

[Product Catalog for Electronic Specialty Markets](#) > [3M™ Terminals, Kits & Tools](#) > [Electrical Wire Connectors](#)
 > [Highland™ Wire Connectors](#) >

Solutions for Electronic Specialty Markets (ESM)

Product Catalog for Electronic Specialty Markets

- 3M™ Electronic Specialty Markets - New Product Releases
- 3M™ Abrasives
- 3M™ Adhesives, Cleaners & Compounds
- 3M™ Breadboards & Test Clips
- 3M™ Cable & Assemblies
- 3M™ Copper Interconnects
- 3M™ Fiber Optics
- 3M™ Fire Protection
- 3M™ Heat Shrink
- 3M™ Identification Systems
- 3M™ Occupational Health & Safety Products
- 3M™ Protective Bumpers
- 3M™ Reclosable Fasteners
- 3M™ Splicing, Terminating & Ducting
- 3M™ Static Control
- 3M™ Tapes
- 3M™ Terminals, Kits & Tools
- 3M™ Vacuums & Accessories
- 3M™ Warehousing & Packaging Supplies
- 3M™ Wire Connectors

[Printer-friendly format](#) **3M™ Highland™ Wire Connector H-30, Blue, 22-16 AWG, 100/Box**



[\[click to enlarge\]](#)

3M™ Highland™ Wire Connectors make it quick and easy to match the right connector to the size of the wire. The shells are designed to withstand temperatures up to 221°F (105°C).

GTIN(UPC/EAN) : 0 00 54007 43122 0
 3M Id : 80-6109-8109-6

Additional Information

3M™ Highland™ Color-coded Wire Connectors are UL Listed, CSA Certified, and work equally well with either solid or stranded wire. H-29 and H-30 connectors are rated to 300V.

Learn More . . .

[Packaging Data](#)

[Highland Electrical Spring Connectors - Data Sheet \(PDF 12.0 K\)](#)

[Ordering Information for Highland H-30 Spring Connectors - Product Selection Guide \(HTML 1.9 K\)](#)

Please Note:

Adobe® Acrobat® Reader is required to view PDF documents.



Other Tools

- What's New
- Sales Contacts
- U.S. Distributors

Characteristics

Agency Approvals	UL and CSA
China RoHS - Below MCV	Yes
Color	Blue
EU RoHS Compliant	Yes
Maximum Recommended Voltage Rating	300 Volt
Units per Box	100



Highland™ Electrical Spring Connectors



Data Sheet

1.0 Application

Use the 3M™ Highland™ Electrical Spring Connectors to electrically connect two or more wire ends in a pigtail application and insulate the connection. The wire range shall be 22 thru 10 AWG solid or stranded copper wire.

Construction:

Spring—Steel, plated
Insulator—Vinyl

2. Engineering Specification

The Highland Electrical Spring Connectors shall be capable of connecting two or more wires in a pigtail application, in the wire range of No. 22 thru No. 10 solid or stranded copper conductors. The connectors shall be constructed of a plated steel spring, covered by a vinyl insulator. The connectors shall be UL Listed and CSA Certified.

3. Regulatory Agencies

UL Listed as a Pressure Cable Connector
Tested per UL Standard 486C
UL File No. E84147

CSA Certified as a Pressure Cable Connector
Tested to CSA Standard C22.2
No. 0,188-M1983
CSA File No. 58960

Specifications:

MAX. VOLTAGE RATING: 300V or 600V Building
Wire 1000V Signs,
Lighting Fixtures and
Luminaries

**MAX TEMPERATURE
RATING:** 105°C (221°F)-UL
90°C (194°F)-CSA

Wire Combinations:

Solid or stranded copper conductors only

H-29 (Gray)

(300 Volts)

3 to 5 No. 22

2 to 4 No. 20

2 or 3 No. 18

2 No. 16

1 No. 20 w/ 1 to 4 No. 22

2 No. 20 w/ 1 to 3 No. 22

3 No. 20 w/ 1 or 2 No. 22

1 No. 18 w/ 1 No. 20 w/ 1 No. 22

1 No. 18 w/ 1 to 4 No. 22

1 No. 18 w/ 1 or 2 No. 20

2 No. 18 w/ 1 No. 20 or No. 22

1 No. 16 w/ 1 No. 18 or No. 22

H-30 (Blue)

(300 Volts)

5 No. 22

3 to 5 No. 20

2 to 4 No. 18

2 or 3 No. 16

1 No. 20 w/ 4 No. 22

2 No. 20 w/ 2 or 3 No. 22

3 No. 20 w/ 1 or 2 No. 22

4 No. 20 w/ 1 No. 22

1 No. 18 w/ 2 to 4 No. 20

1 No. 18 w/ 3 or 4 No. 22

1 or 2 No. 18 w/ 1 No. 20 w/ 1 No. 22

2 No. 18 w/ 1 to 3 No. 20

2 No. 18 w/ 1 to 3 No. 22

3 No. 18 w/ 1 or 2 No. 20 or No. 22

4 No. 18 w/ 1 No. 22

1 No. 16 w/ 1 to 4 No. 20

1 No. 16 w/ 1 to 4 No. 22

1 No. 16 w/ 1 or 2 No. 18

2 No. 16 w/ 1 to 3 No. 22

2 No. 16 w/ 1 or 2 No. 20

2 No. 16 w/ 1 No. 18

1 No. 14 w/ 1 to 4 No. 22

1 No. 14 w/ 1 to 3 No. 20

1 No. 14 w/ 1 No. 16

1 No. 14 w/ 1 No. 18

H-31 (Orange)

(600 Volts)

5 No. 22
 3 to 5 No. 20
 2 to 5 No. 18
 2 to 3 No. 16
 2 No. 14
 1 No. 16 w/ 1 to 4 No. 18
 2 No. 16 w/ 1 or 2 No. 18
 1 No. 14 w/ 1 to 3 No. 18
 1 No. 14 w/ 1 or 2 No. 16
 2 No. 14 w/ 1 to 3 No. 20 or No. 22

H-33 (Yellow)

(600 Volts)

4 or 5 No. 22
 3 to 5 No. 20
 2 to 7 No. 18
 2 to 4 No. 16
 2 to 3 No. 14
 2 No. 12
 2 No. 18 w/ 2 to 4 No. 16
 1 or 2 No. 16 w/ 1 to 3 No. 18
 1 No. 14 w/ 1 to 4 No. 16
 1 No. 14 w/ 1 to 3 No. 18
 2 No. 14 w/ 1 to 2 No. 16
 2 No. 14 w/ 1 to 2 No. 18

H-35 (Red)

(600 Volts)

3 to 9 No. 18
 2 to 6 No. 14
 2 to 4 No. 12
 2 to 3 No. 10
 2 No. 14 w/ 1 to 4 No. 18
 2 No. 14 w/ 1 to 4 No. 16
 3 No. 14 w/ 1 to 3 No. 16
 3 No. 14 w/ 1 to 3 No. 18
 4 No. 14 w/ 1 to 2 No. 16
 4 No. 14 w/ 1 to 2 No. 18

5 No. 14 w/ 1 No. 16
 5 No. 14 w/ 1 No. 18
 1 No. 12 w/ 1 to 4 No. 18
 1 No. 12 w/ 1 to 4 No. 16
 1 No. 12 w/ 1 to 5 No. 14
 2 No. 12 w/ 1 to 3 No. 16
 2 No. 12 w/ 1 to 3 No. 18
 2 No. 12 w/ 1 to 4 No. 14
 3 No. 12 w/ 1 to 2 No. 16
 3 No. 12 w/ 1 to 2 No. 18
 3 No. 12 w/ 2 or 3 No. 14
 4 No. 12 w/ 1 No. 14
 4 No. 12 w/ 1 No. 16
 4 No. 12 w/ 1 No. 18
 1 No. 10 w/ 1 to 3 No. 12
 1 No. 10 w/ 1 to 3 No. 14
 2 No. 10 w/ 1 to 3 No. 18
 2 No. 10 w/ 1 to 3 No. 16
 2 No. 10 w/ 1 or 2 No. 14
 2 No. 10 w/ 1 or 2 No. 12

Metric wire combinations (copper only) not UL Listed or CSA Certified.

H-29 (Gray)
 0,50 mm² (3 to 5)
 0,75 mm² (2 to 3)
 1,0 mm² (2)

H-30 (Blue)
 0,50 mm² (3 to 5)
 0,75 mm² (2 to 4)
 1,0 mm² (2 to 3)
 1,5 mm² (2)

H-31 (Orange)
 0,75 mm² (3 to 5)
 1,0 mm² (2 to 4)
 1,5 mm² (2 to 3)

H-33 (Yellow)
 0,75 mm² (3 to 6)
 1,0 mm² (2 to 5)
 1,5 mm² (3 to 4)
 2,5 mm² (2 to 3)

H-35 (Red)
 1,0 mm² (5 to 6)
 1,5 mm² (3 to 6)
 2,5 mm² (2 to 5)
 4 mm² (2 to 4)

3M and Highland are trademarks of 3M.

IMPORTANT NOTICE

All statements, technical information and recommendations related to the Seller's products are based on information believed to be reliable, but the accuracy or completeness thereof is not guaranteed. Before utilizing the product, the user should determine the suitability of the product for its intended use. The user assumes all risks and liability whatsoever in connection with such use.

Any statements or recommendations of the Seller which are not contained in the Seller's current publications shall have no force or effect unless contained in an agreement signed by an authorized office of the Seller. The statements contained herein are made in lieu of all warranties, expressed or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose which warranties are hereby expressly disclaimed.

SELLER SHALL NOT BE LIABLE TO THE USER OR ANY OTHER PERSON UNDER ANY LEGAL THEORY, INCLUDING BUT NOT LIMITED TO NEGLIGENCE OR STRICT LIABILITY, FOR ANY INJURY OR FOR ANY DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES SUSTAINED OR INCURRED BY REASON OF THE USE OF ANY OF THE SELLER'S PRODUCTS.

**Electrical Products Division**

6801 River Place Blvd.
 Austin, TX 78726-9000
 800/245-3573
 www.3M.com/elpd



Printed on 50% recycled paper
 with 10% post-consumer

Litho in USA
 ©3M 1999 80-6108-5288-3-A