

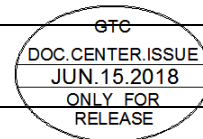


Part Number		Snap-in M6 Connector Panel & Cable End Engineering Specifications				
Specifications			(REV.)	(DATE)	(PREPARED)	(APPROVED)
Current Rating		5.0A	01	2018/05/21	Viola	Lucas
AWG Gauge		22 AWG				
Operation temperature		With Cable -40°C / +85°C				
IP Rating		IP 67				
Number Of Ways	Male Face View	Female Face View	AWG Gauge	Voltage	Amps	
2			22AWG	300V	5A	

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Material	
Male/Female Housing Panel	PA66
Male/Female Housing Cable End	PA66
Male/Female Contacts	Copper Alloy , Au Plated
Panel Hex Nut	Copper Alloy
Panel O-Ring	Silicone
Glue	Epoxy
Over Mold	TPU

Product Technical Data		
Characteristics	Standard	Description
Visual and Dimensional Inspection	EIA 364-18	Must meet or exceed the requirements specified by the most current version of the Snap-in M6 Specification.
Insulation Resistance	EIA 364-21 or IEC 60512-3a	DC500V±10% , test for 1 minute and the insulation resistance should be more than100MΩ
Dielectric Withstanding Voltage	EIA 364-20 or IEC 60512-4a	1000V AC contact-to-contact, for 1min.
Contact Resistance	EIA 364-23 or IEC 60512-2b	10mΩ at 100mA Max.
Durability	EIA 364-09 or IEC 60512-9a	Snap-in type 2000 cycles ,rate of 250 cycles per hour.
Cable Pull-Out	EIA 364-38 Test Condition A or IEC 60512-13a	After the application of a steady state axial load of 222 N for 1 hour
Cable Flexing	EIA 364-41	A traverse 180° in one direction plus 180° in the opposite direction shall be called one cycle , the cycling rate shall be 12 to 14 cycles per minute. After completion of 100 cycles , test withstanding voltage and insulation resistance
Physical Shock	EIA 364 27 Test Condition H or IEC 60512-6c	No discontinuities of 1 μs or longer duration when mated Snap-in M6 connectors are subjected to 11 ms duration 30 Gs half-sine shock pulses. Three shocks in each direction applied along three mutually perpendicular planes for a total of 18 shocks.
Random Vibration	EIA 364-28 or IEC 60512-6d	The electrical load conditions shall be 100mA maximum for all contacts. Frequency: 50 to 2000 Hz PDS: 0.04 g ² /Hz. Duration: 1 Hour/Axis, 3 Axes Total. g's: 7.56 g rms
Thermal Shock	EIA 364-32 Test Condition VIII or IEC 60512-11d	5 cycles at -40°C / +105°C , after the test, the function and appearance can't be impacted.



Salt Spray	EIA 364-26 or IEC 60512-11f	The test liquid (NaCl) thickness is 5%, Compressing the air pressure is 0.083Mpa, Spraying amount is 0.5~3.0ml/ 80cm ² / hours , Temperature of the pressure barrel is 43°C , LAB temperature is 35°C , relative humidity of LAB is 95%~98% , test time is 48hr , after the test, check if there is rusty and oxidized phenomenon
Waterproof Test	IEC 60529	Under 1 M water for 30 min.
Temperature Life W/O Electrical Load	EIA364-17 Condition 3 or IEC 60512-9b	80°C for 96 Hours .
Low Temperature	EIA364-59 Condition 3 or IEC 60512-11k	-20°C for 96 Hours
Temperature Humidity Cycling	EIA 364-31 , Method III Test Condition A	4 cycles at 25°C / +65°C 95%RH, Test time condition A 96Hours.

