



## MACHFORCE PHYSICAL AND ENVIRONMENTAL TESTING

MACHFORCE® is tested and qualified for use with PICMATES cables E6A6826 and E6A6824.

TEST PROCEDURE	TEST STANDARD	RESULT
Ethernet Performance at Temperature (-65°C to 200°C)	EIA-568-C CAT6A	PASS
Shell-to-Shell Conductivity	MIL-DTL-38999 Rev M: 4.5.25	PASS
Salt Spray (Dynamic) (500 mating cycles during 500 hours of salt spray)	MIL-DTL-38999 Rev M: 4.5.13.2	PASS
Mechanical Shock (300g – 3 shocks per each of 6 axes)	MIL-DTL-38999 Rev M: 4.5.24.1	PASS
Random Vibration (37.8g <sub>rms</sub> – 3 axes)	MIL-DTL-38999 Rev M: 4.5.23	PASS
Temperature Cycling (-65°C to 200°C)	MIL-DTL-38999 Rev M: 4.5.4	PASS
Coupling and Uncoupling Torque	MIL-DTL-38999 Rev M: 4.5.7	PASS
Lightning Strike	MIL-DTL-38999 Rev M: 4.5.47	PASS
Insulation Resistance at Ambient	MIL-DTL-38999 Rev M: 4.5.10.1	PASS
Dielectric Withstanding Voltage (600V)	MIL-DTL-38999 Rev M: 4.5.11.1	PASS
Ingress Protection*	IEC 60529: IPX7	PASS
Humidity	MIL-DTL-D38999 Rev M: 4.5.26 & 3.30	PASS
Contact Retention	MIL-DTL-D38999 Rev M: 4.5.19	PASS
Pin Contact Stability	MIL-DTL-D38999 Rev M: 4.5.31	PASS
Contact Walkout	MIL-DTL-D38999 Rev M: 4.5.32	PASS
Insert Retention	MIL-DTL-D38999 Rev M: 4.5.12	PASS
Maintenance Aging	MIL-DTL-D38999 Rev M: 4.5.2	PASS
Backshell Braid-to-Shell Conductivity	MIL-DTL-D38999 Rev M: 4.5.25.1	PASS
Dust (Fine Sand)	MIL-DTL-38999 Rev M: 4.5.41	PASS
Fungus	MIL-DTL-38999 Rev M: 4.2.2	PASS

\*Testing completed only for E6A6824



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