

SPECIFICATIONS

TriaxM-TriaxM

Low Noise Triaxial to Triaxial Cable for SMUs

These specifications apply to the 1 m and 3 m TriaxM-TriaxM.



Caution You can impair the protection provided by the TriaxM-TriaxM if you use it in a manner not described in this document.



Caution Clean the hardware with a soft, nonmetallic brush. Make sure that the hardware is completely dry and free from contaminants before returning it to service. Avoid direct handling of connector ends to prevent contaminant buildup on sensitive conductors.

Definitions

Warranted specifications describe the performance of a model under stated operating conditions and are covered by the model warranty.

The following characteristic specifications describe values that are relevant to the use of the model under stated operating conditions but are not covered by the model warranty.

- *Typical* specifications describe the performance met by a majority of models.
- *Nominal* specifications describe an attribute that is based on design, conformance testing, or supplemental testing.

Specifications are *Warranted* unless otherwise noted.

Voltage, Current, and Resistance



Caution Refer to the specifications of the module with which you are using the TriaxM-TriaxM to note the maximum voltage and current ratings. The specifications listed below are the maximum for the TriaxM-TriaxM only.



Caution Triaxial connectors should only be used with non-hazardous voltages (≤ 60 VDC) unless a safety interlock system is employed to ensure that hazardous voltage is not present on the cable when an operator has access to an open connector.



Caution Applying levels beyond the ratings specified in this section can result in permanent damage to the device. Connect only voltages that are within these limits.

Voltage between any conductor

Continuous	300 VDC, CAT I
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Withstand ¹	1,000 V _{RMS}
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Note Measurement Categories CAT I and CAT O are equivalent. These test and measurement circuits are for other circuits not intended for direct connection to the MAINS building installations of Measurement Categories CAT II, CAT III, or CAT IV.

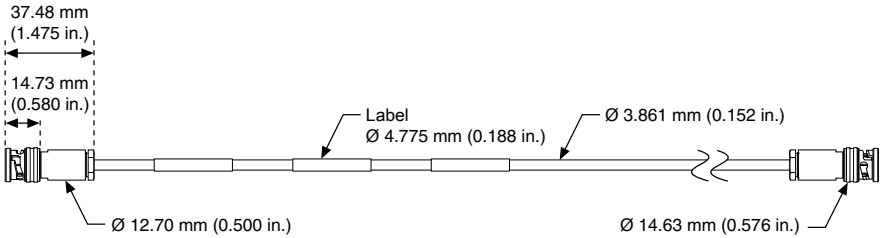
Center conductor current	3 ADC, 10 A pulsed ²
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Center conductor resistance (excluding connectors)	85 m Ω /m, nominal
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¹ Verified with a 5-second dielectric withstand test.

² Pulse duration is ≤ 1 ms. Pulse duty cycle is $\leq 5\%$.

Physical



Dimensions

1 m	1.47 cm × 1.47 cm × 1 m (0.58 in. × 0.58 in. × 39.37 in.), nominal
3 m	1.47 cm × 1.47 cm × 3 m (0.58 in. × 0.58 in. × 118.11 in.), nominal

Weight

1 m	77 g (2.72 oz.), nominal
3 m	131 g (4.62 oz.), nominal

Connectors	3-lug male triaxial, MIL-STD-348 (x2), nominal
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Environment

Maximum altitude	2,000 m (800 mbar) (at 25 °C ambient temperature)
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Pollution Degree	2
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Indoor use only.

Operating Environment

Ambient temperature range	0 °C to 55 °C
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Relative humidity range	10% to 90%, noncondensing
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Storage Environment

Ambient temperature range	-40 °C to 71 °C
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Relative humidity range	5% to 95%, noncondensing
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Compliance and Certifications

Safety

This product is designed to meet the requirements of the following electrical equipment safety standards for measurement, control, and laboratory use:

- IEC 61010-1, EN 61010-1
- UL 61010-1, CSA C22.2 No. 61010-1



Note For UL and other safety certifications, refer to the product label or the [Online Product Certification](#) section.

CE Compliance

This product meets the essential requirements of applicable European Directives, as follows:

- 2014/35/EU; Low-Voltage Directive (safety)

Online Product Certification

Refer to the product Declaration of Conformity (DoC) for additional regulatory compliance information. To obtain product certifications and the DoC for this product, visit [ni.com/certification](#), search by model number or product line, and click the appropriate link in the Certification column.

Environmental Management

NI is committed to designing and manufacturing products in an environmentally responsible manner. NI recognizes that eliminating certain hazardous substances from our products is beneficial to the environment and to NI customers.

For additional environmental information, refer to the *Minimize Our Environmental Impact* web page at [ni.com/environment](#). This page contains the environmental regulations and directives with which NI complies, as well as other environmental information not included in this document.

Waste Electrical and Electronic Equipment (WEEE)



EU Customers At the end of the product life cycle, all NI products must be disposed of according to local laws and regulations. For more information about how to recycle NI products in your region, visit [ni.com/environment/weee](#).

电子信息产品污染控制管理办法（中国 RoHS）



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