshell at the rear of the connector.
3. Install the braid as shown on figure 1: Release the braid and cover the backshell conus. Maintain the braid on the conus with a small diameter wire in the groove. Fold back the braid on itself and cut it as shown. Screw the ring over the braid without twisting it.
4. Install the heat-shrink moulded piece.

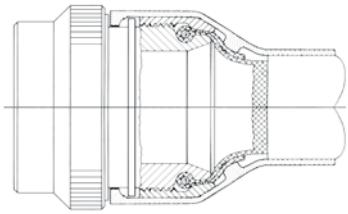


Figure 1

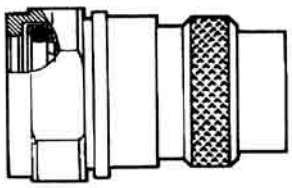
For ordering information, please refer to page 18

BACKSHELLS FOR **SHIELDING**

NSB backshells

LJT NSB *suitable for LJT (MIL-DTL-38999 series I / HE308), RNJ (HE308) and SJT (VG96912) connectors.*

NSB backshells ensure the shielding by a tinned rear part to allow soldering of the braid. For straight or right angled heat shrink moulded pieces, please refer to page 17-18.



Size	Ø A mm (in)	Ø B ±0.2 mm (in)	Ø C max mm (in)	D* min mm (in)	E max mm (in)	F** max mm (in)
9	12.60 (0.496)	20.00 (0.787)	16.00 (0.630)	7.80 (0.307)	9.50 (0.374)	16.80 (0.661)
11	16.40 (0.646)	23.00 (0.906)	19.00 (0.748)	10.80 (0.425)	12.50 (0.492)	20.80 (0.819)
13	20.00 (0.787)	26.00 (1.024)	22.00 (0.866)	13.10 (0.516)	15.50 (0.610)	22.80 (0.898)
15	22.00 (0.866)	29.00 (1.142)	25.10 (0.988)	16.30 (0.642)	18.50 (0.728)	25.80 (1.016)
17	24.60 (0.969)	32.00 (1.260)	28.30 (1.114)	19.00 (0.748)	21.50 (0.847)	28.80 (1.134)
19	27.50 (1.083)	35.00 (1.378)	31.30 (1.232)	21.70 (0.854)	24.00 (0.945)	31.80 (1.252)
21	31.90 (1.256)	39.00 (1.536)	34.50 (1.358)	24.90 (0.980)	27.00 (1.063)	35.80 (1.409)
23	35.00 (1.378)	42.00 (1.654)	37.70 (1.484)	28.10 (1.106)	30.50 (1.201)	38.80 (1.528)
25	38.80 (1.528)	45.00 (1.772)	40.80 (1.606)	31.20 (1.228)	33.50 (1.319)	41.80 (1.646)

* max permissible cable outside diameter
** dimension over the flats (4 flats)

NSB backshells

1. Prepare the cable for termination process.
2. Screw the backshell at the rear of the connector.
3. If possible, protect the conductors with an insulationg tube or tape (e) inserted between them and the backshell.
4. Install the braid as shown of figure 1.
5. Install the heat-shrink moulded piece.

Figure 2

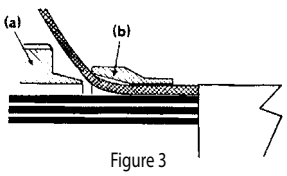


Figure 3

For ordering information, please refer to page 18

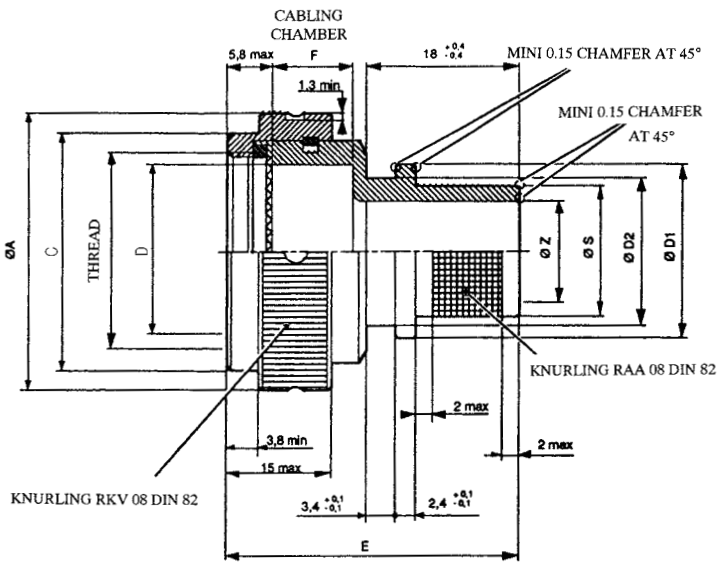
BAND BACKSHELLS FOR **SHIELDING**

These band backshells provide a full 360° shield termination. They are available with different cabling chamber lengths and exit diameters. The use of replaceable bands facilitates future maintenance or reparability. The sealing is ensured by-straight or right angled heat shrink moulded piece at the rear of the backshell.

HE308-35 and TV35 backshells

HE308-35 *suitable for LJT (MIL-DTL-38999 series I / HE308), RNJ (HE308) and SJT (VG96912) connectors.*
TV35 *suitable for TV-CTV (MIL-DTL-38999 series III), SC39 and RNJ LP connectors.*
TVB35 *suitable for TV bronze connectors.*

These straight band backshells provide a full 360° shield termination with a quick, easy and cost effective cabling process. For straight or right angled heat shrink moulded pieces, please refer to page 17-18.



Size	HE308-35 only				TV35 and TVB35 only			
	Ø A max mm (in)	B Thread UNEF-2B	Ø C mm (in)	Ø D mm (in)	Ø A max mm (in)	B Thread Metric	Ø C mm (in)	Ø D mm (in)
09	21.40 (0.843)	0.4375-28	15.20 (0.598)	7.80 (0.307)	24.30 (0.957)	M12 x 1.0-6H	18.00 (0.709)	7.80 (0.307)
11	24.30 (0.957)	0.5625-24	18.40 (0.724)	10.80 (0.425)	27.40 (1.079)	M15 x 1.0-6H	21.00 (0.827)	10.99 (0.433)
13	27.40 (1.079)	0.6875-24	21.60 (0.850)	13.10 (0.516)	31.80 (1.252)	M18 x 1.0-6H	25.00 (0.984)	13.80 (0.543)
15	31.80 (1.252)	0.8125-20	24.80 (0.976)	16.30 (0.642)	35.00 (1.378)	M22 x 1.0-6H	28.00 (1.102)	16.30 (0.642)
17	35.00 (1.378)	0.9375-20	28.00 (1.102)	19.50 (0.768)	38.10 (1.500)	M25 x 1.0-6H	30.80 (1.213)	20.10 (0.791)
19	38.10 (1.500)	1.0625-18	31.00 (1.220)	21.70 (0.854)	41.20 (1.622)	M28 x 1.0-6H	34.10 (1.343)	22.93 (0.903)
21	41.20 (1.622)	1.1875-18	34.20 (1.347)	24.90 (0.980)	44.30 (1.744)	M31 x 1.0-6H	36.90 (1.453)	26.00 (1.024)
23	44.30 (1.744)	1.3125-18	37.40 (1.472)	28.10 (1.106)	47.20 (1.858)	M34 x 1.0-6H	39.80 (1.567)	29.28 (1.153)
25	47.20 (1.858)	1.4375-18	40.60 (1.599)	31.20 (1.228)	50.00 (1.969)	M37 x 1.0-6H	43.00 (1.693)	32.45 (1.278)

BAND BACKSHELLS FOR **SHIELDING**

Size	E max mm (in)	Cabling chamber length F+/-0.1 mm (in)	Z rear side diameter		Ø S min/max mm (in)	Ø D1+/-0.1 mm (in)	Ø D2+/-0.1 mm (in)
			Coding 1/32 of Inch	Dimension min mm (in)			
09	36 (1.417)	10 (0.394)	08	6.30 (0.248)	9.40/9.50 (0.370/0.374)	14.00 (0.551)	11.40 (0.449)
11	36 (1.417)	10 (0.394)	12	9.40 (0.370)	12.60/12.70 (0.496/0.500)	17.10 (0.673)	14.50 (0.571)
13	36 (1.417) 36 or 56 (1.417 or 2.204)	10 (0.394) 10 or 30 (0.394 or 1.181)	12 16	9.40 (0.370) 12.60 (0.496)	12.60/12.70 (0.496/0.500) 15.70/15.90 (0.618/0.626)	17.10 (0.673) 20.30 (0.799)	14.50 (0.571) 17.70 (0.697)
15	36 (1.417) 36 (1.417) 36 or 56 (1.417 or 2.204))	10 (0.394) 10 (0.394) 10 or 30 (0.394 or 1.181)	10 14 20	7.80 (0.307) 11.00 (0.433) 15.80 (0.622)	11.1/11.2 (0.437/0.440) 14.10/14.30 (0.555/0.563) 18.90/19.10 (0.744/0.752)	15.5 (0.610) 18.70 (0.736) 23.50 (0.925)	12.9 (0.508) 16.10 (0.634) 20.90 (0.823)
17	36 (1.417) 51 (2.008) 36 or 56 (1.417 or 2.204)	10 (0.394) 25 (0.984) 10 or 30 (0.394 or 1.181)	16 12 24	12.60 (0.496) 9.40 (0.370) 19.00 (0.748)	15.70/15.90 (0.618/0.626) 12.60/12.70 (0.496/0.500) 22.00/22.20 (0.866/0.874)	20.30 (0.799) 17.10 (0.673) 26.70 (1.051)	17.70 (0.697) 14.50 (0.571) 23.10 (0.909)
19	36 (1.417) 36 or 56 (1.417 or 2.204)	10 (0.394) 10 or 30 (0.394 or 1.181)	16 24	12.60 (0.496) 19.00 (0.748)	15.70/15.90 (0.618/0.626) 22.00/22.20 (0.866/0.874)	20.30 (0.800) 26.70 (1.051)	17.70 (0.697) 23.10 (0.909)
21	36 (1.417) 46 (1.811) 36 or 56 (1.417 or 2.204)	10 (0.394) 20 (0.787) 10 or 30 (0.394 or 1.181)	20 14 28	15.80 (0.622) 11.00 (0.433) 22.10 (0.870)	18.90/19.10 (0.744/0.752) 14.10/14.30 (0.555/0.563) 25.20/25.40 (0.992/1)	23.50 (0.925) 18.70 (0.736) 29.80 (1.173)	20.90 (0.823) 16.10 (0.634) 26.20 (1.032)
23	36 (1.417) 36 or 56 (1.417 or 2.204)	10 (0.394) 10 or 30 (0.394 or 1.181)	24 32	19.00 (0.748) 25.30 (0.996)	22.00/22.20 (0.866/0.874) 28.40/28.60 (1.118/1.126)	26.70 (1.051) 33.00 (1.299)	23.10 (0.909) 29.40 (1.158)
25	36 (1.417) 36 or 56 (1.417 or 2.204)	10 (0.394) 10 or 30 (0.394 or 1.181)	28 36	22.10 (0.870) 28.60 (1.126)	25.20/25.40 (0.992/1) 31.50/31.80 (1.240/1.252)	29.80 (1.173) 36.20 (1.425)	26.20 (1.032) 32.60 (1.284)

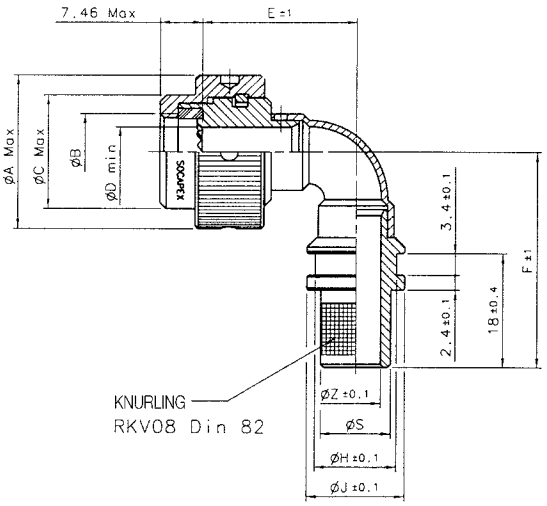
BAND BACKSHELLS FOR **SHIELDING**

SBC backshells

LJT SBC *suitable for LJT (MIL-DTL-38999 series I / HE308), RNJ (HE308) and SJT (VG96912) connectors.*

TV SBC *suitable for TV-CTV (MIL-DTL-38999 series III), SC39 and RNJ LP connectors.*

These right angled band backshells provide a full 360° shield termination with a quick, easy and cost effective cabling process. For straight heat shrink moulded pieces, please refer to page 17-18.



Size	LJT SBC only				TV SBC only			
	Ø A max mm (in)	B Thread UNEF-2B	Ø C mm (in)	Ø D mm (in)	Ø A max mm (in)	B Thread Metric	Ø C mm (in)	Ø D mm (in)
09	21.40 (0.843)	0.4375-28	15.20 (0.598)	7.80 (0.307)	24.30 (0.957)	M12 x 1.0-6H	18.00 (0.709)	7.80 (0.307)
11	24.30 (0.957)	0.5625-24	18.40 (0.724)	10.80 (0.425)	27.40 (1.079)	M15 x 1.0-6H	21.00 (0.827)	10.99 (0.433)
13	27.40 (1.079)	0.6875-24	21.60 (0.850)	13.10 (0.516)	31.80 (1.252)	M18 x 1.0-6H	25.00 (0.984)	13.80 (0.543)
15	31.80 (1.252)	0.8125-20	24.80 (0.976)	16.30 (0.642)	35.00 (1.378)	M22 x 1.0-6H	28.00 (1.102)	16.30 (0.642)
17	35.00 (1.378)	0.9375-20	28.00 (1.102)	19.50 (0.768)	38.10 (1.500)	M25 x 1.0-6H	30.80 (1.213)	20.10 (0.791)
19	38.10 (1.500)	1.0625-18	31.00 (1.220)	21.70 (0.854)	41.20 (1.622)	M28 x 1.0-6H	34.10 (1.343)	22.93 (0.903)
21	41.20 (1.622)	1.1875-18	34.20 (1.347)	24.90 (0.980)	44.30 (1.744)	M31 x 1.0-6H	36.90 (1.453)	26.00 (1.024)
23	44.30 (1.744)	1.3125-18	37.40 (1.472)	28.10 (1.106)	47.20 (1.858)	M34 x 1.0-6H	39.80 (1.567)	29.28 (1.153)
25	47.20 (1.858)	1.4375-18	40.60 (1.599)	31.20 (1.228)	50.00 (1.969)	M37 x 1.0-6H	43.00 (1.693)	32.45 (1.278)

Size	E mm (in)	Z rear side diameter		F mm (in)	Ø S mm (in)	Ø H mm (in)	Ø J mm (in)
		Coding 1/32 of Inch	Dimension mm (in)				
09	24.50 (0.965)	10	7.90 (0.311)	34.00 (1.339)	11.10 (0.437)	12.90 (0.508)	15.50 (0.610)
11	28.00 (1.102)	14	11.10 (0.437)	36.50 (1.437)	14.10 (0.555)	16.10 (0.634)	18.10 (0.713)
13	28.00 (1.102)	16	12.60 (0.496)	37.00 (1.457)	15.70 (0.618)	17.70 (0.697)	20.30 (0.799)
15	29.50 (1.161)	20	15.80 (0.622)	39.00 (1.535)	18.90 (0.744)	20.90 (0.823)	23.50 (0.925)
17	31.50 (1.240)	24	19.00 (0.748)	41.00 (1.614)	22.00 (0.866)	23.10 (0.909)	26.70 (1.051)
19	33.00 (1.299)	24	19.00 (0.748)	42.50 (1.673)	22.00 (0.866)	23.10 (0.909)	26.70 (1.051)
21	35.50 (1.398)	28	22.10 (0.870)	45.00 (1.772)	25.20 (0.992)	26.20 (1.032)	29.80 (1.173)
23	44.50 (1.752)	32	25.30 (0.996)	54.00 (2.126)	28.40 (1.118)	29.40 (1.158)	33.00 (1.299)
25	50.50 (1.988)	36	28.60 (1.126)	58.50 (2.303)	31.50 (1.240)	32.60 (1.284)	36.20 (1.425)

BAND BACKSHELLS FOR **SHIELDING**

ASSEMBLY INSTRUCTIONS FOR HE308-35, TV35 and SBC backshells

1. Prepare the cable for termination process (figure 1).
2. Screw the backshell at the rear of the connector.
3. Push the braid over the backshell to the incline point. Milk the braid as required to remove the slack and insure a snug fit around the shield termination area (figure 2).
4. Prepare the band: Roll the band through the buckle slot twice (the band must be double-coiled). Pull on the band until the mark is within approximately 6.4 mm (.250 in) of the buckle slot (figure 3). The band may be tightened further if desired.
5. Squeeze the gripper release lever of the banding tool and insert the band into the front end opening of the tool as shown on figure 4 (the circular portion of looped band must always face downward).
6. Aligning the band and the tool with the shield termination area, squeeze the black pull-up handle repeatedly using short strokes until it locks against the tool body (this indicates the band is compressed to the tool precalibrated tension).
7. Complete the clamping process by squeezing the grey cut-off handle.
8. Remove the excess band from the tool.
9. Inspect shield termination (figure 5). Il the alignment of the band and the shield in unsatisfactory, tension on the band can be relaxed by pushing on the slotted release lever on the top of the tool. Make adjustments as necessary and squeeze again the black pull-up handle.

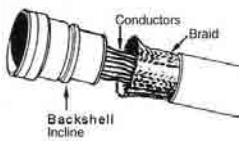


Figure 1

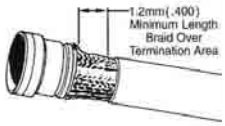


Figure 2

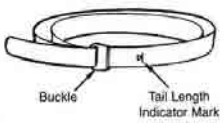


Figure 3


Figure 4

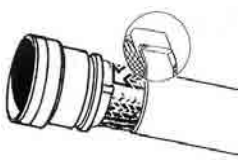


Figure 5

HOW TO ORDER

Amphenol designation – Backshells for TV-CTV (MIL-DTL-38999 series III), SC39 and RNJ LP connectors

Series	**TV**	**35**	**11**	**10**	**08**	**014**
Type of backshell						
35: aluminium straight band backshell accepting heat shrink moulded piece						
B35: bronze straight band backshell accepting heat shrink moulded piece						
SBC: aluminium right angled band backshell accepting heat shrink moulded piece						
Size of backshell	**09-11-13-15-17-19-21-23-25** *(same as connector size)*					
Cabling chamber length	**10-20-25-30**					
For straight versions only - Refer to page 9 – Dimension F (mm)						
Rear side diameter						
Refer to page 9 – Dimension Z (1/32 of inch)						
Finish						
014: olive-drab cadmium plating						
023: electroless nickel plating						
Blank: for bronze version						

BAND BACKSHELLS FOR **SHIELDING**

HE 308 military designation – Backshells for HE 308 (LJT / MIL-DTL-38999 series I / RNJ) connectors

Series	HE308	- 35	- 11	- 10	- 08	- 7	M
Type of backshell							
35: band backshell accepting heat shrink moulded piece							
Size of backshell	**09-11-13-15-17-19-21-23-25** *(same as connector size)*						
Cabling chamber length	**10-20-25-30**						
Refer to page 9 – Dimension F (mm)							
Rear side diameter							
Refer to page 9 – Dimension Z (1/32 of inch)							
Finish							
7: olive-drab cadmium plating							
6: electroless nickel plating							
Military standard							

Note: Dashes are required in the P/N

Amphenol designation - Backshells for LJT (MIL-DTL-38999 series I / HE308), RNJ (HE308) and SJT (VG96912) connectors

Series	LJT	SBC	11	08	014
Type of backshell					
SBC: aluminium right angled band backshell accepting heat shrink moulded piece					
Size of backshell	**09-11-13-15-17-19-21-23-25** *(same as connector size)*				
Rear side diameter					
Refer to page 10 – Dimension Z (1/32 of inch)					
Finish					
014: olive-drab cadmium plating					
023: electroless nickel plating					

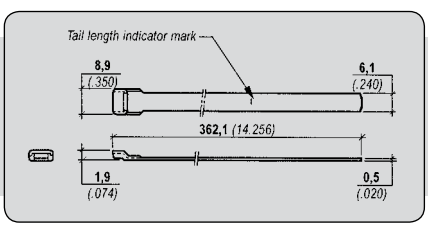
TOOLING & ACCESSORIES

Coupling tool

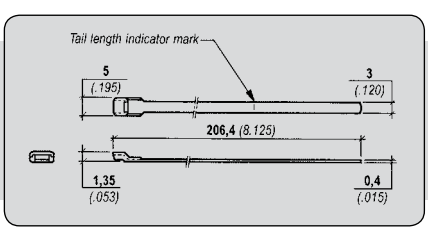
Coupling wrench for HE308-35 and TV(B) 35 backshells: **116.50** (Facom p/n)

Clamping bands

Standard band: **072952**



Micro band (precoiled): **895693**



Hand banding tools

Banding tool for standard band: **809952**

Banding tool for micro band: **809953**

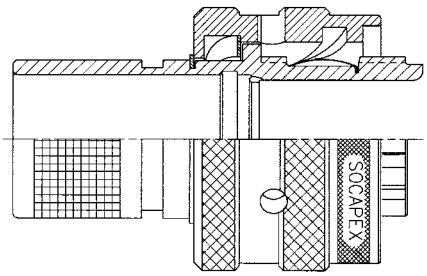
Caution: Tools and bands should never be lubricated

Integrated backshells

Suitable for LJT (MIL-DTL-38999 series I / HE308), JT (MIL-DTL-38999 series II), TV (MIL-DTL-38999 series III), SC39 and SJT (VG96912) connectors.

Available on plugs and receptacles, these 2 in 1 connectors/band backshells provide a high EMI protection with a quick, easy and cost effective cabling process. They are low profile, with enhance sealing level and allow the use of macro and micro bands, as well as straight or right angled heat shrink moulded pieces. The design of the shells make them compatible with over moulding process.

Do not hesitate to consult us.

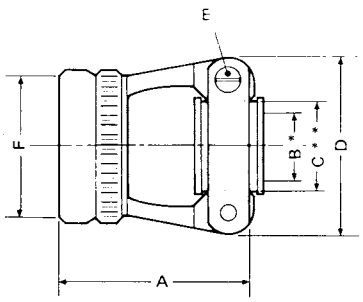


STRAIN **RELIEFS**

These backshells ensure a mechanical retention of the cable.

SRD backshells

JT SRD *suitable for JT (MIL-DTL-38999 series II) connectors.*



JT SRD

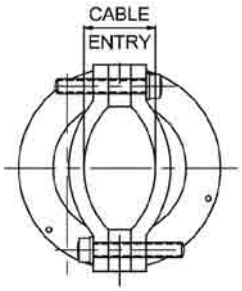
Size	A Thread UNEF-2B	Ø B +0.25 -0.64 mm (in)	Ø C +0.3 mm (in)	Ø D +0.3 mm (in)	E max mm (in)
08	.4375-28	3.18 (0.125)	6.35 (0.250)	19.05 (0.750)	23.88 (0.940)
10	.5625-24	4.78 (0.188)	7.92 (0.312)	20.62 (0.812)	23.88 (0.940)
12	.6875-24	7.92 (0.312)	11.13 (0.438)	23.83 (0.938)	23.88 (0.940)
14	.8125-20	9.53 (0.375)	14.27 (0.562)	26.97 (1.062)	30.23 (1.190)
16	.9375-20	12.70 (0.500)	15.88 (0.625)	28.58 (1.125)	30.23 (1.190)
18	1.0625-18	15.88 (0.625)	19.05 (0.750)	34.93 (1.375)	30.23 (1.190)
20	1.1875-18	15.88 (0.625)	19.05 (0.750)	34.93 (1.375)	30.23 (1.190)
22	1.3125-18	19.05 (0.750)	23.83 (0.938)	39.67 (1.562)	33.40 (1.315)
24	1.4375-18	20.32 (0.800)	25.40 (1.000)	42.06 (1.656)	33.40 (1.315)

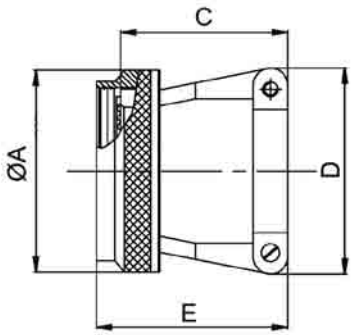
For ordering information, please refer to page 18

STRAIN **RELIEFS**

M85049/49-2 strain relief *suitable for LJT (MIL-DTL-38999 series I / HE308) and RNJ (HE308) connectors.*

M85049/38 strain relief *suitable for TV-CTV (MIL-DTL-38999 series III), SC39 and RNJ LP connectors.*





Size	Thread for M85049/49-2 UNEF-2B	Thread for M85049/38 Metric	Ø A max mm (in)	C max mm (in)	Ø D max mm (in)	E max mm (in)	Cable Entry mm (in)	
							min	max
09	.4375-28	M12 x 1.0 – 6H	19.05 (0.75)	23.11 (0.91)	21.59 (0.85)	27.94 (1.10)	2.49 (0.10)	5.94 (0.23)
11	.5625-24	M15 x 1.0 – 6H	21.59 (0.85)	23.11 (0.91)	22.86 (0.90)	27.94 (1.10)	3.89 (0.15)	5.94 (0.23)
13	.6875-24	M18 x 1.0 – 6H	25.40 (1.00)	25.65 (1.01)	27.94 (1.10)	30.48 (1.20)	4.83 (0.19)	8.33 (0.33)
15	.8125-20	M22 x 1.0 – 6H	27.94 (1.10)	26.92 (1.06)	29.21 (1.15)	31.75 (1.25)	6.60 (0.26)	11.61 (0.46)
17	.9375-20	M25 x 1.0 – 6H	31.75 (1.25)	29.46 (1.16)	33.02 (1.30)	34.44 (1.36)	7.19 (0.28)	15.60 (0.61)
19	1.0625-18	M28 x 1.0 – 6H	35.56 (1.40)	35.81 (1.41)	38.10 (1.50)	40.64 (1.60)	8.26 (0.33)	16.10 (0.63)
21	1.1875-18	M31 x 1.0 – 6H	38.10 (1.50)	38.35 (1.51)	40.64 (1.60)	43.21 (1.70)	8.71 (0.34)	17.73 (0.70)
23	1.3125-18	M34 x 1.0 – 6H	41.91 (1.65)	42.16 (1.66)	43.18 (1.70)	46.99 (1.85)	9.68 (0.38)	20.90 (0.82)
25	1.4375-18	M37 x 1.0 – 6H	44.45 (1.75)	44.70 (1.76)	45.72 (1.80)	49.56 (1.95)	10.62 (0.42)	21.67 (0.85)

How to order M85049 strain reliefs

Series	**M85049/**	**49-2**	**12**	**W**
Type of strain relief				
49-2: for LJT (MIL-DTL-38999 series I / HE308) and RNJ (HE308) connectors				
38: for TV-CTV (MIL-DTL-38999 series III), SC39 and RNJ LP connectors				
Size of backshell				
08-10-12-14-16-18-20-22-24 for LJT (MIL-DTL-38999 series I / HE308) and RNJ (HE308) connectors				
09-11-13-15-17-19-21-23-25 (same as connector size) for TV-CTV (MIL-DTL-38999 series III), SC39 and RNJ LP connectors				
Finish				
W: olive-drab cadmium plating				
N: electroless nickel plating				

ADAPTERS FOR **HEAT SHRINK MOULDED PIECES**

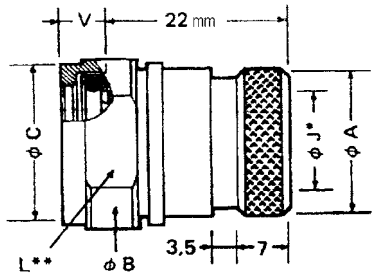
These backshells ensure the sealing and the mechanical retention of the cable.

NSD backshells

LJT NSD *(HE308-14) suitable for LJT (MIL-DTL-38999 series I / HE308), RNJ (HE308) and SJT (VG96912) connectors.*

TV NSD *suitable for TV-CTV (MIL-DTL-38999 series III), SC39 and RNJ LP connectors.*

For straight and right angled heat shrink moulded pieces, please refer to page 17-18.



Size	A mm (in)	B ±0.2 mm (in)	C max mm (in)	J* min mm (in)	K max mm (in)	L** max mm (in)
9	12.60 (0.496)	20.00 (0.787)	16.00 (0.630)	7.80 (0.307)	9.50 (0.374)	16.80 (0.661)
11	16.40 (0.646)	23.00 (0.906)	19.00 (0.748)	10.80 (0.425)	12.50 (0.492)	20.80 (0.819)
13	20.00 (0.787)	26.00 (1.024)	22.00 (0.866)	13.10 (0.516)	15.50 (0.610)	22.80 (0.898)
15	22.00 (0.866)	29.00 (1.142)	25.10 (0.988)	16.30 (0.642)	18.50 (0.728)	25.80 (1.016)
17	24.60 (0.969)	32.00 (1.260)	28.30 (1.114)	19.00 (0.748)	21.50 (0.847)	28.80 (1.134)
19	27.50 (1.083)	35.00 (1.378)	31.30 (1.232)	21.70 (0.854)	24.00 (0.945)	31.80 (1.252)
21	31.90 (1.256)	39.00 (1.536)	34.50 (1.358)	24.90 (0.980)	27.00 (1.063)	35.80 (1.409)
23	35.00 (1.378)	42.00 (1.654)	37.70 (1.484)	28.10 (1.106)	30.50 (1.201)	38.80 (1.528)
25	38.80 (1.528)	45.00 (1.772)	40.80 (1.606)	31.20 (1.228)	33.50 (1.319)	41.80 (1.646)

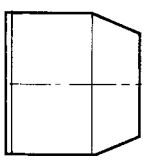
** dimension over the flats (4 flats)

BACKSHELLS FOR **POTTING**

These backshells ensure the sealing.

RPD backshells

LJT RPD *suitable for LJT (MIL-DTL-38999 series I / HE308), RNJ (HE308) and JT (MIL-DTL-38999 series II) connectors.*



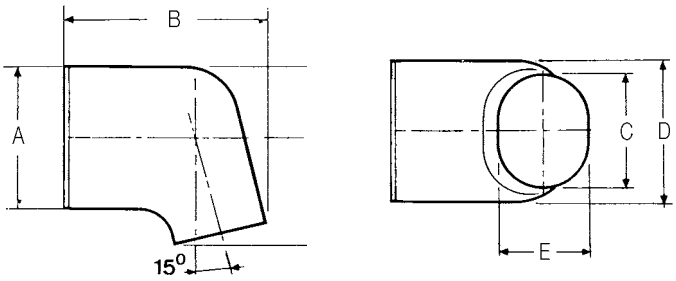
Size	A Thread UNEF-2B	B max mm (in)	Ø C mm (in)	Ø D mm (in)
09	.4375-28	20.06 (0.790)	14.80 (0.583)	8.30 (0.327)
11	.5625-24	20.06 (0.790)	18.00 (0.709)	11.30 (0.445)
13	.6875-24	20.06 (0.790)	21.10 (0.831)	14.20 (0.559)
15	.8125-20	20.06 (0.790)	24.30 (0.957)	17.30 (0.681)
17	.9375-20	20.06 (0.790)	27.50 (1.083)	20.50 (0.807)
19	1.0625-18	20.06 (0.790)	30.70 (1.209)	23.10 (0.909)
21	1.1875-18	21.56 (0.849)	33.90 (1.335)	26.30 (1.035)
23	1.3125-18	21.56 (0.849)	37.00 (1.457)	29.40 (1.158)
25	1.4375-18	20.86 (0.821)	40.20 (1.583)	32.60 (1.284)

For ordering information, please refer to page 18

BACKSHELLS FOR **POTTING**

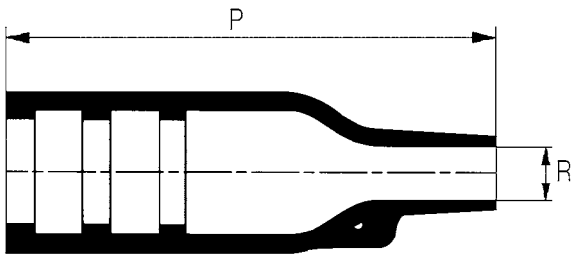
RPC backshells

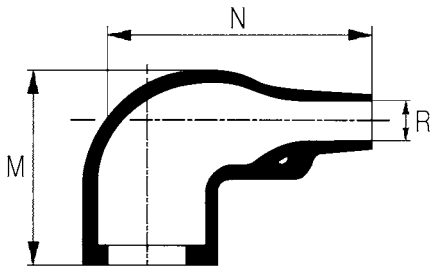
LJT RPC *suitable for LJT (MIL-DTL-38999 series I / HE308), RNJ (HE308) and JT (MIL-DTL-38999 series II) connectors.*



Size	A Thread UNEF-2B	B max mm (in)	Ø C +0.4 mm (in)	Ø D mm (in)	Ø E +0.4 mm (in)	Ø F max mm (in)
09	.4375-28	25.06 (0.987)	11.10 (0.437)	15.20 (0.598)	7.90 (0.311)	19.70 (0.776)
11	.5625-24	28.16 (1.109)	14.30 (0.563)	18.40 (0.724)	11.10 (0.437)	23.20 (0.913)
13	.6875-24	29.86 (1.176)	17.50 (0.689)	21.90 (0.862)	13.10 (0.516)	26.50 (1.043)
15	.8125-20	32.56 (1.282)	19.80 (0.780)	24.70 (0.972)	15.90 (0.626)	30.80 (1.213)
17	.9375-20	33.56 (1.321)	22.60 (0.890)	27.90 (1.098)	16.70 (0.656)	32.80 (1.291)
19	1.0625-18	34.86 (1.372)	25.40 (1.000)	31.10 (1.224)	17.90 (0.705)	35.50 (1.398)
21	1.1875-18	37.26 (1.467)	28.60 (1.126)	34.30 (1.350)	19.50 (0.768)	38.90 (1.531)
23	1.3125-18	38.16 (1.502)	31.30 (1.232)	37.40 (1.472)	20.60 (0.811)	41.60 (1.638)
25	1.4375-18	44.46 (1.750)	34.90 (1.374)	40.60 (1.598)	23.30 (0.917)	50.00 (1.969)

HEAT-SHRINK MOULDED PIECES





Heat-shrink moulded piece p/n		M max mm (in)	N ±10% mm (in)	P ±10% mm (in)	Ø r mm (in)	
Straight	Right angled	After total heating			Before heating (max)	After heating (min cable Ø)
804221 814221	804231 814231	25.40 (1.000)	25.00 (0.984)	38.40 (1.512)	24.00 (0.945)	6.00 (0.236)
804222 814222	804232 814232	27.20 (1.071)	32.00 (1.260)	54.90 (2.161)	30.00 (1.181)	6.00 (0.236)
804223 814223	804233 814233	30.50 (1.201)	39.40 (1.551)	66.80 (2.630)	31.00 (1.220)	7.10 (0.280)
804225 814227	804235 814235	38.00 (1.496)	46.00 (1.811)	80.00 (3.150)	36.00 (1.417)	8.50 (0.335)
804227 814227	804237 814237	45.00 (1.772)	55.00 (2.165)	99.10 (3.902)	43.00 (1.693)	10.00 (0.394)
804229 814229	804239 814239	54.00 (2.126)	80.00 (3.150)	130.00 (5.118)	60.00 (2.362)	16.00 (0.630)

Standard heat-shrink moulded pieces (semi-rigid polyolefin – without any adhesive)

Size	Backshell type	Rear size coding	Straight			Right angled		
			Amphenol Socapex p/n	Raychem p/n	Hellerman p/n	Amphenol Socapex p/n	Raychem p/n	Hellerman p/n
9	NSA, NSB, NSD	-	804221	202K121-3	152-42-G	804231	222K121-3	1152-4-G
	HE308-35, TV35, TVB35, SBC	08	804221	202K121-3	152-42-G	804231	222K121-3	1152-4-G
11	NSA, NSB, NSD	-	804222	202K132-3	154-42-G	804232	222K132-3	1154-4-G
	HE308-35, TV35, TVB35, SBC	12	804222	202K132-3	154-42-G	804232	222K132-3	1154-4-G
13	NSA, NSB, NSD	-	804223	202K142-3	155-42-G	804233	222K142-3	1155-4-G
	HE308-35, TV35, TVB35, SBC	12	804222	202K132-3	154-42-G	804232	222K132-3	1154-4-G
		16	804223	202K142-3	155-42-G	804233	222K142-3	1155-4-G
15	NSA	-	804225	202K153-3	156-42-G	804235	222K152-3	1156-4-G
	NSB, NSD	-	804223	202K142-3	155-42-G	804233	222K142-3	1155-4-G
	HE308-35, TV35, TVB35, SBC	14	804222	202K132-3	154-42-G	804232	222K132-3	1154-4-G
		20	804225	202K153-3	156-42-G	804235	222K152-3	1156-4-G
17	NSA	-	804227	202K163-3	157-43-G	804237	222K163-3	1157-4-G
	NSB, NSD	-	804225	202K153-3	156-42-G	804235	222K152-3	1156-4-G
	HE308-35, TV35, TVB35, SBC	12	804222	202K132-3	154-42-G	804232	222K132-3	1154-4-G
		16	804223	202K142-3	155-42-G	804233	222K142-3	1155-4-G
		24	804225	202K153-3	156-42-G	804235	222K152-3	1156-4-G
19	NSA	-	804227	202K163-3	157-43-G	804237	222K163-3	1157-4-G
	NSB, NSD	-	804225	202K153-3	156-42-G	804235	222K152-3	1156-4-G
	HE308-35, TV35, TVB35, SBC	16	804223	202K142-3	155-42-G	804233	222K142-3	1155-4-G
		24	804225	202K153-3	156-42-G	804235	222K152-3	1156-4-G
21	NSA, NSB, NSD	-	804227	202K163-3	157-43-G	804237	222K163-3	1157-4-G
	HE308-35, TV35, TVB35, SBC	14	804222	202K132-3	154-42-G	804232	222K132-3	1154-4-G
		20	804225	202K153-3	156-42-G	804235	222K152-3	1156-4-G
		28	804227	202K163-3	157-43-G	804237	222K163-3	1157-4-G
23	NSA, NSB, NSD	-	804229	202K174-3	158-43-G	804239	222K174-3	1158-4-G
	HE308-35, TV35, TVB35, SBC	24	804225	202K153-3	156-42-G	804235	222K152-3	1156-4-G
		32	804227	202K163-3	157-43-G	804237	222K163-3	1157-4-G
25	NSA, NSB, NSD	-	804229	202K174-3	158-43-G	804239	222K174-3	1158-4-G
	HE308-35, TV35, TVB35, SBC	28	804227	202K163-3	157-43-G	804237	222K163-3	1157-4-G
		36	804229	202K174-3	158-43-G	804239	222K174-3	1158-4-G

HOW TO **ORDER**

Amphenol designation - Backshells for LJT (MIL-DTL-38999 series I / HE308), RNJ (HE308) and SJT* (VG96912) connectors

Series	LJT	NSA	11	014	-
Type of backshell					
NSA: screened clamping braid backshell accepting heat shrink moulded piece					
SQ: simple screened clamping braid backshell accepting heat shrink moulded piece					
NSB: screened soldering braid backshell accepting heat shrink moulded piece					
NSD: backshell for heat shrink moulded piece					
RPD: straight backshell for potting					
RPC: 75° angled backshell for potting					
Size of backshell 09-11-13-15-17-19-21-23-25					
for LJT connectors: same as connector size					
for SJT (G)06 and 00 connectors: greater than the connector size by 1					
for SJT07 sizes 8 to 22 connectors: greater than the connector size by 3					
Consult us for SJT07 size 24 connector					
Finish					
014: olive-drab cadmium plating					
023: electroless nickel plating					
Deviation					
F428: backshells for SJT* connectors only					

*** :** for NSA, NSB, NSD, SQ only

Amphenol designation – Backshells for TV-CTV (MIL-DTL-38999 series III), SC39 and RNJ LP connectors

Series	TV	NSA	11	014
Type of backshell				
NSA: screened clamping braid backshell accepting heat shrink moulded piece				
NSD: backshell for heat shrink moulded piece				
Size of backshell 09-11-13-15-17-19-21-23-25 *(same as connector size)*				
Finish				
014: olive-drab cadmium plating				
023: electroless nickel plating				

HE 308 military designation – Backshells for HE 308 (LJT / MIL-DTL-38999 series I / RNJ) connectors

Series	HE 308	13	15	7	M
Type of backshell					
13: screened clamping braid backshell accepting heat shrink moulded piece					
14: backshell for heat shrink moulded piece					
15: straight backshell for potting					
Size of backshell 09-11-13-15-17-19-21-23-25 *(same as connector size)*					
Finish					
7: olive-drab cadmium plating					
6: electroless nickel plating					
Military standard					

Amphenol designation – Backshells for JT (MIL-DTL-38999 series II) connectors

Series	JT	SA	12	014
Type of backshell				
SA: screened clamping braid backshell accepting heat shrink moulded piece				
SRD : straight cable clamp				
RPD: straight backshell for potting				
RPC: 75° angled backshell for potting				
Size of backshell 08-10-12-14-16-18-20-22-24 *(same as connector size)*				
Finish				
014: olive-drab cadmium plating				
023: electroless nickel plating				

TORQUES VALUES FOR **REAR ACCESSORIES**

According to the MIL-C-85049 standard

For LJT / RNJ / HE308 / MIL-DTL-38999 I connectors		For JT / MIL-DTL-38999 II connectors		For TV-CTV / MIL-DTL-38999 III connectors			For SJT / VG96912 connectors	
Shell size	Max torque value (N.m)	Shell size	Max torque value (N.m)	Shell size	Metal Max torque value (N.m)	Composite Max torque value (N.m)	Shell size	Max torque value (N.m)
09	5.0	08	5.0	09	7.2	5.0	08	5.0
11	5.0	10	5.0	11	9.5	5.0	10	5.0
13	5.0	12	5.0	13	13.1	5.0	12	5.0
15	5.0	14	5.0	15	14.0	5.0	14	5.0
17	5.0	16	5.0	17	14.0	5.0	16	5.0
19	5.0	18	5.0	19	14.0	5.0	18	5.0
21	9.5	20	9.5	21	16.3	9.5	20	9.5
23	9.5	22	9.5	23	16.3	9.5	22	9.5
25	9.5	24	9.5	25	16.3	9.5	24	9.5

CROSS **REFERENCES**

The cross references below are given as information only. The designs of the backshells are not strictly equivalent.

Amphenol p/n	NFC UTE 93422 / HE308 p/n	MIL-C-85049 p/n	VG96912 p/n
LJT NSA xx 014	HE308 13 xx 7M	-	-
LJT NSA xx 023	HE308 13 xx 6M	-	-
LJT SQ xx 014 F428	-	-	VG96912 L xx
HE308-35-xx-xx-xx-7M	HE308-35-xx-xx-xx-7M	-	-
HE308-35-xx-xx-xx-6M	HE308-35-xx-xx-xx-6M	-	-
JT SRD xx 014	-	M85049/49-2-xx W	-
JT SRD xx 023	-	M85049/49-2-xx N	-
LJT NSD xx 014	HE308 14 xx 7M	M85049/62-xx W	-
LJT NSD xx 023	HE308 14 xx 6M	-	-
LJT NSD xx 014 F428	-	-	VG96912 F1 xx
LJT RPD xx 014	HE308 15 xx 7M	M85049/58-xx + M85049/75-xx-1	-
LJT RPD xx 023	HE308 15 xx 6M	-	-
LJT RPC xx 014	HE308 16 xx 7M	-	-
LJT RPC xx 023	HE308 16 xx 6M	-	-

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