

Molex 39501-1012 PDF

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PRODUCT SPECIFICATION

PRODUCT SPECIFICATION FOR ESE EUROSTYLE TERMINAL BLOCKS 395XX PLUGS AND PCB HEADERS

1.0 SCOPE

This Product Specification covers the following centerline (pitch) ESE Terminal Block Connector Series with Tin or Gold plating

<u>3.50</u> mm (<u>.138</u> inch)	<u>5.00</u> mm (<u>.197</u> inch)
<u>3.81</u> mm (<u>.150</u> inch)	<u>5.08</u> mm (<u>.200</u> inch)

2.0 PRODUCT DESCRIPTION

2.1 ESE PCB EUROSTYLE TERMINAL BLOCKS

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

A. ALL OF THESE ITEMS ARE DESCRIBED ON THE INDIVIDUAL SALES DRAWINGS

I. ALL DIMENSIONS HAVE BEEN VERIFIED

B. MATERIALS USED

I. HOUSINGS – BLACK OR GREEN

A. STANDARD PLUGS AND HEADERS: NYLON 6/6, UL94V-0

B. SURFACE MOUNT COMPATIBLE PLUGS & HEADERS

NYLON 4/6, UL94V-0

II. CONTACTS: COPPER ALLOY

C. CONTACT PLATING: I.TIN

II. GOLD

2.3 SAFETY AGENCY APPROVALS

A. UL FILE #E48521 – RECOGNIZED

B. CSA FILE# 233512, CLASS #6228-01

3.0 RATINGS

3.1 VOLTAGE RATING

300 Volts AC

3.2 CURRENT RATING BY PITCH

3.50 mm (.138 inch) - 8.0 AMPS

3.81 mm (.150 inch) - 8.0 AMPS

5.00 mm (.197 inch), FIXED - 15 AMPS

5.08 mm (.200 inch), FIXED - 15 AMPS

5.00 mm (.197 inch), PLUG AND HEADER - 18 AMPS

5.08 mm (.200 inch), PLUG AND HEADER - 18 AMPS

3.3 TEMPERATURE

Operating: STANDARD PLUGS AND HEADERS - 40°C to + 105°C

SURFACE MOUNT PLUGS AND HEADERS - 40°C to + 140°C

REVISION: D	ECR/ECN INFORMATION: EC No: IPG2017-0757 DATE: 2017 / 02 / 07	TITLE: PRODUCT SPECIFICATION FOR ESE EUROSTYLE TERMINAL BLOCKS	SHEET No. 1 of 2
DOCUMENT NUMBER: PS-39500-001	CREATED / REVISED BY: C YORK/RSTONE	CHECKED BY: J MACNEIL	APPROVED BY: J MACNEIL



PRODUCT SPECIFICATION

4.0 PERFORMANCE

4.1 ELECTRICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	Contact Resistance	Per: IEC 60515-2	8 milliohms MAXIMUM [initial]
2	Insulation Resistance	Per: IEC60998-1	500 VDC min. 500 Megohms max
3	Dielectric Withstanding Voltage	Per: UL1059-12	2.5Kv, 60 Hz for 1 minute
4	Temperature Rise	Per: UL1059-1, 12AWG @ 18A	Temperature rise: +30°C MAXIMUM
5	Surge Voltage	Per: IEC60947-1	4.0Kv, 5 times for positive and passive poles for 5 seconds

4.2 MECHANICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
6	Screw Torque	Per: UL1059-15,	5.5 in lbs. 5 times 12AWG & 30AWG wire
7	Secureness test	Per: UL486E- 12.	12AWG, mass: .09 kgf, height 279mm, bushing dia.: 9.5mm, time: 15 min.
8	Pullout test	Per: UL486E- 14	12AWG: 6.2kgf for 1 min. 30AWG: 0.3kgf for 1 min.
9	Aging test	Per: CSA C22.2 No. 159-1987	105°C ±1° for 7 days

5.0 PACKAGING

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

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