



PRODUCT SPECIFICATION

PRODUCT SPECIFICATION FOR .084/(2.13) DIAMETER SERIES MLX GLOW WIRE COMPATIBLE

WTW CONNECTOR SYSTEM

(HOT TIN PLATED TERMINALS ONLY)

1.0 SCOPE

This specification covers the 0.250 inch (6.35mm) centerline tin plated connector series terminated to 14 to 20 AWG wire using crimp technology.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME: GLOW WIRE COMPATIBLE WIRE TO WIRE (WTW) CONNECTOR SYSTEM

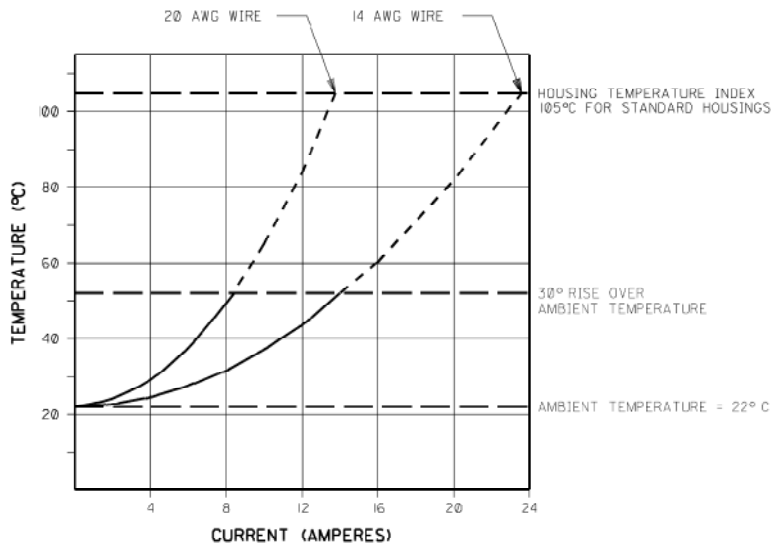
SERIES NUMBER: 36644, 36643

2.2 DIMENSIONS, MATERIALS AND MARKINGS: REFER SD-36644-001, SD-36643-001.

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS: SEE THE SALES DRAWINGS AND OTHER SECTIONS OF THIS SPECIFICATION.

3.1 AGENCY APPROVALS:

UL file number: E29179



TEMPERATURE VERSUS CURRENT
FOR BRASS TERMINALS IN FIVE CIRCUIT HOUSINGS
ALL FIVE CIRCUITS CARRY THE INDICATED CURRENT
(VALUES ABOVE THE 30°C RISE ARE EXTRAPOLATED)

REVISION: 3	ECR/ECN INFORMATION: EC No: I2013-0093 DATE: 03/OCT/2012	TITLE: Product Specification for .084/(2.13) Diameter Series MLX Glow Wire Compatible WTW Connector System	SHEET No. 1 of 3
DOCUMENT NUMBER: PS-36644-001	CREATED / REVISED BY: Bharath	CHECKED BY: VUttarkar	APPROVED BY: KPrasad



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4.0 RATINGS:

4.1 VOLTAGE: 600 VOLTS

4.2 CURRENT AND APPLICABLE WIRES:

ITEM TEST CONDITION REQUIREMENT

Temperature Rise	Mate the connectors and measure the contact temperature at the rated current load	Maximum Temperature of the terminal over ambient of 30°C (see sheet 1) (IEC STD. 512-3)
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- See sheet 1 for typical temperature versus current curves
- 14 to 20 AWG wire – Outside Insulation Diameter 0.130 inch (3.30mm) Maximum

4.3 TEMPERATURE

Operating: - 55°C to + 105°C

5.0 PERFORMANCE SPECIFICATIONS:

5.1 ELECTRICAL PERFORMANCE:

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	Contact Resistance [Low Level]	Mate connectors with a maximum voltage of 20mV and a current of 100mA (MIL-STD-1344A, METHOD 3004.1)	3.5 milliohms MAXIMUM (initial)
2	Insulation Resistance	Mate connectors with a voltage of 500 VDC between adjacent terminals (MIL-STD-1344A, METHOD 3003.1)	1000 Megaohms MINIMUM
3	Dielectric Strength	Mate connectors with a voltage of 2200V AC for 1 minute between adjacent terminals (MIL-STD-1344A, METHOD 3001.1)	No breakdown

5.2 MECHANICAL PERFORMANCE:

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	Wire Pull out Force (Axial)	Apply an axial pullout force on the wire at a rate of 1±1/4 inch per minute (25±6 mm per minute) (MIL-STD-1344A METHOD 2003.1)	AWG Pullout Force 14 50lbf 20 14lbf

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5.3 ENVIRONMENTAL PERFORMANCE:

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	Thermal Shock	Mate connectors exposed for 25 cycles of: Temperature Duration -55 +0/-3 °C 30 minutes 85 +3/0 °C 30 minutes (MIL-STD-1344A METHOD 1003.1) (TEST CONDITION A-1)	Appearance: No Damage Contact Resistance: 5.0 milliohm Maximum Dielectric strength: 2200V AC for 1 minute

5.0 PACKAGING

Parts shall be packaged to protect against damage during handling, transit and storage

6.0 SHELF LIFE

Tin plated Terminals will have shelf life of 18 months from the date of manufactured

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