Materials

Revision:

А

A1

A2

Date:

5/19/2009

11/11/2015

11/20/2017

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

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 Life cycle: 5000 mating cycles while maintaining 0... insertion force, 0.2-1.5 kgf min. withdrawal force 100 m Ω contact resistance.

Environmental Requirements

- Heat test: 70 °C, relative humidity 70-85% for 96 ho without deformation while maintaining contact i after test 100 mohms or less, and insulation resis 50 Mohms/500 Vdc minimum
- Humidity test: 40 °C, relative humidity 90-100% for without deformation while maintaining dielectric 500 Vac/1 minute, insulation resistance 50 Mohr
- minimum, and contact resistance 100 mohms or Salt spray test: 35±2 °C, relative humidity 90-95%, mist for 24 hrs. Wash parts after test. Maintain m requirements and a contact resistance of less that

, black n nickel plated nickel plated nickel plated @ 500 Vac $M\Omega @ 500 Vdcα or lesssffcles while maintaining 0.3-2 kgf min.gf min. withdrawal force and less than$			
ce. ents umidity 70-85% for 96 hours hile maintaining contact resitance less, and insulation resistance imum we humidity 90-100% for 96 hours hile maintaining dielectric strength ation resistance 50 Mohms/500 Vdc resistance 100 mohms or less lative humidity 90-95%, 5% NaCl rts after test. Maintain mechanical tact resistance of less than 80 mΩ.			
	5.5	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	· · · · · · · · · · · · · · · · · · ·
Description:	Prepared:	Notes:	
Initial release	AG Digitally signed by AG Date: 2020.03.20 11:35:10-07'00'	RoHS compliant	TENSILITY
Modified insulator material	AW Date: 2020.09.21 11:44:16-0700	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
Updated specifications	Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	Description: Connector, dc plug, 5.5x2.1xBL7.5xL30 locking style, brass nickel plated, threaded nut 5/16-32	Size: Part number: A 50-00010 Scale: 2:1 Sheet 1 of 2
5	4	3 2	1

