SH96F-96M-5 Specifications

Contents

SH96F-96M-5 Specifications

Overview

This document lists specifications for the SH96F-96M-5 shielded cable. All specifications are subject to change without notice.

> ✏️ **Note** This icon denotes a warning advising you to take precautions to avoid electrical shock.

> ✏️ **Note** The protection provided by the SH96F-96M-5 cable can be impaired if it is used in a manner not described in this document.

> ✏️ **Note** Verify the accessory safety voltage to which you connect the cable by consulting the accessory specification document. If the accessory safety voltage is lower than the cable rating, use the accessory safety voltage rather than the cable rating.

Definitions

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

Characteristics 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 **Typical** unless otherwise noted.

Conditions

Specifications are valid for the range 0 °C to 55 °C unless otherwise noted.

Electrical

Maximum working voltage (any pin to any pin)	60 V DC

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

Mechanical

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

For information regarding SH96F-96M-5 cable conductor pairings and wiring color codes, go to ni.com/info and enter Info Code `sh96965`.

Physical Requirements

Clean the hardware with a soft, nonmetallic brush. Make sure that the hardware is completely dry and free from contaminants before returning to service.

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 meters	2,040 g (72.6 oz)
5 meters	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

Environmental

Operating temperature	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.)
Storage 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 low temperature limit and MIL-PRF-28800F Class 2 high temperature limit.)
Relative humidity range, operating	0% to 60%, noncondensing

Relative humidity range, storage	5% to 95%, noncondensing (Tested in accordance with IEC 60068-2-78)
Maximum altitude	2,000 m (800 mbar)
Pollution Degree	2

Indoor use only.

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 Compliance Standards

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 safety certifications, refer to the product label or the Product Certifications and Declarations section.

CE Compliance C E

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

- 2014/35/EU; Low-Voltage Directive (safety)
- 2014/30/EU; Electromagnetic Compatibility Directive (EMC)
- 2011/65/EU; Restriction of Hazardous Substances (RoHS)
- 2014/53/EU; Radio Equipment Directive (RED)
- 2014/34/EU; Potentially Explosive Atmospheres (ATEX)

Product Certifications and Declarations

Refer to the product Declaration of Conformity (DoC) for additional regulatory compliance information. To obtain product certifications and the DoC for NI products, visit ni.com/product-certifications, search by model number, and click the appropriate link.

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 ***Engineering a Healthy Planet*** 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.

EU and UK Customers

- ⊠ **Waste Electrical and Electronic Equipment (WEEE)**—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）

- ◎⑤◎ **中国RoHS**— NI符合中国电子信息产品中限制使用某些有害物质指令 (RoHS)。关于NI中国RoHS合规性信息，请登录 `ni.com/environment/rohs_china`。 (For information about China RoHS compliance, go to `ni.com/environment/rohs_china`.)

NI Services

Visit ni.com/support to find support resources including documentation, downloads, and troubleshooting and application development self-help such as tutorials and examples.

Visit ni.com/services to learn about NI service offerings such as calibration options, repair, and replacement.

Visit ni.com/register to register your NI product. Product registration facilitates technical support and ensures that you receive important information updates from NI.

NI corporate headquarters is located at 11500 N Mopac Expwy, Austin, TX, 78759-3504, USA.