

3M Science.
Applied to Life.™

3M Industrial Maintenance and Repair Solutions for **Electrical Installations**

We have
your solution.





Keep your electrical systems and equipment running.

A complete set of solutions that help you solve problems.

The proper and safe functioning of your operations requires reliable electrical installation. As the electrical maintenance and repair professional, you need to pay attention to every detail to avoid unnecessary downtime. Each repair must be done efficiently with no room for error.

3M has low and medium voltage solutions to help you get the job done quickly – and done right – the first time. You're ready to tackle any job because you have the power of high-quality, reliable 3M Electrical Maintenance and Repair Solutions.



We've got the supplies you need for connecting, terminating, insulating and sealing your electrical connections.

Low voltage cable connection, insulation and identification

Cable re-jacketing and protection

Medium voltage cable splicing and terminations

Electrical installation firestop solutions

Other essential solutions



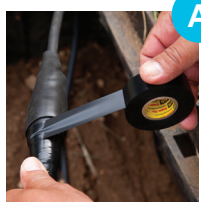
Wherever the job takes you, we have your solution.

From start to finish, 3M provides customized solutions to help you solve your challenging electrical maintenance installations.

This is a partial product listing. For a complete listing, please ask your 3M representative.

Low voltage cable connection, insulation and identification

Insulate & help protect electrical cables



A

Scotch® Super 33+™ Vinyl Electrical Tape

Professional grade tape that provides electrical insulation for all wires and cables rated up to 600V.

- 7 mils thickness
- Flame retardant
- Temperature range: 0 to 221 °F (-18 to 105 °C)



A

3M™ Performance Plus™ Wire Connectors

One connector that does the job of two traditional low voltage connectors.

- Strong bite for a secure, reliable connection
- Flexible spring expands for greater wire range and reuse

Phase and cable identification



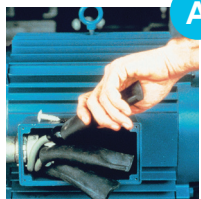
A

Scotch® Vinyl Color Coding Electrical Tape 35

Professional grade, 7 mil thick, color coded electrical tape for electrical insulation up to 600V.

- Used in phase identification and color coding
- Flame retardant
- Temperature range: 14 to 221 °F (-10 to 105 °C)

Repair motors and electrical equipment splice connections



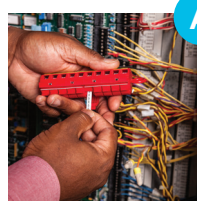
A

3M™ Motor Lead Inline Splice Kits

Splice kits for splicing motor lead cables to incoming feeder cables.

- Splice kits 5300 – 5319 are CSA certified for applications up to 600 volts
- Can accommodate the following splice configurations:
 - Pigtails (stub) connections 1000 Volts and less
 - Inline connections 1000 volts and less
 - Pigtail (stub) connections, 5/8 kV shielded and non-shielded feeders
 - Inline connections, 5/8 kV shielded and non-shielded feeders

Quick wire identification



A

3M™ ScotchCode™ Wire Marker Tape Dispenser STD

A compact, carry-along dispenser with ten refillable compartments which hold eight-foot rolls of non-smear polyester tape for most electrical identification jobs.

- Dispenses either pre-printed numbers 0-9 (STD-0-9, STD-0-9X) or NEMA colors (STD-C, STD-CX), to be used for general identification jobs
- Dispenses only the desired length

Cable Jacket Repair and Protection

Repair and protect



- B** **Scotch® Cable Jacket Repair Tape 2234**
- Quick and easy-to-use tape to fully repair the jacket of low and medium voltage cables, regardless of size.
- Insulates and helps protect damaged cable jackets
 - Flame retardant and abrasion resistant
 - Flexible and sunlight resistant

Jacket repair for low and medium voltage cables



- B** **Scotch® Rubber Mastic Tape 2228**
- 65 mil thick, premium grade, highly conformable self-fusing rubber (EPDM) electrical insulating tape.
- Used for insulating, padding and resisting moisture in applications up to 1000V
 - Applicable over a temperature range of 32 to 100°F (0 to 38°C)

Medium voltage (MV) cable splicing and terminations

Splice medium voltage cables



- C** **3M™ MV Splices**
- Medium voltage cable accessories used for connecting in both indoor and outdoor applications.
- High quality silicone rubber insulates the splice while allowing the heat to dissipate
 - Geometric stress control design regulates the distribution of the electrical field

Terminate medium voltage cables



- C** **3M™ MV Terminations**
- Medium voltage cable accessories used for terminating in both indoor and outdoor applications
- Presents silicone rubber insulation that is track-resistant and hydrophobic
 - High dielectric-constant material that regulates the distribution of electric field stress

Electrical installation firestop solutions

Firestop cables and conduit



D

3M™ Fire Barrier Rated Foam

A two-part urethane, smoke, sound and firestopping foam. This intumescent foam can be used to fill the annular space created by pipes and cables penetrating through fire-rated construction.

- Firestop tested and rated up to 2 hours
- Meets ASTM E814 (UL 1479) and CAN/ULC S115
- Finish your firestop installations more than 3X faster
- Expands up to 5 times in volume during installation

Firestop wall openings



D

3M™ Fire Barrier Moldable Putty Pads MPP+ and Stix MP+

A one-part firestop material used in various fire-rated assemblies, such as electrical box protection and wall openings. Ready to use in convenient pads or sticks.

- Firestop tested up to 4-hours
- Meets ASTM E814 (UL 1479) and CAN/ULC S115
- Will not dry out or crumble
- Provides draft and cold smoke seal, helps reduce noise transfer

Firestop cables and conduit



D

3M™ Fire Barrier Sealant CP 25WB+

A high-performance, intumescent latex-based sealant offering outstanding fire performance.

- Firestop tested for through penetration applications up to 4 hours
- Meets ASTM E814 (UL 1479) and CAN/ULC-S115
- Acoustic barrier and provides L-Rating (smoke seal)
- Bonds to concrete, metal, wood, plastic and cable jacketing

Other essential solutions

Clean and prep for electrical connections



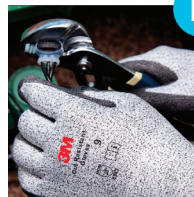
E

3M™ Novec™ Contact Cleaner

An aerosol solvent cleaner that effectively removes light hydrocarbon, fluorocarbon and silicone oils as well as dust and particulates from sensitive electrical and electronic equipment.

- Non-flammable and plastic-safe, including compatibility with ABS, polycarbonate, and acrylic
- Non-ozone depleting and contains no HCFCs, HFCs, nPB or HAPs
- Compliant with OTC VOC regulations
- Ideal for use on energized components

Protect your hands



E

3M™ Comfort Grip Gloves

General use gloves with excellent dexterity and grip, even in wet or oily conditions.

- Good for general material handling and electrical component assembly
- Long-lasting, durable and washable

Secure Cable Wires



E

3M™ Cable Ties

Secure wire bundles and quickly harness components.

- Features a self-locking head
- Most are designed to handle a wide temperature range without slipping

- B
- C
- D

Underground
Manhole
Vault
Area

Control Room

- A
- E

Production Area

- A
- B

- C

Substation
Room

Switch
Gear
Room

- C

- C

Substation
Room 2

Transformer
Room

- A
- C

Instrument
Closet

Maintenance
Closet

Facility
Grounds

- A
- B

Maintenance
Room

- A

Tool
Crib

Offices

Meeting Room

- A

Entrance

Dormitory



Everything you need to get it all done.

With an enormous array of trusted maintenance, repair, cleaning and safety products from 3M, there's no task too big, no process too complex. Together, with your ingenuity and our technology, we can get things done.

3M Industrial Maintenance and Repair Solutions for:

 **Machines and Equipment**

 **Surfaces**

 **Cleaning and Disinfecting**

 **Electrical**

 **HVAC and Plumbing**

 **Metal**

 **Fleet and Vehicles**

 **Grounds and Outdoors**

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