Materials

Connector: 50-00590

- Insulator, PBT + 15% glass fiber, UL94 V-0, black
 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 MΩ @ 500 Vdc Contact resistance: 30 m Ω or less

Mechanical requirements

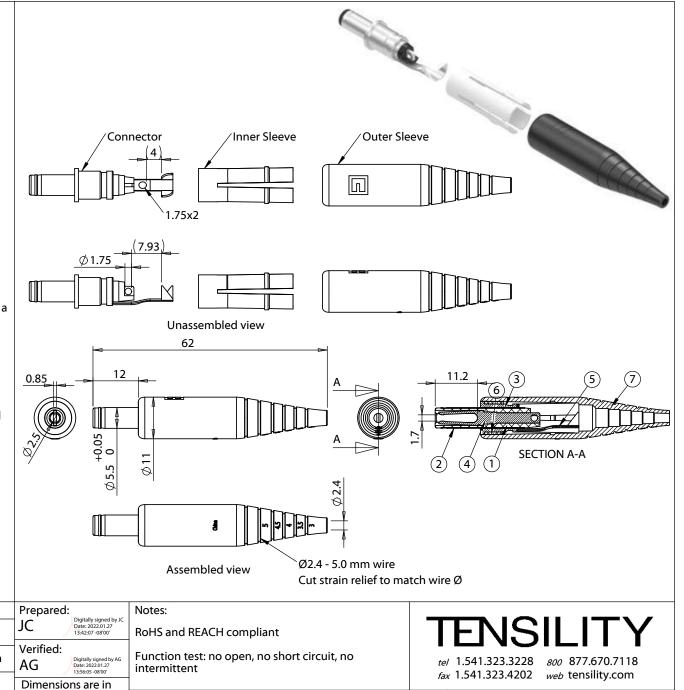
Insertion force: 0.3~3 kgf Withdrawal force: 0.3~3 kgf Durability: 5000 mating cycles while maintaining; 0.3~3 kgf insertion force, 0.3~3 kgf withdrawal force and a less than 100 m Ω contact resistance.

Revision: Date:

Environmental requirements Cold test: -25 ±3 °C for 48 hours without deformation Heat test: $70 \pm 2^{\circ}$ 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.

Description:



A2	11/2/2016	Updated materials	JC Digitally signed by JC Date: 2022.01.27 13:42:07 -08'00'	RoHS and REACH compliant	TENSII ITY					
A3	3/8/2017	Changed length, diameter, design	AG Digitally signed by AG Date: 2022.01.27 13:56:05-08:00	Function test: no open, no short circuit, no intermittent			tel 1.541.323.3228 800 877.670.7118			
A4	7/14/2017	Changed inner sleeve design	Dimensions are in			<i>fax</i> 1.541.323.4202 <i>web</i> tensility.com				
A5	8/22/2017	Changed connector P/N	millimeters. Tolerances: X: ± 0.5 mm	Description: Connector, 5.5x2.5xL12 mm dc plug, nickel plated,		Size: A		t number: -00050		
A6	4/9/2018	Updated curent rating	X.X: ± 0.3 mm X.XX: ± 0.05 mm	assembly type, spring contacts		Scale:	1:1	$\bigcirc \bigcirc$	Sheet 1 of 2	
		5	4	3	2				1	

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