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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

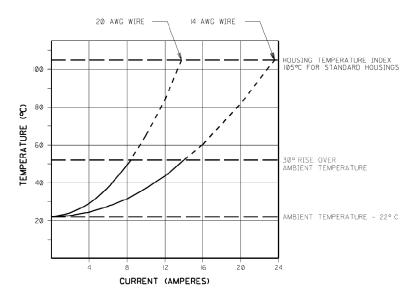
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2.1 PRODUCT NAME:GLOW WIRE COMPATIBLE WIRE TO WIRE (WTW) CONNECTOR SYSTEM

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:	ECR/ECN INFORMATION: EC No: 12013-0093 DATE: 03/OCT/2012	Product Specification Diameter Serie	ication for .084/(2.13 s MLX Glow Wire FW Connector Syste	,	1 of 3
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPR	OVED BY:
PS-36644-001		Bharath	VUttarkar KPrasad		rasad
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4.0 RATINGS:

4.1 VOLTAGE: 600 VOLTS

4.2 CURRENT AND APPLICABLE WIRES:

ITEMTEST CONDITIONREQUIREMENT

Temperature Mate the connectors and Maximum Temperature of Rise measure the contact the terminal over

temperature at the rated ambient of 30°C current load (see sheet 1)

(IEC STD. 512-3)

- 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	ContactResistance [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	InsulationResistance	Mate connectors with a voltage of 500 VDC between adjacent terminals (MIL-STD-1344A, METHOD 3003.1)	1000 Megaohms MINIMUM
3	DielectricStrength	Mate connectors with a voltage of 2200V AC for 1 minute between adjacent terminals (MIL-STD-1344A, METHOD 3001.1)	

5.2 MECHANICAL PERFORMANCE:

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	(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 exp of: Temperature -55 +0/-3 °C 85 +3/0 °C (MIL-STD-1344A MET) (TEST CONDITION A	Duration 30 minutes 30 minutes THOD 1003.1)	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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