



PERFORMANCE AND MATERIAL SPECIFICATIONS

EN2997
AECMA Series

PERFORMANCE SPECIFICATIONS:

All performance characteristics in accordance with the requirements specified in the EN2997 specification. The following performance characteristics are derived directly from that specification, unless otherwise noted.

• Test Dielectric Withstanding Voltage

Altitude		Service Rating	
ft.	m	I	II
Sea Level	-	1500	2300
50,000	15,240	500	750
70,000	21,336	375	500
110,000	33,528	200	200

• Contact Information and Specifications

Contact/ Barrel Size	Test Current DC Test Amperage	Contact Retention		Available Wire Size for Contact
		Axial Load		
		lb	N	
20/22	2.0	20	89.0	26
	3.0	20	89.0	24
	5.0	20	89.0	22
20/20	3.0	20	89.0	24
	5.0	20	89.0	22
	7.5 (5.0)	20	89.0	20
20/18	3.0	20	89.0	24
	5.0	20	89.0	22
	7.5	20	89.0	20
	7.5	20	89.0	18
16/18	3.0	25	111.2	24
	5.0	25	111.2	22
	7.5	25	111.2	20
	10.0	25	111.2	18
16/16	7.5	25	111.2	20
	10.0	25	111.2	18
	13 (10.0)	25	111.2	16
16/14	10.0	25	111.2	18
	13.0	25	111.2	16
	13.0	25	111.2	14
12/18	3.0	30	133.5	24
	5.0	30	133.5	22
	7.5	30	133.5	20
	10.0	30	133.5	18
12/12	17.0	30	133.5	14
	23.0 (17.0)	30	133.5	12

(*.) = Hermetic

Note: Current ratings can vary greatly dependent on system requirements and thermal heat-rise.

• Test description & Parameters

- Durability

Minimum of 500 mating cycles.

- Operating Temperature Range

-65°C to +200°C (-85°F to +392°F)

- Vibration

Mated connectors are vibrated harnessed to the following levels:

Sine Vibration: Up to 60 G's at rated temperature
Random Vibration: 43.7 Grms at rated temperature
49.5 Grms at ambient temperature

- EMI Shielding Effectiveness of mated shells with Spring Fingers

Frequency (MHz)	Leakage attenuation (dB)
100	65
200	60
300	55
400	55
600	50
800	45
1000	45

- Corrosion Resistance

Stainless steel shells will withstand 500 hours salt spray.

- Fluid Immersion

Connectors are fluid resistant to many different fuels, solvents, coolants, and oils.

- Hermetic Leak Rate

Less than 1E-7 cm³/s

Note: For specific Hermetic or other test data, please consult HIRELCO in Claremont, CA.

MATERIAL SPECIFICATIONS:

All material shall be in accordance with requirements specified in the EN2997 specification.

Finishes shall be in accordance with requirements specified in the EN2997 specification.