

## Expanded-Performance Contacts

P/N AS39029/121 & /122

### HIGH-RELIABILITY SOLUTIONS

Our Expanded-Performance Contacts feature improvements in temperature, vibration, and shock impact, and align with the performance of D38999 Series III connectors. We offer a wide range of contact sizes down to size 23 and wire gauges down to size 26 to truly provide you a one-stop shop experience.

Expanded-Performance Contacts are made to operate best in commercial and military aircraft applications. By covering the D38999 Series III connectors, it gives the convenience of utilizing the same connector as it is interchangeable with AS39029/56, /57, and /58 contacts.



FEATURES	BENEFITS
Qualified at 200 °C vs. ambient	<ul style="list-style-type: none"> <li>Align/harmonize the contact performance requirement with the applicable connector's performance</li> </ul>
High-impact shock after vibration test	<ul style="list-style-type: none"> <li>Time-savings during initial installation or replacement and eliminating potential align/harmonize the contact performance requirement with the applicable connector's performance FOD</li> </ul>
Add wire range accommodation for size 23 contact with size 26 wire barrel	<ul style="list-style-type: none"> <li>Use smaller wire size down to wire gauge 26</li> </ul>
Contacts interchangeable with AS39029/56, /57, and /58	<ul style="list-style-type: none"> <li>Customers can continue to use the same connectors</li> </ul>
Contact Size: 10,12,16,20, 22, and 23	<ul style="list-style-type: none"> <li>Covers the entire D38999 Series III connectors</li> </ul>

### PART NUMBERING SYSTEM

Mating Size	Wire Barrel Size	Pin AS39029/121	Amphenol CIT Part Number	Socket AS39029/122	Amphenol CIT Part Number
23	26	-662	315-2326-A122-L	-669	316-2326-A121-L
23	22	-663	315-2322-A122-L	-670	316-2322-A121-L
22	22D	-664	315-2222-A103-L	-671	316-2222-A136-L
20	20	-665	315-2020-A106-L	-672	316-2020-A139-L
16	16	-666	315-1616-A107-L	-673	316-1616-A140-L
12	12	-667	315-1212-A108-L	-674	316-1212-A141-L
10	10	-668	315-1010-A231-L	-675	316-1010-A231-L

SPECIFICATIONS & PERFORMANCE

Slash Sheet Specifications

<p><b>AS39029/</b></p>	Application Environment	AS39029 Contact Design Control
	High vibration, high temperature for engine application	Must be <u>solid one-piece</u> construction
	200 °C	Uncontrolled, unlimited
	Ambient temperature only	Uncontrolled, unlimited

Slash Sheet Comparison

Slash Sheet	Description	Plating	Durability	Vibration Under Temperature to Qualify	Design Control
AS39029/56, /57, & /58	Contacts, crimp removable, for D38999 Series I, II, III, & IV	50 GOLD	500	No	Unrestricted Uncontrolled Unlimited
AS39029/121 & /122	Expanded Performance Contacts, crimp removable, for D38999 Series III	50 GOLD	500	Yes	

Major Testing Differences

Test	AS39029/56, /57, /58	AS39029/121 & /122
Sine Vibration	Not required	Connector samples shall be subjected to a simple harmonic motion from 10 to 2,000 Hz in each of three mutually perpendicular axes
Random Vibration at Ambient Temperature	Vibration to be conducted at <b>ambient temperature</b> . Duration shall be 8 hours in the longitudinal direction and 8 hours in a perpendicular direction for a total of 16 hours	<b>Vibration to be at 200 °C ± 5 °C.</b> Duration shall be 8 hours in the longitudinal direction and 8 hours in a perpendicular direction for a total of 16 hours
Shock	In accordance with EIA-36427 Test Condition D	In accordance with EIA-36427 Test Condition D <ul style="list-style-type: none"> <li>The pulse shall be an approximate half sine wave of 300 G ±15% magnitude with a duration of 3 milliseconds ±1 milliseconds</li> <li>The wire bundle shall be clamped to fixed points at least 8 inches from the rear of the connector</li> <li>High Impact Shock</li> </ul>