

- 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

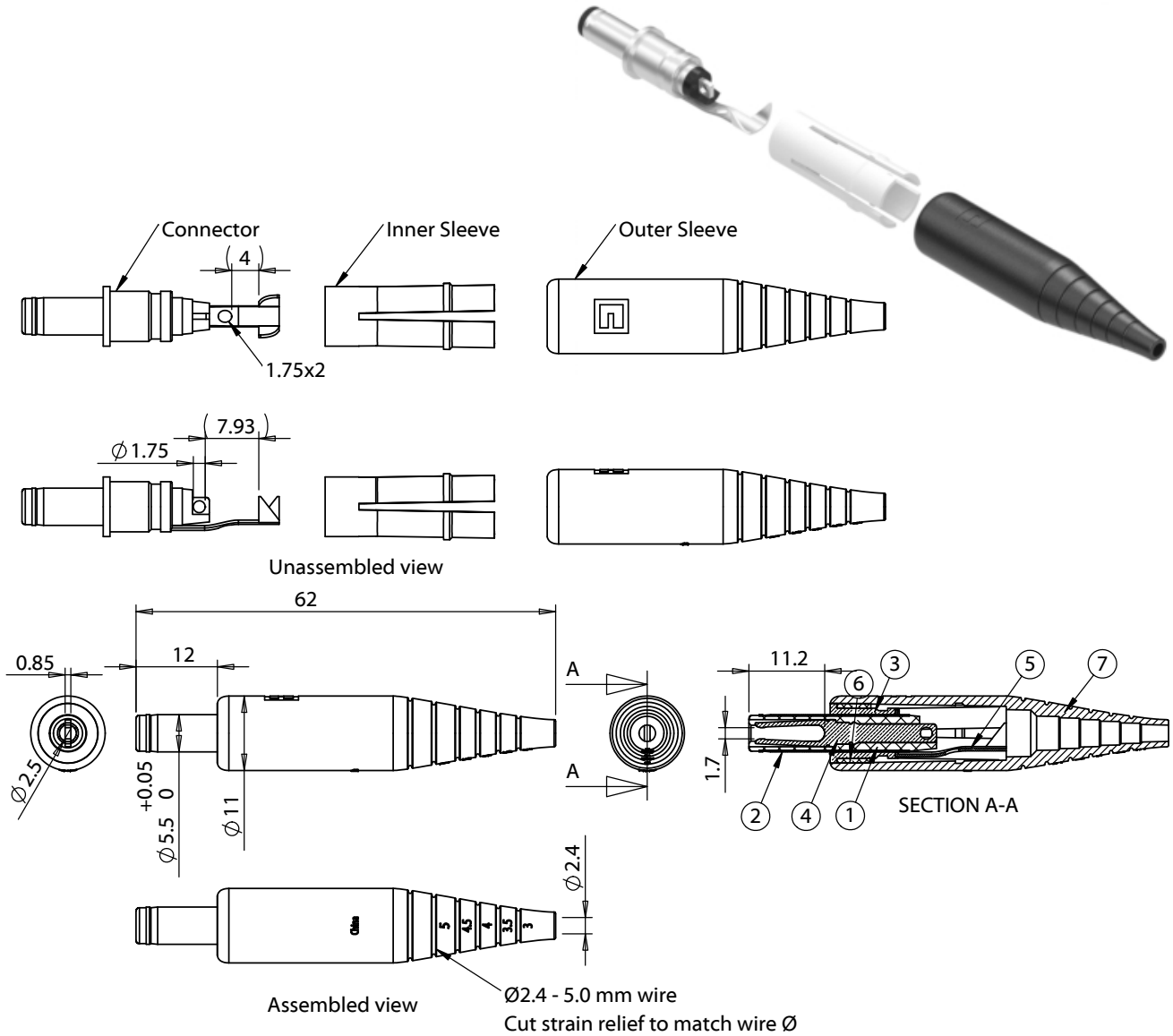
- Inner Sleeve: 56-00002
⑥ Inner sleeve, Nylon UL 94V-0

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

Electrical requirements
Dielectric strength: 1 min @ 500 Vac
Insulation resistance: 100 MΩ @ 500 Vdc
Contact resistance: 30 mΩ 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 mΩ 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.



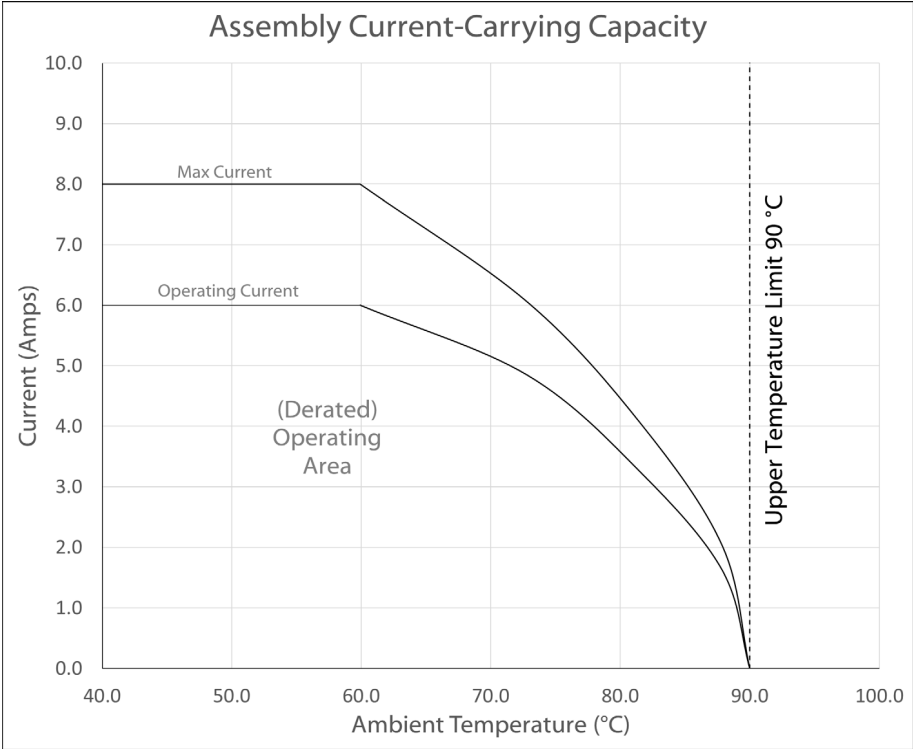
Revision:	Date:	Description:	Prepared:	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com		
A2	11/2/2016	Updated materials	Verified:	RoHS and REACH compliant Function test: no open, no short circuit, no intermittent			
A3	3/8/2017	Changed length, diameter, design	Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	Description:	Size:	Part number:	
A4	7/14/2017	Changed inner sleeve design		Connector, 5.5x2.5x12 mm dc plug, nickel plated, assembly type, spring contacts	A	55-00050	
A5	8/22/2017	Changed connector P/N			Scale:	1:1	Sheet 1 of 2
A6	4/9/2018	Updated curent rating					

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.

Revision:	Date:	Description:	Prepared:	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com		
A2	11/2/2016	Updated materials	Verified:	RoHS and REACH compliant			
A3	3/8/2017	Changed length, diameter, design	Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	Function test: no open, no short circuit, no intermittent	Size: Part number: A 55-00050		
A4	7/14/2017	Changed inner sleeve design		Description:			
A5	8/22/2017	Changed connector P/N		Connector, 5.5x2.5xL12 mm dc plug, nickel plated, assembly type, spring contacts	Scale: 1:1  Sheet 2 of 2		
A6	4/9/2018	Updated current rating					