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Find the *Excalibur Systems ESI-125-1-176-039* at our website: *Click HERE*

SPECIFICATIONS for ESI-125

ONE STUB INTERNALLY TERMINATED INLINE COUPLER

MECHANICAL OUTLINE

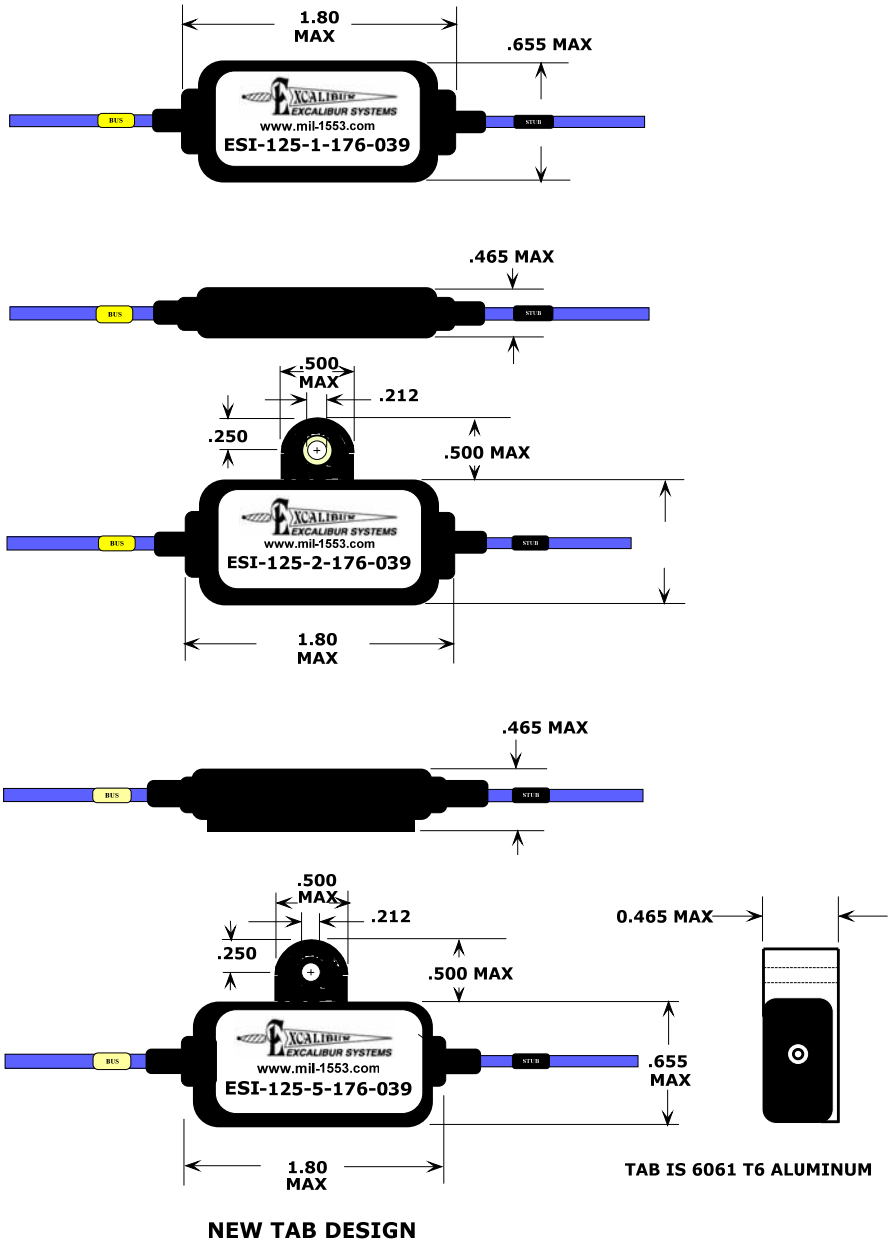


figure 1

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SPECIFICATIONS for ESI-125

SCHEMATIC DIAGRAM

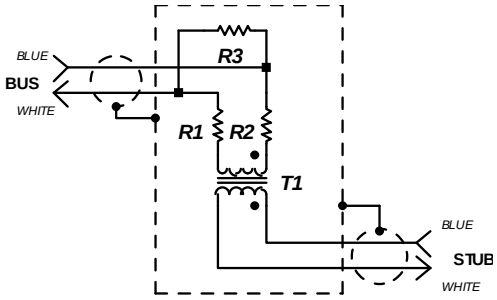


figure 2

1.0 **REQUIREMENTS:**

1.1 DOCUMENT DESCRIBES THE REQUIREMENTS FOR INLINE INTERNALLY TERMINATED ONE STUB BUS COUPLERS FOR MIL-STD-1553 APPLICATIONS

2.0 **MECHANICAL SPECIFICATIONS:**

2.1 DESIGNS AND CONSTRUCTION – THE COUPLER SHALL WITHSTAND THE STATIC HANDLING, INSTALLATION, AND OPERATIONAL SERVICE AS SPECIFIED HEREIN. THE COUPLER SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF MIL-STD-454 FOR PROCESS, PARTS AND MATERIALS, DESIGN CONSTRUCTION AND WORKMANSHIP. THE ENCLOSURE SHALL BE A METAL ENCLOSURE WITH A PROTECTIVE ENVIRONMENTAL COVERING THAT IS FLAME, ACID AND FLUID RETARDANT

3.0 **ELECTRICAL SPECIFICATIONS:**

3.1 FREQUENCY RANGE: 75 kHz – 1.0 MHz
3.2 COMMON MODE REJECTION: -45.0 dB MIN. @ 1.0MHz.
3.3 DROOP: 20% MAX. (250kHz)
3.4 OVERSHOOT & RINGING: +/- 1.0V PEAK
3.5 TRANSFORMER RATIO: 1:1.41 +/- 3%
3.6 POWER RATING: 1-WATT MIN. FOR ISOLATION RESISTORS
3.7 DIELECTRIC STRENGTH: 500 Vrms BETWEEN CABLE SHIELD AND BUS AND STUB CONDUCTORS AND BETWEEN BUS AND STUB CONDUCTORS.
3.8 INSULATION RESISTANCE: GREATER THAN 1000 MEGOHMS AT 250 VDC BETWEEN CONDUCTORS AND SHIELD.

4.0 **ENVIRONMENTAL:**

4.1 OPERATING TEMPERATURE RANGE: -55 deg. C to +125 deg. C
4.2 DIELETRIC WITHSTAND: MIL-STD-202, method 301; 500VAC, 2 mA leakage max.
4.3 INSULATION RESISTANCE: MIL-STD-202, method 302; 250 VDC, 1000MOhms min.
4.4 PULL STRENGTH: Steady load of 12 lbs. on each cable
4.5 LIFE: MIL-202, method 108; 1000 hours at 125º C
4.6 VIBRATION: MIL-STD-202, method 204, condition B, 12 hours per axis
4.7 SHOCK: MIL-STD-202, method 213, condition I
4.8 THERMAL SHOCK: MIL-STD-202 method 107, condition B, -65º C to 125º C 10 cycles
4.9 MOISTURE RESISTANCE: MIL-STD-202, method 106, 10 cycles
4.10 RESISTANCE TO SOLVENTS: MIL-STD-202, method 106
4.11 ALTITUDE: MIL-STD-202, condition B, 0 to 40,000 feet

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SPECIFICATIONS for ESI-125

5.0 **MARKINGS:**

5.1 ITEMS SHALL BE LEGIBLY AND PERMANENTLY MARKED WITH THE PART NUMBER AND SERIAL NUMBER.

5.2 STUB CABLES SHALL BE IDENTIFIED WITH BLACK SHRINK TUBING

PART NUMBER DESCRIPTION

Ordering Information

ESI - 1 25 - 1 - 176 - 039

Manufacturers Designation

Number of Stubs

1

Internal Configuration

One Termination Resistor = 25

External Configuration

BOOT

1 = W/O Mounting Tab
2 = With Mounting Tab
5 = With Metal Mounting Tab

Cable Length (EACH WIRE)

012 = 12 in. (1 ft.)
078 = 78 in. (6.5 ft.)
079 = 79 in. (2m.)
120 = 120 in. (10 ft.)
236 = 236 in. (6m.)
240 = 240 in. (20 ft.)
360 = 360 in. (30 ft.)

Options

001 Special Options

CABLE

176 Standard M17/176-00002
612 Raychem 10612 or equiv.

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