Expanded Performance Contacts
AS39029/121 & /122

CARLISLE INTERCONNECT TECHNOLOGIES

HIGH RELIABILITY SOLUTIONS

Carlisle Interconnect Technologies (CarlisleIT) introduces Expanded Performance Contacts, SAE-AS39029/121 and /122. With improvements in temperature, vibration, and shock impact, the new contact's expanded performance can now align with the performance of the connectors D38999 Series III. 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 Connector Series III, it gives the convenience of utilizing the same connector as it is interchangeable with AS39029/56, /57 and /58 contacts.

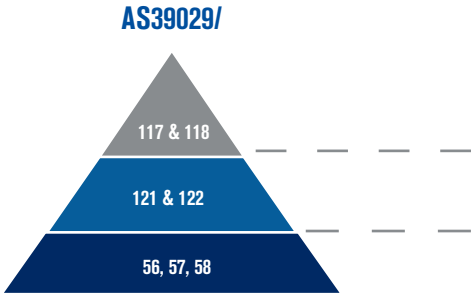
FEATURES & BENEFITS

Feature	Customer Benefit
Qualified at 200° C vs. ambient	Align/Harmonize the contact performance requirement with the applicable connector's performance
High impact shock after vibration test	Align/Harmonize the contact performance requirement with the applicable connector's performance
Add wire range accommodation for size 23 contact with size 26 wire barrel	Use smaller wire size down to wire gauge 26
Contacts interchangeable with AS39029/56, /57 and /58	Customers can continue to use the same connectors
Contact Size:10,12,16,20, 22 and 23	Covers the entire D38999 Connector Series III

PART NUMBERING SYSTEM

Mating Size	Wire Barrel Size	Pin	CarlisleIT Part Number	Socket	CarlisleIT Part Number
		AS39029/121		AS39029/122	
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

SLASH SHEET SPECIFICATIONS



Application Environment	AS39029 Contact Design Control
High vibration, high temperature for engine application	Must be solid one-piece 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
NEW! 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 **ambient temperature**. Duration shall be 8 hours in the longitudinal direction and 8 hours in a perpendicular direction for a total of 16 hours	**Vibration to be at 200°C ± 5°C**. 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 ▪ The pulse shall be an approximate half sine wave of 300 G ±15% magnitude with a duration of 3 milliseconds ±1 milliseconds ▪ The wire bundle shall be clamped to fixed points at least 8 inches from the rear of the connector ▪ High Impact Shock

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