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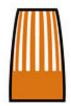
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Printer-friendly format 3M™ Highland™ Wire Connector H-31, Orange, 18-

14 AWG, 500/Bag



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).

[click to enlarge]

GTIN(UPC/EAN): 0 00 54007 43118 3

3M Id: 80-6109-8426-4

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)

Please Note:

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



Characteristics

| Agency Approvals | UL and CSA |
|------------------------------------|------------|
| China RoHS - Below MCV | Yes |
| Color | Orange |
| EU RoHS Compliant | Yes |
| Maximum Recommended Voltage Rating | 600 Volt |
| Units per Box | 500 |
| Wire Range Capabilities | 22 to 14 |

3M

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 to 2 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

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5 No. 14 w/ 1 No. 16
           H-31 (Orange)
              (600 Volts)
                                                                         5 No. 14 w/ 1 No. 18
               5 No. 22
                                                                       1 No. 12 w/ 1 to 4 No. 18
                                                                       1 No. 12 w/ 1 to 4 No. 16
            3 to 5 No. 20
            2 to 5 No. 18
                                                                       1 No. 12 w/ 1 to 5 No. 14
            2 to 3 No. 16
                                                                       2 No. 12 w/ 1 to 3 No. 16
               2 No. 14
                                                                       2 No. 12 w/1 to 3 No. 18
                                                                       2 No. 12 w/ 1 to 4 No. 14
     1 No. 16 w/ 1 to 4 No. 18
     2 No. 16 w/ 1 or 2 No. 18
                                                                       3 No. 12 w/ 1 to 2 No. 16
     1 No. 14 w/ 1 to 3 No. 18
                                                                       3 No. 12 w/ 1 to 2 No. 18
     1 No. 14 w/ 1 or 2 No. 16
                                                                       3 No. 12 w/ 2 or 3 No. 14
2 No. 14 w/ 1 to 3 No. 20 or No. 22
                                                                          4 No. 12 w/ 1 No. 14
                                                                          4 No. 12 w/ 1 No. 16
            H-33 (Yellow)
                                                                         4 No. 12 w/ 1 No. 18
              (600 Volts)
                                                                       1 No. 10 w/ 1 to 3 No. 12
            4 or 5 No. 22
                                                                       1 No. 10 w/ 1 to 3 No. 14
                                                                       2 No. 10 w/ 1 to 3 No. 18
            3 to 5 No. 20
                                                                       2 No. 10 w/ 1 to 3 No. 16
            2 to 7 No. 18
            2 to 4 No. 16
                                                                       2 No. 10 w/ 1 or 2 No. 14
            2 to 3 No. 14
                                                                       2 No. 10 w/ 1 or 2 No. 12
               2 No. 12
     2 No. 18 w/ 2 to 4 No. 16
                                                        Metric wire combinations (copper only) not UL
   1 or 2 No. 16 w/ 1 to 3 No. 18
                                                        Listed or CSA Certified.
                                                                                         H-33 (Yellow)
     1 No. 14 w/ 1 to 4 No. 16
                                                        H-29 (Grav)
                                                                                         0.75 \text{ mm}^2 (3 \text{ to } 6)
     1 No. 14 w/ 1 to 3 No. 18
                                                        0.50 \text{ mm}^2 (3 \text{ to } 5)
                                                                                         1.0 \text{ mm}^2 (2 \text{ to } 5)
     2 No. 14 w/ 1 to 2 No. 16
                                                                                         1,5 mm<sup>2</sup> (3 to 4)
                                                        0.75 \text{ mm}^2 (2 \text{ to } 3)
     2 No. 14 w/ 1 to 2 No. 18
                                                        1.0 \text{ mm}^2 (2)
                                                                                         2.5 mm<sup>2</sup> (2 to 3)
             H-35 (Red)
                                                        H-30 (Blue)
                                                                                         H-35 (Red)
             (600 Volts)
                                                        0.50 \text{ mm}^2 (3 \text{ to } 5)
                                                                                         1,0 mm<sup>2</sup> (5 to 6)
            3 to 9 No. 18
                                                        0,75 mm<sup>2</sup> (2 to 4)
                                                                                         1,5 mm<sup>2</sup> (3 to 6)
            2 to 6 No. 14
                                                        1,0 mm<sup>2</sup> (2 to 3)
                                                                                         2,5 mm<sup>2</sup> (2 to 5)
            2 to 4 No. 12
                                                                                         4 mm<sup>2</sup> (2 to 4)
                                                        1,5 \text{ mm}^2 (2)
            2 to 3 No. 10
     2 No. 14 w/ 1 to 4 No. 18
                                                        H-31 (Orange)
     2 No. 14 w/ 1 to 4 No. 16
                                                        0.75 \text{ mm}^2 (3 \text{ to } 5)
     3 No. 14 w/ 1 to 3 No. 16
                                                        1,0 mm<sup>2</sup> (2 to 4)
     3 No. 14 w/ 1 to 3 No. 18
                                                        1.5 mm<sup>2</sup> (2 to 3)
     4 No. 14 w/ 1 to 2 No. 16
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4 No. 14 w/ 1 to 2 No. 18

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