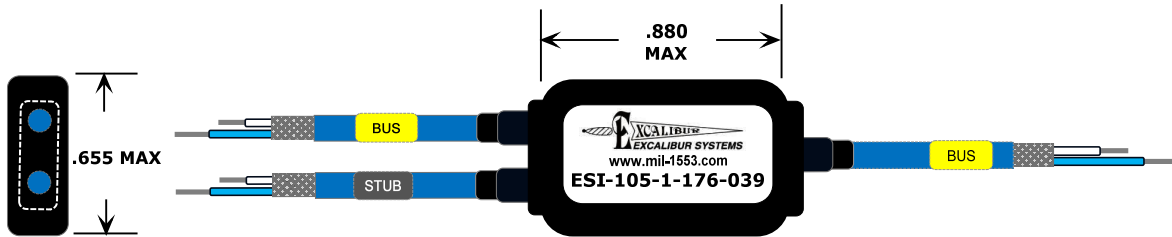
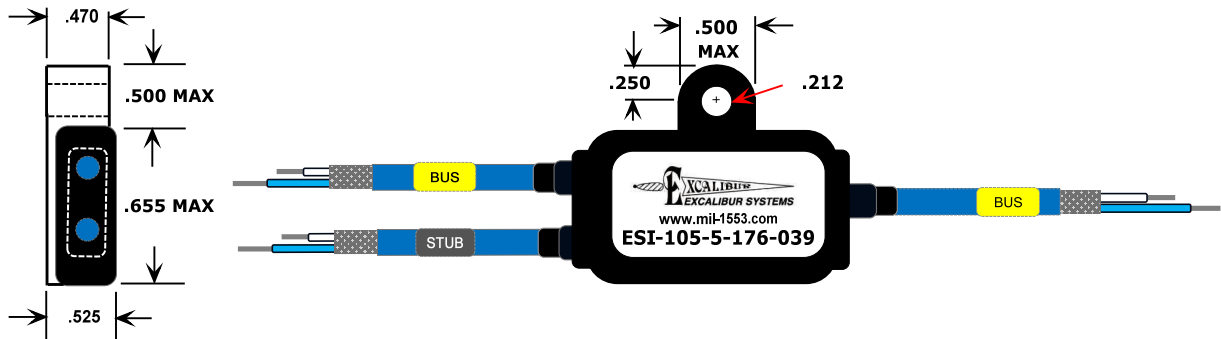


SPECIFICATIONS for ESI-105

ONE STUB MICRO INLINE COUPLER



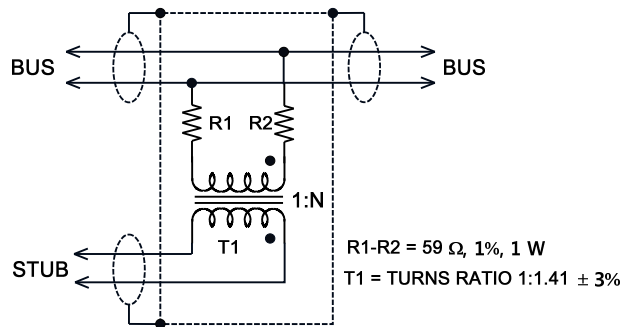
ALL DIMENSIONS IN INCHES



TAB IS 6061 T6 ALUMINUM

figure 1

SCHEMATIC DIAGRAM



ESI-108-1/5/7 SCHEMATIC

figure 2

SPECIFICATIONS for ESI-105

1.0 REQUIREMENTS:

- 1.1 DOCUMENT DESCRIBES THE REQUIREMENTS FOR INLINE 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:

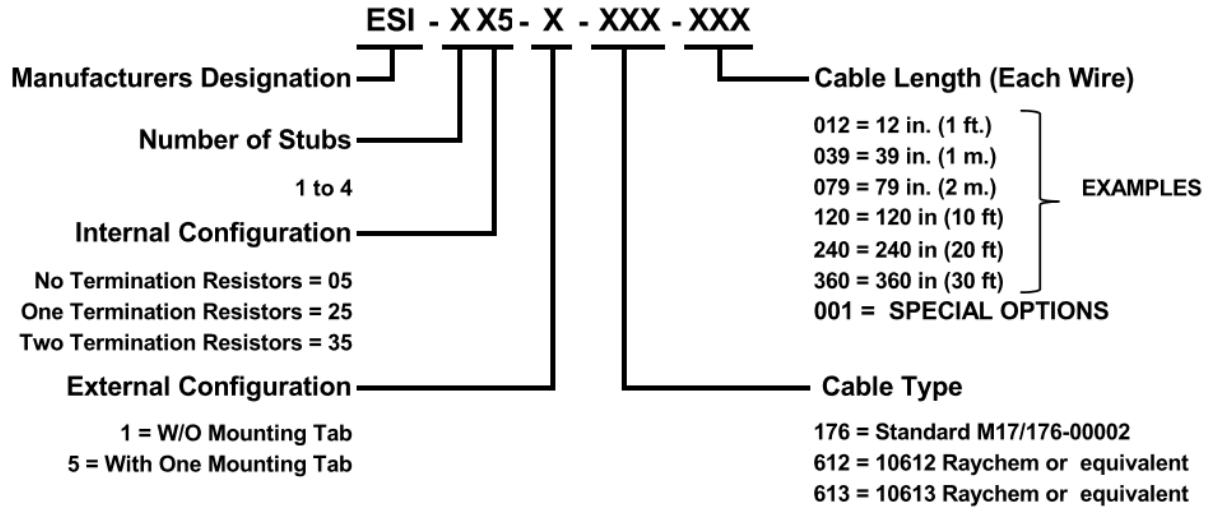
- 4.1 **OPERATING TEMPERATURE RANGE:** -55 deg. C to +125 deg. C
4.2 **DIELECTRIC WITHSTAND:** MIL-STD-202, method 301; 500VAC, 2 mA leakage max.
4.3 **INSULATION RESISTANCE:** MIL-STD-202, method 302; 250 VDC, 1000MΩ min.
4.4 **PULL STRENGTH:** Steady load of 12 lbs. on each cable
4.5 **LIFE:** MIL-202, method 108; 1000 hours at 125° 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, -65° C to 125° 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

5.0 MARKINGS:

- 5.1 ITEMS SHALL BE LEGIBLY AND PERMANENTLY MARKED WITH THE MANUFACTURER'S NAME OR TRADEMARK, PART NUMBER AND TERMINAL IDENTIFICATION.
5.2 STUB CABLES SHALL BE IDENTIFIED WITH BLACK SHRINK TUBING.

PART NUMBER DESCRIPTION

Ordering Information



These specifications are subject to change without notification