

Amphenol SOCAPEX

LJT/HE308

MIL-DTL-38999 Series I
Subminiature cylindrical connectors



■■■ Description

Amphenol Socapex is a MIL-DTL-38999 series I standard QPL and HE308 qualified manufacturer. The LJT product range was developed to meet the needs of the aerospace and military industries. It offers bayonet coupling connectors with a large variety of contact arrangements and shell types, maximum weight / space saving and a 100 % contact protection.

■■■ General Characteristics

- **Shell material**

- Aluminium alloy
- Marine bronze available - RoHS compliant
- Carbon steel (for hermetic receptacles)

- **Finish**

- Olive drab cadmium plating
- Electroless nickel plating - RoHS compliant
- Tin plating (for hermetic receptacles)
- Cadmium free versions available
- Others, please consult us (bright cadmium, black anodic coating)

- **9 shell sizes from 09 to 25**

- **Contacts**

- More than 60 arrangements of contacts including high density and power versions
- Size 00, 4, 8, 12, 16, 20, 22D, 23 contacts
- Signal: crimp, PCB, wire-wrap, cable soldering (hermetic only)
- Power: crimp, cable soldering, PCB
- Coax: crimp, PCB
- Twinax: crimp, PCB
- Optical termini
- Quadrax and differential twinax

- **Contact protection**

- 100 % scoop-proof shell
- Improved interfacial seal ensures sealing around each contact and prevents electrolytic erosion

- **EMI / RFI protection**

- Grounding fingers on the plug shell
- Grounded versions available

■■■ Applications

- **Military avionic applications**
- **Military vehicles, battlefield communication**

■■■ Additional Information

- Contacts (refer to datasheet DOC-000030-ANG)
- Power connectors, refer to datasheets LJT 25-1A (E116), LJT 21-48 (E117), LJT 23-P1 (E122), LJT 25-P1,
- Backshells (refer to datasheet E118)
- EWOC: Environmental Weatherproof Optical Connectors (refer to DOC-000503-ANG)
- High Density 38999

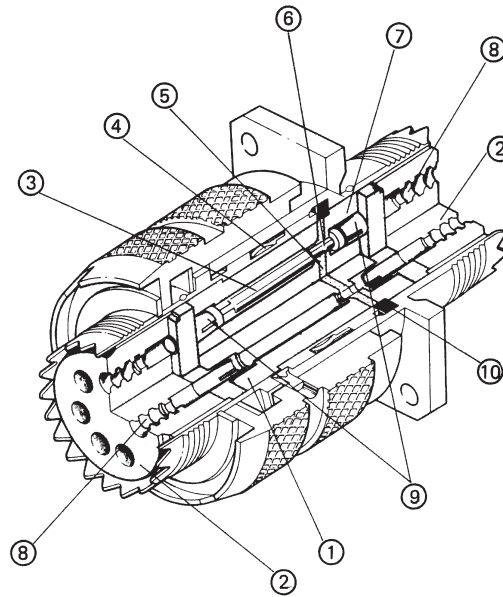
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Technical Characteristics

Description

- 1 - Socket insert
- 2 - Grommet
- 3 - Crimping socket contact
- 4 - Grounding fingers (EMI)
- 5 - Interfacial seal
- 6 - Crimping pin contact
- 7 - Pin insert
- 8 - Sealing
- 9 - Contact retention clips
- 10 - Receptacle seal



Mechanical characteristics

- Thermoplastic insert
- Fluorosilicone grommet and interfacial seal
- Durability: 500 cycles
- Contact retention force:

Contact Size	22 D	20	16	12	8	4	00
Maximum load (N)	45	67	110	110	150	150	150

■ ■ ■ Technical Characteristics

Environmental characteristics

SALT SPRAY EXPOSURE AND WORKING TEMPERATURE:

Waterproof shells

Shell material	Shell finish	Salt spray exposure per MIL.STD 1344/1099	Working temperature	
			min	max
Aluminium	Electroless Nickel	48 H	- 65° C	+ 200° C
	O.D cadmium	500 H	- 65° C	+ 175° C
	Black Zinc Nickel	96H	- 65° C	+ 175° C
Bronze*	-	1000 H	- 65° C	+ 200° C

* Consult us

Hermetic shells

Shell material	Shell finish	Salt spray exposure per MIL.STD 1344/1099	Working temperature	
			min	max
Carbon steel	Tin	48 H	- 65° C	+ 150° C
Carbon Steel	O.D. Cadmium	500 H	- 65° C	+ 175° C

HUMIDITY: per MIL-DTL-38999 par. 3.29

AIR LEAKAGE: 1.10^{-7} cm³ /s under 1 bar of differential pressure (hermetics only)

FLUID IMMERSION per EIA364.10:

- Hydraulic fluid, per MIL-H-5606
- Turbine fluid, grade JP-8, per MIL-DTL-83133 (NATO TYPE 34)
- Lubricating oil, per MIL-L-7808
- Lubricating oil, per MIL-PRF-23699
- Defrosting fluid, per MIL-A-8243
- Cleaning compound, diluted for cleaning, per MIL-PRF-87937 type I alkaline base
- Gasoline, per ASTM-D-4814
- Gasohol, per A-A-52530
- One part isopropyl alcohol, per TT-I-735, grade A or B ; and 3 parts mineral spirits, per A-A-2904, type II, grade A or P-D-680, type I, by volume
- Coolant, dielectric fluid, synthetic silicate ester base MIL-PRF-47220 (Coolanol 25) or equivalent
- Hydraulic fluid M2-V Chevron oil ST0145LB0001 or equivalent

Technical Characteristics

Electrical characteristics

CONTACT RATING: NOMINAL CURRENT PER CONTACT

Contact size	22 D	20	16	12	8	4	00
Crimp (A)	5	7.5	13	23	60	100	230
Hermetic (A)	3	5	10	17	-	-	-
PC Tail (A)	3	4.5	10	17	40	-	-

CONTACT RESISTANCE

Contact size	22 D	20	16	12	8	4	00
Contact resistance (mΩ)	8	5	3	2	2	2	2

INSULATION RESISTANCE

Insulation resistance (500 V)	Crimp	Hermetic
Ambiant temperature	≥ 5.10 ³ MΩ	≥ 5.10 ³ MΩ
Maximal temperature	≥ 5.10 ² MΩ	≥ 5.10 ² MΩ

SERVICE RATING**

Service	Dielectric withstanding voltage (Vrms)								Working voltage	
	At sea level		15000 meters		21000 meters		34000 meters		Vrms	Vdc
	mated	unmated	mated	unmated	mated	unmated	mated	unmated		
M	1300	1300	800	550	800	350	800	200	400	550
N	1000	1000	-	400	-	260	-	200	300	450
I	1800	1800	1000	600	1000	400	1000	200	600	850
II	2300	2300	1000	800	1000	500	1000	200	900	1250

** Please note that the establishment of electrical safety factor is left entirely in the designer's hands, since he is the best position to know what peak voltage, switching surges, transients, etc... can be expected in a particular circuit.

DIMENSIONS OF ACCEPTABLE CONTACTS AND CABLES

Contact Size	Contact Diameter mm	Acceptable cables						
		Gauge AWG Section mm ²				Outside diameter (mm)		
		Min	Average	Max				
22D	0.76	22	24	26	28	0.76	1.20	1.37
		0.38	0.22	0.15	0.095			
20	1	20	22	24	-	1.02	1.83	2.11
		0.60	0.38	0.22	-			
16	1.57	16	18	20	-	1.68	2.41	2.77
		1.34	0.93	0.60	-			
12	2.36	12	14	-	-	2.46	3.20	3.61
		3.30	1.94	-	-			
8 power	3.60	8				4.5	-	5.8
		8.98 Max acceptable: 10mm ²						
4	5.70	4				7.7	-	8.4
		21.10						
00	10.3	00				13.3	-	14.7
		100						

Technical Characteristics

Insert arrangements

Front face view of male insert

The major keyway is shown in the «normal» position

Contact size	22D	20	16	12	8	4	00
Caption	●	⊖	⊕	◐	●	○	⊗

1 Insert arrangement reference
2 Service class

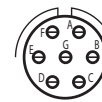
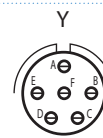
3 Number of contacts
4 Contact sizes

09



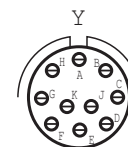
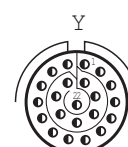
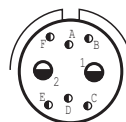
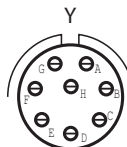
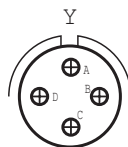
1	09-35	09-98
2	M	I
3	6	3
4	22D	20

11



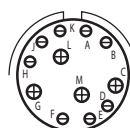
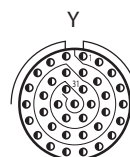
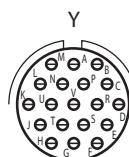
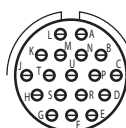
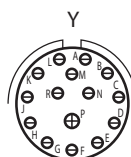
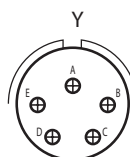
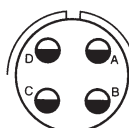
1	11-02	11-04	11-05	11-12 (11-01) **	11-35	11-98	11-99
2	I	I	I	II	M	I	I
3	2	4	5	1	13	6	7
4	16	20	20	12	22D	20	20

13



1	13-04	13-08	13-26		13-35	13-98
2	I	I	M		M	I
3	4	8	6	2	22	10
4	16	20	22D	12	22D	20

15



1	15-04	15-05	15-15		15-18	15-19	15-35	15-97	
2	I	II	I		I	I	M	I	
3	4	5	14	1	18	19	37	8	4
4	12	16	20	16	20	20	22D	20	16

* Military P/N delivered with 8 twinax and proprietary P/N delivered with size 8 coaxial contacts for RG 180 and RG 195 wire.

** HE308 arrangement designation in brackets.

Y Available in hermetic version.

○ Delivered with twinax contacts for simple braid cable (M17/1760002, AECMA Pr EN 3375 - 003, Raychem 10612, EPD44690, EPD44691).

Technical Characteristics

Insert arrangements

Front face view of male insert

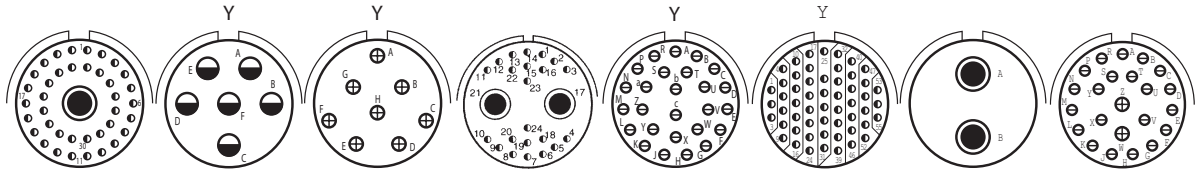
The major keyway is shown in the «normal» position

Contact size	22D	20	16	12	8	4	00
Caption	●	⊖	⊕	◐	●	○	⊗

1 Insert arrangement reference
2 Service class

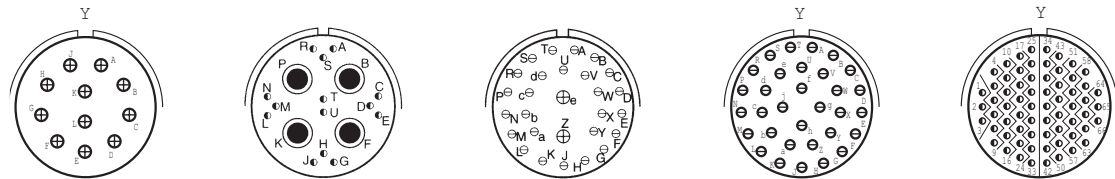
3 Number of contacts
4 Contact sizes

17



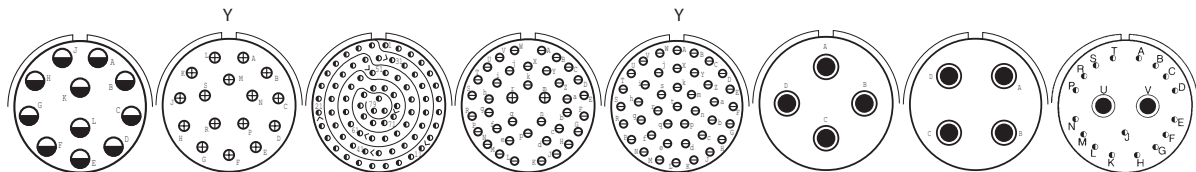
1	17-02	17-06	17-08	17-25	17-26	17-35	17-75	17-99		
2	M	I	II	M	I	M	I	I		
3	38	1	6	22	2	55	2	21	2	
4	22D	8 Twinax ^o	12	22D	8 Coax	20	22D	8 Twinax ^o	20	16

19



1	19-11	19-18	19-28	19-32	19-35		
2	II		I	I	M		
3	11	14	4	26	2	32	66
4	16	22D	8 Twinax ^o	20	16	20	22D

21



1	21-11	21-16	21-35	21-39	21-41	21-48	21-75	21-79		
2	I	II	M	I	I	M	M	II		
3	11	16	79	37	2	41	4	17	2	
4	12	16	22D	20	16	20	8 Power	8 Coax or 8 Twinax ^o	22D	8 Coax [△]

* Military P/N delivered with 8 twinax and proprietary P/N delivered with size 8 coaxial contacts for RG 180 and RG 195 wire.

Y Available in hermetic version.

△ Coax contacts are not supplied unless specified by customer.

○ Delivered with twinax contacts for simple braid cable (M17/1760002, AECMA Pr EN 3375 - 003, Raychem 10612, EPD44690, EPD44691).

Technical Characteristics

Insert arrangements

Front face view of male insert

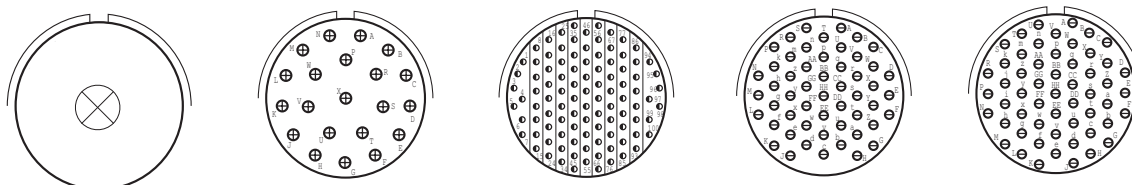
The major keyway is shown in the «normal» position

Contact size	22D	20	16	12	8	4	00
Caption	●	⊖	⊕	◐	●	○	⊗

1 Insert arrangement reference
2 Service class

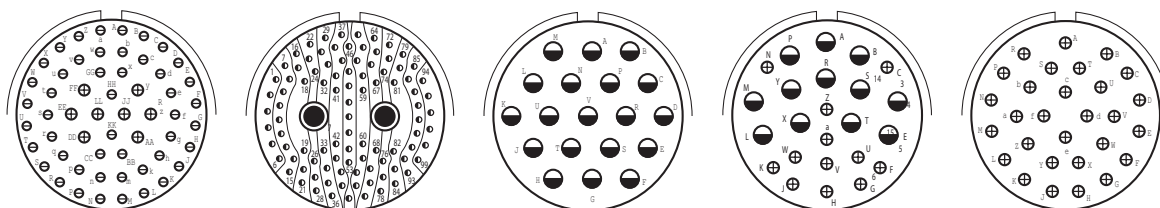
3 Number of contacts
4 Contact sizes

23



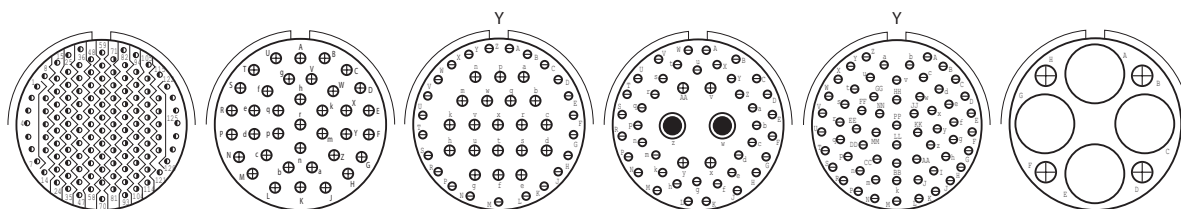
1	23-P1 (23-01)**	23-21	23-35	23-53	23-55
2	-	II	M	I	I
3	1	21	100	53	55
4	00 Power	16	22D	20	20

25



1	25-04	25-07	25-19	25-24	25-29			
2	I	M	I	I	I			
3	48	8	97	2	19	12	12	29
4	20	16	22D	8 Twinax ^o	12	16	12	16

25



1	25-35	25-37	25-43	25-46	25-61	25-1A (25-44)**	
2	M	I	I	I	I	M	
3	128	37	23	20	40	4	4
4	22D	16	20	16	20	16	4

* Military P/N delivered with 8 twinax and proprietary P/N delivered with size 8 coaxial contacts for RG 180 and RG 195 wire.

** HE308 arrangement designation in brackets.

Y Available in hermetic version.

○ Delivered with twinax contacts for simple braid cable (M17/1760002, AECMA Pr EN 3375 - 003, Raychem 10612, EPD44690, EPD44691).

■ ■ ■ Technical Characteristics

Insert arrangements

Arrangements of contacts	Hermetic (Y)	Service Rating	Total Contacts	Number and Size of Contacts									
				22D	20	16	12	12 Coax	8 power	8 coax	8 twinax	4	
09-35	Pin only	M	6	6									
09-98	Pin only	I	3		3								
11-02	Pin only	I	2			2							
11-04	-	I	4		4								
11-05	-	I	5		5								
11-12 (11-01)	-		1				1						
11-35	Pin only	M	13	13									
11-98	Pin only	I	6		6								
11-99	-	I	7		7								
13-04	Pin only	I	4			4							
13-08	Pin only	I	8		8								
13-26	-	M	8	6			2						
13-35	Pin only	M	22	22									
13-98	Pin only	I	10		10								
15-04	-	I	4				4						
15-05	-	II	5			5							
15-15	Pin only	I	15		14	1							
15-18	Pin only	I	18		18								
15-19	-	I	19		19								
15-35	Pin only	M	37	37									
15-97	Pin only	I	12		8	4							
17-02	-	M	39	38									
17-06	Pin only	I	6				6						
17-08	Pin only	II	8			8							
17-25	-	M	24	22						2			
17-26	Pin only	I	26		26								
17-35	Pin only	M	55	55									
17-75	-	I	2								2		
17-99	-	I	23		21	2							
19-11	Pin only	II	11			11							
19-18	-	M	18	14							4		
19-28	-	I	28		26	2							
19-32	Pin only	I	32		32								
19-35	-	M	66	66									
21-11	-	I	11				11						
21-16	Pin only	II	16			16							

Bold letters: Preferred arrangement.

Technical Characteristics

Insert arrangements

Arrangements of contacts	Hermetic (Y)	Service Rating	Total Contacts	Number and Size of Contacts											
				22D	20	16	12	12 Coax	8 power	8 coax	8 twinax	4	00		
21-35	-	M	79	79											
21-39	-	I	39		37	2									
21-41	-	I	41		41										
21-48	-		4							4					
21-75	-	N	4							(see note 4)					
21-79	-	II	19	17					(see note 5)	2					
23-P1 (23-01)	-		1												1
23-21	Pin only	II	21			21									
23-35	-	M	100	100											
23-53	-	I	53		53										
23-55	-	I	55		55										
25-04	-	I	56		48	8									
25-07	-	M	99	97								2			
25-19	-	I	19				19								
25-24	-	I	24			12	12								
25-29	-		29			29									
25-35	-	M	128	128											
25-37	-	I	39			37									
25-43	Pin only	I	43		23	20									
25-46	-	I	46		40	4					2				
25-61	Pin only	I	61		61										
25-1 A (25-44)	-	M	8			4								4	

Bold letters: Preferred arrangement.

Note 4: MS connector 21-75 is supplied with four size 8 twinax contacts.

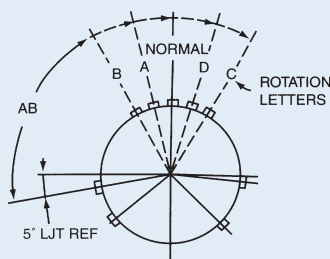
Proprietary connector 21-75 is supplied with 4 size 8 coax contacts.

Note 5: MS connector 21-79 has provision for 2 size 8 coax contacts.

Coax contacts are not supplied unless specified by customer.

Coding

To avoid cross-plugging problems in applications that require the use of more than one MIL-DTL-38999 I connector of the same size, alternate key-rotations are available as indicated in the chart below. As shown in the following diagram the master key rotates in the shell, and the insert always remains in the same position relative to the minor keys.



RELATIVE POSSIBLE POSITION OF ROTATED MASTER KEYWAY (front face of receptacle shown)

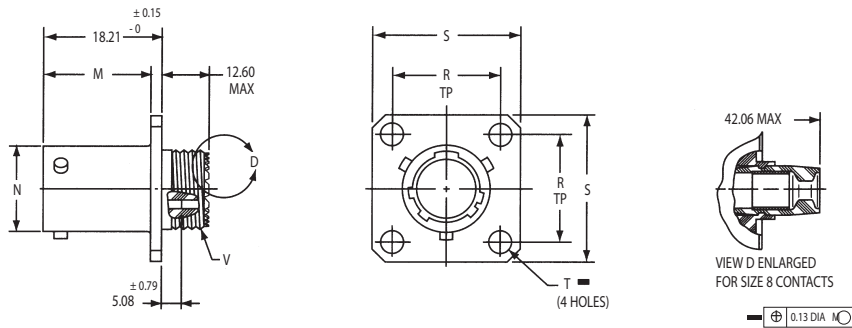
AB angles shown are viewed from the front face of the connector, a receptacle is shown beside. The angles for the plug are exactly the same except the direction of rotation is opposite of that shown for the receptacle.

Shell size	AB Angle of rotation (degrees)				
	Normal	A	B	C	D
9	95°	77°	-	-	113°
11	95°	81°	67°	123°	109°
13	95°	75°	63°	127°	115°
15	95°	74°	61°	129°	116°
17	95°	77°	65°	125°	113°
19	95°	77°	65°	125°	113°
21	95°	77°	65°	125°	113°
23	95°	80°	69°	121°	110°
25	95°	80°	69°	121°	110°

Dimensions

Overall dimensions

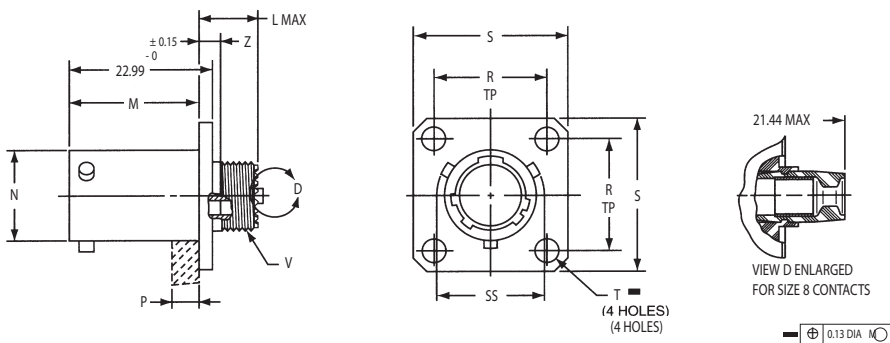
WALL MOUNTING RECEPTACLE *LJT 00 RT / HE308 00 T / JMS27466 T*



Shell Size	M + 0 - 0.13 (mm)	N + 0.03 - 0.13 (mm)	R (TP) (mm)	S ± 0.41 (mm)	T Dia ± 0.13 (mm)	V Thread Class 2A (plated)
9	16.05	14.53	18.26	23.83	3.25	.4375-28 UNEF
11	16.05	17.78	20.62	26.19	3.25	.5625-24 UNEF
13	16.05	21.59	23.01	28.58	3.25	.6875-24 UNEF
15	16.05	24.77	24.61	30.96	3.25	.8125-20 UNEF
17	16.05	27.94	26.97	33.32	3.25	.9375-20 UNEF
19	16.05	30.66	29.36	36.53	3.25	1.0625-18 UNEF
21	15.29	33.83	31.75	39.67	3.25	1.1875-18 UNEF
23	15.29	37.01	34.92	42.88	3.73	1.3125-18 UNEF
25	15.29	40.18	38.10	46.03	3.73	1.4375-18 UNEF

WALL MOUNTING RECEPTACLE (BACK PANEL MOUNTING)

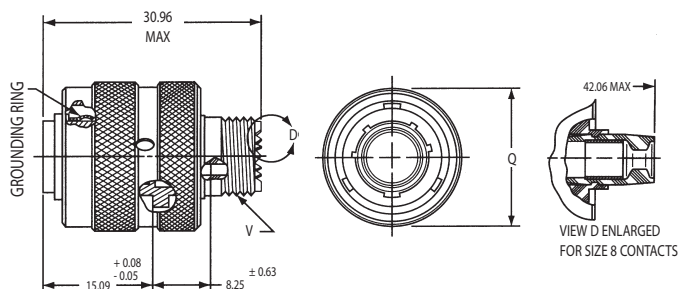
LJTPQ00RT/JMS27656T



Shell Size	L Max. (mm)	M + 0 - 0.13 (mm)	N Dia (mm)	P Max. Panel Thickness (mm)	R (TP) (mm)	S + 0.28 - 0.25 (mm)	T Dia ± 0.13 (mm)	V Thread Class 2A (plated)	Z Max. (mm)
9	11.51	20.83	14.53	5.94	18.26	23.83	3.25	.4375-28 UNEF	3.50
11	11.51	20.83	17.78	5.94	20.62	26.19	3.25	.5625-24 UNEF	3.50
13	11.51	20.83	21.59	5.94	23.01	28.58	3.25	.6875-24 UNEF	3.50
15	11.51	20.83	24.77	5.94	24.61	30.96	3.25	.8125-20 UNEF	3.50
17	11.51	20.83	27.94	5.94	26.97	33.32	3.25	.9375-20 UNEF	3.50
19	11.51	20.83	30.66	5.94	29.36	36.53	3.25	1.0625-18 UNEF	3.50
21	12.29	20.07	33.83	5.18	31.75	39.67	3.25	1.1875-18 UNEF	4.27
23	12.29	20.07	37.01	5.18	48.02	42.88	3.73	1.3125-18 UNEF	4.27
25	12.29	20.07	40.18	4.90	38.10	46.03	3.73	1.4375-18 UNEF	4.27

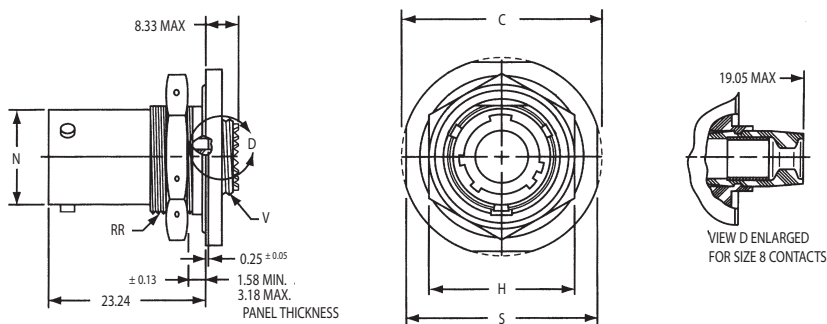
Dimensions

STRAIGHT PLUG *LJT 06 RT / HE308 06 T / JMS27467 T*



Shell Size	Q Max. (mm)	V Thread Class 2A (plated)
9	21.44	.4375-28 UNEF
11	24.61	.5625-24 UNEF
13	28.98	.6875-24 UNEF
15	32.16	.8125-20 UNEF
17	35.33	.9375-20 UNEF
19	38.10	1.0625-18 UNEF
21	41.28	1.1875-18 UNEF
23	44.45	1.3125-18 UNEF
25	47.63	1.4375-18 UNEF

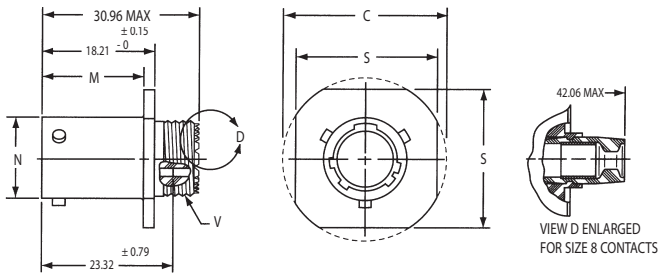
JAM NUT RECEPTACLE *LJT 07 RT / HE308 07 T / JMS27468 T*



Shell Size	C Max. (mm)	H Hex + 0.43 - 0.41 (mm)	N + 0.03 - 0.13 (mm)	S \pm 0.41 (mm)	V Thread Class 2A (plated)	RR Thread Class 2A (plated)	Hex. nut min/max torque value (N.m)
9	30.46	22.00	14.53	26.97	.4375-28 UNEF	.6875-24 UNEF	3.4 / 4.1
11	35.20	25.40	17.78	31.75	.5625-24 UNEF	.8125-20 UNEF	4.5 / 5.2
13	38.38	30.00	21.59	34.92	.6875-24 UNEF	1.0000-20 UNEF	6.2 / 6.8
15	41.55	33.00	24.77	38.10	.8125-20 UNEF	1.1250-18 UNEF	7.9 / 8.5
17	44.73	37.00	27.94	41.27	.9375-20 UNEF	1.2500-18 UNEF	9.0 / 9.6
19	49.51	40.00	30.66	46.02	1.0625-18 UNEF	1.3750-18 UNEF	10.2 / 10.7
21	52.65	43.00	33.83	49.23	1.1875-18 UNEF	1.5000-18 UNEF	11.3 / 12.4
23	55.86	46.00	37.01	52.37	1.3125-18 UNEF	1.6250-18 UNEF	12.4 / 13.6
25	59.13	51.20	40.18	55.58	1.4375-18 UNEF	1.7500-18 UNEF	13.6 / 14.7

Dimensions

LINE RECEPTACLE LJT 01 RT / HE308 01 T

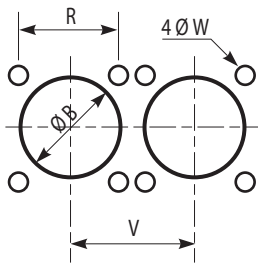


Shell Size	C Max. (mm)	M + 0 - 0.13 (mm)	N + 0.03 - 0.13 (mm)	S ± 0.41 (mm)	V Thread Class 2A (plated)
9	27.79	16.05	14.53	23.83	.4375-28 UNEF
11	30.18	16.05	17.78	26.19	.5625-24 UNEF
13	32.54	16.05	21.59	28.58	.6875-24 UNEF
15	34.93	16.05	24.77	30.96	.8125-20 UNEF
17	37.31	16.05	27.94	33.32	.9375-20 UNEF
19	40.49	16.05	30.66	36.53	1.0625-18 UNEF
21	43.66	15.29	33.83	39.67	1.1875-18 UNEF
23	46.84	15.29	37.01	42.88	1.3125-18 UNEF
25	50.01	15.29	40.18	46.03	1.4375-18 UNEF

Panel cut out

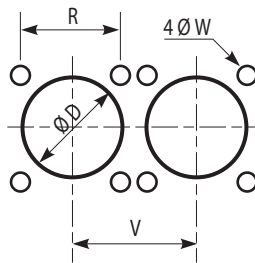
LJT PQ00

Square flange receptacle
back panel mounting



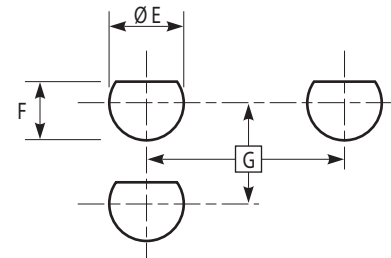
LJT 00

Square flange receptacle
front panel mounting



LJT 07

Jam nut receptacle
back panel mounting

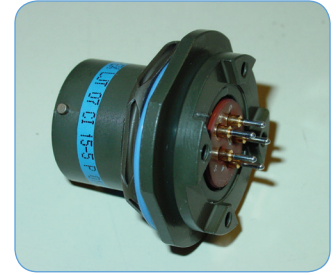


Shell Size	R (mm)	V + 0 - 0.25 (mm)	W + 0 - 0.25 (mm)	G Min (mm)	E Min (mm)	F + 0 - 0.25 (mm)	B + 0 - 0.41 Min (mm)	D + 0 - 0.25 Min (mm)
9	18.26	24.60	3.25	27.80	17.70	16.99	16.81	13.11
11	20.62	27.00	3.25	32.60	20.88	19.53	20.57	15.88
13	23.01	30.20	3.25	36.00	25.58	24.26	24.38	19.05
15	24.61	33.30	3.25	39.60	28.80	27.53	27.56	23.01
17	26.97	36.50	3.25	43.30	31.98	30.68	30.73	25.81
19	29.36	39.30	3.25	47.00	35.16	33.86	33.45	28.98
21	31.75	42.50	3.25	50.60	38.28	37.06	36.53	32.16
23	34.93	45.70	3.73	54.20	41.50	40.01	39.30	34.93
25	38.10	48.80	3.73	59.70	44.68	43.41	42.98	37.69

Stand Off Receptacles

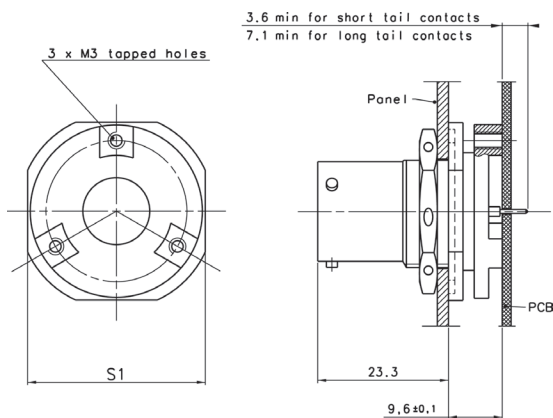
Main characteristics

- Receptacles with stand-off flange shells, for attachment to printed circuit boards.
- The contacts are tin plated. Lead free versions are available.
- Available in wall mount (LJT PQ00) and jam nut (LJT 07) configurations.
- Prevent any mechanical stress on the contact tails.
- Provide grounding continuity between PCB and box.
- Increase reliability and resistance to shocks and vibrations.

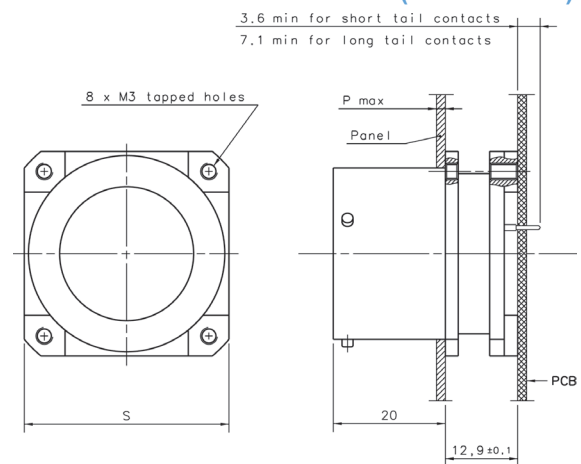


Overall dimensions

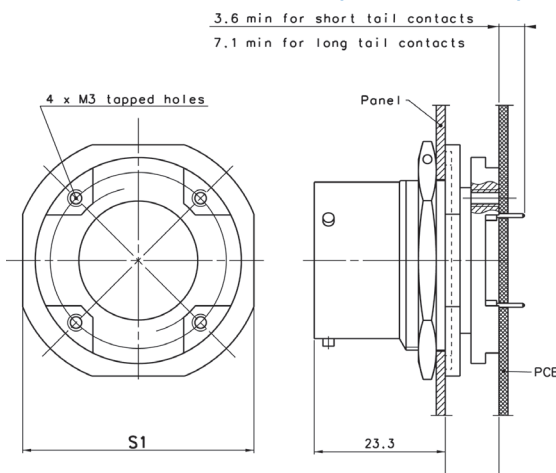
JAM NUT RECEPTACLE (SIZE 9 and 11)



WALL MOUNT RECEPTACLE (SIZE 9 to 25)



JAM NUT RECEPTACLE (SIZE 13 to 25)



Shell Size	S ± 0.25 (mm)	Pmax (mm)	S1 ± 0.4 (mm)
9	23.82	5.18	27.00
11	26.19	5.18	31.80
13	28.57	5.18	34.90
15	30.96	5.18	38.10
17	33.32	5.18	41.30
19	36.52	5.18	46.00
21	39.67	5.18	49.20
23	42.87	5.18	52.40
25	46.02	4.90	55.60

Contact us for more detailed information.

For ordering informations, please refer to page 30.

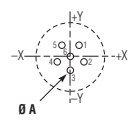
Printed circuit Board drilling

Receptacles equipped with size 22D contacts

The marking of contact cavities is shown on the mating side view of male insert. The marking on the female insert is symmetrical in relation to the +Y/-Y axis. For recommended hole diameters ($\varnothing A$) see table on page 18.

Cavity marking	x (mm)	y (mm)
1	+1.14	+1.98
2	+1.98	-1.14
3	0	-2.29
4	-1.98	-1.14
5	-1.14	+1.98
6	0	0

9-35

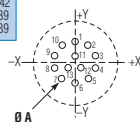


6 contacts size 22D

Cavity marking	x (mm)	y (mm)
1	0	+3.71
2	+2.16	+3.00
3	+3.51	+1.14
4	+3.51	-1.14
5	+2.16	-3.00
6	0	-3.71
7	-2.16	-3.00
8	-3.51	-1.14
9	-3.51	+1.14
10	-2.16	3.00
11	0	+1.42
12	+1.24	-0.89
13	-1.24	-0.89

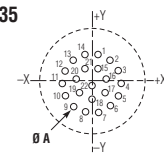
11-35

13 contacts size 22D



13-35

22 contacts size 22D



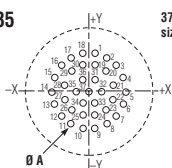
Cavity marking	x (mm)	y (mm)
1	+1.14	+5.00
2	+3.20	+4.01
3	+4.62	+2.24
4	+5.16	0

Cavity marking	x (mm)	y (mm)
5	+4.62	-2.24
6	+3.20	-4.01
7	+1.14	-5.00
8	-1.14	-5.00

Cavity marking	x (mm)	y (mm)
9	-3.20	-4.01
10	-4.62	-2.24
11	-5.16	0
12	-4.62	+2.24
13	-3.20	+4.01
14	-1.14	+5.00
15	+1.14	+5.00
16	+2.97	+0.66
17	+2.36	-1.91
18	0	-3.05
19	-2.36	-1.91
20	-2.97	+0.66
21	-1.14	+2.72
22	0	-0.76

15-35

37 contacts size 22D

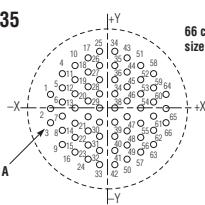


Cavity marking	x (mm)	y (mm)
17	-3.12	+5.51
18	-1.14	+6.65
19	+1.14	+4.37
20	+3.12	+3.02
21	+4.32	+1.02
22	+4.32	-1.27
23	+3.12	-3.23
24	+1.14	-4.37
25	-1.14	-4.37
26	-3.12	-3.23
27	-4.32	-1.27
28	-4.32	+1.02
29	-3.12	+3.02
30	-1.14	+4.37
31	+1.14	+1.88
32	+2.29	-0.10
33	+1.14	-2.08
34	-1.14	-2.08
35	-2.29	-0.10
36	-1.14	+1.88
37	0	-0.10

Cavity marking	x (mm)	y (mm)
1	+1.14	+6.65
2	+3.12	+5.51
3	+5.36	+4.06
4	+6.45	+2.03
5	+6.78	-0.25
6	+6.27	-2.49
7	+5.08	-4.45
8	+3.30	-5.89
9	+1.14	-6.65
10	-1.14	-6.65
11	-3.30	-5.89
12	-5.08	-4.45
13	-6.27	-2.49
14	-6.78	-0.25
15	-6.45	+2.03
16	-5.36	+4.06

19-35

66 contacts size 22D

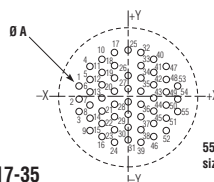


Cavity marking	x (mm)	y (mm)
35	+1.14	+6.86
36	+1.14	+4.57
37	+1.14	+2.29
38	+1.14	0
39	+1.14	-2.29
40	+1.14	-4.57
41	+1.14	-6.86
42	+1.14	-9.14
43	+3.12	+8.00
44	+3.12	+5.72
45	+3.12	+3.43
46	+3.12	+1.14
47	+3.12	-1.14
48	+3.12	-3.43
49	+3.12	-5.72
50	+3.12	-8.00
51	+5.11	+6.86
52	+5.11	+4.57
53	+5.11	+2.29
54	+5.11	0
55	+5.11	-2.29
56	+5.11	-4.57
57	+5.11	-6.86
58	+7.09	+5.72
59	+7.09	+3.43
60	+7.09	+1.14
61	+7.09	-1.14
62	+7.09	-3.43
63	+7.09	-5.72
64	+9.07	+2.29
65	+9.07	0
66	+9.07	-2.29

Cavity marking	x (mm)	y (mm)
1	-9.07	+2.29
2	-9.07	0
3	-9.07	-2.29
4	-7.09	+5.72
5	-7.09	+3.43
6	-7.09	+1.14
7	-7.09	-1.14
8	-7.09	-3.43
9	-7.09	-5.72
10	-5.11	+6.86
11	-5.11	+4.57
12	-5.11	+2.29
13	-5.11	0
14	-5.11	-2.29
15	-5.11	-4.57
16	-5.11	-6.86
17	-3.12	+8.00
18	-3.12	+5.72
19	-3.12	+3.43
20	-3.12	+1.14
21	-3.12	-1.14
22	-3.12	-3.43
23	-3.12	-5.72
24	-3.12	-8.00
25	-1.14	+9.14
26	-1.14	+6.86
27	-1.14	+4.57
28	-1.14	+2.29
29	-1.14	0
30	-1.14	-2.29
31	-1.14	-4.57
32	-1.14	-6.86
33	-1.14	-9.14
34	+1.14	+9.14

17-35

55 contacts size 22D



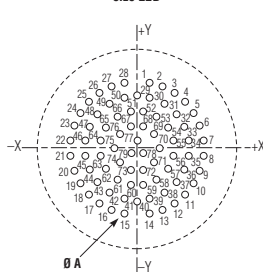
Cavity marking	x (mm)	y (mm)
1	-10.87	+6.12
2	-11.86	+3.91
3	-12.40	+1.55
4	-10.54	0
5	-12.40	-1.55
6	-10.87	-3.61
7	-10.87	-6.02
8	-8.43	+8.46
9	-8.43	+6.05
10	-8.43	+3.63
11	-8.43	+1.22
12	-8.43	-1.19
13	-8.43	-3.61
14	-8.43	-6.02
15	-8.43	-8.43
16	-6.32	+9.65
17	-6.32	+7.24
18	-6.32	+4.83
19	-6.32	+2.41
20	-6.32	0
21	-6.32	-2.41
22	-6.32	-4.83
23	-6.32	-7.24
24	-6.32	-9.65
25	-4.22	+10.87
26	-4.22	+8.46
27	-4.22	+6.05
28	-4.22	+3.63
29	-4.22	+1.22
30	-4.22	-1.19
31	-4.22	-3.61
32	-4.22	-6.02
33	-4.22	-8.43
34	-4.22	-10.85

Cavity marking	x (mm)	y (mm)
35	-2.11	+12.07
36	-2.11	+9.65
37	-2.11	+7.24
38	-2.11	+4.83
39	-2.11	+2.41
40	-2.11	0
41	-2.11	-2.41
42	-2.11	-4.83
43	-2.11	-7.24
44	-2.11	-9.65
45	-2.11	-12.07
46	0	+10.87
47	0	+8.46
48	0	+6.05
49	0	+3.63
50	0	+1.22
51	0	-1.19
52	0	-3.61
53	0	-6.02
54	0	-8.43
55	0	-10.85

Cavity marking	x (mm)	y (mm)
69	+4.22	+6.05
70	+4.22	+3.63
71	+4.22	+1.22
72	+4.22	-1.19
73	+4.22	-3.61
74	+4.22	-6.02
75	+4.22	-8.43
76	+4.22	-10.85
77	+6.32	+9.65
78	+6.32	+7.24
79	+6.32	+4.83
80	+6.32	+2.41
81	+6.32	0
82	+6.32	-2.41
83	+6.32	-4.83
84	+6.32	-7.24
85	+6.32	-9.65
86	+8.43	+8.46
87	+8.43	+6.05
88	+8.43	+3.63
89	+8.43	+1.22
90	+8.43	-1.19
91	+8.43	-3.61
92	+8.43	-6.02
93	+8.43	-8.43
94	+10.87	+6.12
95	+11.86	+3.91
96	+12.40	+1.55
97	+10.54	0
98	+12.40	-1.55
99	+10.87	-3.61
100	+10.87	-6.02

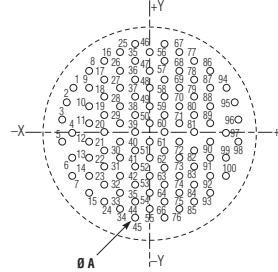
21-35

79 contacts size 22D



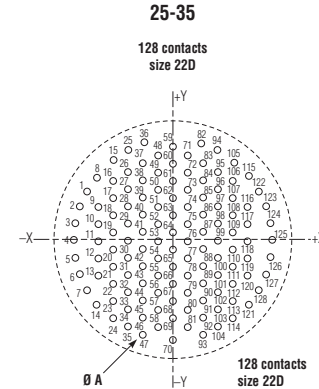
23-35

100 contacts size 22D



Printed circuit Board drilling

Cavity marking	x (mm)	y (mm)	Cavity marking	x (mm)	y (mm)	Cavity marking	x (mm)	y (mm)	Cavity marking	x (mm)	y (mm)	Cavity marking	x (mm)	y (mm)	Cavity marking	x (mm)	y (mm)
1	-12.17	+7.09	23	-8.43	-8.43	45	-4.22	-8.43	67	0	-6.02	89	+4.22	-3.61	111	+8.43	-3.61
2	-13.21	+4.83	24	-8.43	-10.85	46	-4.22	-10.85	68	0	-8.43	90	+4.22	-6.02	112	+8.43	-6.02
3	-13.87	+2.41	25	-6.32	+12.60	47	-4.22	-13.26	69	0	-10.85	91	+4.22	-8.43	113	+8.43	-8.43
4	-14.10	0	26	-6.32	+9.65	48	-2.11	+12.07	70	0	-14.10	92	+4.22	-10.85	114	+8.43	-10.85
5	-13.87	-2.41	27	-6.32	+7.24	49	-2.11	+9.65	71	+2.11	+12.70	93	+4.22	-13.26	115	+10.77	+9.07
6	-13.21	-4.83	28	-6.32	+4.83	50	-2.11	+7.24	72	+2.11	+9.65	94	+6.32	+12.60	116	+10.54	+4.83
7	-12.17	-7.09	29	-6.32	+2.41	51	-2.11	+4.83	73	+2.11	+7.24	95	+6.32	+9.65	117	+10.54	+2.41
8	-10.77	-9.07	30	-6.32	0	52	-2.11	+2.41	74	+2.11	+4.83	96	+6.32	+7.24	118	+10.54	0
9	-10.54	+4.83	31	-6.32	-2.41	53	-2.11	0	75	+2.11	+2.41	97	+6.32	+4.83	119	+10.54	-2.41
10	-10.54	+2.41	32	-6.32	-4.83	54	-2.11	-2.41	76	+2.11	0	98	+6.32	+2.41	120	+10.54	-4.83
11	-10.54	0	33	-6.32	-7.24	55	-2.11	-4.83	77	+2.11	-2.41	99	+6.32	0	121	+10.77	-9.07
12	-10.54	-2.41	34	-6.32	-9.65	56	-2.11	-7.24	78	+2.11	-4.83	100	+6.32	-2.41	122	+12.17	+7.09
13	-10.54	-4.83	35	-6.32	-12.07	57	-2.11	-9.65	79	+2.11	-7.24	101	+6.32	-4.83	123	+13.21	+4.83
14	-10.77	-9.07	36	-4.06	+13.49	58	-2.11	-12.07	80	+2.11	-9.65	102	+6.32	-7.24	124	+13.87	+2.41
15	-8.43	+11.28	37	-4.22	+10.85	59	0	+13.26	81	+2.11	-12.07	103	+6.32	-9.65	125	+14.10	0
16	-8.43	+8.43	38	-4.22	+8.43	60	0	+10.85	82	+4.06	+13.49	104	+6.32	-12.07	126	+13.87	-2.41
17	-8.43	+6.02	39	-4.22	+6.02	61	0	+8.43	83	+4.22	+10.85	105	+8.43	+11.28	127	+13.21	-4.83
18	-8.43	+3.61	40	-4.22	+3.61	62	0	+6.02	84	+4.22	+8.43	106	+8.43	+8.43	128	+12.17	-7.09
19	-8.43	+1.19	41	-4.22	+1.19	63	0	+3.61	85	+4.22	+6.02	107	+8.43	+6.02			
20	-8.43	-1.19	42	-4.22	-1.19	64	0	+1.19	86	+4.22	+3.61	108	+8.43	+3.61			
21	-8.43	-3.61	43	-4.22	-3.61	65	0	-1.19	87	+4.22	+1.19	109	+8.43	+1.19			
22	-8.43	-6.02	44	-4.22	-6.02	66	0	-3.61	88	+4.22	-1.19	110	+8.43	-1.19			

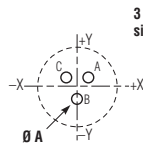


Receptacles equipped with size 20 contacts

The marking of contact cavities is shown on the mating side view of male insert. The marking on the female insert is symmetrical in relation to the +Y/-Y axis. For recommended hole diameters (Ø A) see table on page 18.

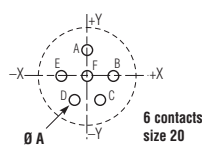
Cavity marking	x (mm)	y (mm)
A	+1.65	+0.97
B	0	-1.91
C	-1.65	+0.97

9-98

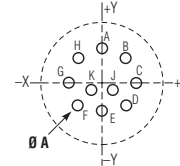


Cavity marking	x (mm)	y (mm)
A	0	+3.30
B	+1.65	-2.87
C	-1.65	-2.87
D	0	0
E	-3.30	0
F	0	0

11-98



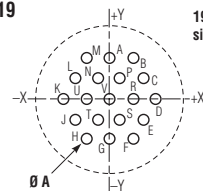
10 contacts size 20



13-98

Cavity marking	x (mm)	y (mm)
A	0	+4.95
B	+3.18	+3.81
C	+4.90	+0.76
D	+4.17	-2.67
E	0	-3.43
F	-4.17	-2.67
G	-4.90	+0.76
H	-3.18	+3.81
J	+1.65	-0.38
K	-1.65	-0.38

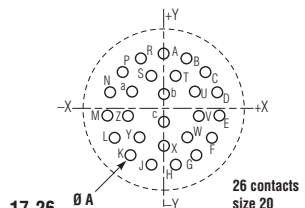
15-19



Cavity marking	x (mm)	y (mm)	Cavity marking	x (mm)	y (mm)
A	0	+5.72	C	+4.95	+2.87
B	+3.30	+5.72	D	+6.60	0

Cavity marking	x (mm)	y (mm)
E	+4.95	-2.87
F	+3.30	-5.72
G	0	-5.72
H	-3.30	-5.72
J	-4.95	-2.87
K	-6.60	0
L	-4.95	+2.87
M	-3.30	+5.72
N	-1.65	+2.87
P	+1.65	+2.87
R	+3.30	0
S	+1.65	-2.87
T	-1.65	-2.87
U	-3.30	0
V	0	0

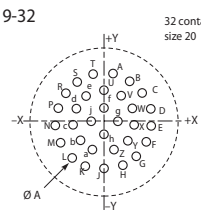
Cavity marking	x (mm)	y (mm)	Repère contact	x (mm)	y (mm)
A	0	+8.15	E	+8.10	-0.86
B	+3.33	+7.44	F	+7.06	-4.09
C	+6.07	+5.44	G	+4.80	-6.60
D	+7.75	+2.51	H	+1.70	-7.98



17-26

Cavity marking	x (mm)	y (mm)
J	-1.70	-7.98
K	-4.80	-6.60
L	-7.06	-4.09
M	-8.10	-0.86
N	-7.75	+2.51
P	-6.07	+5.44
R	-3.33	+7.44
S	-1.78	+4.50
T	+1.78	+4.50
U	+4.45	+2.39
V	+4.52	-0.91
W	+3.02	-3.84
X	0	-5.16
Y	-3.02	-3.84
Z	-4.52	-0.91
a	-4.45	+2.39
b	0	+1.65
c	0	-1.65

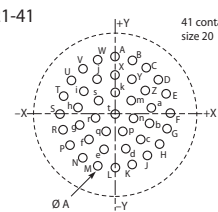
19-32



Cavity marking	x (mm)	y (mm)	Cavity marking	x (mm)	y (mm)
A	+1.68	+8.97	F	+8.15	-4.06
B	+4.80	+7.75	G	+6.15	-6.73
C	+7.26	+5.51	H	+3.30	-8.51
D	+8.76	+2.49	J	0	-9.12
E	+9.07	-0.84	K	-3.30	-8.51

Cavity marking	x (mm)	y (mm)
L	-6.15	-6.73
M	-8.15	-4.06
N	-9.07	-0.84
P	-8.76	+2.49
R	-7.26	+5.51
S	-4.80	+7.75
T	-1.68	+8.97
U	0	+5.84
V	+3.15	+4.90
W	+5.31	+2.41
X	+5.79	-0.84
Y	+4.42	-3.84
Z	+1.65	-5.61
a	-1.65	-5.61
b	-4.42	-3.84
c	-5.79	-0.84
d	-5.31	+2.41
e	-3.15	+4.90
f	0	+2.44
g	+2.44	0
h	0	-2.44
i	-2.44	0

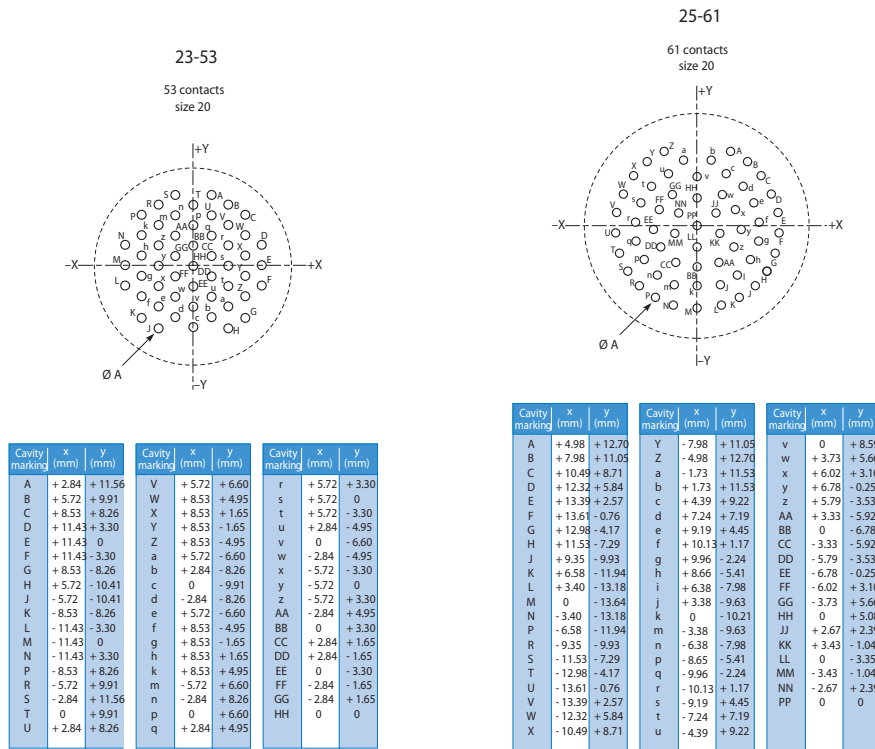
21-41



Cavity marking	x (mm)	y (mm)	Cavity marking	x (mm)	y (mm)
A	0	+10.60	J	+6.23	-8.58
B	+3.28	+10.09	K	+3.28	-10.09
C	+6.23	+8.58	L	0	-10.60
D	+8.58	+6.23	M	-3.28	-10.09
E	+10.09	+3.28	N	-6.23	-8.58
F	+10.60	0	P	-8.58	-6.23
G	+10.09	-3.28	R	-10.09	-3.28
H	+8.58	-6.23	S	-10.60	0

Cavity marking	x (mm)	y (mm)
T	-10.09	+3.28
U	-8.58	+6.23
V	-6.23	+8.58
W	-3.28	+10.09
X	0	+7.20
Y	+3.28	+6.38
Z	+5.92	+4.09
a	+7.15	+0.87
b	+6.73	-2.55
c	+4.78	-5.39
d	+1.73	-6.99
e	-1.73	-6.99
f	-4.78	-5.39
g	-6.73	-2.55
h	-7.15	+0.87
i	-5.92	+4.09
j	-3.35	+6.38
k	0	+3.81
l	+2.98	+2.38
m	+3.71	-0.85
n	+1.66	-3.43
o	+1.66	-3.43
q	-3.71	-0.85
r	-2.98	+2.38
s	-2.98	+2.38
t	0	0

Printed circuit Board drilling

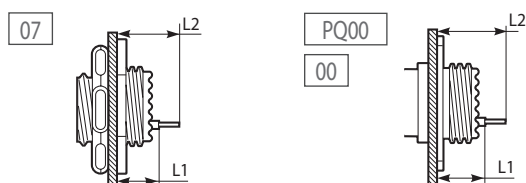


Please consult us for other insert arrangements.

Contacts	Ø A (mm) Minimum hole diameter			
	CI Version		LI Version	
	Gold PCB contacts	Tinned PCB contacts	Gold PCB contacts	Tinned PCB contacts
Size 22D	0.8	0.9	1.0	1.1
Size 20	1.0	1.1	1.0	1.1

Standard PCB Tail dimensions at the rear of receptacles

			LJT 07 CI	LJT 00 CI	LJT PQ00 CI	LJT PQ00 CI	LJT 07 LI	LJT 00 LI	LJT PQ00 LI	LJT PQ00 LI
			HE308 11T	size 09 to 25	size 09 to 19	size 21 to 25	size 09 to 25	size 09 to 25	size 09 to 19	size 21 to 25
			size 09 to 25 (mm)							
Pin	L1	Min	8.73	13.76	11.28	12.04	8.73	13.76	11.28	12.04
		Max	9.70	14.60	12.11	12.87	9.70	14.60	12.11	12.87
	L2	Min	13.63	18.66	16.18	16.94	17.13	22.16	19.68	20.44
		Max	14.80	19.70	17.21	17.97	18.30	23.20	20.71	21.47
Socket	L1	Min	8.53	13.56	11.08	11.84	8.53	13.56	11.08	11.84
		Max	9.50	14.40	11.91	12.67	9.50	14.40	11.91	12.67
	L2	Min	13.43	18.46	15.98	16.74	16.93	21.96	19.48	20.24
		Max	14.60	19.50	17.01	17.77	18.10	23.00	20.51	21.27



Hermetic Receptacles

Presentation

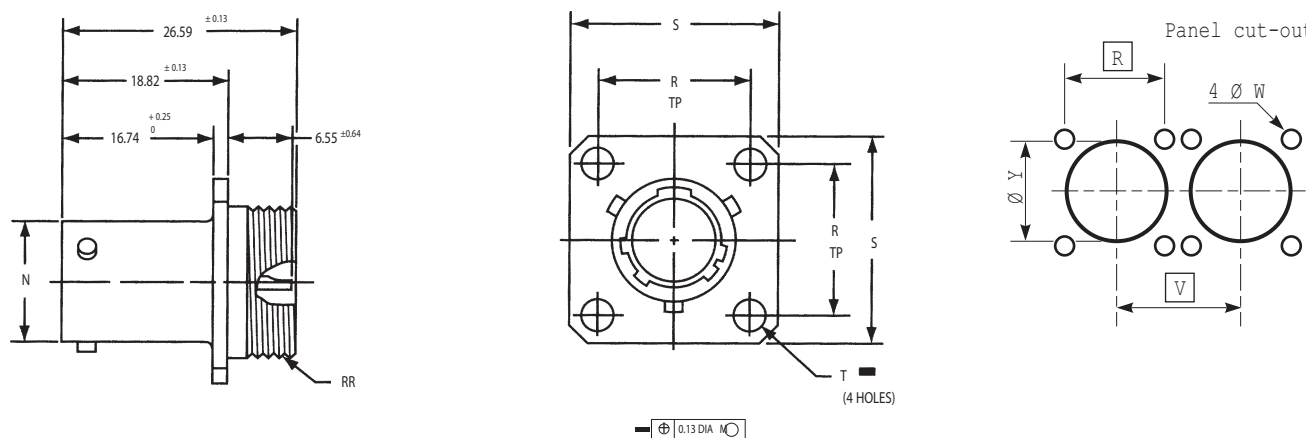
Hermetic receptacles LJT-Y are used in applications which require the maintenance of pressure in shell or box and in requirements imposing reduce bulk at the rear of connectors.

Main characteristics

- 9 shell sizes
- Solder or PCB pin contacts
- Contact plating in active zone: Gold
- Glass insert
- Interfacial seal
- Air leakage <math> < 1.10^{-7}</math> cm³ under 1 bar of differential pressure
- Tin or olive drab cadmium plating

Overall dimensions

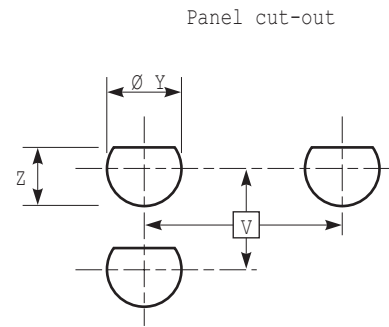
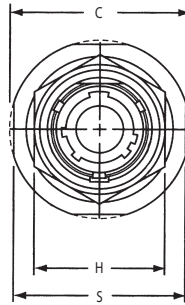
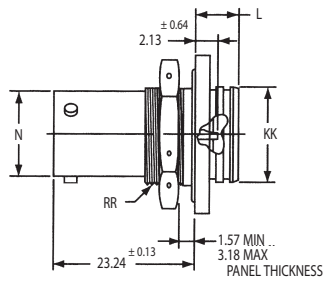
WALL MOUNTING RECEPTACLE LJT 00Y / JMS27469 Y



Shell Size	N Dia. +0.03 -0.13 (mm)	R (TP) (mm)	S +/-0.41 (mm)	T Dia. +/- 0.13 (mm)	RR Thread Class 2A	W +0 -0.25 (mm)	V Min (mm)	Y +0 -0.41 (mm)
9	14.53	18.26	23.82	3.25	.6875-24 UNEF	3.25	24.60	16.81
11	17.78	20.62	26.19	3.25	.8125-20 UNEF	3.25	27.00	20.57
13	21.59	23.01	28.57	3.25	.9375-20 UNEF	3.25	30.20	24.38
15	24.77	24.61	30.96	3.25	1.0625-18 UNEF	3.25	33.30	27.56
17	27.94	26.97	33.32	3.25	1.1875-18 UNEF	3.25	36.50	30.73
19	30.66	29.36	36.52	3.25	1.3125-18 UNEF	3.25	39.30	33.45
21	33.83	31.75	39.67	3.25	1.4375-18 UNEF	3.25	42.50	36.53
23	37.01	48.02	42.87	3.73	1.5625-18 UNEF	3.73	45.70	39.30
25	40.18	38.10	46.02	3.73	1.6875-18 UNEF	3.73	48.80	45.98

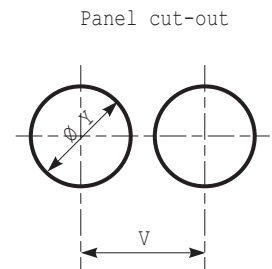
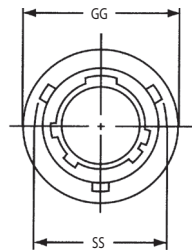
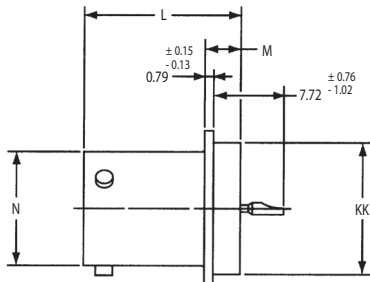
Hermetic Receptacles

JAM NUT RECEPTACLE LJT 07 Y / JMS27470 Y



Shell Size	C Max. (mm)	H Hex + 0.43 - 0.41 (mm)	RR Thread Class 2A (Plated)	N + 0 - 0.13 (mm)	S +/- 0.41 (mm)	KK + 0.28 - 0 (mm)	L Max. (mm)	Dia. Y Min (mm)	Z + 0 - 0.25 (mm)	V Min (mm)
9	30.45	14.53	.6875-24 UNEF	14.53	26.97	16.31	7.54	17.70	16.99	27.80
11	35.20	17.78	.8125-20 UNEF	17.78	31.75	19.46	7.54	20.88	19.53	32.60
13	38.38	21.59	1.0000-20 UNEF	21.59	34.93	22.66	7.54	25.58	24.26	36.00
15	41.55	24.77	1.1250-18 UNEF	24.77	38.10	25.86	7.54	28.80	27.53	39.60
17	44.73	27.94	1.2500-18 UNEF	27.94	41.28	29.01	7.54	31.98	30.68	43.30
19	49.50	30.66	1.3750-18 UNEF	30.66	46.02	32.21	8.33	35.16	33.86	47.00
21	52.65	33.83	1.5000-18 UNEF	33.83	49.23	35.36	8.33	38.28	37.06	50.60
23	55.85	37.01	1.6250-18 UNEF	37.01	52.37	38.56	8.33	41.50	40.01	54.20
25	59.13	40.18	1.7500-18 UNS	40.18	55.58	41.71	8.33	44.68	43.41	59.70

SOLDER MOUNTING RECEPTACLE LJT I Y / JMS27471 Y



Shell Size	N Dia. + 0.03 - 0.13 (mm)	SS Dia. + 0 - 0.41 (mm)	L + 0.28 - 0 (mm)	M + 0.15 - 0.13 (mm)	GG Dia. + 0.03 - 0.13 (mm)	KK Dia. + 0.28 - 0.25 (mm)	Dia. Y + 0 - 0.41 (mm)	V Min (mm)
9	14.53	16.81	20.04	3.18	19.05	17.07	17.80	24.60
11	17.78	20.57	20.04	3.18	21.44	19.84	20.57	27.00
13	21.59	24.38	20.04	3.18	24.61	23.01	24.38	30.20
15	24.77	27.56	20.04	3.18	27.78	26.19	27.56	33.30
17	27.94	30.73	20.04	3.18	30.94	29.36	30.73	36.50
19	30.66	33.45	20.04	3.18	33.32	31.75	33.45	39.30
21	33.83	36.63	20.04	3.18	36.53	34.93	36.53	42.50
23	37.01	39.80	20.85	3.96	39.70	38.10	39.30	45.70
25	40.18	42.98	20.85	3.96	42.88	41.28	42.98	48.80

Thru-bulkhead Receptacles

HE308 0BT thru-bulkhead receptacles are used for the feed through of circuits on bulkheads or panels.



- Intermateable with MIL-DTL-38999 Series I connectors
- 9 shell sizes (aluminium alloy)
- Pin and socket double ended contacts
- Interfacial seal on male side
- Olive drab cadmium or nickel plating
- Coding possibility

For further information, please consult us.

HOW TO ORDER - AMPHENOL DESIGNATION - THRU-BULKHEAD RECEPTACLES

Series	LJT	17-6	PS	N	014
Shell size and arrangement					
PS : Pin-Socket contacts					
Polarization : N to D					
Finish					
014 : Olive drab cadmium plating 175°C					
023 : Nickel plating 200 °C					
033 K : Black Zinc Nickel plating 175 °C					

HE308 PART NUMBER - THRU-BULKHEAD RECEPTACLES

Series	HE308	0BT	17-6	PS	N	7	M
Shell type aluminium							
Shell size and arrangement							
PS : Pin-Socket contacts							
Polarization : N to D							
Finish							
7 : Olive drab cadmium plating 175°C							
6 : Nickel plating 200 °C							
Certificate of conformity to NFC 93422							

Receptacles with Enhanced sealing

LJT 07 ETC receptacles with enhanced sealing are derived from the standard MIL-DTL-38999 Series I jam nut receptacles. The inserts have been modified to ensure an air leakage of <math> < 1.10^{-6} \text{cm}^3/\text{s}</math> under 1 bar of differential pressure.

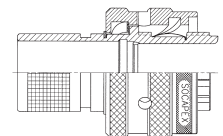


- Intermateable with MIL-DTL-38999 Series I connectors
- 9 shell sizes (aluminium alloy)
- Solder or PCB pin contacts. Socket contacts available upon request
- Olive drab cadmium or nickel plating

For further information, please consult us.

Integrated Backshells

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.



For further information, please consult us.

Uncoded Connectors

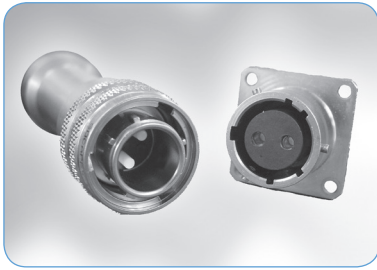
These connectors are mateable with any other ones regardless the coding is. (N, A, B, C or D)

HOWTOORDER

Uncoded connectors	S	07	LJT	15 35	P	014
Shell type						
00: Wall mounting receptacle						
01: Line receptacle						
06: Straight plug						
07: Jam nut receptacle						
Series						
Shell size and insert arrangements: see pages 7, 8 and 9						
Contact type						
P: Pin						
S: Socket						
Shell finish						
014: Olive drab cadmium plated						
023: Electroless nickel plated						

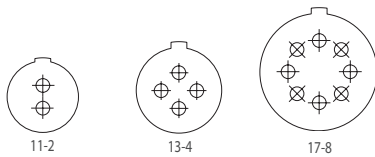
LJTOP

The LJTOP connector is an optical version of the MIL-DTL-38999 series I connector, which uses standard 2.5 mm telecom optical termini.



- 1 to 8 channels
- Available in multimode, singlemode PC and singlemode APC.
- 0.5 dB typical Insertion Loss in multimode and singlemode.

Insert arrangements



HOW TO ORDER LJTOP CONNECTORS

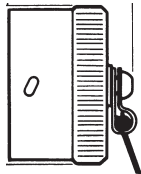
Series	LJTOP	07	W	R0	11	2	P7	N	X015
Shell type	00: Wall mounting receptacle 06: Plug 07: Jam nut receptacle								
Shell finish	F: Aluminium, electroless nickel plated W: Aluminium, olive drab cadmium plated								
Backshell	H0: Straight heatshrinkable backshell without clamp H9: Right angle heatshrinkable backshell without clamp R0: Straight backshell for pigtails (for receptacles only) S3: Straight backshell for multiway cable with metal integrated clamp S4: Straight backshell for multiway cable with plastic integrated clamp								
Shell size	Max Number of channels								
11	2								
13	4								
17	8								
Type of ceramic ferrule	P7: Multimode, 127 µm inner diameter P6: Singlemode, 126 µm inner diameter A6: Singlemode APC, 126 µm inner diameter (high return loss)								
Coding	N for normal or A, B, C, D. See coding system on page 11								
Cable diameter	X055: Ø5,5 mm multiway cable (for backshell H0, H9, S3, S4) X015: Ø1,5 mm for pigtail (for backshell R0)								

For more details, please consult the EWOC catalogue (DOC-000503-ANG)

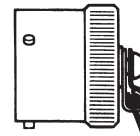
Accessories

Standard Metallic Caps

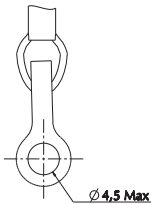
- Metallic Standard Caps compatible with all receptacles and plugs of LJT/HE308
- IP68 (permanent sealing)
- Protection against dust, water, moisture and EMI
- 9 sizes available: 09,11,13,15,17,19,21,23,25



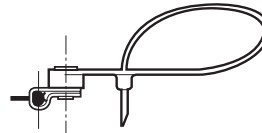
Protection caps for receptacles (metallic chain or nylon cord)



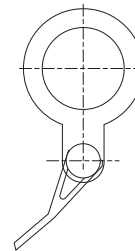
Protection caps for plugs (metallic chain or nylon cord)



Termination of the chain for plug, square flange and line receptacle protection caps (for shell types: 06, 00, PQ00, 01)



Terminations of the nylon cord for plugs protection caps (for shell type: 06)



Termination of the chain or nylon cord for jam nut receptacle protection caps (for shell type: 07)



Chain version

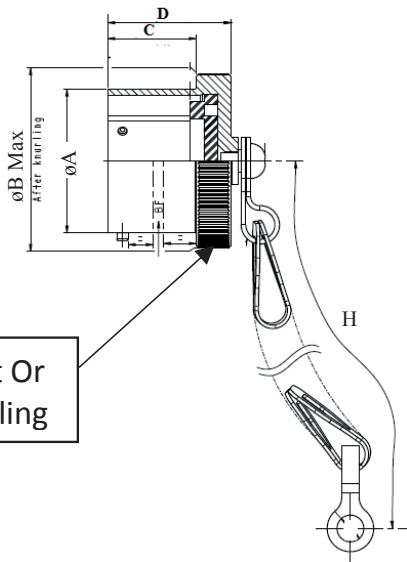


Nylon cord version

Accessories

Standard Metallic Caps

CAP FOR PLUG



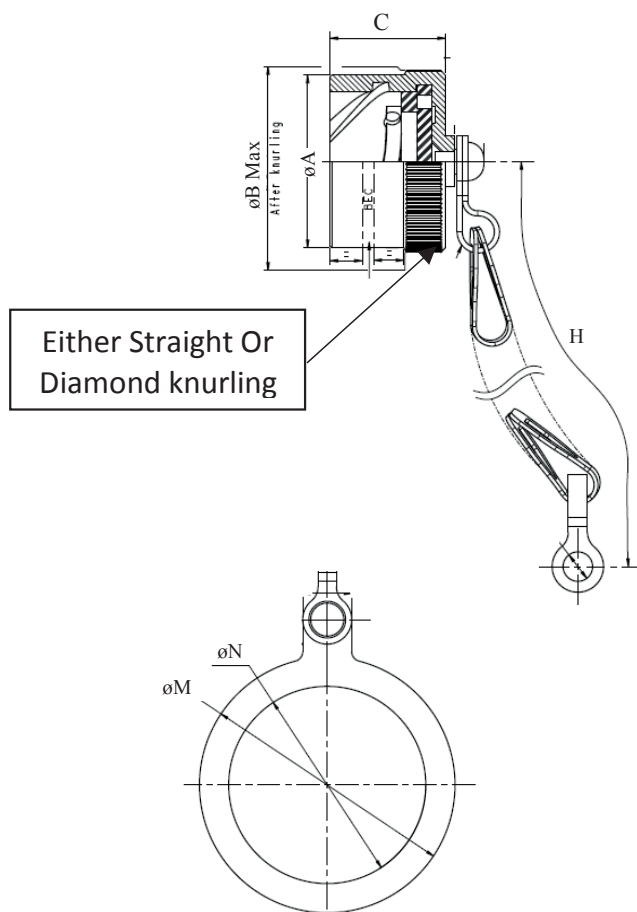
Either Straight Or Diamond knurling

Shell Size	Shell				Cord	
	ØA (OD) (in mm) 0.0/-0.13	ØB Max (in mm) (After Knurling)	C Min (in mm)	D Max (in mm)	Length for Chain (H+12.5/-6.35) (in mm)	Length for Nylon cord (H+12.5/-6.35) (in mm)
9	14.53	20.83	14.73	22.86	76.2	
11	17.78	23.88				
13	21.59	27.18				
15	24.77	30.23			88.9	
17	27.94	33.53				
19	30.66	36.58				
21	33.83	39.88			101.6	
23	37.01	42.93				
25	40.18	46.23				

Accessories

Standard Metallic Caps

CAP FOR RECEPTACLE



Shell Size	Shell			Cord		Ring	
	ϕA (OD) (in mm) 0.0/-0.13	ϕB Max (in mm) (After Knurling)	C Max (in mm)	Length for Chain (H+12.5/-6.35) (in mm)	Length for Nylon cord (H+12.5/-6.35) (in mm)	ϕN Min (in mm)	ϕM Max (in mm)
9	20.83	21.84	20.83	76.2	88.9	17.78	26.16
11	23.88	24.89				21.34	30.73
13	27.94	29.46				25.65	35.56
15	30.99	32.51				28.96	40.64
17	34.04	35.81		32	43.18		
19	37.08	38.61		35.31	45.72		
21	40.13	41.91		38.35	48.77		
23	43.18	44.96		41.66	53.34		
25	46.48	48.01	44.7	55.88			

Accessories

Protection caps

HOW TO ORDER - AMPHENOL DESIGNATION

Caps series	B	EC	N	-	11	014	-
Protection cap type							
F: For plug							
EC: For square flange receptacle							
ER: For jam nut receptacle							
P: For line mount receptacle							
Wire type							
N: Nylon cord (standard version)							
Blank for metallic chain							
Cable ty option							
A: without cable ty (only for plugs)							
Blank in other versions							
Corresponding connector size							
09/11/13/15/17/19/21/23/25							
Finish							
014: Olive-drab cadmium plated							
023: Electroless nickel plated							
033K: Black Zinc Nickel plated (only with Nylon cord)							
Deviation							
F628: 160mm attachment length (cord/chain) for plug receptacles							

HE308 DESIGNATION (WIRE TYPE: NYLON CORD)

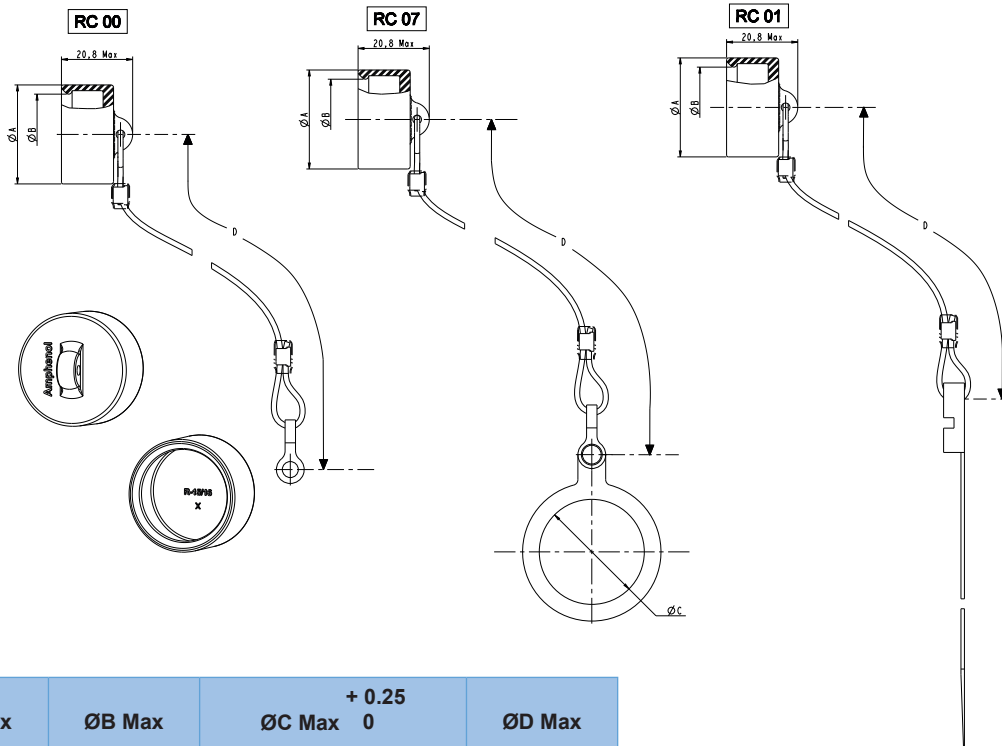
HE	308	B	00	11	7	M
Protection cap						
Protection cap type						
00: For square flange receptacle						
01: For line mount receptacle						
06: For plug						
07: For jam nut receptacle						
Corresponding connector size						
09/11/13/15/17/19/21/23/25						
Finish						
7: Olive-drab cadmium plated						
6: Electroless nickel plated						
M: Mandatory suffix						

Accessories

Rubber caps

Amphenol Socapex introduces a new accessory for LJT/HE308 series : the RUBBER CAP!

- Silicone Caps (200°C) compatible with all LJT/HE308 Receptacles
- IP67 (1m, 1 hour sealing)
- Protection against dust and water
- 6 sizes available: 9, 11, 13, 15, 17, 19
- Available with Nylon Cord and 3 type of termination



Shell Size	ØA Max	ØB Max	ØC Max ^{+ 0.25} ₀	ØD Max
9	19.25	13.85	17.86	88.90
11	22.55	17.2	22.63 21,44 (For LJT only)	
13	25.95	20.6	25.81	101.60
15	28.75	23.4	30.24	
17	32.75	27.4	32.16	
19	35.05	28.25	35.46	

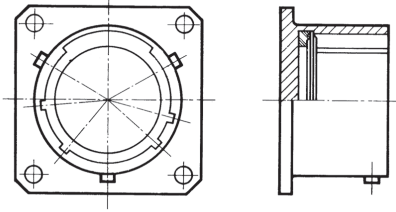
HOW TO ORDER - LJT RUBBER CAPS

LJT Rubber Caps	RC	00	N	LJT	11
Rubber Cap					
Shell Type					
00: Square Flange Receptacle					
07: Jamnut Receptacle					
01: Line Receptacle					
Nylon cord					
LJT Series					
Corresponding connector shell size : 9/11/13/15/17/19					

Example : RC00NLJT15

Accessories

Dummy receptacles



- Dummy receptacles are available in olive drab cadmium plated aluminium
- They match all plug types with any shell coding (N, A, B, C, D)
- Dimensions are identical to the front part of LJT00 receptacles
- A rubber washer ensures correct sealing of mated connectors
- Specific polarized versions are available on request

HOW TO ORDER - AMPHENOL DESIGNATION

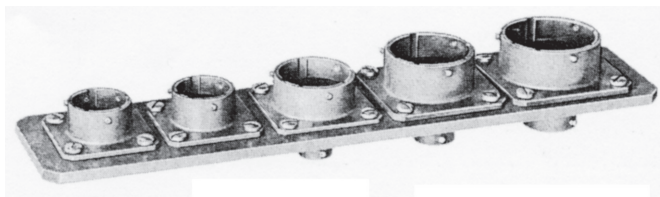
Dummy receptacle	SE	00	LJT	09	014
Shell type	00: derived from the LJT wall mounting receptacle				
Series					
Shell size	09/11/13/15/17/19/21/23/25				
Finish	014: Olive-drab cadmium plated 023: Electroless nickel plated 033K: Black Zinc Nickel plated				

HOW TO ORDER - HE308 DESIGNATION

Series	HE308	R	00	09	7	M
Dummy receptacle						
Shell type	00: derived from the LJT wall mounting receptacle					
Shell size	09/11/13/15/17/19/21/23/25					
Finish	7: Olive-drab cadmium plated 6: Electroless nickel plated					
M:	Mandatory suffix					

Holding support equipped with olive drab cadmium dummy receptacles

Reference: 809 891



Accessories

Crimp contacts

	Contact size	Pin contacts		Socket contacts	
		Proprietary No	Military No	Proprietary No	Military No
Signal and Power	00	Refer to datasheet E122		Refer to datasheet E122	
	4	9000007	-	900047	-
	8	900197 900198*	-	900217	-
	12	900005	M39029/58-365	900045	M39029/56-353
	16	900000	M39029/58-364	900040	M39029/56-352
	20	900001	M39029/58-363	900041	M39029/56-351
	22D	900004	M39029/58-360	900044	M39029/56-348

* for arrangement 21-48 only

	Contact size	Pin contacts		Socket contacts		Cable Type
		Proprietary No	Military No	Proprietary No	Military No	
Coax	8	900130	M39029/60-367	900140	M39029/59-366	M17/95-RG180
		900135	-	90145	-	M17/94-RG179 M17/113-RG316 M17/119-RG174
	12	900340	M39029/28-211	900350	M39029/75-416	M17/94-RG179 M17/113-RG316 M17/119-RG174
		900341	M39029/28-409	900351	M39029/75-417	M17/95-RG180 Raychem 9528 A1318
		900384**	-	900394**	-	M17/113-RG316
	16	900132	M39029/76-424	900142	M39029/77-428	M17/94-RG179 M17/113-RG316 M17/119-RG174 KX22B
900131		M39029/76-425	900141	M39029/77-429	M17/93-RG178 M17/169-00001	
Twinax	8	074834 ²	M39029/90-529 ²	072453 ²	M39029/91-530 ²	M17/176-00002 Raychem 10612
		077517	711-1760-104	077516	711-1760-204	M17/176-00002 EPD44690 EPD44691

** High performance size 12 coaxial contacts 50 ohms matched

² Supplied with heat shrink seal

For other cable types, please consult us

Piggy back grommets

The piggy back grommets insure back contact sealing when using size 8 power, coax or twinax contacts.



Type of contact	Cable OD (mm)	Proprietary No	HE308 designation
Size 8 power	4.4 to 5.2	900471	HE308 A03-08 M
Size 8 twinax and coax	3 to 4.4	900472	HE308 A02-08 M
Size 8 twinax and coax	4.4 to 5.2	900473	-

Accessories

Sealing plugs

to be mounted behind the crimp contacts

Contact size	Proprietary No	Military No
8 coax	900024	-
8 power	900029	-
12	900023	MS27488-122
16	900020	MS27488-162
20	900021	MS27488-202
22D	900022	MS27488-222

Dummy contacts

to be mounted instead of the contacts

Contact size	Dummy contact material	Proprietary No
4	White plastic	900329
8	Green plastic	900488
8	Brass + gold finish	900183
8	White plastic	900029
12	Brass + gold finish	900025
12	White plastic	900486
16	Brass + gold finish	900028
16	Blue plastic	900026
20	Brass + gold finish	900332

Metal dummy contacts are recommended for applications requesting EMI protection.

Standard PC tail contacts

	Contact size	Type	Pin contacts		Socket contacts	
			Tail dimension (mm)	Proprietary No	Tail dimension (mm)	Proprietary No
Signal	12	CI	5	900238	5	-
	16	CI	5	900240	5	900263
		LI	8.5	900246	8.5	-
	20	CI	5	900241	5	900251
		LI	8.5	900243	8.5	-
	22D	CI	5	900245	5	900256
LI		8.5	922389	8.5	922390	
Coax	12	-	consult us	900489	-	-
		-	consult us	900409	-	-
	16	-	consult us	900184**	consult us	900405
Twinax	8	-	consult us	072265	-	-

** 900179 = 900184 + tin plating

Other PC tail lengths are available, please consult us.

Accessories

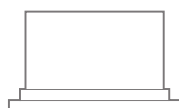
Reducing ferrules

Reducing ferrules allow using cables with smaller diameters than specified in the table page 6.

Reducing ferrule No	Contact size	Wire Gauge	Pin contacts	Socket contacts	
No reducing ferrule	8	8	900197 / 900198	900217	
900154		10			
No reducing ferrule	12	12	900005	900045	
900092		14			
		16			
900093		16			
		18			
	20				
No reducing ferrule	16	20	900000	900040	
		22			
		24			
		26			
900091		28			
No reducing ferrule	20	20	900001	900041	
900090		22			
		24			
900094	22D	26	900004	900044	
900099		28			
No reducing ferrule		22D			34
					30
	22				
	24				
		26			
		28			

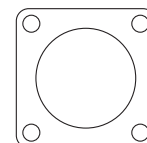
The sealing of mated connectors is only guaranteed for the minimum wire outside diameter given in the table page 6.

Plastic dust caps



Shell size	Plastic dust caps for plug	Plastic dust caps for receptacles
9	805413	606061
11	805414	805413
13	606073	805414
15	606066	805415
17	606067	805416
19	606068	805417
21	606070	805418
23	606079	606068
25	606077	606078

Panel gaskets



Square flange receptacle panel gaskets (thickness 0.8 mm)	HE308 reference
JE 09	HE308 J00-09M
JE 11	HE308 J00-11M
JE 13	HE308 J00-13M
JE 15	HE308 J00-15M
JE 17	HE308 J00-17M
JE 19	HE308 J00-19M
JE 21	HE308 J00-21M
JE 23	HE308 J00-23M
JE 25	HE308 J00-25M

Supplied with LJT 00 / HE308 00 / JMS27466 square flange receptacles

Application Tools

Crimping tools



Contact size	Contact type	Contact part number		Crimping tool		Positioner	
		Proprietary No	Military No	Proprietary No	Military No	Proprietary No	Military No
00		Refer to datasheet E122					
4	P	900007	-	809947	-	809948	-
	S	900047	-	809947	-	809948	-
8 Coax		Inner pin & socket		809 801	M22520/2-01	-	M22520/2-31
		Outer pin & socket		809 914	M22520/5-01	809 915	M22520/5-41
8 Power	P	900 197	-	809 872	-	809 873	-
	P	900 198	-	809 872	-	809 873	-
	S	900 217	-	809 872	-	809 873	-
12 Coax		Inner pin & socket		809 801	M22520/2-01	809 932	M22520/2-34
		Outer pin & socket		809 926	M22520/31-01	809 927	M22520/31-02
12	P	900 005	M39029/58-365	809 857	M22520/1-01	809 858	M22520/1-04
	S	900 045	M39029/56-353	809 857	M22520/1-01	809 858	M22520/1-04
16 Coax		Inner pin & socket		809 801	M22520/2-01	809 862	M22520/2-35
		Outer pin & socket		809 863	M22520/4-01	809 864	M22520/4-02
16	P	900 000	M39029/58-364	809 857	M22520/1-01	809 858	M22520/1-04
	S	900 040	M39029/56-352	809 857	M22520/1-01	809 858	M22520/1-04
20	P	900 001	M39029/58-363	809 857	M22520/1-01	809 858	M22520/1-04
				809 801	M22520/2-01	809 826	M22520/2-10
	S	900 041	M39029/56-351	809 857	M22520/1-01	809 858	M22520/1-04
22D				809 801	M22520/2-01	809 826	M22520/2-10
	P	900 004	M39029/58-360	809 801	M22520/2-01	809 810	M22520/2-09
	S	900 044	M39029/56-348	809 801	M22520/2-01	809 835	M22520/2-07

Insertion and removal tools

PLASTICTOOLS



Contact size	Insertion tool		Removal tool		Colour	
	Proprietary No	Military No	Proprietary No	Military No	Insertion	Extraction
8 Power	*	*	-	M81969/14-12	-	green
12	809 859	M81969/14-04	809 859	M81969/14-04	yellow	white
16	809 855	M81969/14-03	809 855	M81969/14-03	blue	white
20	809 854	M81969/14-10	809 854	M81969/14-10	red	orange
22D	809 856	M81969/14-01	809 856	M81969/14-01	green	white

* Manual insertion

METALLICTOOLS

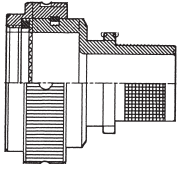


Contact size	Straight type		Angle type			
	Insertion tools Proprietary No	Removal tools Proprietary No	Insertion tools		Removal tools	
			Proprietary No	Military No	Proprietary No	Military No
4	*	809943	-	-	-	-
8 Power/coax	-	809961	*	*	809 845	-
12	-	-	809 838	M81969/8-09	809 839	M81969/8-10
16	809 816	809 846	809 812	M81969/8-07	809 820	M81969/8-08
20	809 817	809 847	809 813	M81969/8-05	809 821	M81969/8-06
22D	809 819	809 849	809 815	M81969/8-01	809 823	M81969/8-02

* Manual insertion

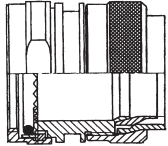
Backshells

Shielding



HE308-35: BAND BACKSHELL FOR SHIELDING

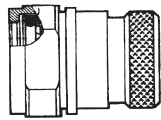
- Full 360° shield termination
- Available with different cabling chambers
- Easy maintenance or reparability
- Sealing ensured by straight or right angled heat-shrink molded piece
- Right angle version: LJT SBC



LJT NSA (HE308-13): HIGH LEVEL OF EMI/RFI PROTECTION

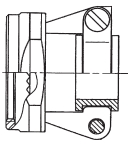
- Electrical continuity between cable and connector by clamping the braid with a screwing system
- Free inner ring to avoid twisting of the braid when screwing
- Sealing ensured by straight or right angle heat-shrink molded piece

Sealing



LJT NSD (HE308-14): ADAPTER FOR HEAT-SHRINK MOLDED PIECE

Mechanical retention



M85049/49-02: STRAIN RELIEF

- Mechanical retention of the cable
- Easy maintenance or reparability

How to Order

Amphenol designation

Series	LJT	07	RT	15	35	P	-	014	-	-
Shell type										
00: Wall mounting receptacle										
PQ00: Wall mounting receptacle (back panel)										
01: Line receptacle										
06: Straight plug										
07: Jam nut receptacle										
Service class and contact style										
RT: Environmental, with accessory thread, crimp contacts										
CI: PCB contacts										
LI: Long PCB contacts										
DW: Wire wrap contacts										
ETC: Enhanced sealing (07 receptacles only), solder pin contacts										
ETCI: Enhanced sealing (07 receptacles only), PCB pin contacts										
Shell size										
09/11/13/15/17/19/21/23/25										
Insert arrangement										
See pages 7, 8, 9										
Contact type										
P: Pin										
S: Socket										
Coding										
Blank for normal or A, B, C, D. See coding system on page 11										
Shell finish										
014: Olive drab cadmium plated										
023: Electroless nickel plated ✓										
033K: Black zinc nickel plated ✓										
Contacts										
Blank for connector delivered with contacts										
LC: Connector delivered without contact										
Deviation										
F404: Tinned PCB contacts (lead free versions available)										
F459: Stand-off receptacle (see page 15)										
For other deviations (FXXX), please consult us.										

✓: RoHS compliant

Hermetic Receptacles

Series	LJT	07	Y	15	35	P	-	-
Shell type								
00: Wall mounting receptacle								
07: Jam nut receptacle								
I: Solder mount receptacle								
Service class and contact style								
Y: Hermetic with interfacial seal, solder contacts								
Shell size								
09/11/13/15/17/19/21/23/25								
Insert arrangement								
See pages 7, 8, 9								
Contact type								
P: Pin only								
Coding								
Blank for normal or A, B, C, D. See coding system on page 11								
Shell finish								
Blank for tin plated								
014: Olive drab cadmium plated								

How to Order

HE308 / UTE 93422 designation

Series	HE308	07	T	15	35	P	N	7	M	-
Shell and contact style										
00: Wall mounting receptacle, crimp contacts 01: Line mount receptacle, crimp contacts 06: Straight plug, crimp contacts 07: Jam nut receptacle, crimp contacts 11: Jam nut receptacle, PCB contacts										
Service class										
T: Environmental, with accessory thread										
Shell size										
09/11/13/15/17/19/21/23/25										
Insert arrangement										
See pages 7, 8, 9										
Contact type										
P: Pin S: Socket										
Coding										
N for normal or A, B, C, D. See coding system on page 11										
Shell finish										
7: Olive drab cadmium plated 6: Electroless nickel plated ✓										
M: Mandatory suffix										
Contacts										
Blank for connector delivered with contacts L: Connector delivered without contact										

✓: RoHS compliant

Hermetic Receptacles

Series	HE308	07	Y	15	35	P	N	7	M
Shell type									
00: Wall mounting receptacle 07: Jam nut receptacle I: Solder mount receptacle									
Service class and contact style									
Y: Hermetic with interfacial seal, solder contacts									
Shell size									
09/11/13/15/17/19/21/23/25									
Insert arrangement									
See pages 7, 8, 9									
Contact type									
P: Pin only									
Coding									
N: for normal or A, B, C, D. See coding system on page 11									
Shell finish									
7: Olive drab cadmium plated 2: Tin plated ✓									
M: Mandatory suffix									

✓: RoHS compliant

How to Order

Amphenol designation - Protective caps for LJT (MIL-DTL-38999 series I)

Caps series	B	EC	N	-	11	033K
Protection cap type						
F: For plug						
EC: For square flange receptacle						
ER: For jam nut receptacle						
P: For line mount receptacle						
Wire type						
N: Nylon cord (standard version)						
Blank for metallic chain						
Cable ty option						
A: without cable ty (only for plugs)						
Blank in other versions						
Corresponding connector size						
09/11/13/15/17/19/21/23/25						
Finish						
014: Olive-drab cadmium plated						
023: Electroless nickel plated ✓						
033K: Black zinc nickel plated ✓						



✓: RoHS compliant

RUBBER CAP

How to Order

LJT Rubber cap	RC	00	N	LJT	11
Rubber Cap					
Shell Type					
00: Square Flange Receptacle					
07: Jamnut Receptacle					
01: Line Receptacle					
Nylon cord					
LJT Series					
Corresponding connector shell size : 9/11/13/15/17/19					



Example : RC00NLJT15

BACKSHELLS

How to Order

Amphenol designation - Backshells for LJT (MIL-DTL-38999 Series I/HE308) connectors

Series	LJT	NSA	11	033K
Type of backshell				
NSA: Screened clamping braid backshell accepting heat shrink moulded piece				
Size of backshell 09-11-13-15-17-19-21-23-25				
for LJT connectors: same as connector size				
Finish				
014: Olive-drab cadmium plating				
023: Electroless nickel plating ✓				
024: Green zinc cobalt plating ✓				
033K: Black zinc nickel plating ✓				



✓: RoHS compliant

HE308 military designation - Backshells for HE308 (LJT/ MIL-DTL-38999 Series I / RNJ) connectors

Series	HE308	-35	-11	-10	-12	033K	-
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 10-15-20-25-30-40							
See page 11 of Backshells catalogue							
Rear side diameter 06-08-10-12-14-16-20-24-28-32-36							
See page 11 of Backshells catalogue							
Finish							
7: Olive-drab cadmium plating							
6: Electroless nickel plating ✓							
033K: Black zinc nickel plating ✓							
Military standard (only for olive-drab cadmium and electroless nickel versions)							
M: Olive-drab cadmium and electroless nickel versions							
Blank for black zinc nickel							



Clamping band: 072952 (not precoiled)

✓: RoHS compliant

Black Zinc Nickel



Black Zinc Nickel is now widely recognized as a viable alternative to the traditionally used, heavy metal, cadmium, in the defense industry.

Amphenol proposes the LJT series, known as HE308 too, with a RoHS black zinc nickel finish, with a 96 hours salt spray performance. The benefits are that standard shells are used to provide our customers with a large range of cost effective RoHS solution.

KEY FEATURES

- Environmental RoHS compliant, cadmium free
- Salt Spray 96hrs endurance with shell to shell continuity 5m Ω and 10m Ω after salt spray exposure
- Mechanical 500 mating cycles, non magnetic
- Temperature range -65° to +175°C in accordance with Mil-DTL-38999
- Compatibility NO significant galvanic reaction with cadmium or electroless nickel plated parts

Our solution black zinc nickel is a versatile plating finish, its non-reflective black finish and RoHS compliant status make it deal for use in the civil, military and industrial sectors.

AVAILABLE ON STANDARD AND CUSTOMISED CONNECTOR RANGES

Amphenol black zinc nickel plating has the same thickness as cadmium so maintains the mechanical integrity of the plated connector and does not require new drawings, tooling or gauges.

COMPATIBILITY WITH OTHER PLATING FINISHES

Testing has been performed to demonstrate that there is no significant galvanic erosion when mating Amphenol black zinc nickel plated connectors with legacy components plated with cadmium or electroless nickel.

The mating of Amphenol black zinc nickel plated connectors with cadmium or electroless nickel connectors is nevertheless let under the user's responsibility, as himself only knows the applications of equipment as well as the environment where it will be used.

WHAT IS AMPHENOL BLACK ZINC NICKEL PLATING ?

Amphenol black zinc nickel plating is an alloy of zinc and nickel with a non-relective black finish. It is blackened by immersion in a chromate passivate solution forming a layer comprising of various protective zinc and nickel chromates and oxides.

ROHS COMPLIANT

Amphenol black zinc nickel does not contain cadmium, lead, mercury, PBBs, or PBDEs. Compliance with hexavalent chrome requirements have been verified by an independent test laboratory using the boiling water extraction tests specified in IEC 62321.

PRODUCTION PROCESS

Amphenol have invested in infrastructure and equipment to ensure a fully production ready, repeatable process providing our customers with consistent product performance.

ABOUT AMPHENOL

Founded in 1932, **Amphenol** is one of the largest manufacturers of interconnect products in the world. The company designs, manufactures, and markets electrical, electronic, and fiber optic connectors, interconnect systems, and coaxial and specialty cables.

Amphenol has a diversified presence as a leader in high growth areas of the interconnect industry and provides solutions for customers in the automotive, broadband, industrial, information technology and data communications, military and aerospace, mobile devices, and mobile networks markets.

More info on www.amphenol.com

Amphenol
ENABLING THE ELECTRONICS REVOLUTION

Amphenol Military & Aerospace Operations (AMAO) has the largest and broadest selection of interconnect products in the military and aerospace markets.

More info on www.amphenolmao.com

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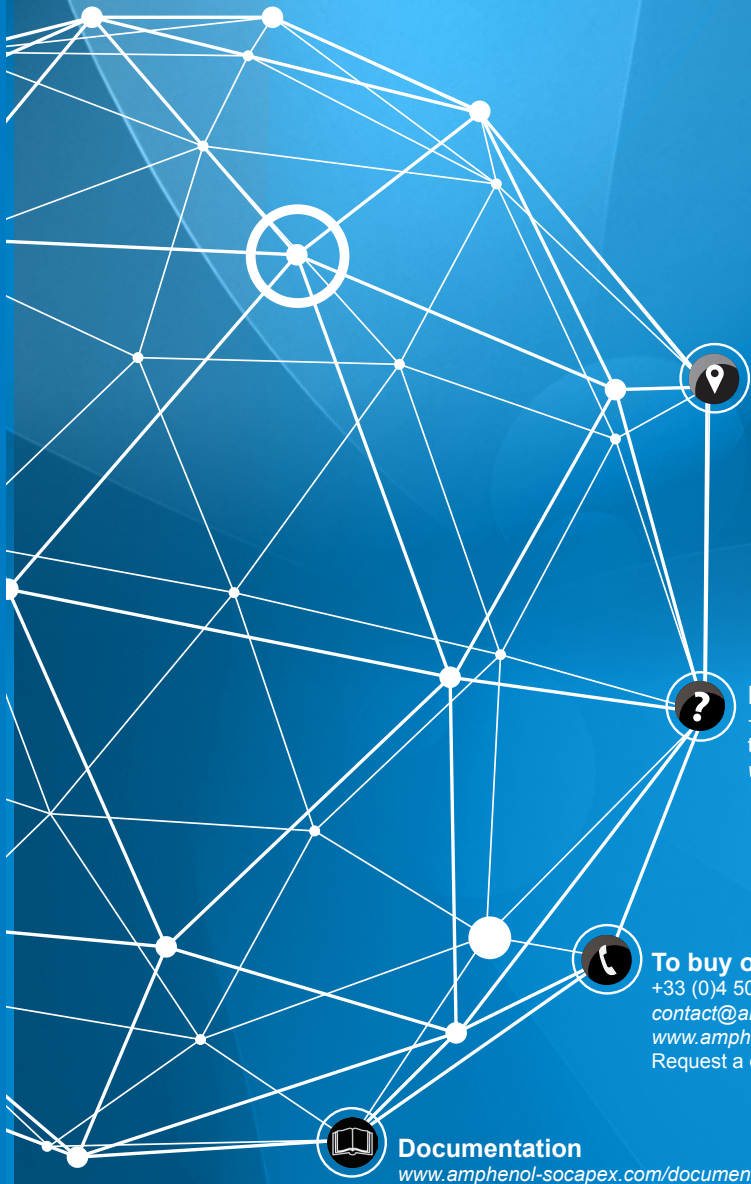
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