SPECIFICATIONS

SH96F-96M-42V Cable

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This document lists specifications for the SH96F-96M-42V shielded cable. These specifications are typical for the range of 0 $^{\circ}$ C to 55 $^{\circ}$ C unless otherwise stated. All specifications are subject to change without notice. Visit ni.com/manuals for the most current specifications and product documentation.



Hazardous Voltage When this symbol is marked on a product, it denotes a warning advising you to take precautions to avoid electrical shock.



Caution The protection provided by the SH96F-96M-42V can be impaired if it is used in a manner not described in this document.



Note Verify the accessory maximum working voltage to which you connect the cable by consulting the accessory specification document. If the accessory maximum working voltage is lower than the cable rating, use the accessory maximum working voltage rather than the cable rating.

Electrical



Note Connect only voltages that are within the limits of the connected device.

Mechanical

Cable wire gauge	28 AWG, shielded-twisted pairs 1 through 20
	22 AWG, shielded-twisted pair 21
	28 AWG, shielded-twisted pairs 22 through 24

Shielding



For information regarding SH96F-96M-42V cable conductor pairings and wiring color codes refer to ni.com/info and enter Info Code SH9642V.

Physical Requirements

Dimensions (available lengths)	.1 m (3.3 ft) 3 m (9.8 ft) 5 m (16.4 ft)
Weights	
1 meter	.1,187 g (42.2 oz)
3 meter	.2,040 g (72.6 oz)
5 meter	.2,894 g (102.1 oz)
I/O connector	
Male	.96-pin Type R DIN 41612/IEC 60603-2
Female	.96-pin Type C DIN 41612/IEC 60603-2



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.

Environmental

Maximum altitude	2,000 m (800 mbar)
Pollution Degree	2
Indoor use only	

Operating Environment

Ambient temperature range	.0 °C to 55 °C
	(Tested in accordance with IEC 60068-2-1 and
	IEC 60068-2-2. Meets MIL-PRF-28800F
	Class 3 low temperature limit and
	MIL-PRF-28800F Class 2 high temperature
	limit.)
Relative humidity range	.10% to 90%, noncondensing (Tested in accordance with IEC 60068-2-56.)

Storage Environment

Ambient temperature range	40 °C to 71 °C
	(Tested in accordance with IEC 60068-2-1 and
	IEC 60068-2-2. Meets MIL-PRF-28800F
	Class 3 limits.)
Relative humidity range	5% to 95%, noncondensing
	(Tested in accordance with IEC 60068-2-56)

Shock and Vibration

Operating shock	30 g peak, half-sine, 11 ms pulse (Tested in accordance with IEC 60068-2-27. Meets MIL-PRF-28800F Class 2 limits.)
Random vibration	
Operating	5 Hz to 500 Hz, 0.3 g _{rms}
Non-operating	. 5 Hz to 500 Hz, 2.4 g _{rms}
	(Tested in accordance with IEC 60068-2-64.
	Nonoperating test profile exceeds the requirements of MIL-PRF-28800F, Class 3.)

Safety

This product meets the requirements of the following standards of safety for electrical equipment for measurement, control, and laboratory use:

- IEC 61010-1, EN 61010-1
- UL 61010-1, CSA 61010-1



Note For UL and other safety certifications, refer to the product label.

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 products *must* be sent to a WEEE recycling center. For more information about WEEE recycling centers, National Instruments WEEE initiatives, and compliance with WEEE Directive 2002/96/EC on Waste and Electronic Equipment, 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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