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Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







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 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

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

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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)