

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Materials

Connector: 50-00590

- 1 Insulator, PBT + 15% glass fiber, UL94 V-0, black 2 Shell, H65, nickel plated
- (3) Tray, C3602, nickel plated
- (4) Center contact, C5191 phosphor bronze, nickel plated
- (5) Ground contact, brass, nickel plated

Inner Sleeve: 56-00002

(6) Inner sleeve, Nylon UL 94V-0

Outer Sleeve: 56-00003 (7) Outer sleeve, TPU, black

Electrical requirements

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 M Ω @ 500 Vdc Contact resistance: 30 m Ω or less

Mechanical requirements

Insertion force: 0.3~3 kgf Withdrawal force: 0.3~3 kgf

Durability: 5000 mating cycles while maintaining; 0.3~3 kgf insertion force, 0.3~3 kgf withdrawal force and a

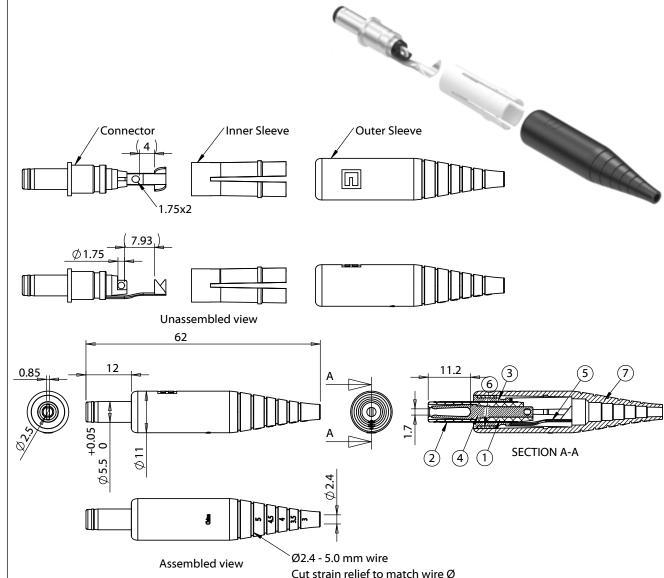
less than $100 \text{ m}\Omega$ contact resistance.

Environmental requirements

Cold test: -25 ±3 °C for 48 hours without deformation Heat test: 70 ±2 °C for 48 hours without deformation Humidity test: 40 ±2 °C and humidity between 90 and 98 % for 96 hours without deformation

Salt spray test: 35 °C, RH 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical and electrical

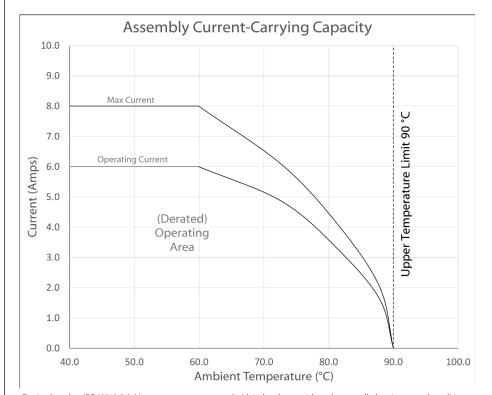
requirements.



Revision:	Date:	Description:	Prepared:	Notes:					
A2	11/2/2016	Updated materials	AG Digitally signed by AG Date: 2018.04.20 10:20:49 -07'00'	RoHS and REACH compliant		ΙΤ	FI	NSIL	ITY
A3	3/8/2017	Changed length, diameter, design	Verified: PS Digitally signed by PS Date: 2018.04.27 15:47:01-07'00'	Function test: no open, no short circuit, no intermittent		tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com			
A4	7/14/2017	Changed inner sleeve design	Dimensions are in						
A5	8/22/2017	Changed connector P/N	- millimeters. Tolerances: X: ± 0.5 mm	Description: Connector, 5.5x2.5xL12 mm dc plug, nickel plated, assembly type, spring contacts		Size: Part number: A 55-00050			
A6	4/9/2018	Updated curent rating	X.X: ± 0.3 mm X.XX: ± 0.05 mm			Scale:	1:1		Sheet 1 of 2
		5	4	3	2	•		•	1

Ratings Rated voltage: 48 V Rated current: 6 A

Operating range -25 to 90°C, relative humidity of 85% or less



Testing based on IEC 60512-5-2. Max current curve generated with isolated test article under controlled environmental conditions, and does not take into account external factors such as housings, mating cables, or other circuitry. Operating current curve (derated by 20% of maximum values) accounts for external factors, and manufacturing variation.

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