

Amphenol

Circular Interconnects

RNJ Mil-DTL-38999 Series I and III Rack & Panel Cylindrical Connectors

Features

Realignment Capability

- Axial - $\pm 1\text{mm}$
- Angular - $\pm 6^\circ$
- Longitudinal - 0.5mm

Other Features

- EMI Shielded
- Temperature Range- -65°C to 200°C
- Salt Spray - 500 Hours
- Durability - 500 Cycles
- Same Tooling as standard 38999

Availability

- Standard Profile - Mil-DTL-38999 Series I
- Low Profile - Mil-DTL 38999 Series III
- Shell Sizes - Up to 8 Sizes
- Insert - 66 Variations

Applications

- ▶ Commercial Avionics
- ▶ Volume Restricted Defense Applications
- ▶ Advanced Industrial

[Consult Representative for Part Numbers](#)



ASF-T

Russian Connectors Heavy Duty Cylindrical Connectors

Loosely based on the Mil-C-5015 Threaded Cylindrical Connectors System. The Russian Connectors were developed for use on Electrical and Radio Electronic Equipment.

The connectors include two parts, a Receptacle and Plug. Available in Sealed, Non-Sealed and Specials. Receptacles are available in square flanged panel mount versions with solder-cup termination. The Plug can include backshell accessories, cable clamp, screened or unscreened.

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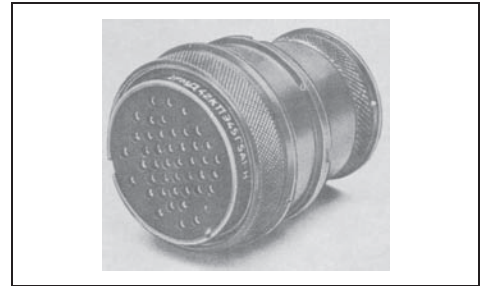
Designations offered

- ЦП; ЦПГ; ЦЩП; 2PT-A; 2PTT; P; ПГ; 2PM; 2PMD and many more.

Construction

Connectors are produced out of Aluminium, with Neoprene Inserts and Silver plated Brass Contacts.

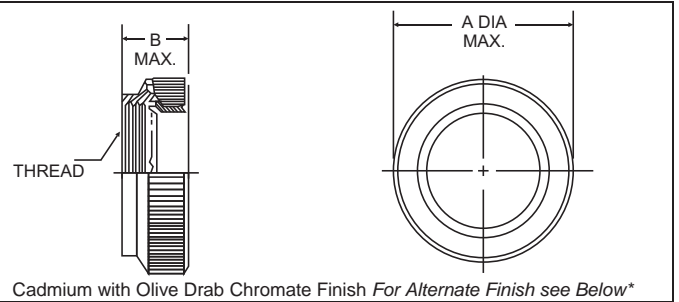
[Consult representative for further details](#)



Back Shells Accessories according to Mil-C-38999

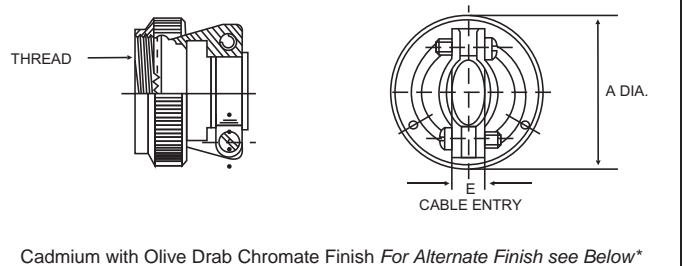
BackShell Rotating Coupling Nut Self Locking only

Part Number	Shell	Dim A	Dim B	Thread Class 28
M85049/14-1-9 W	9	21.79	16.76	M12x1.0-0.10R
M85049/14-1-11 W	11	24.99		M15x1.0-0.10R
M85049/14-1-13 W	13	29.38		M18x1.0-0.10R
M85049/14-1-15 W	15	32.48		M22x1.0-0.10R
M85049/14-1-17 W	17	35.71		M25x1.0-0.10R
M85049/14-1-19 W	19	38.50		M28x1.0-0.10R
M85049/14-1-21 W	21	41.70		M31x1.0-0.10R
M85049/14-1-23 W	23	44.90		M34x1.0-0.10R
M85049/14-1-25 W	25	47.98		M37x1.0-0.10R



Straight Strain Relief

Part Number	Shell	Dim A	Dim E	Thread Class 28
M85049/38-9 W	9	21.79	5.94	M12x1.0-0.10R
M85049/38-11 W	11	24.99		M15x1.0-0.10R
M85049/38-13 W	13	29.38	8.83	M18x1.0-0.10R
M85049/38-15 W	15	32.48	11.61	M22x1.0-0.10R
M85049/38-17 W	17	35.71	16.10	M25x1.0-0.10R
M85049/38-19 W	19	38.50	15.60	M28x1.0-0.10R
M85049/38-21 W	21	41.70	17.73	M31x1.0-0.10R
M85049/38-23 W	23	44.90	29.90	M34x1.0-0.10R
M85049/38-25 W	25	47.98	21.67	M37x1.0-0.10R



Straight Shield Termination

Straight Adapter

Potting Boot Ring

Shrink Boot Adapter

Part Number	Part Number	Part Number	Part Number
M85049/33-2-9 W	M85049/35-9	M85049/58-9	M85049/69-9 W
M85049/33-2-11 W	M85049/35-11	M85049/58-11	M85049/69-11 W
M85049/33-2-13 W	M85049/35-13	M85049/58-13	M85049/69-13 W
M85049/33-2-15 W	M85049/35-15	M85049/58-15	M85049/69-15 W
M85049/33-2-17 W	M85049/35-17	M85049/58-17	M85049/69-17 W
M85049/33-2-19 W	M85049/35-19	M85049/58-19	M85049/69-19 W
M85049/33-2-21 W	M85049/35-21	M85049/58-21	M85049/69-21 W
M85049/33-2-23 W	M85049/35-23	M85049/58-23	M85049/69-23 W
M85049/33-2-25 W	M85049/35-25	M85049/58-25	M85049/69-25 W

*Solutions shown are Cadmium with Olive Drab Chromate for Electroless Nickel replace W with N for Black Anaodize replace W with A

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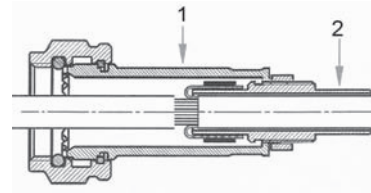
Mil-C-38999 Cylindrical Backshell Accessories for Shielded Termination

Materials

Shell - Aluminium Alloy
Seal - Silicon

Performance

Shielding - Complies to Mil-C-38999
Corrosion - 500 Hrs (Cadmium Plated)
- 96 Hrs (Ni Plated)



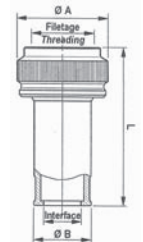
Typical Adapter/Pipe Combination
1: Adapter 2: Pipe



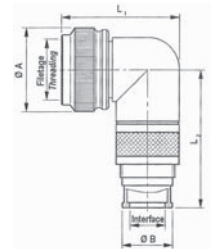
Adapters

Series	Size	ØA	ØB	L	L1	L2	Pipe Interface	Part Number	
								Straight	Right Angle
Series I/II	8/9	18	16	38.8	31.2	32.6	12.1	3309 8001 XXX	3309 8201 XXX
	10/11	21	13	34.8	34.6	34.9	9.1	3309 8002 XXX	3309 8202 XXX
	12/13	24	16	34.8	37.9	36.7	12.1	3309 8003 XXX	3309 8203 XXX
	14/15	27	19	34.8	40.9	37.4	15.1	3309 8004 XXX	3309 8204 XXX
	16/17	30	22.3	34.8	44	40	18.1	3309 8005 XXX	3309 8205 XXX
	18/19	32	25	34.8	47	41.5	20.1	3309 8006 XXX	3309 8206 XXX
	20/21	37	28	34.8	50.6	43	24.1	3309 8007 XXX	3309 8207 XXX
	22/23	40	31.3	34.8	53.6	44.5	27.1	3309 8008 XXX	3309 8208 XXX
Series III/IV	24/25	42.5	34.4	34.8	59.7	46.1	30.1	3309 8009 XXX	3309 8209 XXX
	9/A	18	16	40.2	32.6	32.6	12.1	3309 8011 XXX	3309 8211 XXX
	11/B	21	13	36.2	36	34.9	9.1	3309 8012 XXX	3309 8212 XXX
	13/C	24	16	36.2	39.3	36.7	12.1	3309 8013 XXX	3309 8213 XXX
	15/D	27	19	36.2	42.3	37.4	15.1	3309 8014 XXX	3309 8214 XXX
	17/E	30	22.3	36.2	45.4	40	18.1	3309 8015 XXX	3309 8215 XXX
	19/F	32	25	36.2	48.4	41.5	20.1	3309 8016 XXX	3309 8216 XXX
	21/G	37	28	36.2	52	43	24.1	3309 8017 XXX	3309 8217 XXX
	23/H	40	31.3	36.2	55	44.5	27.1	3309 8018 XXX	3309 8218 XXX
	25/J	42.5	34.4	36.2	61.1	46.1	30.1	3309 8019 XXX	3309 8219 XXX

Straight Type

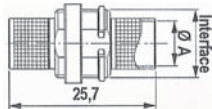


Right Angle Type



Replace XXX in Part Number with 012 for Olive Green Cadmium Plating or 018 for Electroless Nickel Plating

Pipes



Part Number System

3309 XXXX XXX

INTERFACE

See Adjacent Table

PLATING

012: Olive Green Cadmium
018: Electroless Nickel

Interface Table

ØA	3	3.5	4	5.5	6	7.5	9.5	10.5	12.5	14
6.1	8554	8555								
9.1			8500	8501						
12.1			8502	8503	8504	8505				
15.1				8507	8508	8509	8510	8511		
18.1				8513		8514	8515	8516	8517	
20.1						8519	8520	8521	8522	8523
24.1						8525	8526	8527	8528	8529
27.1								8534	8535	
30.1				8539		8540	8541	8542	8543	8544
ØA	15.5	17	18	18.5	20	21.5	23	23.5	25	
6.1										
9.1										
12.1										
15.1										
18.1										
20.1	8524									
24.1	8530			8531						
27.1				8536	8537			8538		
30.1	8545	8546	8547	8548	8549	8550	8551	8552	8553	

Clamps and Tools

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