

# 3M™ Direct Bury Splice Kit DBO/B-6

Data Sheet

January 2011

**Applications** The 3M™ Direct Bury Splice Kit DBO/B-6 is used to electrically connect two or more pre-stripped copper wires and moisture seal the connection for direct burial.


The kit includes a 3M™ Performance Plus Wire Connector O/B+ and a high impact, UV-resistant polypropylene tube prefilled with moisture-resistant grease.

**Agency Approvals & Self Certifications**

Meets requirements of: UL Standard 486D

C UL US Listed, File No. E102356

Listed for use in wet, damp, direct bury and submersible locations with UF type cable

RoHS 2002/95/EC 

RoHS Compliant 2002/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2002/618/EC, unless the substance is in an application that is exempt under RoHS. This information represents 3M's knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

**Specifications**

Maximum Voltage Rating: 600 V  
Application Temperature: 32°F to 120°F (0°C to 49°C)  
Maximum Operating Temperature: 221°F (105°C)

**Construction:**

Tube: Impact and UV Resistant Polypropylene  
Grease: 711B  
O/B+ Connector: Steel Spring, Flame Retardant Insulator

**Common AWG Wire Combinations** (CU only)

2-3 #16 sol/str	1 #18 to 1-2 #14 sol/str
2-3 #14 sol/str	1 #18 to 1-2 #12 sol/str
2 #12 sol/str	1 #16 to 1-2 #14 sol/str
1 #14 to 1 #12 sol/str	1 #16 to 1-2 #12 sol/str

\*See Chart for all Combinations\*

**Metric Wire Combinations** (CU only)

3-6 0,75 mm <sup>2</sup> sol/str
2-6 1,0 mm <sup>2</sup> sol/str
2-4 1,5 mm <sup>2</sup> sol/str
2-3 2,5 mm <sup>2</sup> sol/str

\*Only AWG sizes are UL LISTED

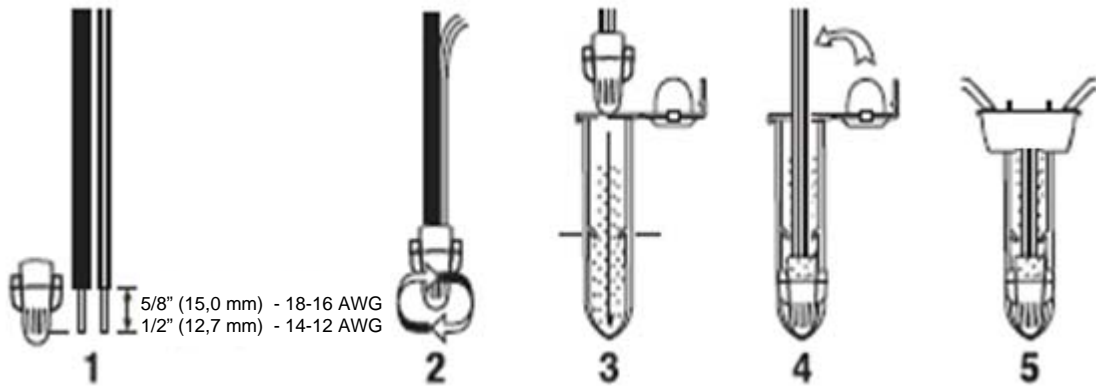
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## Installation Instructions



### Warning

Turn power off before installing or removing connector. All electrical work should be done according to appropriate electrical codes.



5/8" (15,0 mm) - 18-16 AWG  
1/2" (12,7 mm) - 14-12 AWG

### Installation Tip:

If having difficulty pushing the connector to the bottom of the tube, use a rigid, thin piece of non-conductive material to help push the connector down. Once the connector is on the bottom, remove the material and fill in any voids left in the grease.

Substitute for 3M™ Direct Bury Splices DBY and DBY-6

### Combination Chart:

**WIRE COMBINATIONS  
AWG CU TO CU ONLY**

**HOW TO READ THIS CHART**

18 STR	1 2 3 4	••••																	
18 SOL	1 2 3 4	••••	••••																
16 STR	1 2 3	•••	•••	••															
16 SOL	1 2 3	•••	•••	••	••														
14 STR	1 2	••	••	•	•	•													
14 SOL	1 2	••	••	•	•	•	•												
12 STR	1 2	•	•	•	•	•	•	•											
12 SOL	1 2	•	•	•	•	•	•	•	•										
10 STR	1 2	•	•																
10 SOL	1 2	•	•																
		1 2 3 4	1 2 3 4	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
		18 STR	18 SOL	16 STR	16 SOL	14 STR	14 SOL	12 STR	12 SOL										

**EXAMPLE 1:** 1 No. 16 str to 2 No. 16 str  
**EXAMPLE 2:** 1 No. 10 sol to 1 No. 16 str

**EXAMPLE 2:** (indicated by a bracket in the chart)

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**Shelf Life & Storage**

The 3M™ Direct Bury Splice Kit DBO/B-6 has a 5-year shelf life from date of manufacture when stored in a humidity controlled storage (10°C/50°F to 27°C/80°F and <75% relative humidity).

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**Availability**

From your local distributor; or from [3M.com/electrical](http://3M.com/electrical) [Where to Buy] or call 1.800.245.3573.

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