



MIL-STD-1553B Solutions Product Guide



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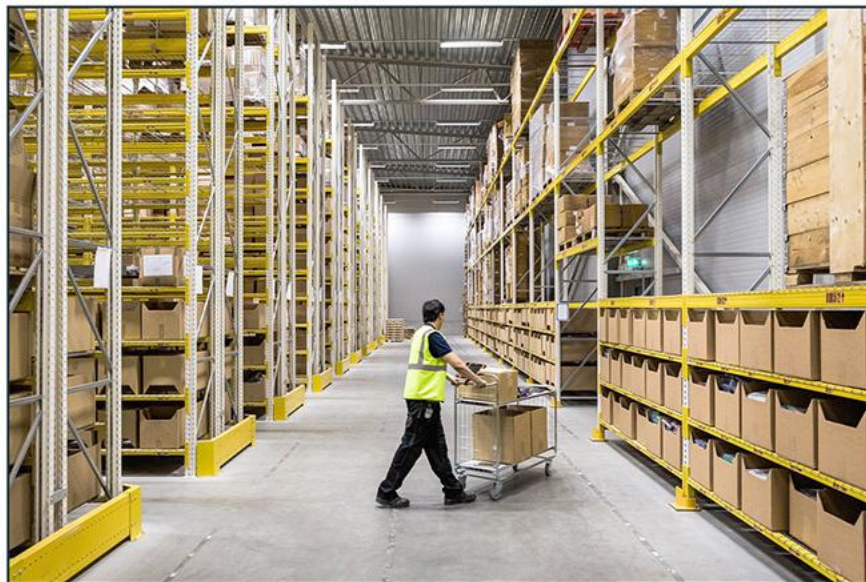
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P: 405.427.6591
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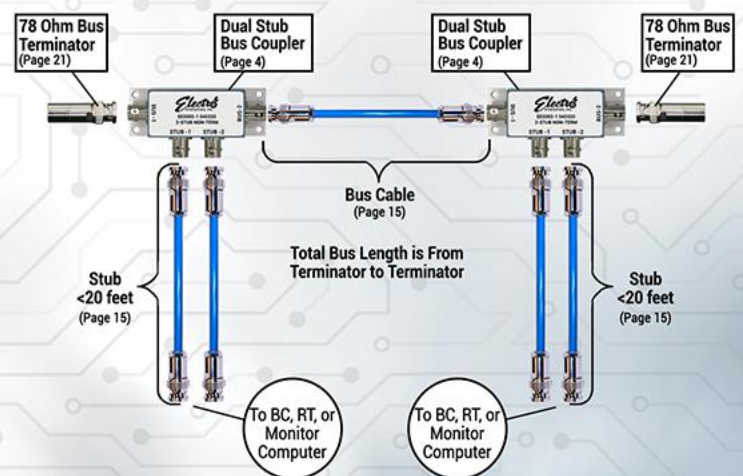
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1-Stub Data Bus Couplers



PART NUMBER	APPLICATION
EE5001-1	Flange Mount
LF5001-1	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Non-terminated
Bus Termination	None



PART NUMBER	APPLICATION
EE5001-2	Flange Mount
LF5001-2	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Single-terminated
Bus 2 Termination	78.7 Ohm $\pm$ 1%, 2W Resistor



PART NUMBER	APPLICATION
EE5001-3	Flange Mount
LF5001-3	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Single-terminated
Bus 2 Termination	78.7 Ohm $\pm$ 1%, 2W Resistor



PART NUMBER	APPLICATION
EE5001-4	Flange Mount
LF5001-4	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Single-terminated
Bus 1 Termination	78.7 Ohm $\pm$ 1%, 2W Resistor



PART NUMBER	APPLICATION
EE5001-5	Flange Mount
LF5001-5	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Single-terminated
Bus 2 Termination	78.7 Ohm $\pm$ 1%, 2W Resistor



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1.0 ELECTRICAL SPECIFICATIONS: IAW MIL-STD 1553B

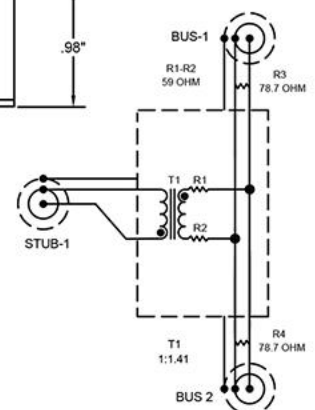
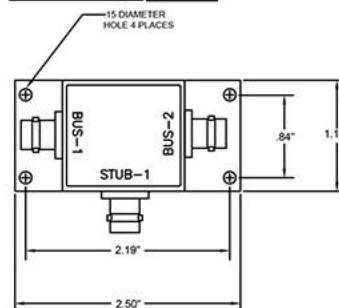
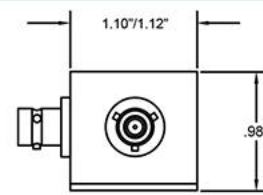
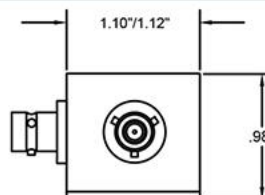
- 1.1 DROOP: 20% MAXIMUM
- 1.2 OVERSHOOT AND RINGING: $\pm$ 1.0V PK-PK
- 1.3 TRANSFORMER RATIO: 1:1.41 STUB TO BUS
- 1.4 FAULT PROTECTION R1-R2: 59 OHM $\pm$ 1%, 2 WATT
PER MIL-R-39007
- 1.5 TERMINATION RESISTOR R3-R4: 78.7 OHM $\pm$ 1%, 2 WATT
PER MIL-R-39007
- 1.6 COMMON MODE REJECTION: -55dB @ 1MHz

2.0 MECHANICAL SPECIFICATIONS:

- 2.1 HOUSING: DIE CAST A360 ALUMINUM ALLOY CLEAR ANODIZED AND PAINTED WITH TEXTURE BAKED ENAMEL, COLOR BLUE
- 2.2 BASE PLATE: 6061-T6 ALUMINUM, SATIN FINISH
- 2.3 BUS AND 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: -55°C TO +125°C



Contact Electro for custom connectorization and configurations.

2-Stub Data Bus Couplers



PART NUMBER	APPLICATION
EE5002-1	Flange Mount
LF5002-1	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Non-terminated
Bus Termination	None



PART NUMBER	APPLICATION
EE5002-2	Flange Mount
LF5002-2	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Single-terminated
Bus 2 Termination	78.7 Ohm $\pm$ 1%, 2W Resistor



PART NUMBER	APPLICATION
EE5002-3	Flange Mount
LF5002-3	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Single-terminated
Bus 2 Termination	78.7 Ohm $\pm$ 1%, 2W Resistor



PART NUMBER	APPLICATION
EE5002-4	Flange Mount
LF5002-4	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Single-terminated
Bus 1 Termination	78.7 Ohm $\pm$ 1%, 2W Resistor



PART NUMBER	APPLICATION
EE5002-5	Flange Mount
LF5002-5	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Stub Jacks	TRB 3-Lug Jacks
Tech Note	Dual-terminated
Bus 1 and Bus 2 Termination	78.7 Ohm $\pm$ 1%, 2W Resistors



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1.0 ELECTRICAL SPECIFICATIONS: IAW MIL-STD 1553B

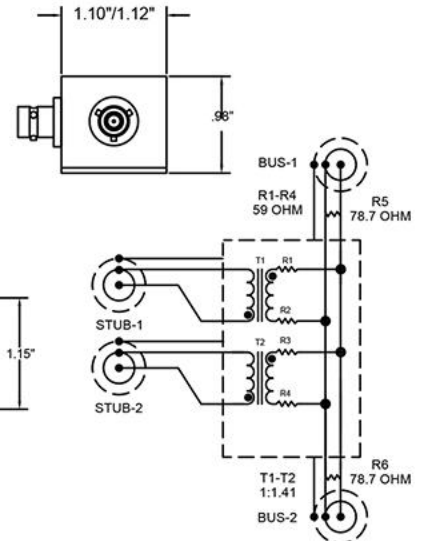
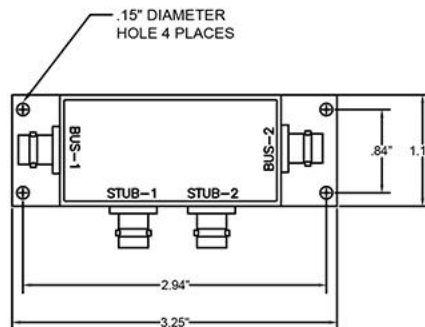
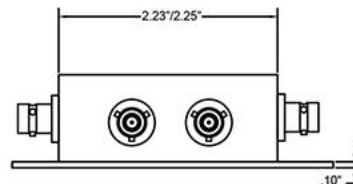
- 1.1 DROOP: 20% MAXIMUM
- 1.2 OVERSHOOT AND RINGING: $\pm$ 1.0V PK-PK
- 1.3 TRANSFORMER RATIO: 1:1.41 STUB TO BUS
- 1.4 FAULT PROTECTION R1-R4: 59 OHM $\pm$ 1%, 2 WATT PER MIL-R-39007
- 1.5 TERMINATION RESISTOR R5-R6: 78.7 OHM $\pm$ 1%, 2 WATT PER MIL-R-39007
- 1.6 COMMON MODE REJECTION: -55dB @ 1MHz

2.0 MECHANICAL SPECIFICATIONS:

- 2.1 HOUSING: DIE CAST A360 ALUMINUM ALLOY CLEAR ANODIZED AND PAINTED WITH TEXTURE BAKED ENAMEL, COLOR BLUE
- 2.2 BASE PLATE: 6061-T6 ALUMINUM, SATIN FINISH
- 2.3 BUS AND 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: -55°C TO +125°C



Contact Electro for custom connectorization and configurations.

3-Stub Data Bus Couplers



PART NUMBER	APPLICATION
EE5003-1	Flange Mount
LF5003-1	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Non-terminated
Bus Termination	None



PART NUMBER	APPLICATION
EE5003-2	Flange Mount
LF5003-2	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Single-terminated
Bus 2 Termination	78.7 Ohm $\pm$ 1%, 2W Resistor



PART NUMBER	APPLICATION
EE5003-3	Flange Mount
LF5003-3	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Single-terminated
Bus 2 Termination	78.7 Ohm $\pm$ 1%, 2W Resistor



PART NUMBER	APPLICATION
EE5003-4	Flange Mount
LF5003-4	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Single-terminated
Bus 1 Termination	78.7 Ohm $\pm$ 1%, 2W Resistor



PART NUMBER	APPLICATION
EE5003-5	Flange Mount
LF5003-5	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Stub Jacks	TRB 3-Lug Jacks
Tech Note	Dual-terminated
Bus 1 and Bus 2 Termination	78.7 Ohm $\pm$ 1%, 2W Resistors



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1.0 ELECTRICAL SPECIFICATIONS: IAW MIL-STD 1553B

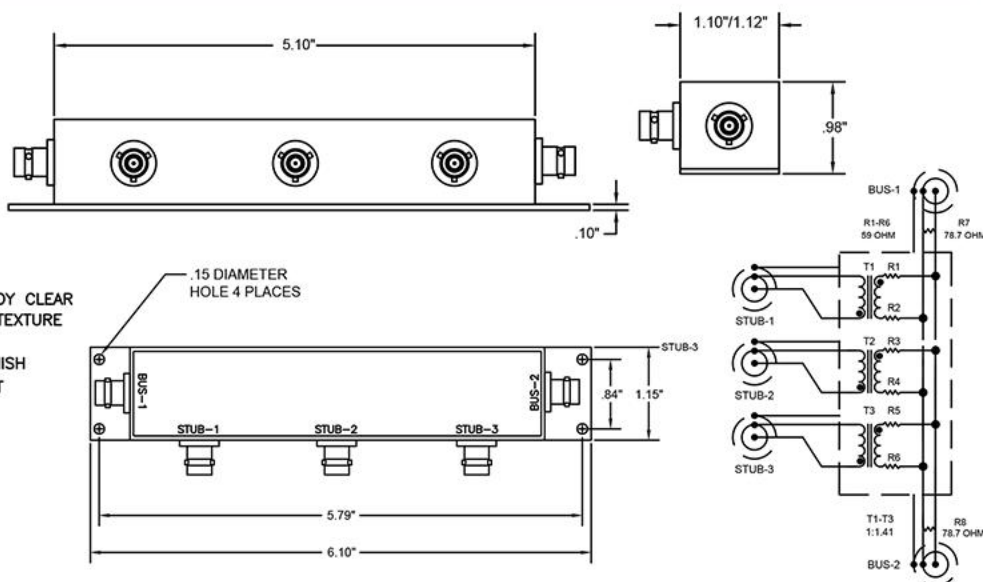
- 1.1 DROOP: 20% MAXIMUM
- 1.2 OVERSHOOT AND RINGING: $\pm$ 1.0V PK-PK
- 1.3 TRANSFORMER RATIO: 1:1.41 STUB TO BUS
- 1.4 FAULT PROTECTION R1-R6: 59 OHM $\pm$ 1%, 2 WATT PER MIL-R-39007
- 1.5 TERMINATION RESISTOR R7-R8: 78.7 OHM $\pm$ 1%, 2 WATT PER MIL-R-39007
- 1.6 COMMON MODE REJECTION: -55dB @ 1MHz

2.0 MECHANICAL SPECIFICATIONS:

- 2.1 HOUSING: DIE CAST A360 ALUMINUM ALLOY CLEAR ANODIZED AND PAINTED WITH TEXTURE BAKED ENAMEL, COLOR BLUE
- 2.2 BASE PLATE: 6061-T6 ALUMINUM, SATIN FINISH
- 2.3 BUS AND 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: -55°C TO +125°C



Contact Electro for custom connectorization and configurations.

4-Stub Data Bus Couplers



PART NUMBER	APPLICATION
EE5004-1	Flange Mount
LF5004-1	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Non-terminated
Bus Termination	None



PART NUMBER	APPLICATION
EE5004-2	Flange Mount
LF5004-2	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Single-terminated
Bus 2 Termination	78.7 Ohm $\pm$ 1%, 2W Resistor



PART NUMBER	APPLICATION
EE5004-3	Flange Mount
LF5004-3	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Single-terminated
Bus 2 Termination	78.7 Ohm $\pm$ 1%, 2W Resistor



PART NUMBER	APPLICATION
EE5004-4	Flange Mount
LF5004-4	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Single-terminated
Bus 1 Termination	78.7 Ohm $\pm$ 1%, 2W Resistor



PART NUMBER	APPLICATION
EE5004-5	Flange Mount
LF5004-5	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Stub Jacks	TRB 3-Lug Jacks
Tech Note	Dual-terminated
Bus 1 and Bus 2 Termination	78.7 Ohm $\pm$ 1%, 2W Resistors



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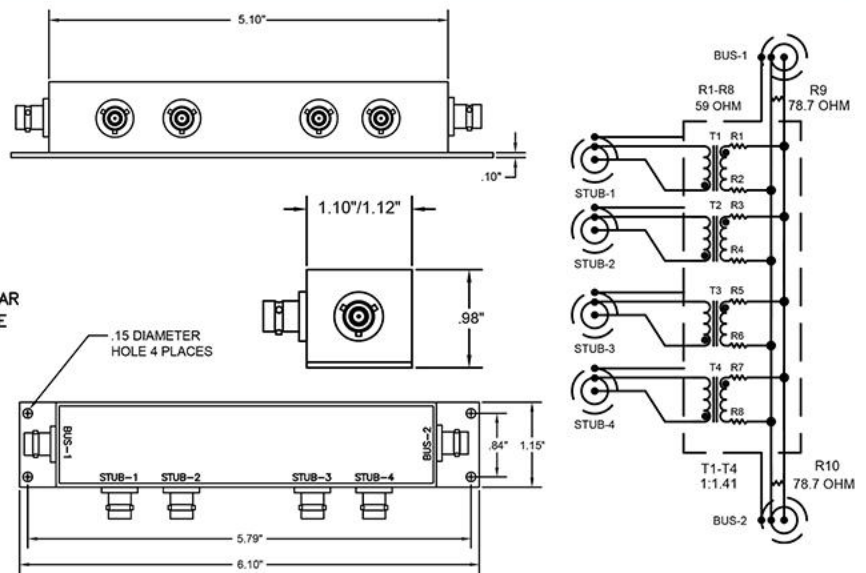
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1.0 ELECTRICAL SPECIFICATIONS: IAW MIL-STD 1553B

- 1.1 DROOP: 20% MAXIMUM
 1.2 OVERSHOOT AND RINGING: $\pm$ 1.0V PK-PK
 1.3 TRANSFORMER RATIO: 1:1.41 STUB TO BUS
 1.4 FAULT PROTECTION R1-R8: 59 OHM $\pm$ 1%, 2 WATT PER MIL-R-39007
 1.5 TERMINATION RESISTOR R9-R10: 78.7 OHM $\pm$ 1%, 2 WATT PER MIL-R-39007
 1.6 COMMON MODE REJECTION: -55dB @ 1MHz

2.0 MECHANICAL SPECIFICATIONS:

- 2.1 HOUSING: DIE CAST A360 ALUMINUM ALLOY CLEAR ANODIZED AND PAINTED WITH TEXTURE
 2.2 BASE PLATE: BAKED ENAMEL, COLOR BLUE
 2.3 BUS AND STUB CONNECTOR: 6061-T6 ALUMINUM, SATIN FINISH
 2.4 MATING CONNECTOR: 3-LUG PJ1007 OR EQUIVALENT
 2.5 ENCAPSULATING: EE1001-XX OR EQUIVALENT
 2.6 DIMENSIONS: EPOXY
 2.7 NOMINAL UNIT WEIGHT: NOMINAL
 2.8 NOMINAL UNIT WEIGHT: 6.70 OUNCES (189.94 GRAMS)
 3.0 ENVIRONMENTAL:
 3.1 OPERATING TEMPERATURE: -55°C TO +125°C



Contact Electro for custom connectorization and configurations.

5-Stub Data Bus Couplers



PART NUMBER	APPLICATION
EE5005-1	Flange Mount
LF5005-1	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Non-terminated
Bus Termination	None



PART NUMBER	APPLICATION
EE5005-2	Flange Mount
LF5005-2	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Single-terminated
Bus 2 Termination	78.7 Ohm $\pm$ 1%, 2W Resistor



PART NUMBER	APPLICATION
EE5005-3	Flange Mount
LF5005-3	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Single-terminated
Bus 2 Termination	78.7 Ohm $\pm$ 1%, 2W Resistor



PART NUMBER	APPLICATION
EE5005-4	Flange Mount
LF5005-4	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Single-terminated
Bus 1 Termination	78.7 Ohm $\pm$ 1%, 2W Resistor



PART NUMBER	APPLICATION
EE5005-5	Flange Mount
LF5005-5	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Stub Jacks	TRB 3-Lug Jacks
Tech Note	Dual-terminated
Bus 1 and Bus 2 Termination	78.7 Ohm $\pm$ 1%, 2W Resistors



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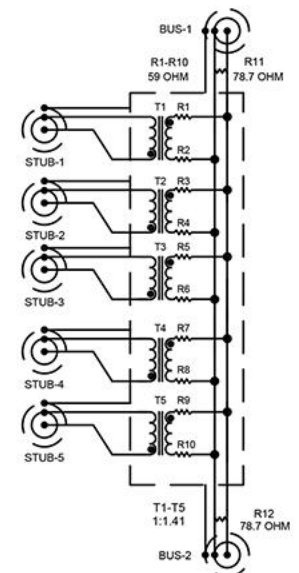
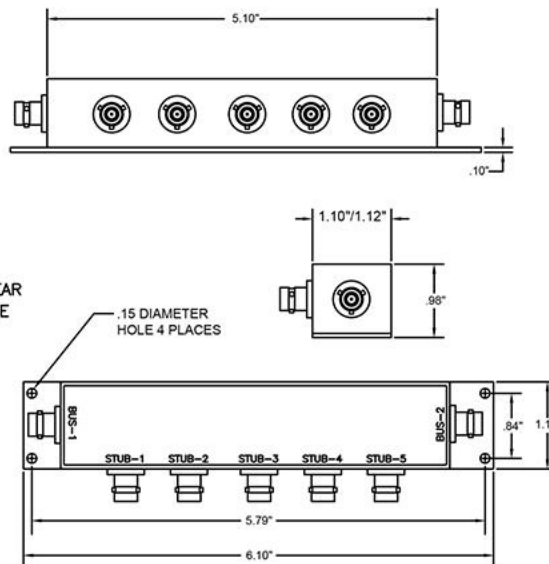
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1.0 ELECTRICAL SPECIFICATIONS: IAW MIL-STD 1553B

- 1.1 DROOP: 20% MAXIMUM
- 1.2 OVERSHOOT AND RINGING: $\pm$ 1.0V PK-PK
- 1.3 TRANSFORMER RATIO: 1:1.41 STUB TO BUS
- 1.4 FAULT PROTECTION R1-R10: 59 OHM $\pm$ 1%, 2 WATT
PER MIL-R-39007
- 1.5 TERMINATION RESISTOR R11-R12: 78.7 OHM $\pm$ 1%, 2 WATT
PER MIL-R-39007
- 1.6 COMMON MODE REJECTION: -55dB @ 1MHz

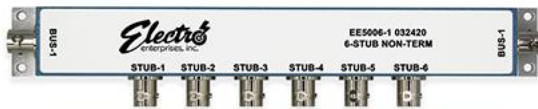
2.0 MECHANICAL SPECIFICATIONS:

- 2.1 HOUSING: DIE CAST A360 ALUMINUM ALLOY CLEAR ANODIZED AND PAINTED WITH TEXTURE BAKED ENAMEL, COLOR BLUE
- 2.2 BASE PLATE: 6061-T6 ALUMINUM, SATIN FINISH
- 2.3 BUS AND STUB CONNECTOR: 3-LUG PJ1007 OR EQUIVALENT
- 2.4 MATING CONNECTOR: EE1001-XX OR EQUIVALENT
- 2.5 ENCAPSULATING: EPOXY
- 2.6 DIMENSION: NOMINAL
- 2.7 NOMINAL UNIT WEIGHT: 6.90 OUNCES (195.61 GRAMS)
- 3.0 ENVIRONMENTAL:
- 3.1 OPERATING TEMPERATURE: -55°C TO +125°C



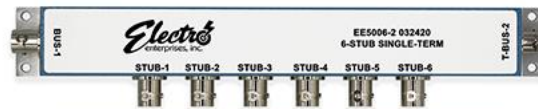
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6-Stub Data Bus Couplers



PART NUMBER	APPLICATION
EE5006-1	Flange Mount
LF5006-1	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Non-terminated
Bus Termination	None



PART NUMBER	APPLICATION
EE5006-2	Flange Mount
LF5006-2	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Single-terminated
Bus 2 Termination	78.7 Ohm $\pm$ 1%, 2W Resistor



PART NUMBER	APPLICATION
EE5006-3	Flange Mount
LF5006-3	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Single-terminated
Bus 2 Termination	78.7 Ohm $\pm$ 1%, 2W Resistor



PART NUMBER	APPLICATION
EE5006-4	Flange Mount
LF5006-4	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Single-terminated
Bus 1 Termination	78.7 Ohm $\pm$ 1%, 2W Resistor



PART NUMBER	APPLICATION
EE5006-5	Flange Mount
LF5006-5	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Stub Jacks	TRB 3-Lug Jacks
Tech Note	Dual-terminated
Bus 1 and Bus 2 Termination	78.7 Ohm $\pm$ 1%, 2W Resistors



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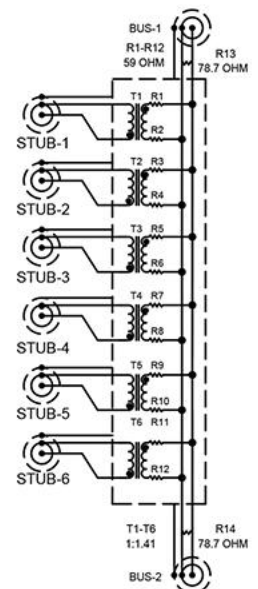
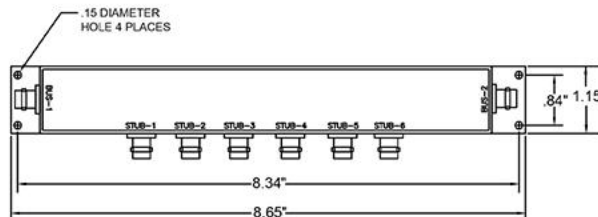
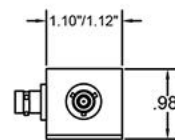
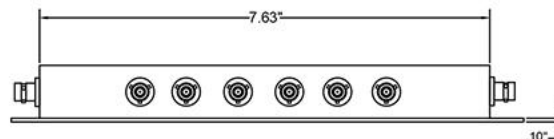
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1.0 ELECTRICAL SPECIFICATIONS: IAW MIL-STD 1553B

- | | |
|-----------------------------------|--|
| 1.1 DROOP: | 20% MAXIMUM |
| 1.2 OVERSHOOT AND RINGING: | +/- 1.0V PK-PK |
| 1.3 TRANSFORMER RATIO: | 1:1.41 STUB TO BUS |
| 1.4 FAULT PROTECTION R1-R12: | 59 OHM +/- 1%, 2 WATT
PER MIL-R-39007 |
| 1.5 TERMINATION RESISTOR R13-R14: | 78.7 OHM +/- 1%, 2 WATT
PER MIL-R-39007 |
| 1.6 COMMON MODE REJECTION: | -55dB @ 1MHz |

2.0 MECHANICAL SPECIFICATIONS:

- | | |
|-----------------------------|---|
| 2.1 HOUSING: | DIE CAST A360 ALUMINUM ALLOY CLEAR ANODIZED AND PAINTED WITH TEXTURE BAKED ENAMEL, COLOR BLUE |
| 2.2 BASE PLATE: | 6061-T6 ALUMINUM, SATIN FINISH |
| 2.3 BUS AND 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: -55°C TO +125°C



Contact Electro for custom connectorization and configurations.

8-Stub Data Bus Couplers



PART NUMBER	APPLICATION
EE5008-1	Flange Mount
LF5008-1	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Non-terminated
Bus Termination	None



PART NUMBER	APPLICATION
EE5008-2	Flange Mount
LF5008-2	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Single-terminated
Bus 2 Termination	78.7 Ohm $\pm$ 1%, 2W Resistor



PART NUMBER	APPLICATION
EE5008-3	Flange Mount
LF5008-3	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Single-terminated
Bus 2 Termination	78.7 Ohm $\pm$ 1%, 2W Resistor



PART NUMBER	APPLICATION
EE5008-4	Flange Mount
LF5008-4	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Bus & Stub Jacks	TRB 3-Lug Jacks
Tech Note	Single-terminated
Bus 1 Termination	78.7 Ohm $\pm$ 1%, 2W Resistor



PART NUMBER	APPLICATION
EE5008-5	Flange Mount
LF5008-5	Flange Mount ✓ RoHS

DESCRIPTION	TECH NOTES
Stub Jacks	TRB 3-Lug Jacks
Tech Note	Dual-terminated
Bus 1 and Bus 2 Termination	78.7 Ohm $\pm$ 1%, 2W Resistors



Cable Assemblies
pages 15-20



Terminators
page 21



RFI Caps
page 21



Adapters
page 22



Connectors
page 24-25

1.0 ELECTRICAL SPECIFICATIONS: IAW MIL-STD 1553B

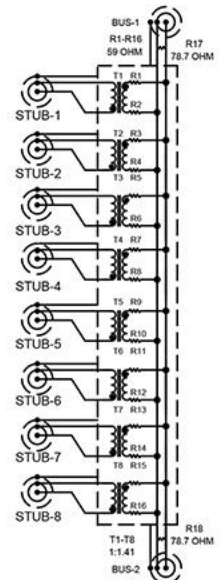
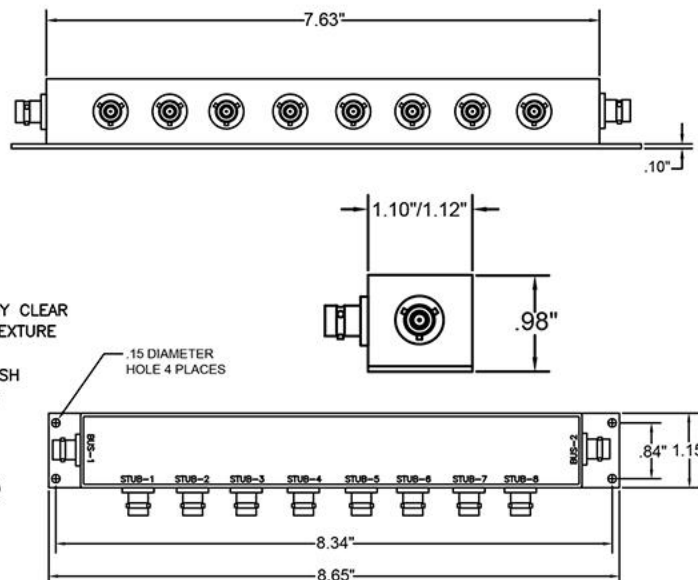
- 1.1 DROOP: 20% MAXIMUM
- 1.2 OVERSHOOT AND RINGING: $\pm$ 1.0V PK-PK
- 1.3 TRANSFORMER RATIO: 1:1.41 STUB TO BUS
- 1.4 FAULT PROTECTION R1-R16: 59 OHM $\pm$ 1%, 2 WATT
PER MIL-R-39007
- 1.5 TERMINATION RESISTOR R17-R18: 78.7 OHM $\pm$ 1%, 2 WATT
PER MIL-R-39007
- 1.6 COMMON MODE REJECTION: -5dB @ 1MHz

2.0 MECHANICAL SPECIFICATIONS:

- 2.1 HOUSING: DIE CAST A360 ALUMINUM ALLOY CLEAR ANODIZED AND PAINTED WITH TEXTURE BAKED ENAMEL, COLOR BLUE
- 2.2 BASE PLATE: 6061-T6 ALUMINUM, SATIN FINISH
- 2.3 BUS AND 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:

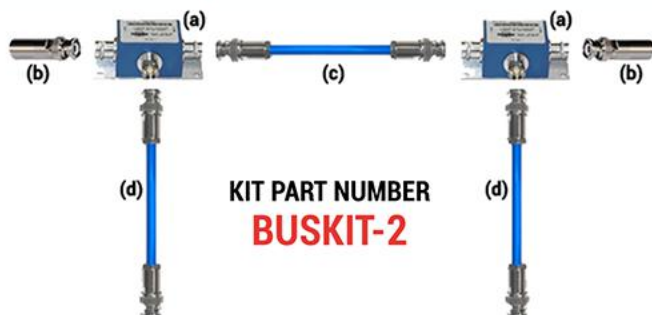
- 3.1 OPERATING TEMPERATURE: -55°C TO +125°C



Contact Electro for custom connectorization and configurations.

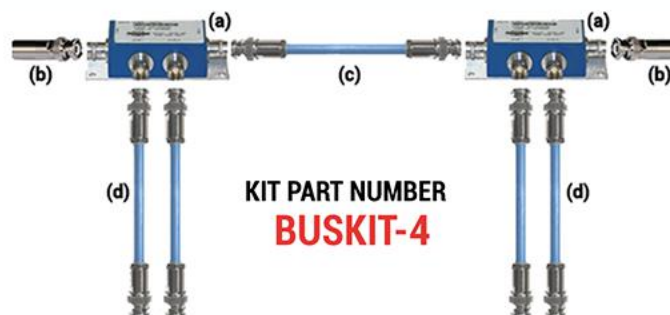
Kits, Bus/Scope Cables

Data Bus Coupler Kits - 2 Terminal & 4 Terminal



**KIT PART NUMBER
BUSKIT-2**

QUANTITY	COMPONENTS IN KIT	PART NUMBER
2 Each	1-Stub Bus Couplers (a)	EE5001-1
2 Each	Bus Terminators (b)	T00378-1
1 Each	Bus Cable Assembly (c)	CA-103A103-72
2 Each	Stub Cable Assemblies (d)	CA-103A103-48



**KIT PART NUMBER
BUSKIT-4**

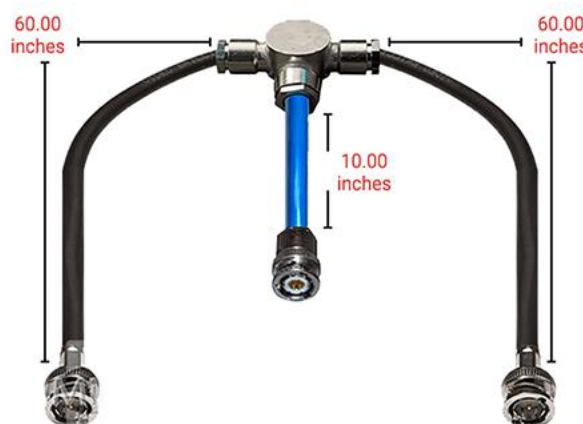
QUANTITY	COMPONENTS IN KIT	PART NUMBER
2 Each	2-Stub Bus Couplers (a)	EE5002-1
2 Each	Bus Terminators (b)	T00378-1
1 Each	Bus Cable Assembly (c)	CA-103A103-72
4 Each	Stub Cable Assemblies (d)	CA-103A103-48

Bus/Scope Test Cables



**PART NUMBER
1553SCOPE-60**

FEATURE	SPECIFICATION
Coaxial Cable	75 Ohm, 6.00 Inches, BNC Plugs
Twinaxial Cable	78 Ohm, 60.00 Inches, TRB Plug



**PART NUMBER
1553SCOPE-10**

FEATURE	SPECIFICATION
Coaxial Cable	75 Ohm, 60.00 Inches, BNC Plugs
Twinaxial Cable	78 Ohm, 10.00 Inches, TRB Plug

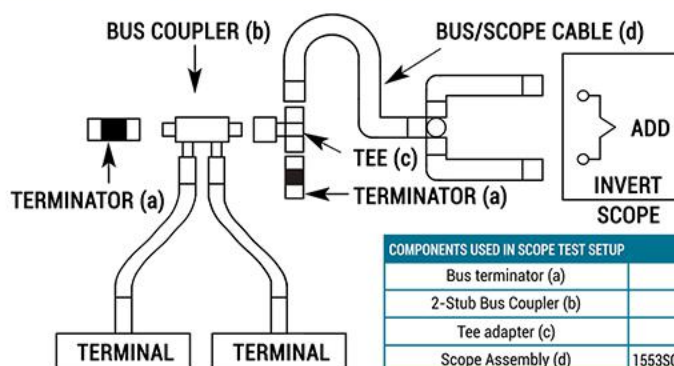
CUSTOM BUS KITS

Electro Enterprises 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 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.



COMPONENTS USED IN SCOPE TEST SETUP	PART NUMBER
Bus terminator (a)	T00378-1
2-Stub Bus Coupler (b)	EE5002-1
Tee adapter (c)	AD1002
Scope Assembly (d)	1553SCOPE-60 or 1553SCOPE-10

Contact Electro for additional connector, cable and length configurations.

1-Stub Inline Bus Couplers



PART NUMBER	APPLICATION	LEAD LENGTH
IC6101-12	Vehicle	12 Inches
ICLF6101-03	Vehicle ✓ RoHS	30 Centimeters

DESCRIPTION	TECH NOTES
Bus & Stub Leads	M17/176-00002 Blunt Ends
Bus Termination	Non-terminated
Nominal Unit Weight	1.50 oz (42.52 g)



PART NUMBER	APPLICATION	LEAD LENGTH
IC6102-12	Vehicle	12 Inches
ICLF6102-03	Vehicle ✓ RoHS	30 Centimeters

DESCRIPTION	TECH NOTES
Bus & Stub Leads	M17/176-00002 Blunt Ends
Right Bus Termination	78.7 Ohm $\pm$ 1%, 2W Resistor
Nominal Unit Weight	1.10 oz (31.18 g)



PART NUMBER	APPLICATION	LEAD LENGTH
IC6103-12	Vehicle	12 Inches
ICLF6103-03	Vehicle ✓ RoHS	30 Centimeters

DESCRIPTION	TECH NOTES
Bus & Stub Leads	M17/176-00002 Blunt Ends
Left Bus Termination	78.7 Ohm $\pm$ 1%, 2W Resistor
Nominal Unit Weight	1.10 oz (31.18 g)



PART NUMBER	APPLICATION	LEAD LENGTH
IC6104-12	Vehicle	12 Inches
ICLF6104-03	Vehicle ✓ RoHS	30 Centimeters

DESCRIPTION	TECH NOTES
Stub Lead	M17/176-00002 Blunt End
Dual Bus Termination	78.7 Ohm $\pm$ 1%, 2W Resistors
Nominal Unit Weight	0.70 oz (19.74 g)



Full Crimp and Solder Clamp Connectors
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Bulkhead Cable Jacks
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Crimp Tools and Splicing Kit
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1.0 ELECTRICAL SPECIFICATIONS: IAW MIL-STD-1553B

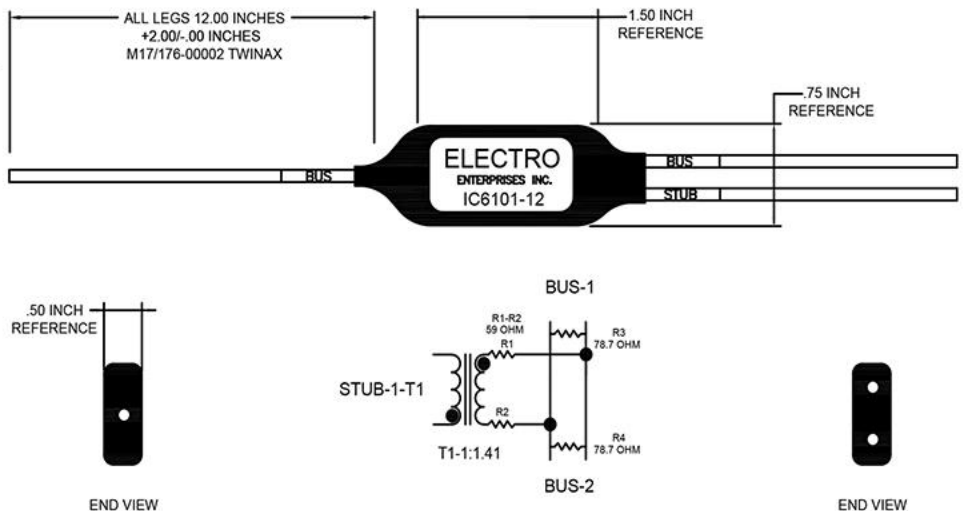
- 1.1 DROOP: 20% MAXIMUM
- 1.2 OVERSHOOT AND RINGING: $\pm$ 1.0V PK-PK
- 1.3 TRANSFORMER RATIO: 1:1.41 STUB TO BUS
- 1.4 FAULT PROTECTION R1-R2: 59 OHM $\pm$ 1%, 2 WATT
- 1.5 TERMINATION RESISTOR R3-R4: 78.7 OHM $\pm$ 1%, 2 WATT
- 1.6 COMMON MODE REJECTION: -55dB @ 1MHz

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: -55°C TO +125°C
- 3.2 MANUFACTURED PER: MIL-STD-202G



Contact Electro for custom connectorization and configurations.

2-Stub Inline Bus Couplers



PART NUMBER	APPLICATION	LEAD LENGTH
IC6201-12	Vehicle	12 Inches
ICLF6201-03	Vehicle ✓ RoHS	30 Centimeters

DESCRIPTION	TECH NOTES
Bus & Stub Leads	M17/176-00002 Blunt Ends
Bus Termination	Non-terminated
Nominal Unit Weight	1.90 oz (53.86 g)



PART NUMBER	APPLICATION	LEAD LENGTH
IC6202-12	Vehicle	12 Inches
ICLF6202-03	Vehicle ✓ RoHS	30 Centimeters

DESCRIPTION	TECH NOTES
Bus & Stub Leads	M17/176-00002 Blunt Ends
Right Bus Termination	78.7 Ohm $\pm$ 1%, 2W Resistor
Nominal Unit Weight	1.50 oz (42.52 g)



PART NUMBER	APPLICATION	LEAD LENGTH
IC6203-12	Vehicle	12 Inches
ICLF6203-03	Vehicle ✓ RoHS	30 Centimeters

DESCRIPTION	TECH NOTES
Bus & Stub Leads	M17/176-00002 Blunt Ends
Right Bus Termination	78.7 Ohm $\pm$ 1%, 2W Resistor
Nominal Unit Weight	1.50 oz (42.52 g)



PART NUMBER	APPLICATION	LEAD LENGTH
IC6204-12	Vehicle	12 Inches
ICLF6204-03	Vehicle ✓ RoHS	30 Centimeters

DESCRIPTION	TECH NOTES
Stub Leads	M17/176-00002 Blunt Ends
Dual Bus Termination	78.7 Ohm $\pm$ 1%, 2W Resistors
Nominal Unit Weight	1.10 oz (31.18 g)



PART NUMBER	APPLICATION	LEAD LENGTH
IC6205-12	Vehicle	12 Inches
ICLF6205-03	Vehicle ✓ RoHS	30 Centimeters

DESCRIPTION	TECH NOTES
Stub Leads	M17/176-00002 Blunt Ends
Dual Bus Termination	78.7 Ohm $\pm$ 1%, 2W Resistors
Nominal Unit Weight	1.10 oz (31.18 g)



Full Crimp and Solder Clamp Connectors
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Bulkhead Cable Jacks
page 25



Crimp Tools and Splicing Kit
page 26

1.0 ELECTRICAL SPECIFICATIONS: IAW MIL-STD-1553B

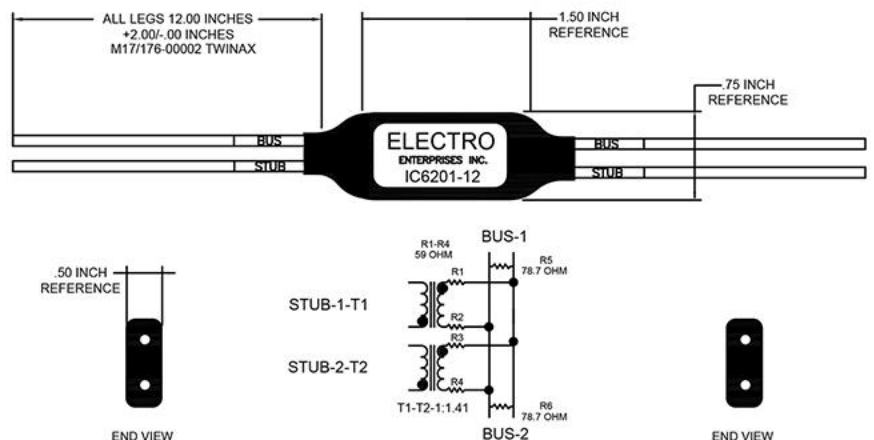
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|---------------------------------|-------------------------|
| 1.1 DROOP: | 20% MAXIMUM |
| 1.2 OVERSHOOT AND RINGING: | +/- 1.0V PK-PK |
| 1.3 TRANSFORMER RATIO: | 1:1.41 STUB TO BUS |
| 1.4 FAULT PROTECTION R1-R4: | 59 OHM +/- 1%, 2 WATT |
| 1.5 TERMINATION RESISTOR R5-R6: | 78.7 OHM +/- 1%, 2 WATT |
| 1.6 COMMON MODE REJECTION: | -55dB @ 1MHz |

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: | -55°C TO +125°C |
| 3.2 MANUFACTURED PER: | MIL-STD-202G |



Contact Electro for custom connectorization and configurations.

3-Stub Inline Bus Couplers



PART NUMBER	APPLICATION	LEAD LENGTH
IC6301-12	Vehicle	12 Inches
ICLF6301-03	Vehicle ✓ RoHS	30 Centimeters



PART NUMBER	APPLICATION	LEAD LENGTH
IC6302-12	Vehicle	12 Inches
ICLF6302-03	Vehicle ✓ RoHS	30 Centimeters



PART NUMBER	APPLICATION	LEAD LENGTH
IC6303-12	Vehicle	12 Inches
ICLF6303-03	Vehicle ✓ RoHS	30 Centimeters

DESCRIPTION	TECH NOTES
Bus & Stub Leads	M17/176-00002 Blunt Ends
Bus Termination	Non-terminated
Nominal Unit Weight	2.70 oz (76.54 g)

DESCRIPTION	TECH NOTES
Bus & Stub Leads	M17/176-00002 Blunt Ends
Right Bus Termination	78.7 Ohm $\pm$ 1%, 2W Resistor
Nominal Unit Weight	2.30 oz (65.20 g)

DESCRIPTION	TECH NOTES
Bus & Stub Leads	M17/176-00002 Blunt Ends
Right Bus Termination	78.7 Ohm $\pm$ 1%, 2W Resistor
Nominal Unit Weight	2.30 oz (65.20 g)



PART NUMBER	APPLICATION	LEAD LENGTH
IC6304-12	Vehicle	12 Inches
ICLF6304-03	Vehicle ✓ RoHS	30 Centimeters



PART NUMBER	APPLICATION	LEAD LENGTH
IC6305-12	Vehicle	12 Inches
ICLF6305-03	Vehicle ✓ RoHS	30 Centimeters



PART NUMBER	APPLICATION	LEAD LENGTH
IC6306-12	Vehicle	12 Inches
ICLF6306-03	Vehicle ✓ RoHS	30 Centimeters

DESCRIPTION	TECH NOTES
Bus & Stub Leads	M17/176-00002 Blunt Ends
Right Bus Termination	78.7 Ohm $\pm$ 1%, 2W Resistor
Nominal Unit Weight	2.30 oz (65.20 g)

DESCRIPTION	TECH NOTES
Stub Leads	M17/176-00002 Blunt Ends
Dual Bus Termination	78.7 Ohm $\pm$ 1%, 2W Resistors
Nominal Unit Weight	1.90 oz (53.86 g)

DESCRIPTION	TECH NOTES
Stub Leads	M17/176-00002 Blunt Ends
Dual Bus Termination	78.7 Ohm $\pm$ 1%, 2W Resistors
Nominal Unit Weight	1.90 oz (53.86 g)



Full Crimp and Solder Clamp Connectors
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Bulkhead Cable Jacks
page 25



Crimp Tools and Splicing Kit
page 26

1.0 ELECTRICAL SPECIFICATIONS: IAW MIL-STD-1553B

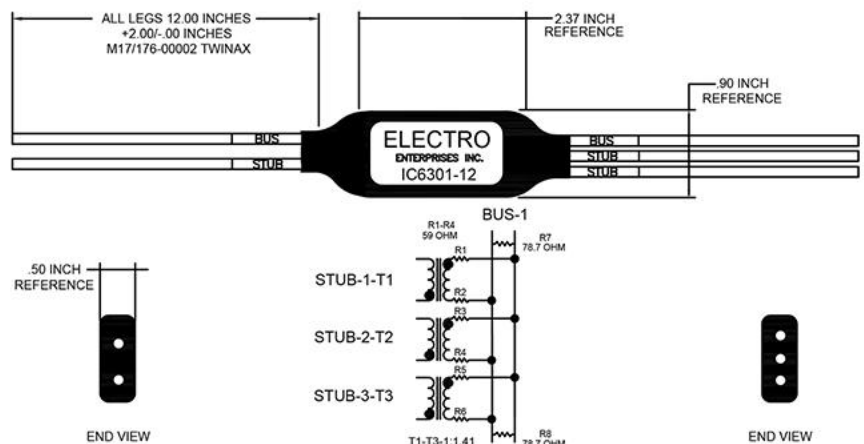
- 1.1 DROOP: 20% MAXIMUM
- 1.2 OVERSHOOT AND RINGING: $\pm$ 1.0V PK-PK
- 1.3 TRANSFORMER RATIO: 1:1.41 STUB TO BUS
- 1.4 FAULT PROTECTION R1-R6: 59 OHM $\pm$ 1%, 2 WATT
- 1.5 TERMINATION RESISTOR R7-R8: 78.7 OHM $\pm$ 1%, 2 WATT
- 1.6 COMMON MODE REJECTION: -55dB @ 1MHz

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: -55°C TO +125°C
- 3.2 MANUFACTURED PER: MIL-STD-202G



Contact Electro for custom connectorization and configurations.

4-Stub Inline Bus Couplers



PART NUMBER	APPLICATION	LEAD LENGTH
IC6401-12	Vehicle	12 Inches
ICLF6401-03	Vehicle ✓ RoHS	30 Centimeters

DESCRIPTION	TECH NOTES
Bus & Stub Leads	M17/176-00002 Blunt Ends
Bus Termination	Non-terminated
Nominal Unit Weight	3.10 oz (87.88 g)



PART NUMBER	APPLICATION	LEAD LENGTH
IC6402-12	Vehicle	12 Inches
ICLF6402-03	Vehicle ✓ RoHS	30 Centimeters

DESCRIPTION	TECH NOTES
Bus & Stub Leads	M17/176-00002 Blunt Ends
Right Bus Termination	78.7 Ohm $\pm$ 1%, 2W Resistor
Nominal Unit Weight	2.70 oz (76.54 g)



PART NUMBER	APPLICATION	LEAD LENGTH
IC6403-12	Vehicle	12 Inches
ICLF6403-03	Vehicle ✓ RoHS	30 Centimeters

DESCRIPTION	TECH NOTES
Bus & Stub Leads	M17/176-00002 Blunt Ends
Right Bus Termination	78.7 Ohm $\pm$ 1%, 2W Resistor
Nominal Unit Weight	2.70 oz (76.54 g)



PART NUMBER	APPLICATION	LEAD LENGTH
IC6404-12	Vehicle	12 Inches
ICLF6404-03	Vehicle ✓ RoHS	30 Centimeters

DESCRIPTION	TECH NOTES
Stub Leads	M17/176-00002 Blunt Ends
Dual Bus Termination	78.7 Ohm $\pm$ 1%, 2W Resistors
Nominal Unit Weight	2.30 oz (65.20 g)



PART NUMBER	APPLICATION	LEAD LENGTH
IC6405-12	Vehicle	12 Inches
ICLF6405-03	Vehicle ✓ RoHS	30 Centimeters

DESCRIPTION	TECH NOTES
Stub Leads	M17/176-00002 Blunt Ends
Dual Bus Termination	78.7 Ohm $\pm$ 1%, 2W Resistors
Nominal Unit Weight	2.30 oz (65.20 g)



Full Crimp and Solder Clamp Connectors
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Bulkhead Cable Jacks
page 25



Crimp Tools and Splicing Kit
page 26

1.0 ELECTRICAL SPECIFICATIONS: IAW MIL-STD-1553B

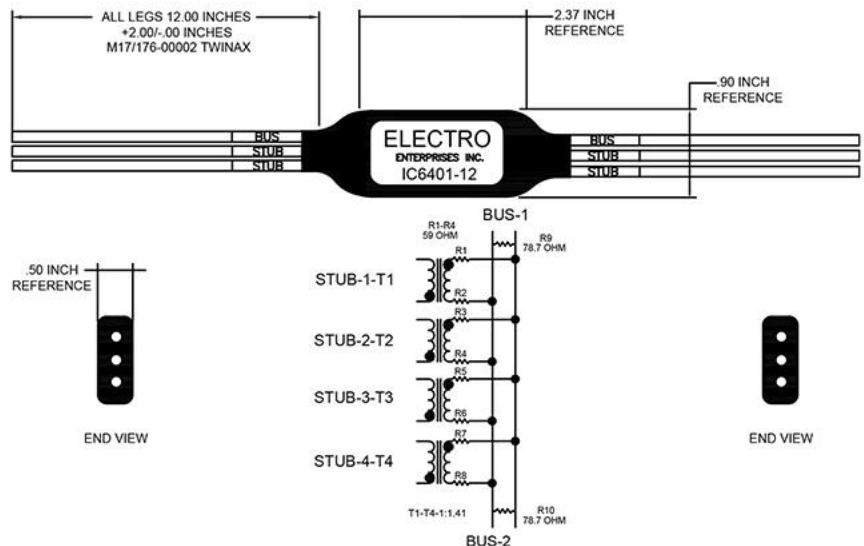
- | | |
|----------------------------------|-------------------------|
| 1.1 DROOP: | 20% MAXIMUM |
| 1.2 OVERSHOOT AND RINGING: | +/- 1.0V PK-PK |
| 1.3 TRANSFORMER RATIO: | 1:1.41 STUB TO BUS. |
| 1.4 FAULT PROTECTION R1-R8: | 59 OHM +/- 1%, 2 WATT |
| 1.5 TERMINATION RESISTOR R9-R10: | 78.7 OHM +/- 1%, 2 WATT |
| 1.6 COMMON MODE REJECTION: | -55dB @ 1MHz |

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: | -55°C TO +125°C |
| 3.2 MANUFACTURED PER: | MIL-STD-202G |



Contact Electro for custom connectorization and configurations.

78-Ohm 1553B Twinax Cables

x = cable length in inches

CA-103A103-120 = 10 ft (120 inches) cable assembly



	TRB CABLE PLUGS	3-SLOT	SOLDER/CLAMP	MALE-TO-MALE	
PART NUMBER	CABLE TYPE	JACKET	CABLE O.D. (INCHES)	APPLICATION	
CA-103A103-x	TWC-78-2	PVC	0.242	LAB	
CA-103C103-x	TWC-78-1	PVC	0.150	LAB	
CA-103B103-x	M17/176-00002	Teflon PFA	0.129	HIGH TEMP	
CA-103D103-x	BC0078-10, TWAC-78-1F2	FEP	0.095	HIGH TEMP	

Standard lengths (in inches) include: 12, 24, 36, 48, 60, 72, 84, 120, 144, 180, 240, 300, 600

x = cable length in inches

CA-109B109-120 = 10 ft (120 inches) cable assembly



	TRB CABLE PLUGS	3-SLOT	FULL CRIMP	MALE-TO-MALE	
PART NUMBER	CABLE TYPE	JACKET	CABLE O.D. (INCHES)	APPLICATION	
CA-109B109-x	M17/176-00002	Teflon PFA	0.129	HIGH TEMP	
CA-109A109-x	TWC-78-2	PVC	0.242	LAB	
CA-109C109-x	TWC-78-1	PVC	0.150	LAB	

Standard lengths (in inches) include: 12, 24, 36, 48, 60, 72, 84, 120, 144, 180, 240, 300, 600

Contact Electro for additional connector, cable and length configurations.

78-Ohm 1553B Twinax Cables

*built with RoHS Compliant Components and Lead-Free Solder***x = cable length in meters**

LF-103A103-03M = 30 Centimeter cable assembly ✓

LF-103A103-5M = 5 Meter cable assembly ✓

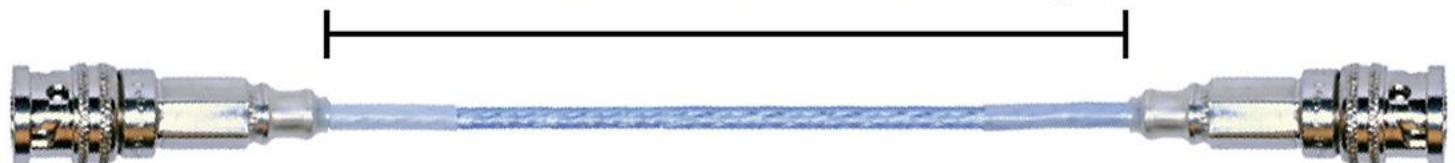


TRB CABLE PLUGS		3-SLOT	SOLDER/CLAMP	MALE-TO-MALE
PART NUMBER	CABLE TYPE	JACKET	CABLE O.D. (INCHES)	APPLICATION
LF-103A103-x	TWC-78-2	PVC	0.242	RoHS LAB ✓
LF-103C103-x	TWC-78-1	PVC	0.150	RoHS LAB ✓
LF-103B103-x	M17/176-00002	Teflon PFA	0.129	RoHS HIGH TEMP ✓
LF-103D103-x	BC0078-10, TWAC-78-1F2	FEP	0.095	RoHS HIGH TEMP ✓

*Standard lengths (in meters) include: 03, 05, 1, 2, 3, 4, 5, 6, 8, 15***x = cable length in meters**

LF-109B109-03M = 30 Centimeter cable assembly ✓

LF-109B109-5M = 5 Meter cable assembly ✓



TRB CABLE PLUGS		3-SLOT	FULL CRIMP	MALE-TO-MALE
PART NUMBER	CABLE TYPE	JACKET	CABLE O.D. (INCHES)	APPLICATION
LF-109B109-x	M17/176-00002	Teflon PFA	0.129	RoHS HIGH TEMP ✓
LF-109A109-x	TWC-78-2	PVC	0.242	RoHS LAB ✓
LF-109C109-x	TWC-78-1	PVC	0.150	RoHS LAB ✓

*Standard lengths (in meters) include: 03, 05, 1, 2, 3, 4, 5, 6, 8, 15***Electro LF Series 1553 Cable Assemblies are RoHS compliant.** **Contact Electro for additional connector, cable and length configurations.**

78-Ohm 1553B Twinax Cables

x = cable length in inches

CA-104A104-120 = 10 ft. (120 inches) cable assembly

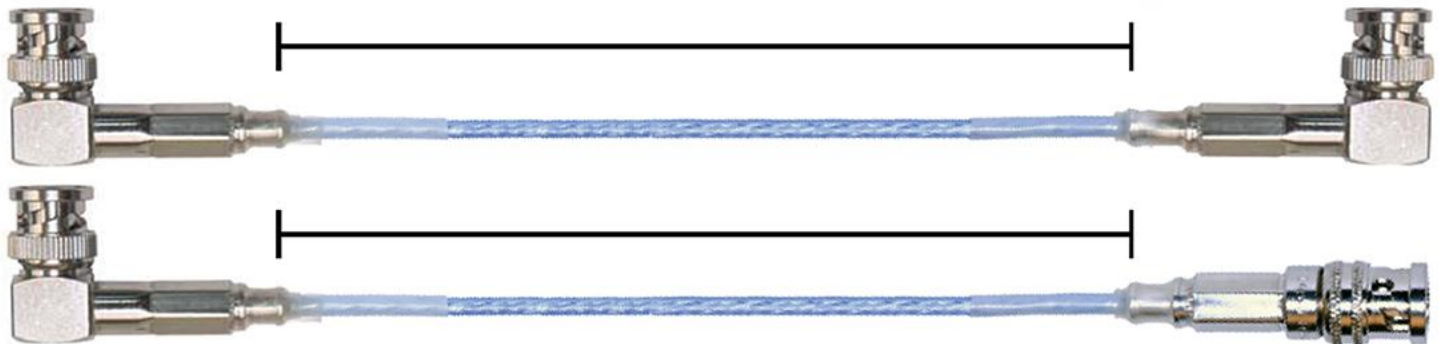


TRB CABLE PLUGS 3-SLOT		SOLDER/CLAMP WITH BEND RELIEF		MALE-TO-MALE
PART NUMBER	CABLE TYPE	JACKET	CABLE O.D. (INCHES)	APPLICATION
CA-104A104-x	TWC-78-2	PVC	0.242	LAB
CA-104C104-x	TWC-78-1	PVC	0.150	LAB
CA-104B104-x	M17/176-00002	Teflon PFA	0.129	HIGH TEMP
CA-104D104-x	BC0078-10, TWAC-78-1F2	FEP	0.095	HIGH TEMP

Standard lengths (in inches) include: 12, 24, 36, 48, 60, 72, 84, 120, 144, 180, 240, 300, 600

x = cable length in inches

CA-110B110-120 = 10 ft. (120 inches) cable assembly



TRB CABLE PLUGS 3-SLOT		FULL CRIMP		MALE-TO-MALE
PART NUMBER	CABLE TYPE	JACKET	CABLE O.D. (INCHES)	APPLICATION
CA-110B110-x	M17/176-00002	Teflon PFA	0.129	Right Angle to Right Angle HIGH TEMP
CA-109B110-x	M17/176-00002	Teflon PFA	0.129	Right Angle to Straight HIGH TEMP

Standard lengths (in inches) include: 12, 24, 36, 48, 60, 72, 84, 120, 144, 180, 240, 300, 600

Contact Electro for additional connector, cable and length configurations.

78-Ohm 1553B Twinax Cables

built with RoHS Compliant Components and Lead-Free Solder

x = cable length in meters

LF-104A104-03M = 30 Centimeter cable assembly ✓

LF-104A104-5M = 5 Meter cable assembly ✓



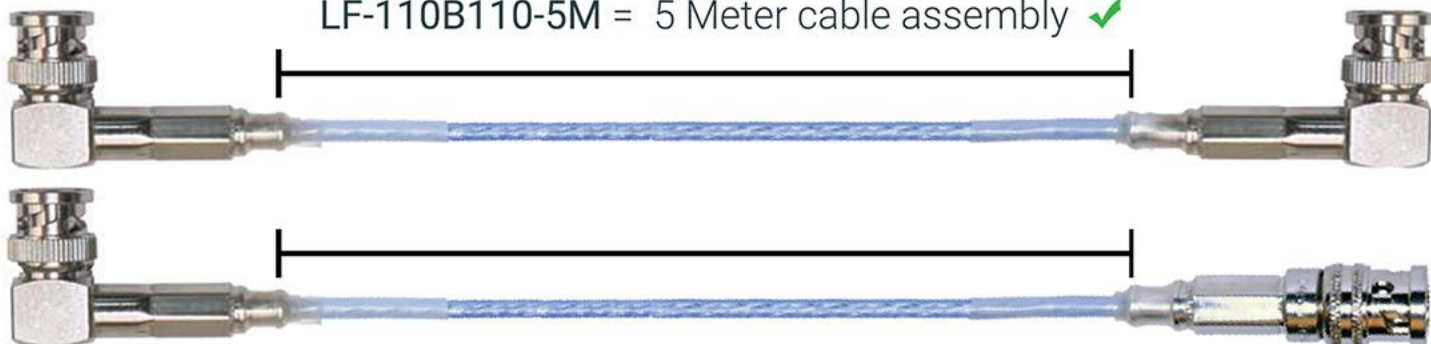
TRB CABLE PLUGS		3-SLOT	SOLDER/CLAMP WITH BEND RELIEF		MALE-TO-MALE
PART NUMBER	CABLE TYPE	JACKET	CABLE O.D. (INCHES)	APPLICATION	
LF-104A104-x	TWC-78-2	PVC	0.242	RoHS LAB 	
LF-104C104-x	TWC-78-1	PVC	0.150	RoHS LAB 	
LF-104B104-x	M17/176-00002	Teflon PFA	0.129	RoHS HIGH TEMP 	
LF-104D104-x	BC0078-10, TWAC-78-1F2	FEP	0.095	RoHS HIGH TEMP 	

Standard lengths (in meters) include: 03, 05, 1, 2, 3, 4, 5, 6, 8, 15

x = cable length in meters

LF-110B110-03M = 30 Centimeter cable assembly ✓

LF-110B110-5M = 5 Meter cable assembly ✓



TRB CABLE PLUGS 3-SLOT FULL CRIMP MALE-TO-MALE				
PART NUMBER	CABLE TYPE	JACKET	CABLE O.D. (INCHES)	APPLICATION
LF-110B110-x	M17/176-00002	Teflon PFA	0.129	RoHS Right Angle to Right Angle HIGH TEMP ✓
LF-109B110-x	M17/176-00002	Teflon PFA	0.129	RoHS Right Angle to Straight HIGH TEMP ✓

Standard lengths (in meters) include: 03, 05, 1, 2, 3, 4, 5, 6, 8, 15

Electro LF Series 1553 Cable Assemblies are RoHS compliant. 

Contact Electro for additional connector, cable and length configurations.

78-Ohm 1553B Twinax Cables

x = cable length in inches

CA-000A101-120 = 10 ft. (120 inches) cable assembly



	TRB CABLE JACK	3-LUG	SOLDER/CLAMP	FEMALE-TO-BLUNT	
PART NUMBER	CABLE TYPE	JACKET	CABLE O.D. (INCHES)	APPLICATION	
CA-000A101-x	TWC-78-2	PVC	0.242	LAB	
CA-000C101-x	TWC-78-1	PVC	0.150	LAB	
CA-000B101-x	M17/176-00002	Teflon PFA	0.129	HIGH TEMP	
CA-000D101-x	BC0078-10, TWAC-78-1F2	FEP	0.095	HIGH TEMP	

Standard lengths (in inches) include: 12, 24, 36, 48, 60, 72, 84, 120, 144, 180, 240, 300, 600

x = cable length in inches

CA-000A102-120 = 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. (INCHES)	APPLICATION	
CA-000A102-x	TWC-78-2	PVC	0.242	LAB	
CA-000C102-x	TWC-78-1	PVC	0.150	LAB	
CA-000B102-x	M17/176-00002	Teflon PFA	0.129	HIGH TEMP	
CA-000D102-x	BC0078-10, TWAC-78-1F2	FEP	0.095	HIGH TEMP	

Standard lengths (in inches) include: 12, 24, 36, 48, 60, 72, 84, 120, 144, 180, 240, 300, 600

Contact Electro for additional connector, cable and length configurations.

78-Ohm 1553B Twinax Cables

built with RoHS Compliant Components and Lead-Free Solder

x = cable length in meters

LF-000A101-03M = 30 Centimeter cable assembly ✓

LF-000A101-5M = 5 Meter cable assembly ✓



	TRB CABLE JACK	3-LUG	SOLDER/CLAMP	FEMALE-TO-BLUNT	
PART NUMBER	CABLE TYPE	JACKET	CABLE O.D. (INCHES)	APPLICATION	
LF-000A101-x	TWC-78-2	PVC	0.242	RoHS LAB	✓
LF-000C101-x	TWC-78-1	PVC	0.150	RoHS LAB	✓
LF-000B101-x	M17/176-00002	Teflon PFA	0.129	RoHS HIGH TEMP	✓
LF-000D101-x	BC0078-10, TWAC-78-1F2	FEP	0.095	RoHS HIGH TEMP	✓

Standard lengths (in meters) include: 03, 05, 1, 2, 3, 4, 5, 6, 8, 15

x = cable length in meters

LF-000A102-03M = 30 Centimeter cable assembly ✓

LF-000A102-5M = 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. (INCHES)	APPLICATION	
LF-000A102-x	TWC-78-2	PVC	0.242	RoHS LAB	✓
LF-000C102-x	TWC-78-1	PVC	0.150	RoHS LAB	✓
LF-000B102-x	M17/176-00002	Teflon PFA	0.129	RoHS HIGH TEMP	✓
LF-000D102-x	BC0078-10, TWAC-78-1F2	FEP	0.095	RoHS HIGH TEMP	✓

Standard lengths (in meters) include: 03, 05, 1, 2, 3, 4, 5, 6, 8, 15

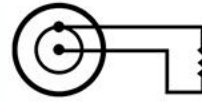
Electro LF Series 1553 Cable Assemblies are RoHS compliant. 

Contact Electro for additional connector, cable and length configurations.

Terminators & Dust Caps

TRB BUS AND STUB TERMINATORS – WITHOUT CHAIN

CONVENTIONAL	RoHS and REACH ✓	DESCRIPTION	RESISTOR VALUE
T00378-1	LFT00378-1	Bus Terminator without chain	78 ohm
T0031K-1	LFT0031K-1	Stub Terminator without chain	1000 ohm
T0032K-1	LFT0032K-1	Stub Terminator without chain	2000 ohm
T0033K-1	LFT0033K-1	Stub Terminator without chain	3000 ohm

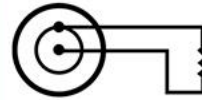


Non-inductive
wire wound resistor
as per MIL-R-39007
2 WATT, ± 1%



TRB BUS AND STUB TERMINATORS – WITH 3 INCH STAINLESS STEEL CHAIN

CONVENTIONAL	RoHS and REACH ✓	DESCRIPTION	RESISTOR VALUE
T00378-3	LFT00378-3	Bus Terminator, 3" chain	78 ohm
T0031K-3	LFT0031K-3	Stub Terminator, 3" chain	1000 ohm
T0032K-3	LFT0032K-3	Stub Terminator, 3" chain	2000 ohm
T0033K-3	LFT0033K-3	Stub Terminator, 3" chain	3000 ohm

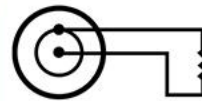


Non-inductive
wire wound resistor
as per MIL-R-39007
2 WATT, ± 1%



TRB BUS AND STUB TERMINATORS – WITH 6 INCH STAINLESS STEEL CHAIN

CONVENTIONAL	RoHS and REACH ✓	DESCRIPTION	RESISTOR VALUE
T00378-6	LFT00378-6	Bus Terminator, 6" chain	78 ohm
T0031K-6	LFT0031K-6	Stub Terminator, 6" chain	1000 ohm
T0032K-6	LFT0032K-6	Stub Terminator, 6" chain	2000 ohm
T0033K-6	LFT0033K-6	Stub Terminator, 6" chain	3000 ohm



Non-inductive
wire wound resistor
as per MIL-R-39007
2 WATT, ± 1%



TRB RFI DUST PROTECTION CAPS

PART NUMBER	DESCRIPTION	RoHS	REACH
DC1001-1	RFI Dust cap without chain	✓	✓
DC1001-3	RFI Dust cap, 3" chain	✓	✓
DC1001-6	RFI Dust cap, 6" chain	✓	✓



DC1001-1



DC1001-3



DC1001-6

Technical Notes

1. Bus terminators (78 ohm) are used at each end of the 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.

Electro's RFI Dust Caps and LF Series terminators are RoHS and REACH compliant.



TRB Adapters

TRB STANDARD WITHIN-SERIES ADAPTERS

PART NUMBER	DESCRIPTION	RoHS	REACH
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	✓	✓



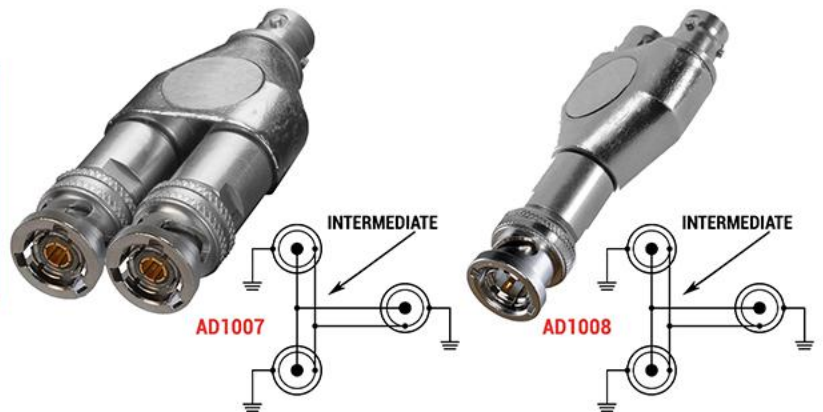
PRINTED CIRCUIT BOARD BULKHEAD JACKS

PART NUMBER	MOUNTING HOLE SIZE *	DESCRIPTION	RoHS	REACH
AD1013	D3.109	TRB Right-angle 3-lug jack to circuit board non-isolated	✓	✓
AD1014	D3.125	TRB Straight 3-lug jack to circuit board non-isolated	✓	✓



TRB FIXED PARALLELING JACKS

PART NUMBER	DESCRIPTION	RoHS	REACH
AD1007	TRB 3-lug jack to two TRB 3-slot plugs	✓	✓
AD1008	TRB 3-slot plug to two TRB 3-lug jacks	✓	✓



INTER-SERIES ADAPTERS

PART NUMBER	DESCRIPTION	RoHS	REACH
AD1009	TRB 3-slot plug to TRB 3-slot plug	✓	✓
AD1010	TRB 3-slot plug to BNC 2-lug jack	✓	✓
AD1011	BNC 2-slot plug to TRB 3-lug jack	✓	✓



TRB HERMETICALLY-SEALED BULKHEAD JACK FEEDTHRU

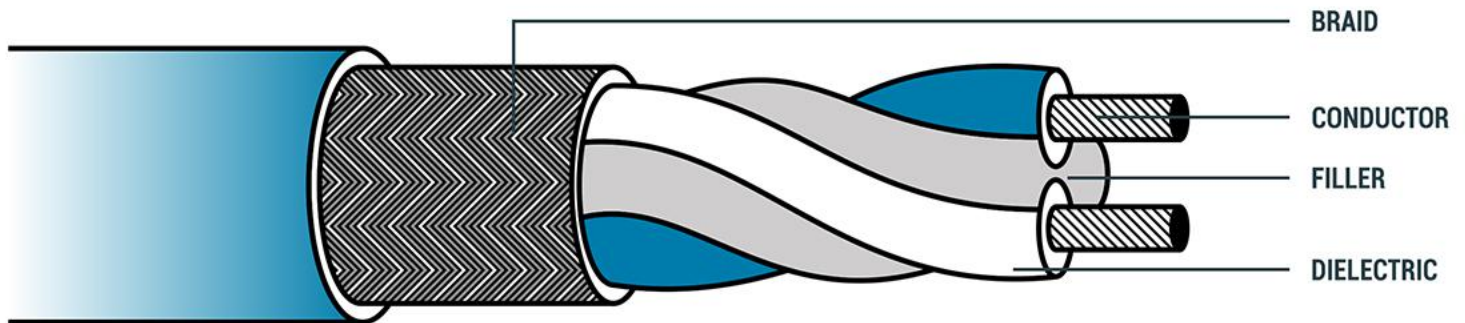
PART NUMBER	DESCRIPTION	RoHS	REACH
BJ78HS	3-lug female jack feedthrough (non-isolated)	✓	No

BJ78HS FEATURES	SPECIFICATIONS
Mounting hole size *	D3.187
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



*See chart on Page 25 for mounting hole sizes

78 Ohm Twinax Cable



	LAB-RATED		VEHICLE-RATED HALOGEN-FREE	VEHICLE-RATED HIGH TEMP		PLENUM-RATED HIGH TEMP	
CABLE PART NUMBER	TWC-78-2	TWC-78-1	TWCH-78-2	M17/176-00002	BC0078-10	TWCP-78-2	TWCP-78-1
USES ELECTRO CONNECTOR	-40	-30	-40	-20	-10	-40	-30
SPECIFICATIONS							
Nominal Impedance (ohms)	78 ± 3	78 ± 3	78 ± 3	77 ± 7	77 ± 7	78 ± 3	78 ± 3
Nominal Outer Diameter (inches)	0.242	0.150	0.242	0.129	0.093	0.242	0.150
Conductor Diameter (inches)	0.037	0.022	0.037	0.024	0.0149	0.037	0.021
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	+125 C	+125 C
Minimum Bend Radius (inches)	1.25	1.50	1.25	1.50	1.25	2.50	1.50
Nominal Capacitance (pF/ft)	21.20	20.30	21.20	24.00	19.00	18.60	19.60
Outer Jacket Material	PVC	PVC	Halogen-free	Teflon PFA	FEP	FEP	FEP
Insulation Material	Polyethylene	Polyethylene	Polyethylene	Teflon PFA	Tempa-Lene 45	FEP	FEP
Shield Coverage	93%	93%	93%	93%	90%	95%	97%
ATTENUATION (DB/100 FT)							
1 MHz	0.70	2.00	0.70	1.400		0.60	2.00
3 MHz	1.10	3.00	1.10	2.100		1.00	3.00
10 MHz	2.20	5.30	2.20	4.500 (max)	8.00	2.00	5.30
20 MHz	3.10	7.50	3.10			2.80	7.50
30 MHz	3.90	9.20	3.90			3.50	9.20
40 MHz	4.50	10.60	4.50			4.10	10.60
50 MHz	5.10	11.90	5.10			4.60	11.90
100 MHz	7.50	16.80	7.50		25.20	6.90	16.80
200 MHz	10.50	23.70	10.50			9.90	23.70
500 MHz	16.00	37.50	16.00			15.40	37.50
700 MHz	18.60	44.30	18.60			18.30	44.30
1 GHz	22.50	53.00	22.50			21.80	53.00
RoHS COMPLIANCE							
STATUS	✓ RoHS	✓ RoHS	✓ RoHS	✓ RoHS	✓ RoHS	✓ RoHS	✓ RoHS
All dimensions are in inches. All values without tolerances are nominal.							

TRB Connectors



TRB CABLE PLUG 3-SLOT MALE SOLDER CLAMP				
PLUG	PLUG & SPRING	COMPATIBLE TWINAX CABLE TYPE	RoHS	REACH
EE1001-40	EE1008-40	TWC-78-2, BC0078-40, TWCH-78-2, TWCP-78-2, 30-02001	✓	✓
EE1001-30	EE1008-30	TWC-78-1, BC0078-30, TWCP-78-1, 30-02003	✓	✓
EE1001-20	EE1008-20	M17/176-00002	✓	✓
EE1001-10	EE1008-10	BC0078-10, TWAC-78-1F2, 30-02002	✓	✓



TRB CABLE JACK 3-LUG FEMALE SOLDER CLAMP				
JACK	JACK & SPRING	COMPATIBLE TWINAX CABLE TYPE	RoHS	REACH
EE1002-40	EE1009-40	TWC-78-2, BC0078-40, TWCH-78-2, TWCP-78-2, 30-02001	✓	✓
EE1002-30	EE1009-30	TWC-78-1, BC0078-30, TWCP-78-1, 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				
PLUG	COMPATIBLE TWINAX CABLE TYPE	RoHS	REACH	
EE1005-20	STRAIGHT CRIMP PLUG FOR M17/176-00002	✓	✓	
EE1006-20	RIGHT ANGLE CRIMP PLUG FOR M17/176-00002	✓	✓	

Mating Interfaces

Electro's TRB 3-slot plugs and TRB 3-lug jacks are the most common mating interfaces in 1553B applications. Electro also offers connectors in 2-slot/lug, 4-slot/lug, and threaded mating interfaces. Call to request these alternate mating solutions.



3-Slot, 3-Lug



2-Slot, 2-Lug



4-Slot, 4-Lug



Threaded

Electro's TRB 3-Slot plugs and 3-Lug jacks are RoHS and REACH compliant.



Bulkhead Cable and Panel Jacks

TRB BULKHEAD CABLE JACK 3-LUG SOLDER/CLAMP (NON-ISOLATED)				
JACK	JACK & SPRING	COMPATIBLE TWINAX CABLE TYPE	RoHS	REACH
EE1003-40	EE1010-40	TWC-78-2, BC0078-40, TWCH-78-2, TWCP-78-2, 30-02001	✓	✓
EE1003-30	EE1010-30	TWC-78-1, BC0078-30, TWCP-78-1, 30-02003	✓	✓
EE1003-20	EE1010-20	M17/176-00002	✓	✓
EE1003-10	EE1010-10	BC0078-10, TWAC-78-1F2, 30-02002	✓	✓



TRB BULKHEAD CABLE JACK 3-LUG SOLDER/CLAMP (ISOLATED)				
JACK	JACK & SPRING	COMPATIBLE TWINAX CABLE TYPE	RoHS	REACH
EE1004-40	EE1011-40	TWC-78-2, BC0078-40, TWCH-78-2, TWCP-78-2, 30-02001	✓	✓
EE1004-30	EE1011-30	TWC-78-1, BC0078-30, TWCP-78-1, 30-02003	✓	✓
EE1004-20	EE1011-20	M17/176-00002	✓	✓
EE1004-10	EE1011-10	BC0078-10, TWAC-78-1F2, 30-02002	✓	✓

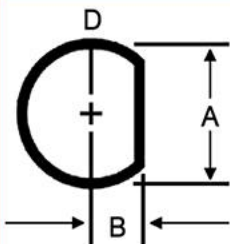
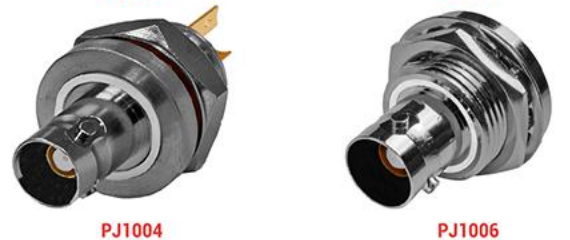


TRB 3-LUG FEMALE TO FEMALE BULKHEAD PANEL JACKS				
PART NUMBER	DESCRIPTION	MOUNT DIMENSION	RoHS	REACH
PJ1001	Non-isolated	D3.187	✓	✓
PJ1002	Isolated	D2.140	✓	✓

TRB 3-LUG FEMALE TO SOLDER POT BULKHEAD PANEL JACKS				
PART NUMBER	DESCRIPTION	MOUNT DIMENSION	RoHS	REACH
PJ1003	Non-isolated front mount	D2.125	✓	✓
PJ1005	Non-isolated rear mount	D3.218	✓	✓

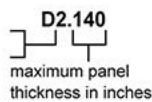


TRB 3-LUG FEMALE TO SOLDER POT BULKHEAD PANEL JACKS				
PART NUMBER	DESCRIPTION	MOUNT DIMENSION	RoHS	REACH
PJ1004	Isolated front mount	D2.140	✓	✓
PJ1006	Isolated rear mount	D2.140	✓	✓



Mounting Hole Sizes

D1 = (A) 0.755-0.760" (B) 0.343-0.346"
 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"



D5 = (A) 0.380-0.384" (B) 0.156-0.159"
 D6 = (A) 0.317-0.321" (B) 0.128-0.131"
 D7 = (A) 0.281-0.285" (B) 0.125-0.128"
 D8 = (A) 0.605-0.610" (B) 0.280-0.284"
 D9 = (A) 0.567-0.572" (B) 0.257-0.260"



Electro's TRB 3-Lug jacks are RoHS and REACH compliant.



Crimp Tools and Cable Splicing

TRB & TRS Bushing/Shield Crimp Tools - Compatible Set



M22520/5-01



Y778 (CD5-8)



Y687 (CD5-9)

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

TRB Center Contact Crimp Tools - Compatible Set



M22520/1-01



TP837 (010-0044)



TP838 (010-0045)

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

TRS Subminiature Center Contact Crimp Tools - Compatible Set



M22520/2-01



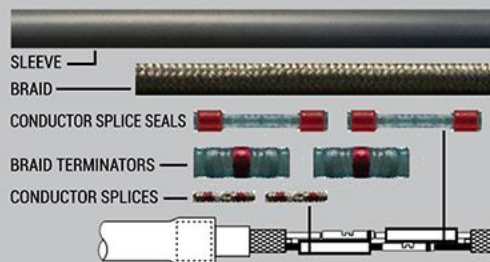
K815-S (010-0041)

CRIMP TOOL DESCRIPTION	PART NUMBER	RoHS
Center Contact Crimp Handle	M22520/2-01	✓
TRB Center Pin Positioner	K815-S	✓

Twinaxial Cable Splicing Tools - Compatible Set



AD-1377

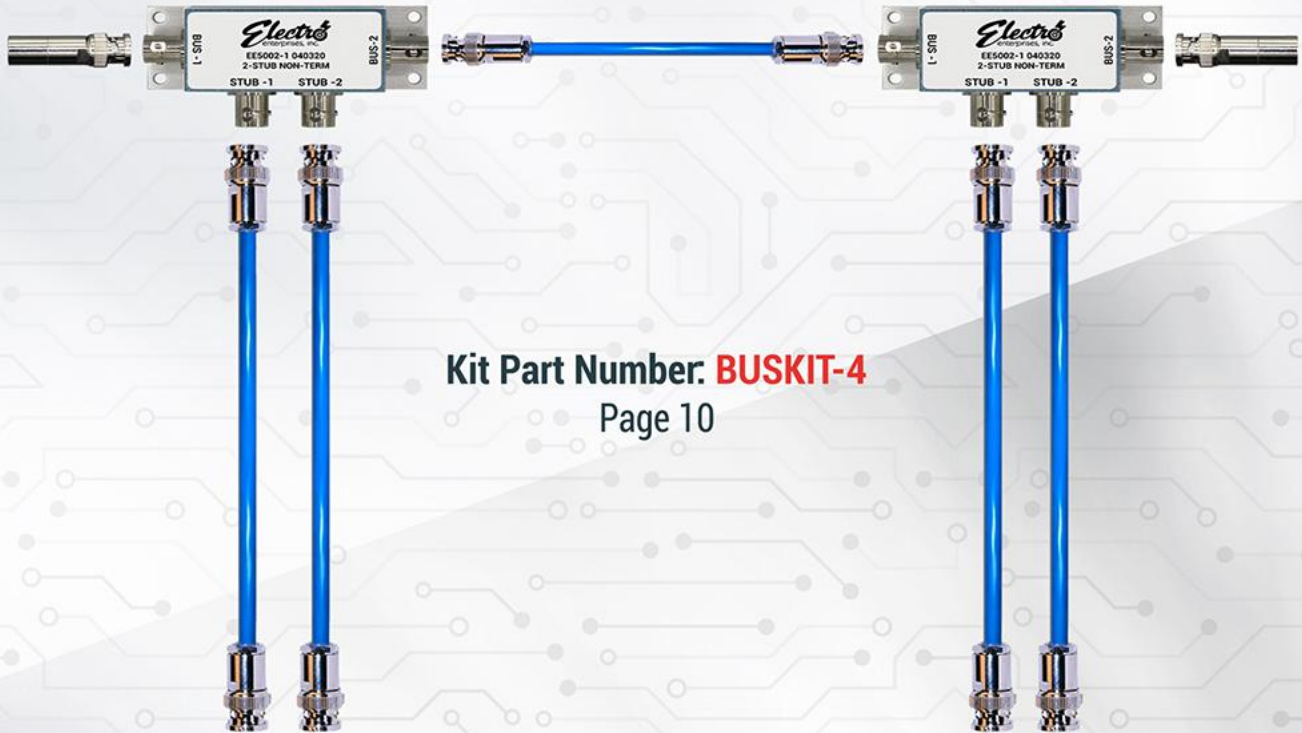


DESCRIPTION	PART NUMBER	RoHS
Splice Crimp Tool	AD-1377	✓
Eight-Piece Splicing Kit	1553SPLICE-KIT	NO

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
TRB Standard 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 contacts (plugs)
	-30	TWC-78-1 BC0078-30 30-02003				TP838 use for socket contacts (jacks)
	-20	M17/176-00002				
	-10	BC0078-10 TWAC-78-1F2				
TRS Subminiature 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				

1553. ELECTRO. DONE.



Kit Part Number. **BUSKIT-4**
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