

Data Sheet and Instructions

Cable Connector

DBR/Y-6

3M





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1 Data Sheet

1.1 Applications

The 3M™ Direct Bury Splice Kit DBR/Y-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 R/Y+ and a high impact, UV-resistant polypropylene tube prefilled with moisture-resistant grease.

The connection may be released at any time without harming the wires as the filling will not harden. Please keep in mind, though, that each connector may only be used once.

1.2 Agency Approvals & Self Certifications



UL Standard 486D, File No. E102356

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



Meets European Standard EN 61984

Applicable ratings under this standard: IP68, Pollution Degree 3

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 2005/618/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.

1.3 Specifications

Maximum Voltage Rating: 600 V

Application Temperature: 0°C to 49°C

Operating Temperature: -40°C to 105°C

1.3.1 Construction:

Tube : Impact and UV Resistant Light Blue Polypropylene

Dimensions: Length 9,4 cm, Cover: 3,8x 2,8 cm, Diameter: : 2,5 cm

Grease: 711B

R/Y+ Connector: Steel Spring, Flame Retardant Insulator

Common Combinations for different wire cross section
Copper Wire Only, Solid or Stranded unless noted

2 – 7 x 1 mm²

2 – 4 x 1,5 mm²

2 – 4 x 2,5 mm²

1 – 3 x 2,5mm² + 1 x 1 mm²

1 – 2 x 2,5 mm² + 1 x 1 mm²

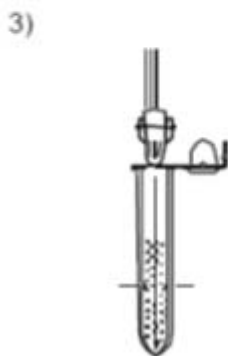
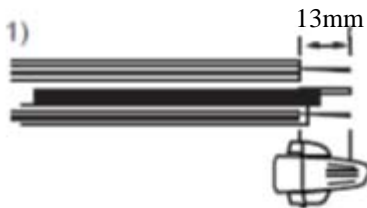
No adverse health effects expected; for professional or industrial use only.
Contains white mineral oil grease, CAS# 8042-47-5

2 Installation Instructions



Warning

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



1) Strip insulation 13mm.

2) With wire ends even, insert wires into the connector and tighten until secure.

3) Insert the connector all the way into the tube until the connector rests on the bottom.

4) Fold the wire into the channels.

5) Close the cap.

Installation Tip:

If having difficulty getting the twist-on connector down into the tube when using small gauge wires, use a thin non-conductive object to push the connector to the bottom of the tube. Upon removal of the object, ensure that no voids or water paths remain in the grease.

2.1 Shelf Life & Storage

This product has a 5-year shelf life from date of manufacture when stored in a humidity controlled storage (10°C to 27°C and <75% relative humidity).

Subject to change without prior notice.