Materials

Connector: 50-00591

- (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, C3602, nickel-plated

Inner Sleeve: 56-00002

(6) Inner sleeve, Nylon UL94V-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

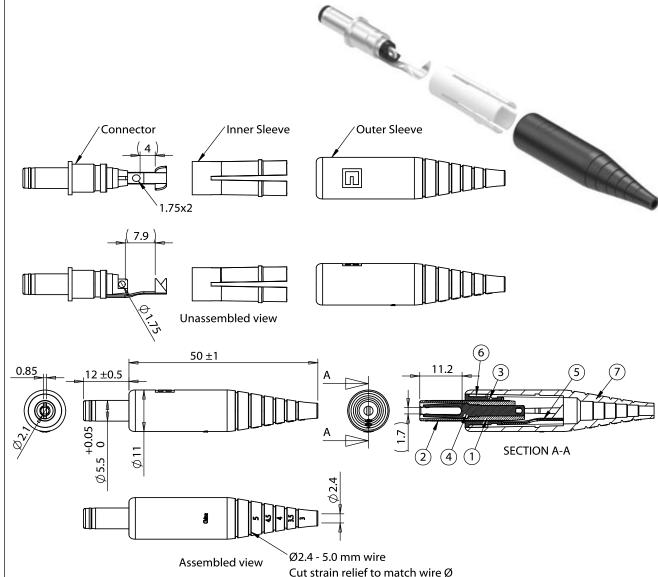
Durability: (5000) mating cycles while maintaining; $0.3\sim3$ kgf insertion force, $0.3\sim3$ kgf withdrawal force and a less than 100 m Ω contact resistance.

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.



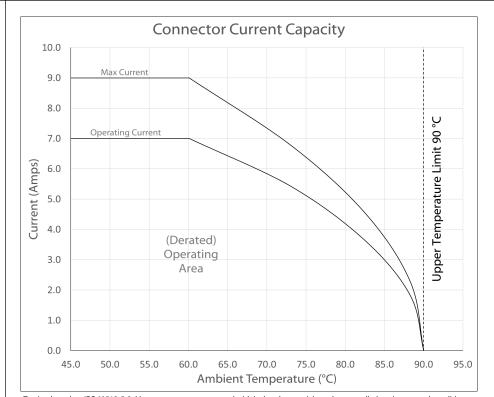
Revision:	Date:	Description:	Prepared:	Notes: RoHS compliant Function test: no open, no short circuit, no intermittent Description: Connector, 5.5x2.1xL12 mm dc plug, nickel plated, assembly type, spring contacts							
Α	2/13/2018	Initial release	AG Date: 2018.04.20 10:27:58 -07'00'			NoHS compliant				NSIL	LITY
			Verified: PS Digitally signed by PS Date: 2018.04.27 15:47:53			tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com					
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			millimeters.Tolerances:X: ± 0.5 mm			Size: Part number: A 55-00051					
			X.X: ± 0.3 mm X.XX: ± 0.05 mm			Scale:	1:1		Sheet 1 of 2		

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Ratings

Rated voltage: 48 V Rated current: 7 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.

Revision:	Date:	Description:	Prepared:	Notes:				
Α	2/13/2018	Initial release	AG Digitally signed by AG Date: 2019.03.12 14:57:47 - 07'00'	RoHS compliant	TFNSII ITY			
			Verified: PS Digitally signed by PS Date: 2019.03.12 14:55:20-07'00'	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			
			Dimensions are in millimeters.		,			
			Tolerances:	Description: Connector, 5.5x2.1xL12 mm dc plug, nickel plated, assembly type, spring contacts		Size: Part number: A 55-00051		
			X: ± 0.5 mm X.X: ± 0.3 mm					
		X.XX: ± 0.05 mm				: 1:1 Sheet 2 of 2		