

# EN2997 connectors

upgraded performance AECMA  
specification vs. MIL-DTL-83723 Series III



NYK Component Solutions are a franchised distributor of selected mil-specification connectors for leading QPL manufacturers. We offer a comprehensive inventory of backshells, contacts and connector accessories.

Improved medium-sized environmentally resistant circular connectors based on the MIL-DTL-83723 Series III form factor, but complies with the more stringent EN2997 European standards.



## Product Features

- σ As per MIL-DTL-83723 Series III but additionally meets more stringent EN2997 specification for AECMA demands
- σ Metal to metal grounding between receptacles and plugs, improved RFI continuity
- σ -65degC to +260degC cyclic operating temperature
- σ Ability to withstand an extended range of fluids in an aerospace environment

## Product Benefits

- σ Designed to deliver higher performance capability for application in severe environmental applications such as aircraft engines, pressure and temperature sensors. Special fuel tank versions available
- σ Meets EN European requirements

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## Product technical description

- σ **General:** Medium density contact arrangements with fine thread secure coupling in corrosion resistant shells.
- σ **Temperature:** -65degC (-85degF) to +125degC (+500degF)
- σ **Durability:** 500 mating cycles min.
- σ **Corrosion Resistance:** 48 hours per EN2997
- σ **Shell to shell conductivity:** max potential drop not exceeding 10mV
- σ **Contact Current Ratings:** #20 5A, #16 10A, #12 17A

Technical description is typical and varies per class.

## How to order

EN2997 Series (example)

EN2997	6	KE	1624	F	6
AECMA Designation	Shell Size	Class	Contact Arrangement	Contact Style	Alternative Keying
AECMA is the European Association of Aerospace Industries					

EN2997 connectors are compatible with MIL-DTL-83723 Series III contact arrangements, there are also special arrangements not shown on the table below. Please contact NYK Component Solutions for availability.

### EN2997 ORDERING INFORMATION

<b>Class</b>	<b>KE</b>	Stainless steel, firewall (+260 degC)
	<b>SE</b>	Stainless steel, firewall (+260 degC) with grounding spring
	<b>YE</b>	Stainless steel hermetic (+260 deg C)
<b>Shell Style</b>	<b>0</b>	Square flange receptacle
	<b>1</b>	Solder mount receptacle (hermetic only)
	<b>6</b>	Plug, non-decoupling
	<b>7</b>	Jam nut receptacle (hermetic only)
<b>Shell Size</b>	<b>8, 10, 12, 14, 16, 18, 20, 24, 28</b>	
<b>Contact Arrangement</b>	See MIL-C-83723 specification or NYK Component Solutions product page	
<b>Contact Style</b>	<b>M</b>	Standard pin
	<b>A</b>	Pin insert less contacts
	<b>F</b>	Standard socket
	<b>D</b>	Socket insert less contacts
<b>Alternative Keying</b>	<b>N</b>	Normal
	<b>6</b>	Variant
	<b>7</b>	Variant
	<b>8</b>	Variant
	<b>9</b>	Variant
	<b>Y</b>	Variant

These connectors are fully interchangeable and intermateable with MIL-DTL-83723 Series III threaded and Rolls Royce ESC10 connectors.

### FOR REFERENCE

#### INSERT CONFIGURATION BY SHELL SIZE

Shell Size	NUMBER OF CONTACTS			
	Total	20	16	12
8-2	2	2		
8-3	3	3		
8-98	3	3		
10-2	2	2		
10-5	5	5		
10-6	6	6		
10-20	2		2	
12-3	3		3	
12-12	12	12		
14-4	4			4
14-7	7		7	
14-12	12	9	3	
14-15	15	15		
16-10	10		10	
16-24	24	24		
18-8	8			8
18-14	14		14	
18-31	31	31		
20-16	16		16	
20-25	25	19		6
20-28	28	24		4
20-39	39	37	2	
20-41	41	41		
22-12	12			12
22-19	19			19
22-32	32	26		6
22-39	39	27	12	
22-55	55	55		
24-19	19			19
24-43	43	23	20	
24-57	57	55		2
24-61	61	61		

<https://www.nykcs.com/mil-dtl-83723-en2997-esc10-connectors/>