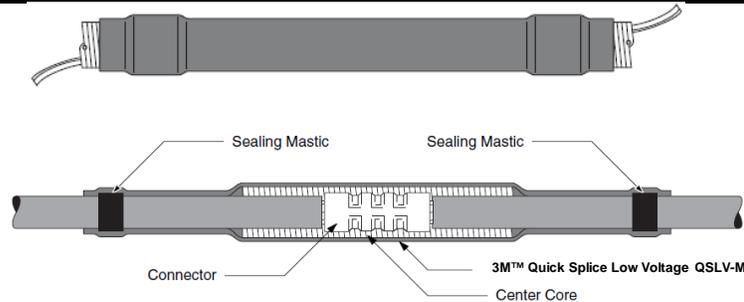


3M™ Cold Shrink Quick Splice Low Voltage QSLV-M Series

Data Sheet

March 2009



Product name	Cable Size Range (AWG or kcmil)*	Cable Insulation O.D. Range Inches (mm)	Max Connector O.D. Inches (mm)	Max Connector Length Inches (mm)
QSLV-M-8-2/0	8 - 2/0	0.20 – 0.75 (5 – 19)	0.687 (17)	2.5 (63)
QSLV-M-2-500	2 - 500	0.40 – 1.60 (10 – 41)	1.500 (38)	4.25 (108)

*Insulator may be used on cable sizes outside of the recommended range, provided both cables are within the insulation O.D. range and the connector meets the dimensional requirements shown above.

Description

3M™ Cold Shrink Quick Splice Low Voltage QSLV-M are open-ended tubular rubber sleeves with sealing mastic on each end which are factory expanded and assembled onto a unique three-core system. Two cores, one on each end, are removed after the QSLV-M insulator has been centered over an inline connector, allowing the ends of the tube to shrink and form a water-resistant seal. The third, center segment of the core remains inside the cold shrink tube, acting as a support structure. Sizing of the cores and tube, along with the sealing mastic on each end, is designed to accommodate the variance in connectors and connector crimping techniques and final dimensions without degrading the seal and insulating characteristics of the EPDM rubber tube, while making core removal easy. Two diameter sizes will cover a range of 1000 volt or less cable from 8 AWG through 500 kcmil, copper and aluminum conductors with crimped connectors.

In aerial applications where intense UV radiation will be common and visual inspection is not possible, it is recommended to overwrap the tubing with Scotch® Super 33+™ Vinyl Electrical Tape or Scotch® Self-Fusing Silicone Rubber Electrical Tape 70.

- Simple hand installation, no tools required
- No heat source, eg. heat guns or torches
- Accommodates wide range of cable sizes, including street lighting
- Excellent wet electrical properties
- Good thermal stability during storage and shipping
- Seals tight, retains resiliency and pressure, even after years of aging and exposure
- Resists fungus
- Resists acids and alkalis
- Water resistant. Meets water seal requirements of ANSI C119.1

Agency Approvals & Self Certifications

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.

CAUTION

Working around energized systems may cause serious injury or death. Installation should be performed by personnel familiar with good safety practice in handling electrical equipment. De-energize and ground all electrical systems before installing product.

3M™ Cold Shrink Quick Splice Low Voltage QSLV-M Series

Applications	<ul style="list-style-type: none">▪ Primary electrical insulation for 8 AWG–500 kcmil solid dielectric (rubber and plastic) insulated wire and cable splicing rated to 1000 volts, direct bury or submersible.▪ Insulation of secondary splices, copper or aluminum conductors.▪ Dig-in repairs.▪ Sheath repairs.▪ Insulation of inline conductor transition connectors and set-screw or oversized connectors.
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Typical Properties Not for specifications. Values are typical, not to be considered minimum or maximum. Properties measured at room temperature 73°F (~23°C) unless otherwise stated.

Physical EPDM Rubber

Property (Test Method)	Typical Value US units (metric)
Color	Black
300% Modulus (ASTM D 412-87)	480 psi (3,3 MPa)
Ultimate Tensile (ASTM D 412-87)	1400 psi (9,6 MPa)
Ultimate Elongation (ASTM D 412-87)	750%
Die C Tear (ASTM G-21)	150 pli (26,3 KN/m)
Fungus Resistance (ASTM G-21)	No growth
Moisture Absorption - 7 days in H₂O	Wt. Gain 1.8%

Electrical EPDM Rubber

Property (Test Method)	Typical Value US units (metric)
Dielectric Strength (ASTM D 149-75)	365 v/mil (14,3 Kv/mm)
7 days in H₂O, 90°C (194°F)	282 v/mil (11,1 Kv/mil)

Shelf Life & Storage This product 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).



3M cold shrink removable core material is polypropylene and recyclable with other waste.

Availability Please contact your local distributor; available from 3M.com/electrical [Where to Buy] or call 1-800-245-3573.

Important Notice All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product, which are not contained in 3M's current publications, or any contrary statements contained on your purchase order, shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

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