



# MIL-STD-1553B SOLUTIONS Products Guide



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808 Utility Road  
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## MIL-STD-1553B

## 1-Stub Data Bus Couplers - Box Flange Mount



PART NUMBER	APPLICATION
<b>EE5001-1</b>	Flange Mount
<b>LF5001-1</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug Bus Termination: None	



PART NUMBER	APPLICATION
<b>EE5001-2</b>	Flange Mount
<b>LF5001-2</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug Bus 2 Termination: Single Bus 2 Resistor: 78 Ohm $\pm$ 2%, 2W	



PART NUMBER	APPLICATION
<b>EE5001-3</b>	Flange Mount
<b>LF5001-3</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug Bus 2 Termination: Single Bus 2 Resistor: 78 Ohm $\pm$ 2%, 2W	



PART NUMBER	APPLICATION
<b>EE5001-4</b>	Flange Mount
<b>LF5001-4</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug Bus 1 Termination: Single Bus 1 Resistor: 78 Ohm $\pm$ 2%, 2W	



PART NUMBER	APPLICATION
<b>EE5001-5</b>	Flange Mount
<b>LF5001-5</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug Bus 2 Termination: Single Bus 2 Resistor: 78 Ohm $\pm$ 2%, 2W	

## 1.0 ELECTRICAL SPECIFICATIONS: IAW MIL-STD 1553B

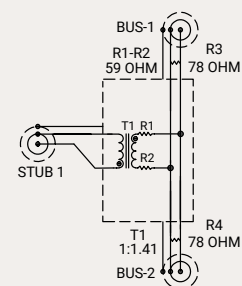
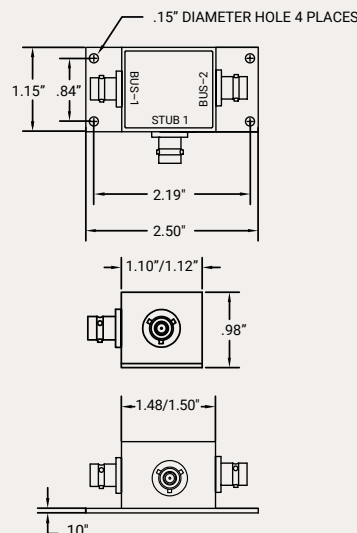
1.1 DROOP:	20% MAXIMUM
1.2 OVERSHOOT & RINGING:	+/- 1.0V PK-PK
1.3 TRANSFORMER RATIO:	1:1.41 STUB TO BUS
1.4 FAULT PROTECTION R1-R2:	59 OHM +/- 2%, 2 WATT PER MIL-R-39007
1.5 TERMINATION RESISTOR R3-R4:	78 OHM +/- 2%, 2 WATT PER MIL-R-39007
1.6 COMMON MODE REJECTION:	-55 DB @ 1 MHz

## 2.0 MECHANICAL SPECIFICATIONS:

2.1 HOUSING:	DIE CAST A360 ALUMINUM ALLOY, CLEAR ANODIZED, PAINTED WITH TEXTURE, BAKED ENAMEL, COLOR BLUE
2.2 BASE PLATE:	6061-T6 ALUMINUM, SATIN FINISH
2.3 BUS & STUB CONNECTOR:	3-LUG PJ1007 OR EQUIVALENT
2.4 MATING CONNECTOR:	EE1001-XX OR EQUIVALENT
2.5 ENCAPSULATING:	EPOXY
2.6 DIMENSIONS:	NOMINAL
2.7 NOMINAL UNIT WEIGHT:	2.50 OUNCES (70.87 GRAMS)

## 3.0 ENVIRONMENTAL:

3.1 OPERATING TEMPERATURE:	-55C TO +125C
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2-Stub Data Bus Couplers - Box Flange Mount



PART NUMBER	APPLICATION
<b>EE5002-1</b>	Flange Mount
<b>LF5002-1</b>	Flange Mount
TECH NOTES	
Bus & Stub Jacks: TRB 3-Lug Bus Termination: None	



PART NUMBER	APPLICATION
<b>EE5002-2</b>	Flange Mount
<b>LF5002-2</b>	Flange Mount
TECH NOTES	
Bus & Stub Jacks: TRB 3-Lug Bus 2 Termination: Single Bus 2 Resistor: 78 Ohm ± 2%, 2W	



PART NUMBER	APPLICATION
<b>EE5002-3</b>	Flange Mount
<b>LF5002-3</b>	Flange Mount
TECH NOTES	
Bus & Stub Jacks: TRB 3-Lug Bus 2 Termination: Single Bus 2 Resistor: 78 Ohm ±2%, 2W	

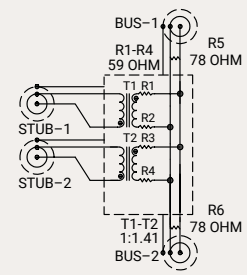
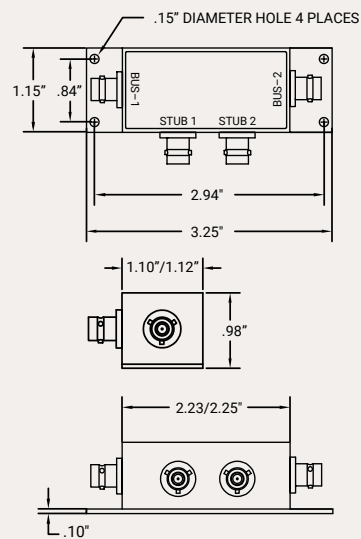


PART NUMBER	APPLICATION
<b>EE5002-4</b>	Flange Mount
<b>LF5002-4</b>	Flange Mount
TECH NOTES	
Bus & Stub Jacks: TRB 3-Lug Bus 1 Termination: Single Bus 1 Resistor: 78 Ohm ±2%, 2W	



PART NUMBER	APPLICATION
<b>EE5002-5</b>	Flange Mount
<b>LF5002-5</b>	Flange Mount
TECH NOTES	
Stub Jacks: TRB 3-Lug Bus 1 & 2 Termination: Dual Bus Resistors: 78 Ohm ±2%, 2W	

- 1.0 ELECTRICAL SPECIFICATIONS: IAW MIL-STD 1553B
- 1.1 DROOP: 20% MAXIMUM
  - 1.2 OVERSHOOT & RINGING: +/- 1.0V PK-PK
  - 1.3 TRANSFORMER RATIO: 1:1.41 STUB TO BUS
  - 1.4 FAULT PROTECTION R1-R4: 59 OHM +/- 2%, 2 WATT PER MIL-R-39007
  - 1.5 TERMINATION RESISTOR R5-R6: 78 OHM +/- 2%, 2 WATT PER MIL-R-39007
  - 1.6 COMMON MODE REJECTION: -55 DB @ 1 MHz
- 2.0 MECHANICAL SPECIFICATIONS:
- 2.1 HOUSING: DIE CAST A360 ALUMINUM ALLOY, CLEAR ANODIZED, PAINTED WITH TEXTURE, BAKED ENAMEL, COLOR BLUE
  - 2.2 BASE PLATE: 6061-T6 ALUMINUM, SATIN FINISH
  - 2.3 BUS & STUB CONNECTOR: 3-LUG PJ1007 OR EQUIVALENT
  - 2.4 MATING CONNECTOR: EE1001-XX OR EQUIVALENT
  - 2.5 ENCAPSULATING: EPOXY
  - 2.6 DIMENSIONS: NOMINAL
  - 2.7 NOMINAL UNIT WEIGHT: 3.50 OUNCES (99.22 GRAMS)
- 3.0 ENVIRONMENTAL:
- 3.1 OPERATING TEMPERATURE: -55C TO +125C



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## 3-Stub Data Bus Couplers - Box Flange Mount



PART NUMBER	APPLICATION
<b>EE5003-1</b>	Flange Mount
<b>LF5003-1</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug	
Bus Termination: None	



PART NUMBER	APPLICATION
<b>EE5003-2</b>	Flange Mount
<b>LF5003-2</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug	
Bus 2 Termination: Single	
Bus 2 Resistor: 78 Ohm $\pm$ 2%, 2W	



PART NUMBER	APPLICATION
<b>EE5003-3</b>	Flange Mount
<b>LF5003-3</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug	
Bus 2 Termination: Single	
Bus 2 Resistor: 78 Ohm $\pm$ 2%, 2W	



PART NUMBER	APPLICATION
<b>EE5003-4</b>	Flange Mount
<b>LF5003-4</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug	
Bus 1 Termination: Single	
Bus 1 Resistor: 78 Ohm $\pm$ 2%, 2W	



PART NUMBER	APPLICATION
<b>EE5003-5</b>	Flange Mount
<b>LF5003-5</b>	Flange Mount
<b>TECH NOTES</b>	
Stub Jacks: TRB 3-Lug	
Bus 1 & 2 Termination: Dual	
Bus 1 & 2 Resistors: 78 Ohm $\pm$ 2%, 2W	

### 1.0 ELECTRICAL SPECIFICATIONS: IAW MIL-STD 1553B

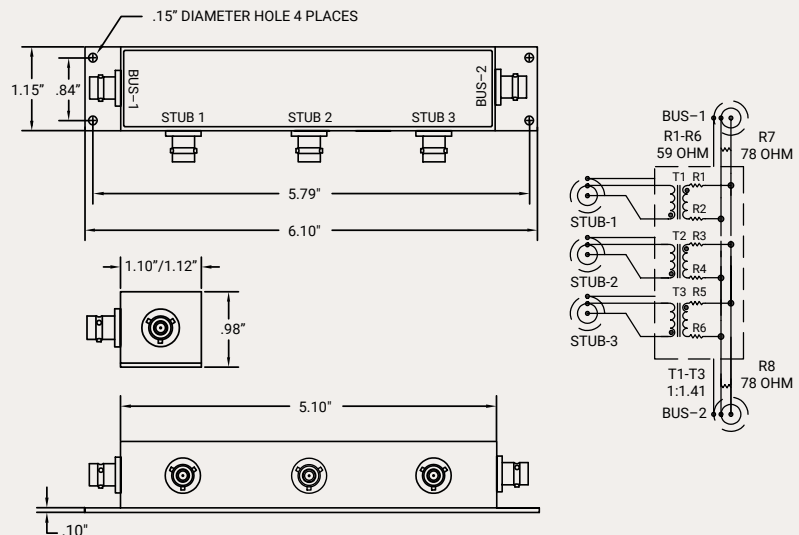
- |                                 |  |
|---------------------------------|--|
| 1.1 DROOP:                      | 20% MAXIMUM                              |
| 1.2 OVERSHOOT & RINGING:        | +/- 1.0V PK-PK                           |
| 1.3 TRANSFORMER RATIO:          | 1:1.41 STUB TO BUS                       |
| 1.4 FAULT PROTECTION R1-R6:     | 59 OHM +/- 2%, 2 WATT<br>PER MIL-R-39007 |
| 1.5 TERMINATION RESISTOR R7-R8: | 78 OHM +/- 2%, 2 WATT<br>PER MIL-R-39007 |
| 1.6 COMMON MODE REJECTION:      | -55 DB @ 1 MHz                           |

### 2.0 MECHANICAL SPECIFICATIONS:

- |                           |   |
|---------------------------|---|
| 2.1 HOUSING:              | DIE CAST A360 ALUMINUM ALLOY,<br>CLEAR ANODIZED, PAINTED WITH<br>TEXTURE, BAKED ENAMEL,<br>COLOR BLUE |
| 2.2 BASE PLATE:           | 6061-T6 ALUMINUM, SATIN FINISH  |
| 2.3 BUS & STUB CONNECTOR: | 3-LUG PJ1007 OR EQUIVALENT  |
| 2.4 MATING CONNECTOR:     | EE1001-XX OR EQUIVALENT   |
| 2.5 ENCAPSULATING:        | EPOXY   |
| 2.6 DIMENSIONS:           | NOMINAL   |
| 2.7 NOMINAL UNIT WEIGHT:  | 6.40 OUNCES (181.43 GRAMS)  |

### 3.0 ENVIRONMENTAL:

- |                            |               |
|----------------------------|---------------|
| 3.1 OPERATING TEMPERATURE: | -55C TO +125C |
|----------------------------|---------------|



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## 4-Stub Data Bus Couplers - Box Flange Mount



PART NUMBER	APPLICATION
<b>EE5004-1</b>	Flange Mount
<b>LF5004-1</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug	
Bus Termination: None	



PART NUMBER	APPLICATION
<b>EE5004-2</b>	Flange Mount
<b>LF5004-2</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug	
Bus 2 Termination: Single	
Bus 2 Resistor: 78 Ohm ± 2%, 2W	



PART NUMBER	APPLICATION
<b>EE5004-3</b>	Flange Mount
<b>LF5004-3</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug	
Bus 2 Termination: Single	
Bus 2 Resistor: 78 Ohm ±2%, 2W	

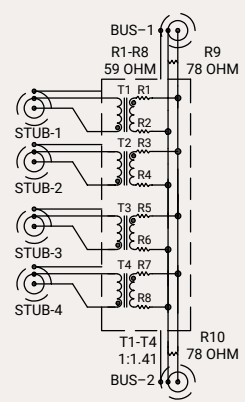
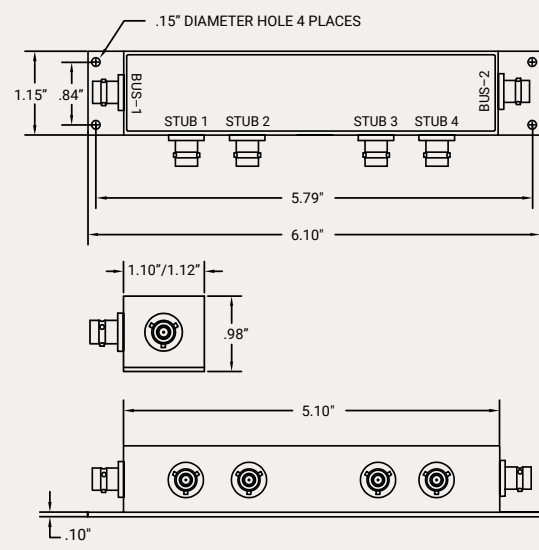


PART NUMBER	APPLICATION
<b>EE5004-4</b>	Flange Mount
<b>LF5004-4</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug	
Bus 1 Termination: Single	
Bus 1 Resistor: 78 Ohm ±2%, 2W	



PART NUMBER	APPLICATION
<b>EE5004-5</b>	Flange Mount
<b>LF5004-5</b>	Flange Mount
<b>TECH NOTES</b>	
Stub Jacks: TRB 3-Lug	
Bus 1 & 2 Termination: Dual	
Bus 1 & 2 Resistor: 78 Ohm ±2%, 2W	

- 1.0 ELECTRICAL SPECIFICATIONS: IAW MIL-STD 1553B
- 1.1 DROOP: 20% MAXIMUM
  - 1.2 OVERSHOOT & RINGING: +/- 1.0V PK-PK
  - 1.3 TRANSFORMER RATIO: 1:1.41 STUB TO BUS
  - 1.4 FAULT PROTECTION R1-R8: 59 OHM +/- 2%, 2 WATT PER MIL-R-39007
  - 1.5 TERMINATION RESISTOR R9-R10: 78 OHM +/- 2%, 2 WATT PER MIL-R-39007
  - 1.6 COMMON MODE REJECTION: -55 DB @ 1 MHz
- 2.0 MECHANICAL SPECIFICATIONS:
- 2.1 HOUSING: DIE CAST A360 ALUMINUM ALLOY, CLEAR ANODIZED, PAINTED WITH TEXTURE, BAKED ENAMEL, COLOR BLUE
  - 2.2 BASE PLATE: 6061-T6 ALUMINUM, SATIN FINISH
  - 2.3 BUS & STUB CONNECTOR: 3-LUG PJ1007 OR EQUIVALENT
  - 2.4 MATING CONNECTOR: EE1001-XX OR EQUIVALENT
  - 2.5 ENCAPSULATING: EPOXY
  - 2.6 DIMENSIONS: NOMINAL
  - 2.7 NOMINAL UNIT WEIGHT: 6.70 OUNCES (189.94 GRAMS)
- 3.0 ENVIRONMENTAL:
- 3.1 OPERATING TEMPERATURE: -55C TO +125C



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## 5-Stub Data Bus Couplers - Box Flange Mount



PART NUMBER	APPLICATION
<b>EE5005-1</b>	Flange Mount
<b>LF5005-1</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug	
Bus Termination: None	



PART NUMBER	APPLICATION
<b>EE5005-2</b>	Flange Mount
<b>LF5005-2</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug	
Bus 2 Termination: Single	
Bus 2 Resistor: 78 Ohm $\pm$ 2%, 2W	



PART NUMBER	APPLICATION
<b>EE5005-3</b>	Flange Mount
<b>LF5005-3</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug	
Bus 2 Termination: Single	
Bus 2 Resistor: 78 Ohm $\pm$ 2%, 2W	



PART NUMBER	APPLICATION
<b>EE5005-4</b>	Flange Mount
<b>LF5005-4</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug	
Bus 1 Termination: Single	
Bus 1 Resistor: 78 Ohm $\pm$ 2%, 2W	



PART NUMBER	APPLICATION
<b>EE5005-5</b>	Flange Mount
<b>LF5005-5</b>	Flange Mount
<b>TECH NOTES</b>	
Stub Jacks: TRB 3-Lug	
Bus 1 & 2 Termination: Dual	
Bus 1 & 2 Resistors: 78 Ohm $\pm$ 2%, 2W	

### 1.0 ELECTRICAL SPECIFICATIONS: IAW MIL-STD 1553B

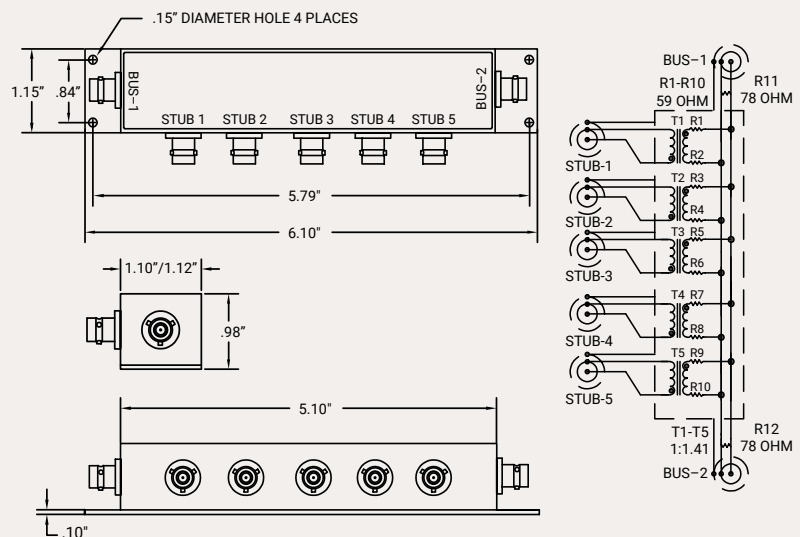
- |                                   |  |
|-----------------------------------|--|
| 1.1 DROOP:                        | 20% MAXIMUM                                |
| 1.2 OVERSHOOT & RINGING:          | $\pm$ 1.0V PK-PK                           |
| 1.3 TRANSFORMER RATIO:            | 1:1.41 STUB TO BUS                         |
| 1.4 FAULT PROTECTION R1-R10:      | 59 OHM $\pm$ 2%, 2 WATT<br>PER MIL-R-39007 |
| 1.5 TERMINATION RESISTOR R11-R12: | 78 OHM $\pm$ 2%, 2 WATT<br>PER MIL-R-39007 |
| 1.6 COMMON MODE REJECTION:        | -55 DB @ 1 MHz                             |

### 2.0 MECHANICAL SPECIFICATIONS:

- |                           |   |
|---------------------------|---|
| 2.1 HOUSING:              | DIE CAST A360 ALUMINUM ALLOY,<br>CLEAR ANODIZED, PAINTED WITH<br>TEXTURE, BAKED ENAMEL,<br>COLOR BLUE |
| 2.2 BASE PLATE:           | 6061-T6 ALUMINUM, SATIN FINISH  |
| 2.3 BUS & STUB CONNECTOR: | 3-LUG PJ1007 OR EQUIVALENT  |
| 2.4 MATING CONNECTOR:     | EE1001-XX OR EQUIVALENT   |
| 2.5 ENCAPSULATING:        | EPOXY   |
| 2.6 DIMENSIONS:           | NOMINAL   |
| 2.7 NOMINAL UNIT WEIGHT:  | 6.90 OUNCES (195.61 GRAMS)  |

### 3.0 ENVIRONMENTAL:

- |                            |               |
|----------------------------|---------------|
| 3.1 OPERATING TEMPERATURE: | -55C TO +125C |
|----------------------------|---------------|



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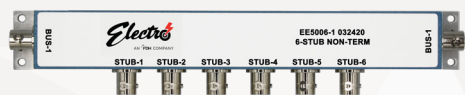
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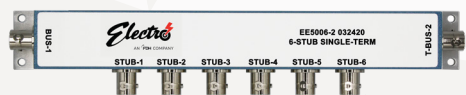
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# MIL-STD-1553B

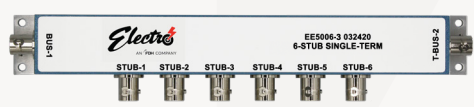
## 6-Stub Data Bus Couplers - Box Flange Mount



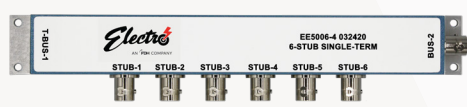
PART NUMBER	APPLICATION
<b>EE5006-1</b>	Flange Mount
<b>LF5006-1</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug	
Bus Termination: None	



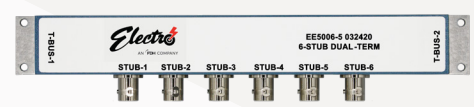
PART NUMBER	APPLICATION
<b>EE5006-2</b>	Flange Mount
<b>LF5006-2</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug	
Bus 2 Termination: Single	
Bus 2 Resistor: 78 Ohm ± 2%, 2W	



PART NUMBER	APPLICATION
<b>EE5006-3</b>	Flange Mount
<b>LF5006-3</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug	
Bus 2 Termination: Single	
Bus 2 Resistor: 78 Ohm ±2%, 2W	

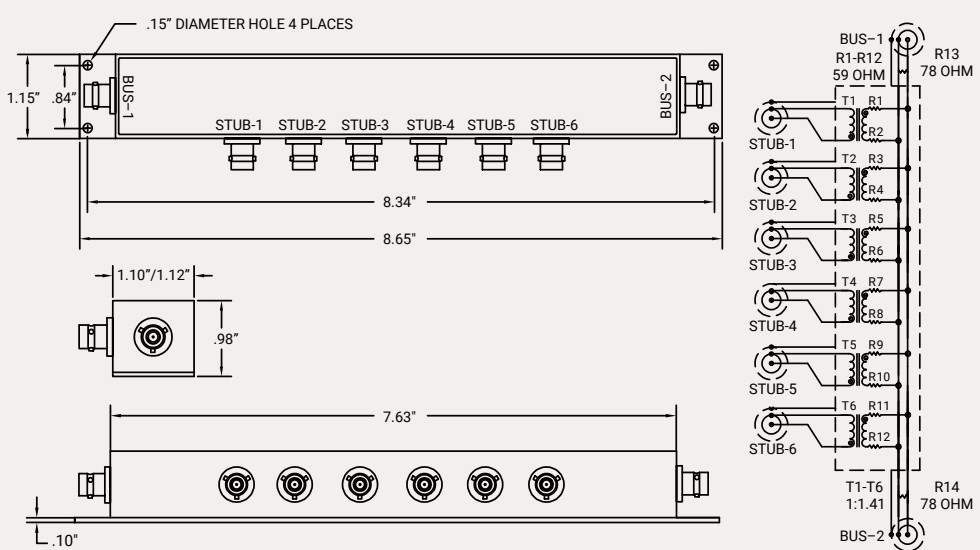


PART NUMBER	APPLICATION
<b>EE5006-4</b>	Flange Mount
<b>LF5006-4</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug	
Bus 1 Termination: Single	
Bus 1 Resistor: 78 Ohm ±2%, 2W	



PART NUMBER	APPLICATION
<b>EE5006-5</b>	Flange Mount
<b>LF5006-5</b>	Flange Mount
<b>TECH NOTES</b>	
Stub Jacks: TRB 3-Lug	
Bus 1 & 2 Termination: Dual	
Bus 1 & 2 Resistors: 78 Ohm ±2%, 2W	

- 1.0 ELECTRICAL SPECIFICATIONS:** IAW MIL-STD 1553B
- 1.1 DROOP: 20% MAXIMUM
  - 1.2 OVERSHOOT & RINGING: +/- 1.0V PK-PK
  - 1.3 TRANSFORMER RATIO: 1:1.41 STUB TO BUS
  - 1.4 FAULT PROTECTION R1-R12: 59 OHM +/- 2%, 2 WATT PER MIL-R-39007
  - 1.5 TERMINATION RESISTOR R13-R14: 78 OHM +/- 2%, 2 WATT PER MIL-R-39007
  - 1.6 COMMON MODE REJECTION: -55 DB @ 1 MHz
- 2.0 MECHANICAL SPECIFICATIONS:**
- 2.1 HOUSING: DIE CAST A360 ALUMINUM ALLOY, CLEAR ANODIZED, PAINTED WITH TEXTURE, BAKED ENAMEL, COLOR BLUE
  - 2.2 BASE PLATE: 6061-T6 ALUMINUM, SATIN FINISH
  - 2.3 BUS & STUB CONNECTOR: 3-LUG PJ1007 OR EQUIVALENT
  - 2.4 MATING CONNECTOR: EE1001-XX OR EQUIVALENT
  - 2.5 ENCAPSULATING: EPOXY
  - 2.6 DIMENSIONS: NOMINAL
  - 2.7 NOMINAL UNIT WEIGHT: 9.50 OUNCES (269.32 GRAMS)
- 3.0 ENVIRONMENTAL:**
- 3.1 OPERATING TEMPERATURE: -55C TO +125C

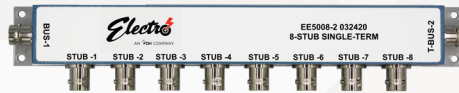


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## 8-Stub Data Bus Couplers - Box Flange Mount



PART NUMBER	APPLICATION
<b>EE5008-1</b>	Flange Mount
<b>LF5008-1</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug Bus Termination: None	



PART NUMBER	APPLICATION
<b>EE5008-2</b>	Flange Mount
<b>LF5008-2</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug Bus 2 Termination: Single Bus 2 Resistor: 78 Ohm ± 2%, 2W	



PART NUMBER	APPLICATION
<b>EE5008-3</b>	Flange Mount
<b>LF5008-3</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug Bus 2 Termination: Single Bus 2 Resistor: 78 Ohm ±2%, 2W	

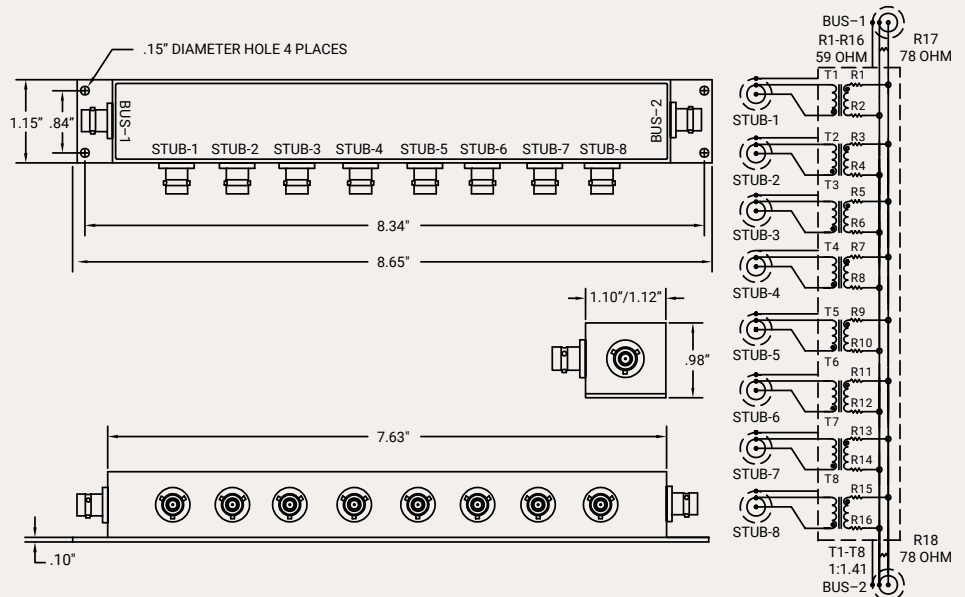


PART NUMBER	APPLICATION
<b>EE5008-4</b>	Flange Mount
<b>LF5008-4</b>	Flange Mount
<b>TECH NOTES</b>	
Bus & Stub Jacks: TRB 3-Lug Bus 1 Termination: Single Bus 1 Resistor: 78 Ohm ±2%, 2W	



PART NUMBER	APPLICATION
<b>EE5008-5</b>	Flange Mount
<b>LF5008-5</b>	Flange Mount
<b>TECH NOTES</b>	
Stub Jacks: TRB 3-Lug Bus 1 & 2 Termination: Dual Bus 1 & 2 Resistors: 78 Ohm ±2%, 2W	

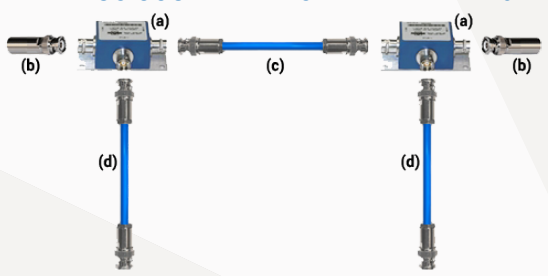
- 1.0 ELECTRICAL SPECIFICATIONS: IAW MIL-STD 1553B
- 1.1 DROOP: 20% MAXIMUM
  - 1.2 OVERSHOOT & RINGING: +/- 1.0V PK-PK
  - 1.3 TRANSFORMER RATIO: 1:1.41 STUB TO BUS
  - 1.4 FAULT PROTECTION R1-R16: 59 OHM +/- 2%, 2 WATT PER MIL-R-39007
  - 1.5 TERMINATION RESISTOR R17-R18: 78 OHM +/- 2%, 2 WATT PER MIL-R-39007
  - 1.6 COMMON MODE REJECTION: -55 DB @ 1 MHz
- 2.0 MECHANICAL SPECIFICATIONS:
- 2.1 HOUSING: DIE CAST A360 ALUMINUM ALLOY, CLEAR ANODIZED, PAINTED WITH TEXTURE, BAKED ENAMEL, COLOR BLUE
  - 2.2 BASE PLATE: 6061-T6 ALUMINUM, SATIN FINISH
  - 2.3 BUS & STUB CONNECTOR: 3-LUG PJ1007 OR EQUIVALENT
  - 2.4 MATING CONNECTOR: EE1001-XX OR EQUIVALENT
  - 2.5 ENCAPSULATING: EPOXY
  - 2.6 DIMENSIONS: NOMINAL
  - 2.7 NOMINAL UNIT WEIGHT: 10.20 OUNCES (289.17 GRAMS)
- 3.0 ENVIRONMENTAL:
- 3.1 OPERATING TEMPERATURE: -55C TO +125C



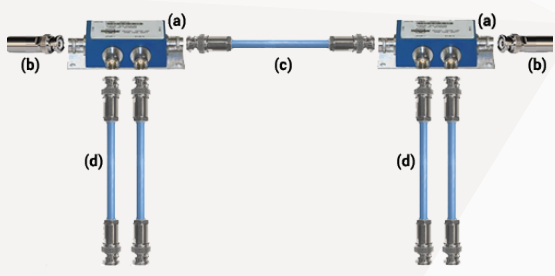
# MIL-STD-1553B

## Bus Kits, Scope Assemblies

### DATA BUS COUPLER KITS - 2 TERMINAL & 4 TERMINAL



KIT PART NUMBER	KIT COMPONENTS
<b>BUSKIT-2</b>	1-Stub Bus Couplers (a) - 2 Each
<b>LFBUSKIT-2</b>	78 OHM Bus Terminators (b) - 2 Each
	72 Inch Bus Cable Assembly (c) - 1 Each
	48 Inch Stub Cable Assembly (d) - 2 Each

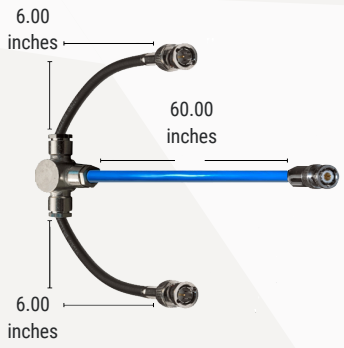


KIT PART NUMBER	KIT COMPONENTS
<b>BUSKIT-4</b>	2-Stub Bus Couplers (a) - 2 Each
<b>LFBUSKIT-4</b>	78 OHM Bus Terminators (b) - 2 Each
	72 Inch Bus Cable Assembly (c) - 1 Each
	48 Inch Stub Cable Assembly (d) - 4 Each

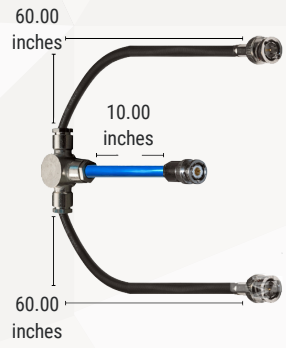
### CUSTOM BUS KITS

FDH/Electro data bus coupler kits offer a complete solution to laboratory application requirements. Pre-assembled kits guarantee compatibility between various MIL-STD-1553B components. Custom data bus coupler kits are available upon request.

### BUS/SCOPE TEST CABLES



PART NUMBER	
<b>1553SCOPE-60</b>	
<b>LF1553SCOPE-60</b>	
FEATURE	SPECIFICATION
Coaxial Cable	75 Ohm, 6 Inches, BNC Plugs
Twinaxial Cable	78 Ohm, 60 Inches, TRB Plug

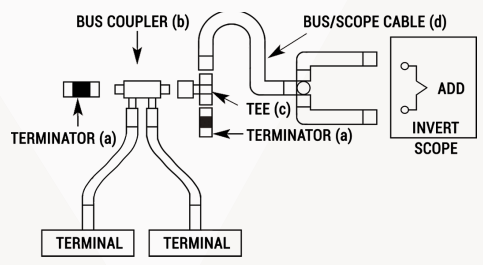


PART NUMBER	
<b>1553SCOPE-10</b>	
<b>LF1553SCOPE-10</b>	
FEATURE	SPECIFICATION
Coaxial Cable	75 Ohm, 60 Inches, BNC Plugs
Twinaxial Cable	78 Ohm, 10 Inches, TRB Plug

SCOPE TEST SETUP COMPONENTS
78 OHM Bus Terminators (a)
2-Stub Bus Coupler (b)
Tee adapter (c)
Scope Assembly (d)

### BUS/SCOPE APPLICATION

See application chart (right). Bus/scope test cables are typically used in laboratory testing environments. Bus/scope test cables are used with an oscilloscope to split and analyze individual signals on a bus.



FULL CRIMP & SOLDER CLAMP CONNECTORS PAGE 26



BULKHEAD CABLE JACKS PAGE 27

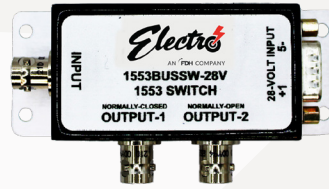


CRIMP TOOLS & SPLICING KIT PAGE 30

# MIL-STD-1553B Bus Switches



PART NUMBER	TECH NOTES
<b>1553BUSSW-5V</b>	Switch Input & Output Jacks: TRB 3-Lug Switch 5 Volt Input: 9 Pin Male D-Sub



PART NUMBER	TECH NOTES
<b>1553BUSSW-28V</b>	Switch Input & Output Jacks: TRB 3-Lug Switch 28 Volt Input: 9 Pin Male D-Sub

## 1.0 REQUIREMENTS:

1.1 SCHEMATIC ON THIS PAGE DESCRIBES THE REQUIREMENTS FOR AN ON/OFF SWITCH FOR MIL-STD-1553 APPLICATIONS

## 2.0 MECHANICAL SPECIFICATIONS:

2.1 DESIGN & CONSTRUCTION - THE RELAY SHALL WITHSTAND THE STATIC HANDLING, INSTALLATION, AND OPERATIONAL SERVICE AS SPECIFIED HEREIN. THE RELAY 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.

## 3.0 ELECTRICAL SPECIFICATIONS:

3.1 COIL VOLTAGE: 5 VDC, COIL CURRENT: 28.1 MA, COIL RESISTANCE: 178 OHMS, PICK-UP VOLTAGE: 3 VDC, DROPOUT VOLTAGE: 2 VDC, MAX VOLTAGE: 10 VDC, CONTACT RATING: AC 0.50A, 125VAC/DC 2A. 30VDC, CONTACT RESISTANCE: OHMS (MAX) 75 MILLIOHMS

3.2 COIL VOLTAGE: 24 VDC, COIL CURRENT: 8.3 MA, COIL RESISTANCE: 2880 OHMS, PICK-UP VOLTAGE: 14.4 VDC, DROPOUT VOLTAGE: 9.6 VDC, MAX VOLTAGE: 40.8 VDC, CONTACT RATING: AC 0.50A, 125VAC/DC 2A. 30VDC, CONTACT RESISTANCE: OHMS (MAX) 75 MILLIOHMS

## 4.0 ENVIRONMENTAL:

4.1 OPERATING TEMPERATURE RANGE: -40 DEG C TO +85 DEG C

## 5.0 MARKINGS:

5.1 ITEMS SHALL BE LEGIBLY AND PERMANENTLY MARKED WITH THE PART NUMBER, TERMINAL IDENTIFICATION.

## 6.0 MECHANICAL SPECIFICATIONS:

### 6.1 CONNECTORS:

BJ770 OR EQUIVALENT, J1 THRU J2, MATING CONNECTOR EE1001-XX TRB PLUG.

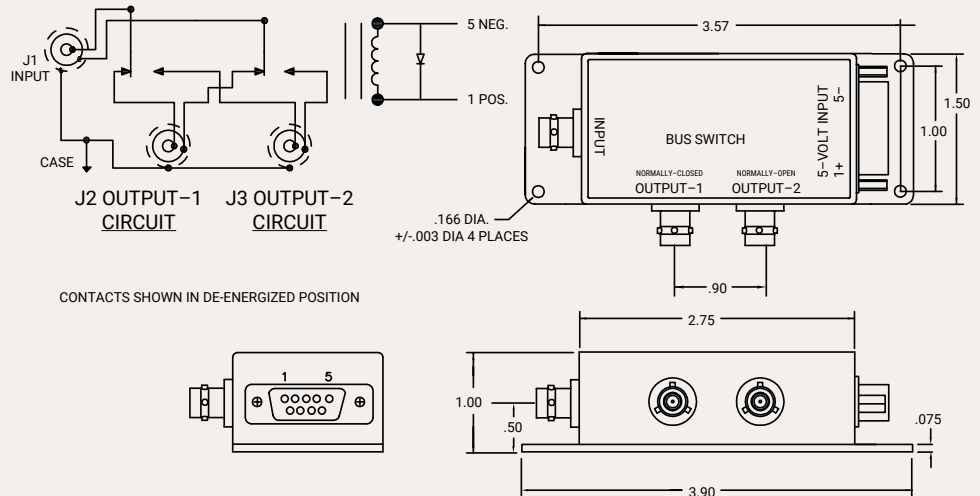
J3 IS DB9P PLUG, CONNECTOR (PIN 1 IS POSITIVE, PIN 5 IS GROUND) MATING CONNECTOR IS DB9 FEMALE.

### 6.2 MATERIAL:

6.2.1 ENCLOSURE: ALUMINUM .050 THK.

6.2.2 MOUNTING PLATE: ALUMINUM .075 THK.

6.2.3 BLACK ENAMEL (POWDER COATED)



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TERMINATORS PAGE 24



RFI CAPS PAGE 24



CONNECTORS PAGES 26-27



ADAPTERS PAGE 28

# MIL-STD-1553B Stub Switches



PART NUMBER	TECH NOTES
<b>1553STUBSW-5V</b>	Switch Input & Output Jacks: TRB 3-Lug Switch 5 Volt Input: 9 Pin Male D-Sub



PART NUMBER	TECH NOTES
<b>1553STUBSW-28V</b>	Switch Input & Output Jacks: TRB 3-Lug Switch 28 Volt Input: 9 Pin Male D-Sub

1.0 REQUIREMENTS:

1.1 SCHEMATIC ON THIS PAGE DESCRIBES THE REQUIREMENTS FOR AN ON/OFF SWITCH FOR MIL-STD-1553 APPLICATIONS

2.0 MECHANICAL SPECIFICATIONS:

2.1 DESIGN & CONSTRUCTION - THE RELAY SHALL WITHSTAND THE STATIC HANDLING, INSTALLATION, AND OPERATIONAL SERVICE AS SPECIFIED HEREIN. THE RELAY 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.

3.0 ELECTRICAL SPECIFICATIONS:

3.1 COIL VOLTAGE: 5 VDC, COIL CURRENT: 28.1 MA, COIL RESISTANCE: 178 OHMS, PICK-UP VOLTAGE: 3 VDC, DROPOUT VOLTAGE: 2 VDC, MAX VOLTAGE: 10 VDC, CONTACT RATING: AC 0.50A, 125VAC/DC 2A. 30VDC, CONTACT RESISTANCE: OHMS (MAX) 75 MILLIOHMS

3.2 COIL VOLTAGE: 24 VDC, COIL CURRENT: 8.3 MA, COIL RESISTANCE: 2880 OHMS, PICK-UP VOLTAGE: 14.4 VDC, DROPOUT VOLTAGE: 9.6 VDC, MAX VOLTAGE: 40.8 VDC, CONTACT RATING: AC 0.50A, 125VAC/DC 2A. 30VDC, CONTACT RESISTANCE: OHMS (MAX) 75 MILLIOHMS

4.0 ENVIRONMENTAL:

4.1 OPERATING TEMPERATURE RANGE: -40 DEG C TO +85 DEG C

5.0 MARKINGS:

5.1 ITEMS SHALL BE LEGIBLY AND PERMANENTLY MARKED WITH THE PART NUMBER, TERMINAL IDENTIFICATION.

6.0 MECHANICAL SPECIFICATIONS:

6.1 CONNECTORS:

BJ770 OR EQUIVALENT, J1 THRU J2, MATING CONNECTOR EE1001-XX TRB PLUG.

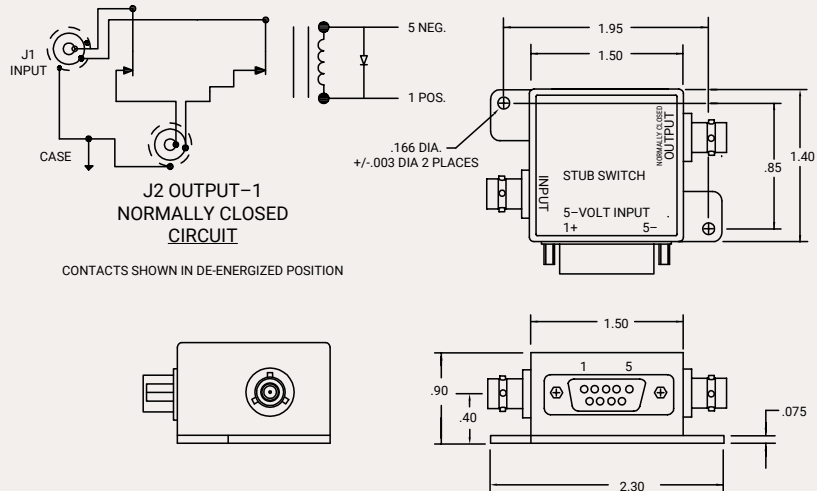
J3 IS DB9P PLUG, CONNECTOR (PIN 1 IS POSITIVE, PIN 5 IS GROUND) MATING CONNECTOR IS DB9 FEMALE.

6.2 MATERIAL:

6.2.1 ENCLOSURE: ALUMINUM .050 THK.

6.2.2 MOUNTING PLATE: ALUMINUM .075 THK.

6.2.3 BLACK ENAMEL (POWDER COATED)



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CONNECTORS PAGES 26-27



ADAPTERS PAGE 28

## MIL-STD-1553B

## 1-Stub Inline Bus Couplers



PART NUMBER	LEAD LENGTH	APPLICATION
<b>IC6101-12</b>	12 Inches	VEHICLE/LAB
<b>ICLF6101-03</b>	30 Centimeters	VEHICLE/LAB
<b>TECHNICAL NOTES</b>		
Bus & Stub Leads:	M17/176-00002 Blunt Ends	
Bus Termination:	Non-terminated	
Nominal Unit Weight:	1.50 oz (42.52 g)	



PART NUMBER	LEAD LENGTH	APPLICATION
<b>IC6102-12</b>	12 Inches	VEHICLE/LAB
<b>ICLF6102-03</b>	30 Centimeters	VEHICLE/LAB
<b>TECHNICAL NOTES</b>		
Bus & Stub Leads:	M17/176-00002 Blunt Ends	
Right Bus Termination:	78 Ohm $\pm$ 2%, 2W Resistor	
Nominal Unit Weight:	1.10 oz (31.18 g)	



PART NUMBER	LEAD LENGTH	APPLICATION
<b>IC6103-12</b>	12 Inches	VEHICLE/LAB
<b>ICLF6103-03</b>	30 Centimeters	VEHICLE/LAB
<b>TECHNICAL NOTES</b>		
Bus & Stub Leads:	M17/176-00002 Blunt Ends	
Left Bus Termination:	78 Ohm $\pm$ 2%, 2W Resistor	
Nominal Unit Weight:	1.10 oz (31.18 g)	



PART NUMBER	LEAD LENGTH	APPLICATION
<b>IC6104-12</b>	12 Inches	VEHICLE/LAB
<b>ICLF6104-03</b>	30 Centimeters	VEHICLE/LAB
<b>TECHNICAL NOTES</b>		
Stub Lead:	M17/176-00002 Blunt Ends	
Dual Bus Termination:	78 Ohm $\pm$ 2%, 2W Resistor	
Nominal Unit Weight:	0.70 oz (19.74 g)	

CONTACT FDH FOR CUSTOM LENGTHS AND CONFIGURATIONS

#### 1.0 ELECTRICAL SPECIFICATIONS: IAW MIL-STD 1553B

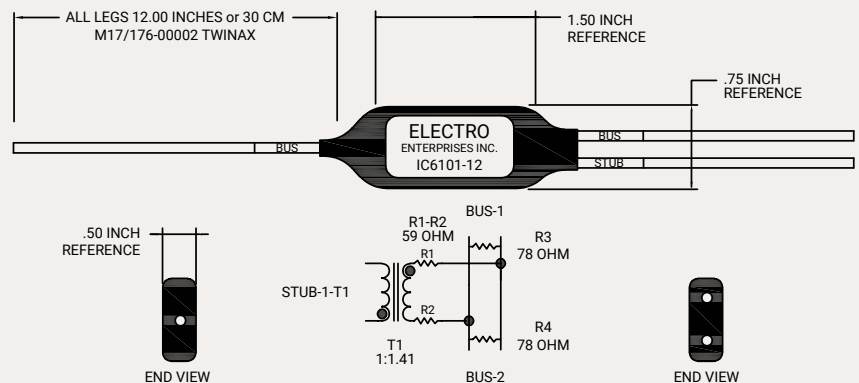
1. DROOP:	20% MAXIMUM
1.2 OVERSHOOT & RINGING:	+/- 1.0V PK-PK
1.3 TRANSFORMER RATIO:	1:1.41 STUB TO BUS
1.4 FAULT PROTECTION R1-R2:	59 OHM +/- 2%, 2 WATT
1.5 TERMINATION RESISTOR R3-R4:	78 OHM +/- 2%, 2 WATT
1.6 COMMON MODE REJECTION:	-55 DB @ 1 MHz

#### 2.0 MECHANICAL SPECIFICATIONS:

2.1 CASE MATERIAL:	1100 SERIES ALUMINUM ALLOY,
2.2 CASE COATING:	ALODINE
2.3 CONNECTOR TYPE:	BLUNT LEADS
2.4 NOMINAL WEIGHT:	AS NOTED

#### 3.0 ENVIRONMENTAL:

3.1 OPERATING TEMPERATURE:	-55C TO +125C
3.2 MANUFACTURED PER:	MIL-STD-202G



FULL CRIMP & SOLDER CLAMP CONNECTORS PAGE 26



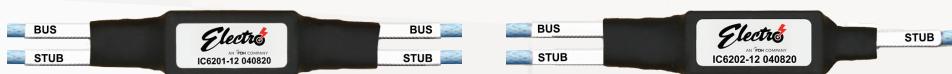
BULKHEAD CABLE JACKS PAGE 27



CRIMP TOOLS & SPLICING KIT PAGE 30

# MIL-STD-1553B

## 2-Stub Inline Bus Couplers



PART NUMBER	LEAD LENGTH	APPLICATION
<b>IC6201-12</b>	12 Inches	VEHICLE/LAB
<b>ICLF6201-03</b>	30 Centimeters	VEHICLE/LAB
<b>TECHNICAL NOTES</b>		
Bus & Stub Leads:	M17/176-00002 Blunt Ends	
Bus Termination:	Non-terminated	
Nominal Unit Weight:	1.90 oz (53.86 g)	

PART NUMBER	LEAD LENGTH	APPLICATION
<b>IC6202-12</b>	12 Inches	VEHICLE/LAB
<b>ICLF6202-03</b>	30 Centimeters	VEHICLE/LAB
<b>TECHNICAL NOTES</b>		
Bus & Stub Leads:	M17/176-00002 Blunt Ends	
Right Bus Termination:	78 Ohm $\pm$ 2%, 2W Resistor	
Nominal Unit Weight:	1.50oz (42.52 g)	



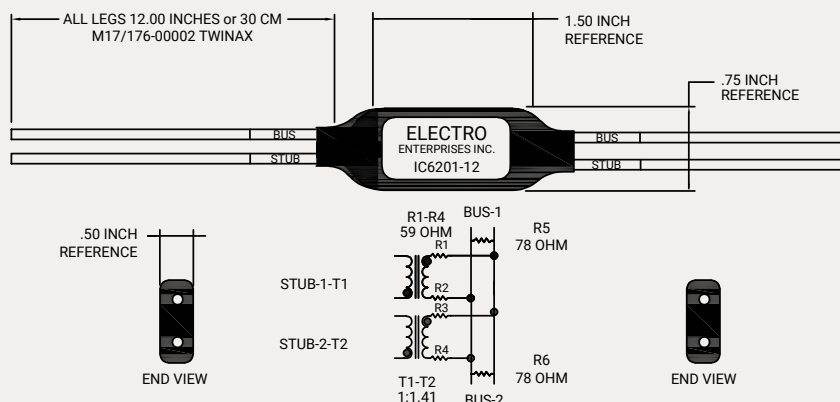
PART NUMBER	LEAD LENGTH	APPLICATION
<b>IC6203-12</b>	12 Inches	VEHICLE/LAB
<b>ICLF6203-03</b>	30 Centimeters	VEHICLE/LAB
<b>TECHNICAL NOTES</b>		
Bus & Stub Leads:	M17/176-00002 Blunt Ends	
Right Bus Termination:	78 Ohm $\pm$ 2%, 2W Resistor	
Nominal Unit Weight:	1.50 oz (42.52 g)	

PART NUMBER	LEAD LENGTH	APPLICATION
<b>IC6204-12</b>	12 Inches	VEHICLE/LAB
<b>ICLF6204-03</b>	30 Centimeters	VEHICLE/LAB
<b>TECHNICAL NOTES</b>		
Stub Leads:	M17/176-00002 Blunt Ends	
Dual Bus Termination:	78 Ohm $\pm$ 2%, 2W Resistor	
Nominal Unit Weight:	1.10 oz (31.18 g)	

PART NUMBER	LEAD LENGTH	APPLICATION
<b>IC6205-12</b>	12 Inches	VEHICLE/LAB
<b>ICLF6205-03</b>	30 Centimeters	VEHICLE/LAB
<b>TECHNICAL NOTES</b>		
Stub Leads:	M17/176-00002 Blunt Ends	
Dual Bus Termination:	78 Ohm $\pm$ 2%, 2W Resistor	
Nominal Unit Weight:	1.10 oz (31.18 g)	

### CONTACT FDH FOR CUSTOM LENGTHS AND CONFIGURATIONS

- 1.0 ELECTRICAL SPECIFICATIONS: IAW MIL-STD 1553B
- 1.1 DROOP: 20% MAXIMUM
  - 1.2 OVERSHOOT & RINGING: +/- 1.0V PK-PK
  - 1.3 TRANSFORMER RATIO: 1:1.41 STUB TO BUS
  - 1.4 FAULT PROTECTION R1-R4: 59 OHM +/- 2%, 2 WATT
  - 1.5 TERMINATION RESISTOR R5-R6: 78 OHM +/- 2%, 2 WATT
  - 1.6 COMMON MODE REJECTION: -55 DB @ 1 MHz
- 2.0 MECHANICAL SPECIFICATIONS:
- 2.1 CASE MATERIAL: 1100 SERIES ALUMINUM ALLOY,
  - 2.2 CASE COATING: ALODINE
  - 2.3 CONNECTOR TYPE: BLUNT LEADS
  - 2.4 NOMINAL WEIGHT: AS NOTED
- 3.0 ENVIRONMENTAL:
- 3.1 OPERATING TEMPERATURE: -55C TO +125C
  - 3.2 MANUFACTURED PER: MIL-STD-202G



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CRIMP TOOLS & SPLICING KIT PAGE 30

## MIL-STD-1553B

## 3-Stub Inline Bus Couplers



PART NUMBER	LEAD LENGTH	APPLICATION
<b>IC6301-12</b>	12 Inches	VEHICLE/LAB
<b>ICLF6301-03</b>	30 Centimeters	VEHICLE/LAB
<b>TECHNICAL NOTES</b>		
Bus & Stub Leads:	M17/176-00002 Blunt Ends	
Bus Termination:	Non-Terminated	
Nominal Unit Weight:	2.70 oz (76.54 g)	



PART NUMBER	LEAD LENGTH	APPLICATION
<b>IC6302-12</b>	12 Inches	VEHICLE/LAB
<b>ICLF6302-03</b>	30 Centimeters	VEHICLE/LAB
<b>TECHNICAL NOTES</b>		
Bus & Stub Leads:	M17/176-00002 Blunt Ends	
Right Bus Termination:	78 Ohm $\pm$ 2%, 2W Resistor	
Nominal Unit Weight:	2.30 oz (65.20 g)	



PART NUMBER	LEAD LENGTH	APPLICATION
<b>IC6303-12</b>	12 Inches	VEHICLE/LAB
<b>ICLF6303-03</b>	30 Centimeters	VEHICLE/LAB
<b>TECHNICAL NOTES</b>		
Bus & Stub Leads:	M17/176-00002 Blunt Ends	
Right Bus Termination:	78 Ohm $\pm$ 2%, 2W Resistor	
Nominal Unit Weight:	2.30 oz (65.20 g)	



PART NUMBER	LEAD LENGTH	APPLICATION
<b>IC6304-12</b>	12 Inches	VEHICLE/LAB
<b>ICLF6304-03</b>	30 Centimeters	VEHICLE/LAB
<b>TECHNICAL NOTES</b>		
Bus & Stub Leads:	M17/176-00002 Blunt Ends	
Right Bus Termination:	78 Ohm $\pm$ 2%, 2W Resistor	
Nominal Unit Weight:	2.30 oz (65.20 g)	



PART NUMBER	LEAD LENGTH	APPLICATION
<b>IC6305-12</b>	12 Inches	VEHICLE/LAB
<b>ICLF6305-03</b>	30 Centimeters	VEHICLE/LAB
<b>TECHNICAL NOTES</b>		
Stub Leads:	M17/176-00002 Blunt Ends	
Dual Bus Termination:	78 Ohm $\pm$ 2%, 2W Resistor	
Nominal Unit Weight:	1.90 oz (53.86 g)	



PART NUMBER	LEAD LENGTH	APPLICATION
<b>IC6306-12</b>	12 Inches	VEHICLE/LAB
<b>ICLF6306-03</b>	30 Centimeters	VEHICLE/LAB
<b>TECHNICAL NOTES</b>		
Stub Leads:	M17/176-00002 Blunt Ends	
Dual Bus Termination:	78 Ohm $\pm$ 2%, 2W Resistor	
Nominal Unit Weight:	1.90 oz (53.86 g)	

CONTACT FDH FOR CUSTOM LENGTHS AND CONFIGURATIONS

#### 1.0 ELECTRICAL SPECIFICATIONS: IAW MIL-STD 1553B

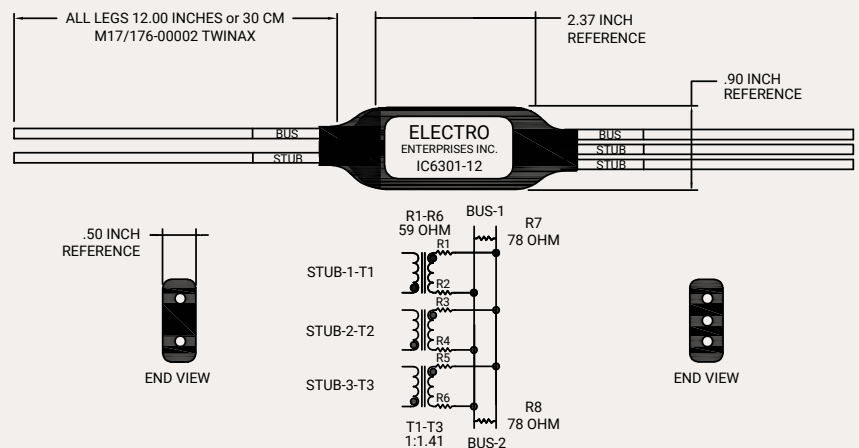
1.1 DROOP:	20% MAXIMUM
1.2 OVERSHOOT & RINGING:	+/- 1.0V PK-PK
1.3 TRANSFORMER RATIO:	1:1.41 STUB TO BUS
1.4 FAULT PROTECTION R1-R6:	59 OHM +/- 2%, 2 WATT
1.5 TERMINATION RESISTOR R7-R8:	78 OHM +/- 2%, 2 WATT
1.6 COMMON MODE REJECTION:	-55 DB @ 1 MHz

#### 2.0 MECHANICAL SPECIFICATIONS:

2.1 CASE MATERIAL:	1100 SERIES ALUMINUM ALLOY,
2.2 CASE COATING:	ALODINE
2.3 CONNECTOR TYPE:	BLUNT LEADS
2.4 NOMINAL WEIGHT:	AS NOTED

#### 3.0 ENVIRONMENTAL:

3.1 OPERATING TEMPERATURE:	-55C TO +125C
3.2 MANUFACTURED PER:	MIL-STD-202G



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CRIMP TOOLS & SPLICING KIT PAGE 30

# MIL-STD-1553B

## 4-Stub Inline Bus Couplers



PART NUMBER	LEAD LENGTH	APPLICATION
<b>IC6401-12</b>	12 Inches	VEHICLE/LAB
<b>ICL6401-03</b>	30 Centimeters	VEHICLE/LAB
<b>TECHNICAL NOTES</b>		
Bus & Stub Leads:	M17/176-00002 Blunt Ends	
Bus Termination:	Non-terminated	
Nominal Unit Weight:	3.10 oz (87.88 g)	



PART NUMBER	LEAD LENGTH	APPLICATION
<b>IC6402-12</b>	12 Inches	VEHICLE/LAB
<b>ICL6402-03</b>	30 Centimeters	VEHICLE/LAB
<b>TECHNICAL NOTES</b>		
Bus & Stub Leads:	M17/176-00002 Blunt Ends	
Right Bus Termination:	78 Ohm ± 2%, 2W Resistor	
Nominal Unit Weight:	2.70oz (76.54 g)	



PART NUMBER	LEAD LENGTH	APPLICATION
<b>IC6403-12</b>	12 Inches	VEHICLE/LAB
<b>ICL6403-03</b>	30 Centimeters	VEHICLE/LAB
<b>TECHNICAL NOTES</b>		
Bus & Stub Leads:	M17/176-00002 Blunt Ends	
Right Bus Termination:	78 Ohm ± 2%, 2W Resistor	
Nominal Unit Weight:	2.70 oz (76.54 g)	



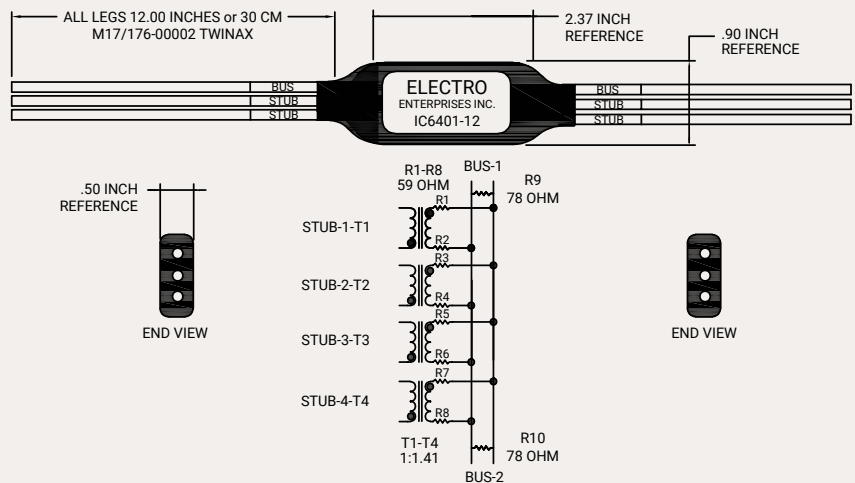
PART NUMBER	LEAD LENGTH	APPLICATION
<b>IC6404-12</b>	12 Inches	VEHICLE/LAB
<b>ICL6404-03</b>	30 Centimeters	VEHICLE/LAB
<b>TECHNICAL NOTES</b>		
Stub Leads:	M17/176-00002 Blunt Ends	
Dual Bus Termination:	78 Ohm ± 2%, 2W Resistor	
Nominal Unit Weight:	2.30 oz (65.20 g)	



PART NUMBER	LEAD LENGTH	APPLICATION
<b>IC6405-12</b>	12 Inches	VEHICLE/LAB
<b>ICL6405-03</b>	30 Centimeters	VEHICLE/LAB
<b>TECHNICAL NOTES</b>		
Stub Leads:	M17/176-00002 Blunt Ends	
Dual Bus Termination:	78 Ohm ± 2%, 2W Resistor	
Nominal Unit Weight:	2.30 oz (65.20 g)	

### CONTACT FDH FOR CUSTOM LENGTHS AND CONFIGURATIONS

- 1.0 ELECTRICAL SPECIFICATIONS: IAW MIL-STD 1553B
- 1. DROOP: 20% MAXIMUM
  - 1.2 OVERSHOOT & RINGING: +/- 1.0V PK-PK
  - 1.3 TRANSFORMER RATIO: 1:1.41 STUB TO BUS
  - 1.4 FAULT PROTECTION R1-R8: 59 OHM +/- 2%, 2 WATT
  - 1.5 TERMINATION RESISTOR R9-R10: 78 OHM +/- 2%, 2 WATT
  - 1.6 COMMON MODE REJECTION: -55 DB @ 1 MHz
- 2.0 MECHANICAL SPECIFICATIONS:
- 2.1 CASE MATERIAL: 1100 SERIES ALUMINUM ALLOY,
  - 2.2 CASE COATING: ALODINE
  - 2.3 CONNECTOR TYPE: BLUNT LEADS
  - 2.4 NOMINAL WEIGHT: AS NOTED
- 3.0 ENVIRONMENTAL:
- 3.1 OPERATING TEMPERATURE: -55C TO +125C
  - 3.2 MANUFACTURED PER: MIL-STD-202G



FULL CRIMP & SOLDER CLAMP CONNECTORS PAGE 26



BULKHEAD CABLE JACKS PAGE 27



CRIMP TOOLS & SPLICING KIT PAGE 30

## MIL-STD-1553B TWINAX CABLE ASSEMBLIES Lab & Vehicle (Solder/Clamp & Crimp)

### TRB CABLE PLUGS, 3-SLOT, SOLDER/CLAMP, MALE-TO-MALE



PART NUMBER	CABLE TYPE	JACKET	CABLE O.D.	APPLICATION
<b>CA-103A103-x</b>	TWC-78-2	PVC	0.242 inches	LAB
<b>CA-103C103-x</b>	TWC-78-1	PVC	0.150 inches	LAB
<b>CA-103B103-x</b>	M17/176-00002	HIGH-TEMP	0.129 inches	LAB / VEHICLE
<b>CA-103D103-x</b>	BC0078-10, TWAC-78-1F2	FEP	0.095 inches	LAB / VEHICLE

CABLE LENGTH IN INCHES.  
STANDARD LENGTHS (IN INCHES)  
INCLUDE: 12, 24, 36, 48, 60, 72, 84, 120, 144, 180, 240, 300, 600

CA-103A103-120 = 10 FT (120 INCHES) CABLE ASSEMBLY

### TRB CABLE PLUGS, 3-SLOT, FULL CRIMP, MALE-TO-MALE





PART NUMBER	CABLE TYPE	JACKET	CABLE O.D.	APPLICATION
<b>CA-109B109-x</b>	M17/176-00002	HIGH-TEMP	0.129 inches	LAB / VEHICLE
<b>CA-109A109-x</b>	TWC-78-2	PVC	0.242 inches	LAB
<b>CA-109C109-x</b>	TWC-78-1	PVC	0.150 inches	LAB

CABLE LENGTH IN INCHES.  
STANDARD LENGTHS (IN INCHES)  
INCLUDE: 12, 24, 36, 48, 60, 72, 84, 120, 144, 180, 240, 300, 600

CA-109B109-120 = 10 FT (120 INCHES) CABLE ASSEMBLY





CONTACT FDH FOR CUSTOM LENGTHS AND CONFIGURATIONS

**MIL-STD-1553B** TWINAX CABLE ASSEMBLIES

Lab & Vehicle (Solder/Clamp & Crimp)   LEAD-FREE SOLDER

**TRB CABLE PLUGS, 3-SLOT, SOLDER/CLAMP, MALE-TO-MALE**

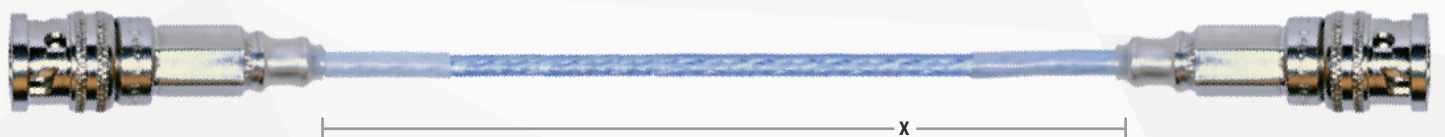





PART NUMBER	CABLE TYPE	JACKET	CABLE O.D.	APPLICATION
<b>LF-103A103-x</b> 	TWC-78-2	PVC	0.242 inches	LAB
<b>LF-103C103-x</b> 	TWC-78-1	PVC	0.150 inches	LAB
<b>LF-103B103-x</b> 	M17/176-00002	HIGH-TEMP	0.129 inches	LAB / VEHICLE
<b>LF-103D103-x</b> 	BC0078-10, TWAC-78-1F2	FEP	0.095 inches	LAB / VEHICLE

CABLE LENGTH IN METERS.  
STANDARD LENGTHS (IN METERS)  
INCLUDE: 03, 05, 1, 2, 3, 4, 5, 6, 8, 15

LF-103A103-03M = 30 CENTIMETER CABLE ASSEMBLY  
LF-103A103-5M = 5 METER CABLE ASSEMBLY

**TRB CABLE PLUGS, 3-SLOT, FULL CRIMP, MALE-TO-MALE**



PART NUMBER	CABLE TYPE	JACKET	CABLE O.D.	APPLICATION
<b>LF-109B109-x</b> 	M17/176-00002	HIGH-TEMP	0.129 inches	LAB/ VEHICLE
<b>LF-109A109-x</b> 	TWC-78-2	PVC	0.242 inches	LAB
<b>LF-109C109-x</b> 	TWC-78-1	PVC	0.150 inches	LAB

CABLE LENGTH IN METERS.  
STANDARD LENGTHS (IN METERS)  
INCLUDE: 03, 05, 1, 2, 3, 4, 5, 6, 8, 15

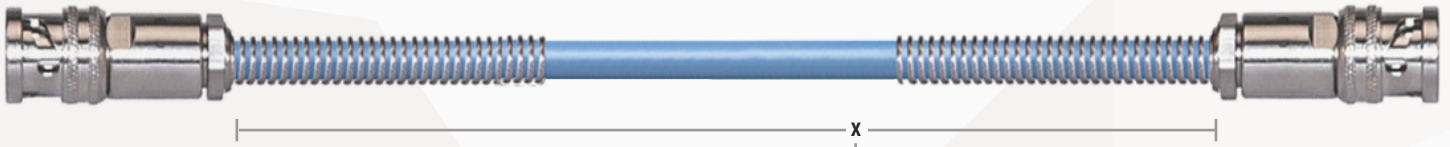
LF-109B109-03M = 30 CENTIMETER CABLE ASSEMBLY  
LF-109B109-5M = 5 METER CABLE ASSEMBLY

**CONTACT FDH FOR CUSTOM LENGTHS AND CONFIGURATIONS**

## MIL-STD-1553B TWINAX CABLE ASSEMBLIES

### Bend Relief & Right Angle

#### TRB CABLE PLUGS, 3-SLOT, SOLDER/CLAMP WITH BEND RELIEF, MALE-TO-MALE

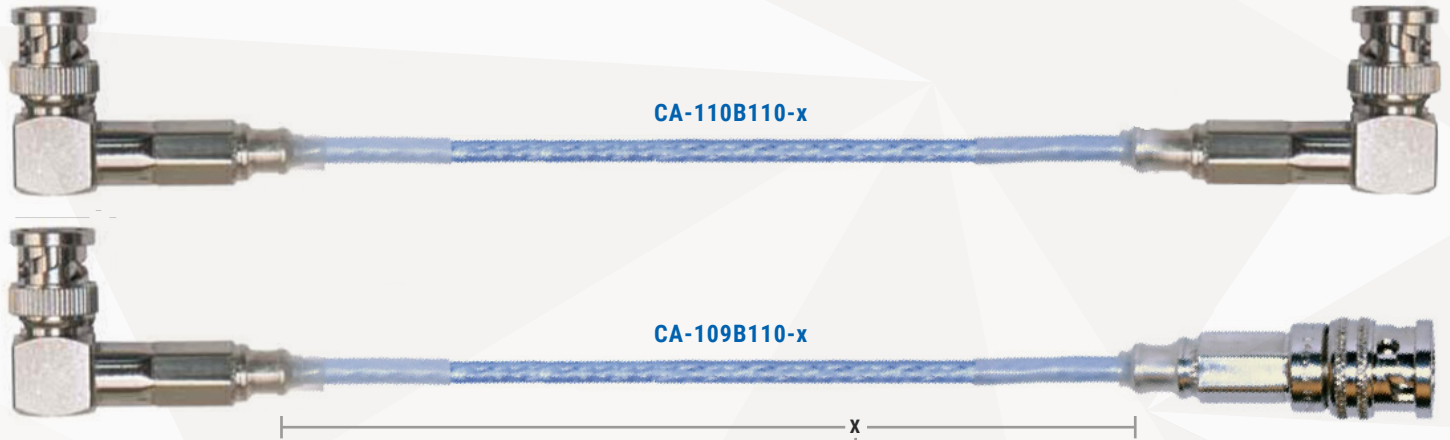


PART NUMBER	CABLE TYPE	JACKET	CABLE O.D.	APPLICATION
CA-104A104-x	TWC-78-2	PVC	0.242 inches	LAB
CA-104C104-x	TWC-78-1	PVC	0.150 inches	LAB
CA-104B104-x	M17/176-00002	HIGH-TEMP	0.129 inches	LAB / VEHICLE
CA-104D104-x	BC0078-10, TWAC-78-1F2	FEP	0.095 inches	LAB / VEHICLE

CABLE LENGTH IN INCHES.  
STANDARD LENGTHS (IN INCHES)  
INCLUDE: 12, 24, 36, 48, 60, 72, 84, 120, 144, 180, 240, 300, 600

CA-104A104-120 = 10 FT. (120 INCHES) CABLE ASSEMBLY

#### TRB CABLE PLUGS, 3-SLOT, FULL CRIMP, MALE-TO-MALE




PART NUMBER	CABLE TYPE	JACKET	CABLE O.D.	APPLICATION
CA-110B110-x	M17/176-00002	HIGH-TEMP	0.129 inches	LAB / VEHICLE
CA-109B110-x	M17/176-00002	HIGH-TEMP	0.129 inches	LAB / VEHICLE

CABLE LENGTH IN INCHES.  
STANDARD LENGTHS (IN INCHES)  
INCLUDE: 12, 24, 36, 48, 60, 72, 84, 120, 144, 180, 240, 300, 600

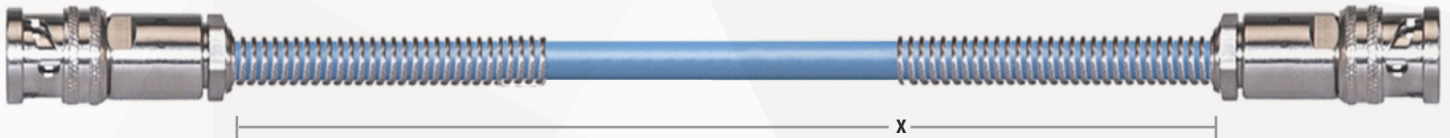
CA-110B110-120 = 10 FT. (120 INCHES) CABLE ASSEMBLY





CONTACT FDH FOR CUSTOM LENGTHS AND CONFIGURATIONS

**MIL-STD-1553B** TWINAX CABLE ASSEMBLIES

Bend Relief & Right Angle   LEAD-FREE SOLDER

**TRB CABLE PLUGS, 3-SLOT, SOLDER/CLAMP WITH BEND RELIEF, MALE-TO-MALE**

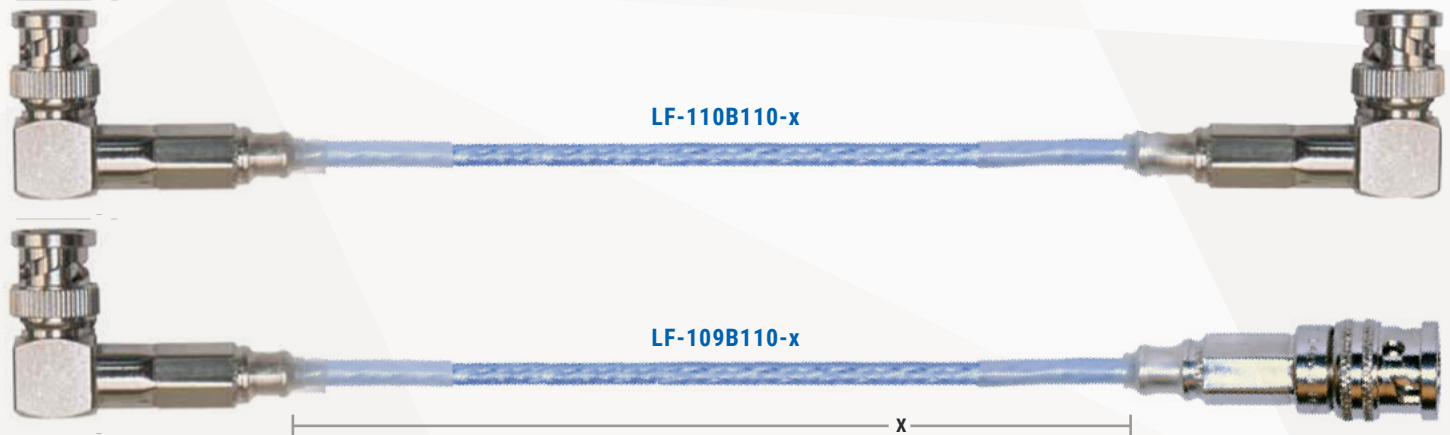




PART NUMBER	CABLE TYPE	JACKET	CABLE O.D.	APPLICATION
<b>LF-104A104-x</b> 	TWC-78-2	PVC	0.242 inches	LAB
<b>LF-104C104-x</b> 	TWC-78-1	PVC	0.150 inches	LAB
<b>LF-104B104-x</b> 	M17/176-00002	HIGH-TEMP	0.129 inches	LAB / VEHICLE
<b>LF-104D104-x</b> 	BC0078-10, TWAC-78-1F2	FEP	0.095 inches	LAB / VEHICLE

CABLE LENGTH IN METERS.  
STANDARD LENGTHS (IN METERS)  
INCLUDE: 03, 05, 1, 2, 3, 4, 5, 6, 8, 15

LF-104A104-03M = 30 CENTIMETER CABLE ASSEMBLY  
LF-104A104-5M = 5 METER CABLE ASSEMBLY

**TRB CABLE PLUGS, 3-SLOT, FULL CRIMP, MALE-TO-MALE**



PART NUMBER	CABLE TYPE	JACKET	CABLE O.D.	APPLICATION
<b>LF-110B110-x</b> 	M17/176-00002	HIGH-TEMP	0.129 inches	LAB / VEHICLE
<b>LF-109B110-x</b> 	M17/176-00002	HIGH-TEMP	0.129 inches	LAB / VEHICLE

CABLE LENGTH IN METERS.  
STANDARD LENGTHS (IN METERS)  
INCLUDE: 03, 05, 1, 2, 3, 4, 5, 6, 8, 15

LF-110B110-03M = 30 CENTIMETER CABLE ASSEMBLY  
LF-110B110-5M = 5 METER CABLE ASSEMBLY

**CONTACT FDH FOR CUSTOM LENGTHS AND CONFIGURATIONS**

## MIL-STD-1553B TWINAX CABLE ASSEMBLIES

### Jack to Blunt (Regular & Bend Relief)

#### TRB CABLE JACK, 3-LUG, SOLDER/CLAMP, FEMALE-TO-BLUNT

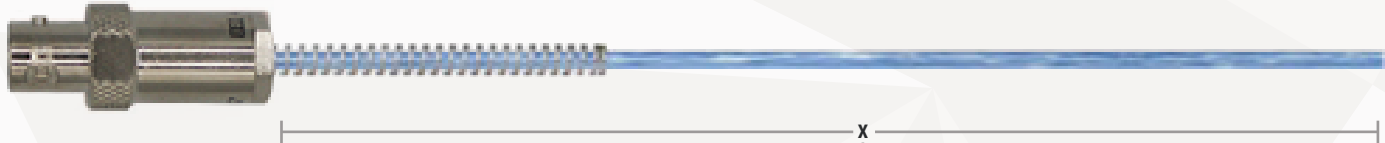


PART NUMBER	CABLE TYPE	JACKET	CABLE O.D.	APPLICATION
CA-000A101-x	TWC-78-2	PVC	0.242 inches	LAB
CA-000C101-x	TWC-78-1	PVC	0.150 inches	LAB
CA-000B101-x	M17/176-00002	HIGH-TEMP	0.129 inches	LAB/VEHICLE
CA-000D101-x	BC0078-10, TWAC-78-1F2	FEP	0.095 inches	LAB/VEHICLE

CABLE LENGTH IN INCHES.  
STANDARD LENGTHS (IN INCHES)  
INCLUDE: 12, 24, 36, 48, 60, 72, 84, 120, 144, 180, 240, 300, 600

CA-000A101-120 = 10 FT. (120 INCHES) CABLE ASSEMBLY

#### TRB CABLE JACK, 3-LUG, SOLDER/CLAMP WITH BEND RELIEF, FEMALE-TO-BLUNT



PART NUMBER	CABLE TYPE	JACKET	CABLE O.D.	APPLICATION
CA-000A102-x	TWC-78-2	PVC	0.242 inches	LAB
CA-000C102-x	TWC-78-1	PVC	0.150 inches	LAB
CA-000B102-x	M17/176-00002	HIGH-TEMP	0.129 inches	LAB/VEHICLE
CA-000D102-x	BC0078-10, TWAC-78-1F2	FEP	0.095 inches	LAB/VEHICLE

CABLE LENGTH IN INCHES.  
STANDARD LENGTHS (IN INCHES)  
INCLUDE: 12, 24, 36, 48, 60, 72, 84, 120, 144, 180, 240, 300, 600

CA-000A102-120 = 10 FT. (120 INCHES) CABLE ASSEMBLY

CONTACT FDH FOR CUSTOM LENGTHS AND CONFIGURATIONS

# MIL-STD-1553B TWINAX CABLE ASSEMBLIES

## Jack to Blunt (Regular & Bend Relief)



### TRB CABLE JACK, 3-LUG, SOLDER/CLAMP, FEMALE TO BLUNT



PART NUMBER	CABLE TYPE	JACKET	CABLE O.D.	APPLICATION
LF-000A101-x	TWC-78-2	PVC	0.242 inches	LAB
LF-000C101-x	TWC-78-1	PVC	0.150 inches	LAB
LF-000B101-x	M17/176-00002	HIGH-TEMP	0.129 inches	LAB/VEHICLE
LF-000D101-x	BC0078-10, TWAC-78-1F2	FEP	0.095 inches	LAB/VEHICLE

CABLE LENGTH IN METERS.  
STANDARD LENGTHS (IN METERS)  
INCLUDE: 03, 05, 1, 2, 3, 4, 5, 6, 8, 15

LF-000A101-03M = 30 CENTIMETER CABLE ASSEMBLY  
LF-000A101-5M = 5 METER CABLE ASSEMBLY

### TRB CABLE JACK, 3-LUG, SOLDER/CLAMP, WITH BEND RELIEF FEMALE-TO-BLUNT



PART NUMBER	CABLE TYPE	JACKET	CABLE O.D.	APPLICATION
LF-000A102-x	TWC-78-2	PVC	0.242 inches	LAB
LF-000C102-x	TWC-78-1	PVC	0.150 inches	LAB
LF-000B102-x	M17/176-00002	HIGH-TEMP	0.129 inches	LAB/VEHICLE
LF-000D102-x	BC0078-10, TWAC-78-1F2	FEP	0.095 inches	LAB/VEHICLE

CABLE LENGTH IN METERS.  
STANDARD LENGTHS (IN METERS)  
INCLUDE: 03, 05, 1, 2, 3, 4, 5, 6, 8, 15

LF-000A102-03M = 30 CENTIMETER CABLE ASSEMBLY  
LF-000A102-5M = 5 METER CABLE ASSEMBLY

CONTACT FDH FOR CUSTOM LENGTHS AND CONFIGURATIONS

## MIL-STD-1553B

# Terminators & Dust Caps

### TRB 3-SLOT MALE BUS & STUB TERMINATORS – WITHOUT CHAIN



NON-INDUCTIVE  
WIRE WOUND RESISTOR  
AS PER MIL-R-39007  
2 WATT, +/- 2%

PART NUMBERS		TECHNICAL NOTES
CONVENTIONAL	RoHS & LEAD-FREE	
<b>T00378-1</b>	<b>LFT00378-1</b>	Bus Terminator without chain: 78 ohm
<b>T0031K-1</b>	<b>LFT0031K-1</b>	Stub Terminator without chain: 1000 ohm
<b>T0032K-1</b>	<b>LFT0032K-1</b>	Stub Terminator without chain: 2000 ohm
<b>T0033K-1</b>	<b>LFT0033K-1</b>	Stub Terminator without chain: 3000 ohm

### TRB 3-SLOT MALE BUS & STUB TERMINATORS – WITH 3 INCH STAINLESS STEEL CHAIN



NON-INDUCTIVE  
WIRE WOUND RESISTOR  
AS PER MIL-R-39007  
2 WATT, +/- 2%

PART NUMBERS		TECHNICAL NOTES
CONVENTIONAL	RoHS & LEAD-FREE	
<b>T00378-3</b>	<b>LFT00378-3</b>	Bus Terminator, 3" chain: 78 ohm
<b>T0031K-3</b>	<b>LFT0031K-3</b>	Stub Terminator, 3" chain: 1000 ohm
<b>T0032K-3</b>	<b>LFT0032K-3</b>	Stub Terminator, 3" chain: 2000 ohm
<b>T0033K-3</b>	<b>LFT0033K-3</b>	Stub Terminator, 3" chain: 3000 ohm

### TRB 3-SLOT MALE BUS & STUB TERMINATORS – WITH 6 INCH STAINLESS STEEL CHAIN



NON-INDUCTIVE  
WIRE WOUND RESISTOR  
AS PER MIL-R-39007  
2 WATT, +/- 2%

PART NUMBERS		TECHNICAL NOTES
CONVENTIONAL	RoHS & LEAD-FREE	
<b>T00378-6</b>	<b>LFT00378-6</b>	Bus Terminator, 6" chain: 78 ohm
<b>T0031K-6</b>	<b>LFT0031K-6</b>	Stub Terminator, 6" chain: 1000 ohm
<b>T0032K-6</b>	<b>LFT0032K-6</b>	Stub Terminator, 6" chain: 2000 ohm
<b>T0033K-6</b>	<b>LFT0033K-6</b>	Stub Terminator, 6" chain: 3000 ohm

### TRB 3-SLOT MALE RFI DUST PROTECTION CAPS



**DC1001-1**



**DC1001-3**



**DC1001-6**

PART NUMBER	TECHNICAL NOTES
<b>DC1001-1</b>	RFI Dust Cap without chain
<b>DC1001-3</b>	RFI Dust Cap, 3" chain
<b>DC1001-6</b>	RFI Dust cap, 6" chain

1. Bus terminators (78 Ohm) are used at each end of the MIL-STD-1553 BUS.

2. Higher impedance stub terminators (1k, 2k, 3k ohm) are used to simulate future loads from an unspecified device in various testing environments.

3. RFI caps are used on open bus coupler jacks to aid in reduction of RF interference and to provide a barrier to dust.

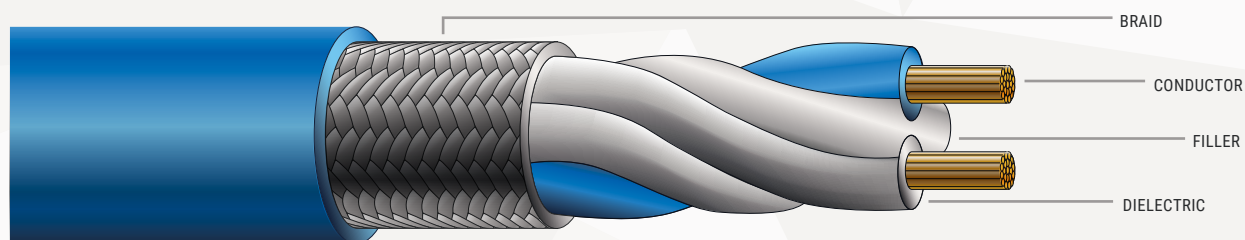
4. All of the items shown on this page are TRB 3-slot male plug mating interface.






5. Chains shown on this page are stainless steel.

6. Conventional terminators are manufactured using leaded solder.

## MIL-STD-1553B

## 1553 Twinaxial Cable



	LAB RATED		VEHICLE-RATED HALOGEN-FREE	VEHICLE-RATED HIGH-TEMP	
Cable Part Number	TWC-78-2	TWC-78-1	TWCH-78-2	M17/176-00002	BC0078-10
Uses Electro Connector	-40	-30	-40	-20	-10
SPECIFICATIONS					
Nominal Impedance (ohms)	78 ± 3	78 ± 3	78 ± 3	77 ± 7	77 ± 7
Nominal Outer Diameter (inches)	0.242	0.150	0.242	0.129	0.093
Conductor Diameter (inches)	0.037	0.022	0.037	0.024	0.0149
Operating Temperature Range	-40 C to +80 C	-40 C to +80 C	-30 C to +80 C	-55 C to +200 C	-55 C to +200 C
Minimum Bend Radius (inches)	1.25	1.50	1.25	1.50	1.25
Nominal Capacitance (pF/ft)	21.20	20.30	21.20	24.00	19.00
Outer Jacket Material	PCV	PCV	Halogen-free	HIGH-TEMP	FEP
Insulation Material	Polythylene	Polythylene	Polythylene	HIGH-TEMP	Tempa-Lene 45
Shield Coverage	93%	93%	93%	93%	90%
ATTENUATION (DB/100 FT)					
1 MHz	0.70	2.00	0.70	1.400	
3 MHz	1.10	3.00	1.10	2.100	
10 MHz	2.20	5.30	2.20	4.500 (max)	8.00
20 MHz	3.10	7.50	3.10		
30 MHz	3.90	9.20	3.90		
40 MHz	4.50	10.60	4.50		
50 MHz	5.10	11.90	5.10		
100 MHz	7.50	16.80	7.50		25.00
200 MHz	10.50	23.70	10.50		
500 MHz	16.00	37.50	16.00		
700 MHz	18.60	44.30	18.60		
1 GHz	22.50	53.00	22.50		
RoHS COMPLIANCE					

\*ALL DIMENSIONS ARE IN INCHES. ALL VALUES WITHOUT TOLERANCES ARE NOMINAL

# MIL-STD-1553B

## TRB Connectors

### TRB CABLE PLUG 3-SLOT MALE SOLDER CLAMP



EE1001-XX



EE1008-XX

PLUG	PLUG & SPRING	COMPATIBLE TWINAX CABLE TYPE
EE1001-40	EE1008-40	TWC-78-2, BC0078-40, TWCH-78-2, 30-02001
EE1001-30	EE1008-30	TWC-78-1, BC0078-30, 30-02003
EE1001-20	EE1008-20	M17/176-00002
EE1001-10	EE1008-10	BC0078-10, TWAC-78-1F2, 30-02002

### TRB CABLE PLUG 3-LUG FEMALE SOLDER CLAMP



EE1002-XX



EE1009-XX

JACK	JACK & SPRING	COMPATIBLE TWINAX CABLE TYPE
EE1002-40	EE1009-40	TWC-78-2, BC0078-40, TWCH-78-2, 30-02001
EE1002-30	EE1009-30	TWC-78-1, BC0078-30, 30-02003
EE1002-20	EE1009-20	M17/176-00002
EE1002-10	EE1009-10	BC0078-10, TWAC-78-1F2, 30-02002

### TRB CABLE PLUG 3-SLOT MALE FULL CRIMP



EE1005-20



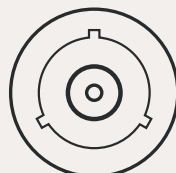
EE1006-20

PART NUMBER	COMPATIBLE TWINAX CABLE TYPE
EE1005-20	Straight Crimp Plug for M17/176-00002
EE1006-20	Right Angle Crimp Plug for M17/176-00002

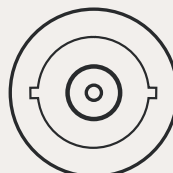
*Crimp tooling  
located on  
page 30.*

### MATING INTERFACES

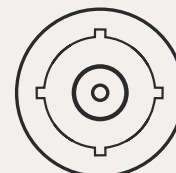
TRB 3-slot plugs and TRB 3-lug jacks are the most common mating interfaces in 1553B applications. Connectors in 2-slot/lug, 4-slot/lug, and threaded mating interfaces are offered. Call to request these alternate mating solutions.



3-SLOT, 3-LUG



2-SLOT, 2-LUG



4-SLOT, 4-LUG



THREADED

# MIL-STD-1553B

## Bulkhead Cable & Panel Jacks

### TRB BULKHEAD CABLE JACK 3-LUG SOLDER/CLAMP (NON-ISOLATED)



**EE1003-XX**  
(D3) (0.160")

**EE1010-XX**  
(D3) (0.160")

JACK	JACK & SPRING	COMPATIBLE TWINAX CABLE TYPE	MOUNT DIMENSION
<b>EE1003-40</b>	<b>EE1010-40</b>	TWC-78-2, BC0078-40, TWCH-78-2, 30-02001	(D3) (0.160")
<b>EE1003-30</b>	<b>EE1010-30</b>	TWC-78-1, BC0078-30, 30-02003	(D3) (0.160")
<b>EE1003-20</b>	<b>EE1010-20</b>	M17/176-00002	(D3) (0.160")
<b>EE1003-10</b>	<b>EE1010-10</b>	BC0078-10, TWAC-78-1F2, 30-02002	(D3) (0.160")

### TRB BULKHEAD CABLE JACK 3-LUG SOLDER/CLAMP (ISOLATED)

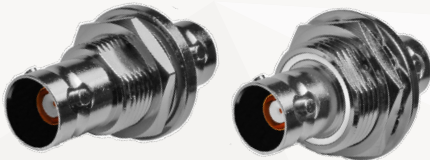


**EE1004-XX**  
(D2) (0.140")

**EE1011-XX**  
(D2) (0.140")

JACK	JACK & SPRING	COMPATIBLE TWINAX CABLE TYPE	MOUNT DIMENSION
<b>EE1004-40</b>	<b>EE1011-40</b>	TWC-78-2, BC0078-40, TWCH-78-2, 30-02001	(D2) (0.140")
<b>EE1004-30</b>	<b>EE1011-30</b>	TWC-78-1, BC0078-30, 30-02003	(D2) (0.140")
<b>EE1004-20</b>	<b>EE1011-20</b>	M17/176-00002	(D2) (0.140")
<b>EE1004-10</b>	<b>EE1011-10</b>	BC0078-10, TWAC-78-1F2, 30-02002	(D2) (0.140")

### TRB 3-LUG FEMALE TO FEMALE BULKHEAD PANEL JACKS

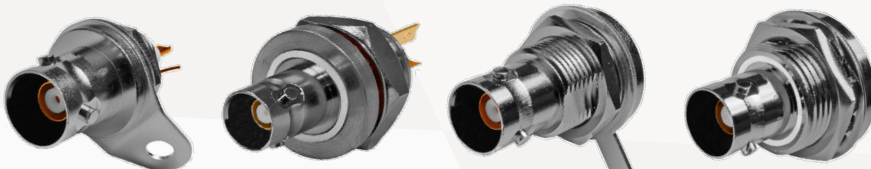


**PJ1001**  
(D3) (0.187")

**PJ1002**  
(D2) (0.140")

PART NUMBER	DESCRIPTION	MOUNT DIMENSION
<b>PJ1001</b>	Non-Isolated	(D3) (0.187")
<b>PJ1002</b>	Isolated	(D2) (0.140")

### TRB 3-LUG FEMALE TO SOLDER POT BULKHEAD PANEL JACKS



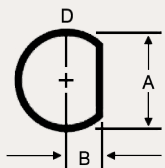
**PJ1003**  
(D4) (0.125")

**PJ1004**  
(D2)(0.140")

**PJ1005**  
(D3) (0.218")

**PJ1006**  
(D2) (0.140")

PART NUMBER	DESCRIPTION	MOUNT DIMENSION
<b>PJ1003</b>	Non-isolated front mount	(D4) (0.125")
<b>PJ1004</b>	Isolated front mount	(D2) (0.140")
<b>PJ1005</b>	Non-isolated rear mount	(D3) (0.218")
<b>PJ1006</b>	Isolated rear mount	(D2) (0.140")



#### MOUNTING HOLE SIZES

D2 = (A) 0.630-0.635" (B) 0.281-0.284"

D3 = (A) 0.505-0.510" (B) 0.218-0.221"

D4 = (A) 0.439-0.443" (B) 0.187-0.190"

(D2) Mounting hole size  
(0.140") Maximum panel thickness in inches  
Shown as (D2)(0.140")

# MIL-STD-1553B TRB Adapters

## TRB STANDARD WITHIN-SERIES ADAPTERS



AD1001



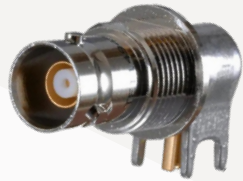
AD1002



AD1003

PART NUMBER	TECHNICAL NOTES
AD1001	TRB 3-lug jack to 3-lug jack barrel
AD1002	TRB 3-lug female - 3-slot male - 3 lug female tee
AD1003	TRB right angle 3-slot male to 3-lug female

## PRINTED CIRCUIT BOARD BULKHEAD JACKS



CBBJR79



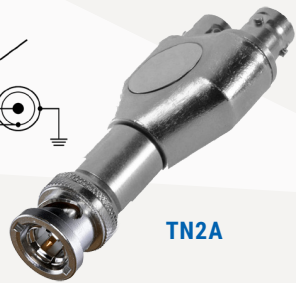
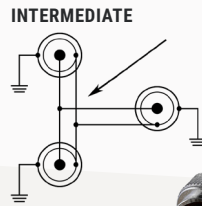
CBBJ79

PART NUMBER	TECHNICAL NOTES	MOUNT DIMENSION
CBBJR79	TRB Right-angle 3-lug jack to circuit board non-isolated	(D3) (0.109")
CBBJ79	TRB Straight 3-lug jack to circuit board non-isolated	(D3) (0.125")

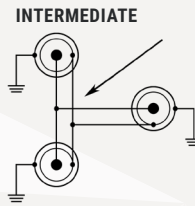
## TRB FIXED PARALLELING JACKS



TN2



TN2A



PART NUMBER	TECHNICAL NOTES
TN2	TRB 3-lug jack to two TRB 3-slot plugs
TN2A	TRB 3-slot plug to two TRB 3-lug jacks

## TRB STANDARD WITHIN-SERIES ADAPTERS



ADPL75-A1-PL75



A1 CIRCUIT  
TWINAX TO  
TWINAX



ADBJ20-E1-PL75



E1 CIRCUIT  
COAX TO  
TWINAX



ADBJ77-E1-PL20



E1 CIRCUIT  
COAX TO  
TWINAX

PART NUMBER	TECHNICAL NOTES
ADPL75-A1-PL75	TRB 3-slot plug to TRB 3-slot plug
ADBJ20-E1-PL75	TRB 3-slot plug to BNC 2-lug jack
ADBJ77-E1-PL20	BNC 2-slot plug to TRB 3-lug jack

## TRB HERMETICALLY-SEALED BULKHEAD JACK



BJ78HS

PART NUMBER	TECHNICAL NOTES	FEATURES	DIMENSIONS
BJ78HS	3-lug female jack feedthrough (non-isolated)	Mounting hole size: See page 27	(D3) (0.187")
		Overall body width - inches (mm)	0.73" (18.54)
		Overall body length - inches (mm)	1.29" (32.77)
		Leak rate max (tracer gas at atmospheric pressure)	1x10-8 cc/sec
		Dielectric withstanding voltage (between circuits)	500 V common mode




# MIL-STD-1553B

## Flange Mount Tee Adapters



**PART NUMBER**  
**FMT1000**



**PART NUMBER**  
**LF-FMT1000** 

TECHNICAL NOTES
TEE ADAPTER CONFIGURATION
STANDARD AND ROHS LEAD-FREE SOLDER MODELS AVAILABLE
STRAIGHT THROUGH WIRING
3-LUG TRB JACKS
FLANGE MOUNT DESIGN, USE THIS PRODUCT IN PLACE OF TEE ADAPTER AD1002

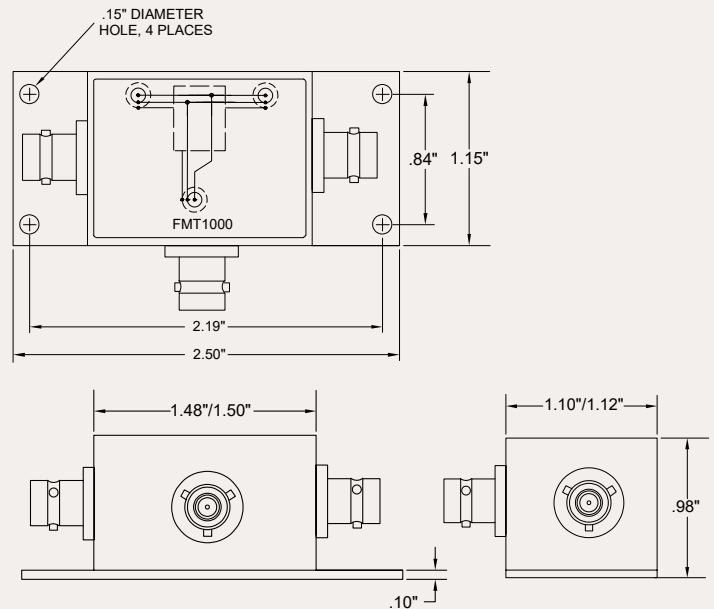
**IF YOU ARE IN NEED OF A TRANSFORMER-COUPLED BUS COUPLER PLEASE REFER TO PAGES 4 - 17**

**1.0 MECHANICAL SPECIFICATIONS:**

- 1.1 HOUSING: DIE CAST A360 ALUMINUM ALLOY, CLEAR ANODIZED, PAINTED WITH TEXTURE, BAKED ENAMEL, COLOR BLUE
- 1.2 BASE PLATE: 6061-T6 ALUMINUM, SATIN FINISH
- 1.3 CONNECTORS: 3-LUG PJ1007 OR EQUIVALENT
- 1.4 MATING CONNECTOR: EE1001-XX OR EQUIVALENT
- 1.5 ENCAPSULATING: EPOXY
- 1.6 DIMENSIONS: NOMINAL
- 1.7 NOMINAL UNIT WEIGHT: 2.60 OUNCES (74.50 GRAMS)

**2.0 ENVIRONMENTAL:**

- 2.1 OPERATING TEMPERATURE: -55C TO +125C



CABLE ASSEMBLIES PAGES 18-23



TERMINATORS PAGE 24



RFI CAPS PAGE 24



CONNECTORS PAGES 26-27



ADAPTERS PAGE 28

# MIL-STD-1553B

## Crimp Tools & Cable Splicing

### TRB & TRS BUSHING/SHIELD CRIMP TOOLS - COMPATIBLE SET



M22520/5-01



Y778 (CD5-8)



Y687 (CD5-9)

PART NUMBER	CRIMP TOOL DESCRIPTION
M22520/5-01	Bushing/Shield Crimp Handle
Y778	TRB Crimp Die Set
Y687	TRS Crimp Die Set

### TRB CENTER CONTACT CRIMP TOOLS - COMPATIBLE SET



M22520/1-01



TP837 (010-0044)



TP838 (010-0045)

PART NUMBER	CRIMP TOOL DESCRIPTION
M22520/1-01	Center Contact Crimp Handle
TP837	TRB Center Pin Positioner
TP838	TRB Center Socket Positioner

### TRS SUBMINIATURE CENTER CONTACT CRIMP TOOLS - COMPATIBLE SET



M22520/2-01



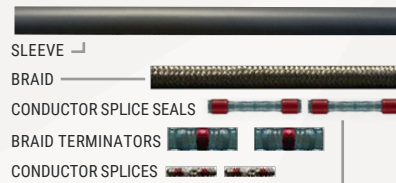
K815-S (010-0041)

PART NUMBER	CRIMP TOOL DESCRIPTION
M22520/2-01	Center Contact Crimp Handle
K815-S	TRS Crimp Die Positioner

### TWINAXIAL CABLE SPLICING TOOLS - COMPATIBLE SET



AD-1377



1553SPlice-KIT

PART NUMBER	DESCRIPTION
AD-1377	Splice Crimp Tool
1553SPlice-KIT	Eight-Piece Splicing Kit

### CRIMP TOOL COMPATIBILITY GUIDE

FULL CRIMP CONNECTOR SERIES	CABLE GROUP	CABLE PART NUMBER	BUSHING/SHIELD CRIMP HANDLE	BUSHING/SHIELD CRIMP DIE SET	CENTER CONTACT CRIMP HANDLE	CENTER CONTACT POSITIONER
<b>TRB Standard</b> EE1005-xx EE1006-xx EE1012-xx	-40	TWC-78-2, BC0078-40, 30-02001	M22520/5-01	Y778	M22520/1-01	TP837 Use for pin contact (plugs)  TP838 Use for socket contact (jacks)
	-30	TWC-78-1, BC0078-30, 30-02003				
	-20	M17/176-00002				
	-10	BC0078-10, TWAC-78-1F2				
<b>TRS Subminiature</b> EE1105-xx EE1106-xx	-30	TWC-78-1, BC0078-30, 30-02003	M22520/5-01	Y687	M22520/2-01	K815-S Use for pin (plugs) & socket (jacks) contacts
	-20	M17/176-00002				
	-10	BC0078-10, TWAC-78-1F2				

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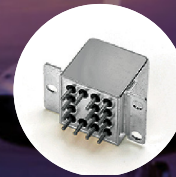
**Interconnect**



**Wire + Cable**



**Harness Management**



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