

3M Science.
Applied to Life.™

Reliable electrical solutions that keep your power on.

Long-lasting 3M electrical products install faster and perform better—the right protection for less downtime, fewer interruptions.



Industrial Manufacturing Plant

Electrical maintenance and repair

Insulate, connect, protect and more.

Each letter below represents an electrical maintenance application. Match these letters to the facility illustration to see all the places where 3M electrical products provide long-lasting protection.

Applications



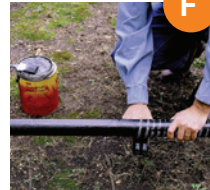
- A** **Insulate Low Voltage ($\leq 1\text{kV}$) Wires and Cables**
- Repair or replace cable insulation
 - Repair busbar insulation
 - Insulate in extreme conditions



- E** **Repair Motors and Electrical Equipment**
- Insulate motor lead connections
 - Replace motor lead connections
 - Repair bus bar insulation
 - Repair metal housing for motors and pumps



- B** **Connect Low Voltage ($\leq 1\text{kV}$) Wires and Cables**
- Connect indoors
 - Connect outdoors



- F** **Protect Cables from Fire, Water, or Corrosion**
- Resist water
 - Resist oil and chemicals
 - Resist abrasion, puncture and cut-through
 - Resist pipe corrosion



- C** **Rejacket and Protect Medium Voltage Cables**
- Make minor repairs to jacket
 - Replace the full jacket
 - Rejacket with abrasion resistance
 - Rejacket with chemical resistance



- G** **Be Safe on the Job**
- Personal protection
 - Arc proofing
 - Fire protection



- D** **Splice and Terminate Medium Voltage Cables**
- Terminate in switchgear and other electrical equipment
 - Terminate outdoors
 - Splice in cable bridges
 - Splice underground



- H** **General Maintenance**
- Metal lubrication and rust resistance
 - Cable management
 - Metal protection

3M Product Solutions

Vinyl Electrical Tape
Rubber, Mastic & Special Use Tape
Corrosion Protection Tape
Wire Identification Products
Wire Connectors
Lubricants and Coatings

Motor Lead Splice Kits
Heat Shrink Tubing
Cold Shrink Tubing
Coatings
Cable Rejacketing Kits
Termination Kits
Splice Kits
Safety products

Industrial manufacturing facility guide



3M Electrical Product Selection Guide

Low Voltage Wire and Cable Maintenance

3M Solution		Faster installation	Outdoor/UV resistance	Low temp. <0°C	High temp. >105°C	Moisture/Humidity	Chemical/Corrosion protection	Applying in small or tight spaces	Irregular shapes or sharp edges	No access to cable end	Mechanical protection	Customer Needs
Connect & Insulate	Spring Connector	•		•				•			•	
	IDC Connector	•	•	•		•		•			•	
	Direct Bury Kits	•	•	•		•					•	
	Butt Connector	•		•		•		•			•	
Insulate & Protect	Vinyl Tape		•	•		•	•		•	•	•	
	Rubber Tape		•		•	•			•	•		
	Mastic Tape/Pads		•	•		•		•	•	•		
	Specialty Tapes*		S, C		S, G, V	C, S	C, S		•	•	G, V	
	Cold Shrink	•	•	•	8400	•	•	•				
	Heat Shrink			•	•	•	•			•	•	
	Resins		•	•		•	•		•	•	•	

NOTE: Products vary within each category. Not all products will be suitable for all the application requirements listed.

* Specialty Tapes coding: S=silicone, C=corrosion protection, G=glass cloth, V=varnished cambric

Important Notice

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.

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