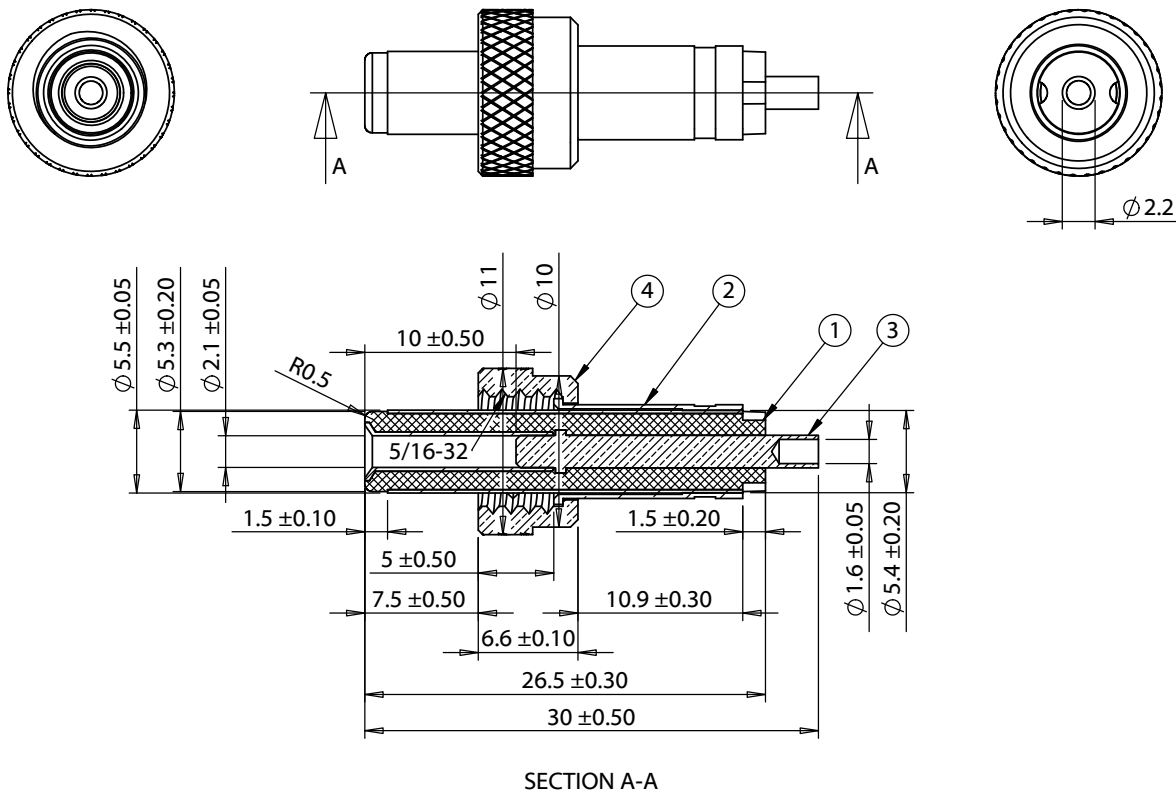


1. Insulator: PBT + 15% GF, black
2. Shell: C3604 brass, 2 μ m nickel plated
3. Pin: C2680 brass, 2 μ m nickel plated
- 4 Nut: C3604 brass, 2 μ m nickel plated

Dielectric strength: 1 min @ 500 Vac
Insulation resistance: 100 MΩ @ 500 Vdc
Contact resistance: 30 mΩ or less

Insertion force: 0.3-3 kgf
Withdrawal force: 0.3-3 kgf
Life cycle: 5000 mating cycles while maintaining 0.3-2 kgf min. insertion force, 0.2-1.5 kgf min. withdrawal force and less than 100 mQ contact resistance.

Environmental requirements
Heat test: 70 °C, relative humidity 70-85% for 96 hours without deformation while maintaining contact resistance after test 100 mohms or less, and insulation resistance 50 Mohms/500 Vdc minimum
Humidity test: 40 °C, relative humidity 90-100% for 96 hours without deformation while maintaining dielectric strength 500 Vac/1 minute, insulation resistance 50 Mohms/500 Vdc minimum, and contact resistance 100 mohms or less
Salt spray test: 35±2 °C, relative humidity 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 80 mΩ.



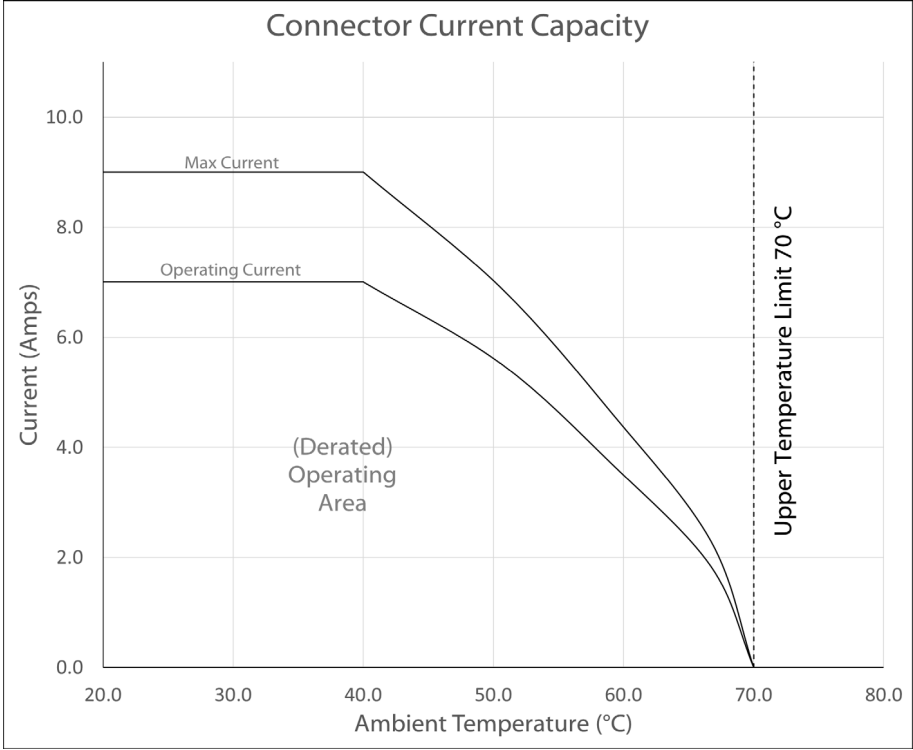
Revision:	Date:	Description:	Prepared:	Notes:	<div style="text-align: center;"> <h1>TENSILITY</h1> <p> <i>tel</i> 1.541.323.3228 <i>800</i> 877.670.7118 <i>fax</i> 1.541.323.4202 <i>web</i> tensility.com </p> </div>			
A	5/19/2009	Initial release	Verified:	RoHS compliant				
A1	11/11/2015	Modified insulator material	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: A Part number: 50-00010	Scale: 2:1		Sheet 1 of 2
A2	11/20/2017	Updated specifications		Description: Connector, dc plug, 5.5x2.1xBL7.5xL30 locking style, brass nickel plated, threaded nut 5/16-32				

Ratings


Maximum Operating Voltage: 48 Vdc
Maximum Operating Current: 7.0 A

Operating Temperature Range

-25°C to 70°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:	<div>TENSILITY</div> <div>tel 1.541.323.3228 800 877.670.7118</div> <div>fax 1.541.323.4202 web tensility.com</div> <div>Size: A Part number: 50-00010</div> <div>Scale: 2:1  Sheet 2 of 2</div>		
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