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Printer-friendly format 3M[™] Highland[™] Wire Connector H-33, Yellow, 18-12 AWG, 100/Box



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).



enlarge] GTIN(UPC/EAN) : 0 00 54007 43136 7 3M Id : 80-6109-8125-2

Additional Information

3M[™] Highland[™] Color-Coded Wire Connectors are UL Listed, CSA Certified, and work equally well with either solid or stranded wire. H-31, H-33 and H-35 connectors are rated to 600V (1000V in signs and lighting fixtures).

Learn More . . .

Packaging Data

Highland Electrical Spring Connectors - Data Sheet (PDF 12.0 K)

Ordering Information for Highland H-33 Spring Connectors - Product Selection Guide (HTML 2.3 K)

Please Note: Adobe® Acrobat® Reader is required to view PDF documents.



Characteristics

Agency Approvals	UL and CSA
China RoHS - Below MCV	Yes
Color	Yellow
EU RoHS Compliant	Yes
Maximum Recommended Voltage Rating	600 Volt
Units per Box	100

Wire Range Capabilities

22 to 14





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:	
	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

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. 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 3 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

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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-33 (Yellow)

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) 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)