



# Reliable electrical solutions that help keep your power on.

Long-lasting 3M electrical products — the right protection for less downtime, fewer interruptions.

**Wind Farms**



# Insulate, connect, protect and more.

Each letter below represents an electrical construction or maintenance application. Match all letters that apply to the facility illustration to see all the places where 3M electrical products help you deliver efficient, reliable, and sustainable energy solutions.

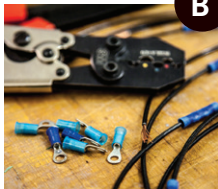
## Applications



- A Insulate Wires and Cables**
- Repair and re-insulate LV cables and busbar
  - Repair or replace busbar insulation
  - Insulate and seal in harsh conditions



- F Motor and Equipment Maintenance**
- Insulate motor lead connections
  - Repair busbar insulation
  - Repair metal housing for motors and pumps



- B Connect Wires and Cables**
- Conductor to conductor (pigtail and inline)
  - Conductor to flat pad or pin-connection



- G Be Safe on the Job**
- Equipment outlet line insulation
  - Personal protection



- C Splice Cables**
- Splice underground buried and submerged
  - Splice in cable tray or ductwork
  - Shearbolt and compression connectors



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



- D Rejacket and Protect Medium Voltage Cables**
- Rejacket buried and submerged cable
  - Provide mechanical and abrasion protection



- I Fire Protection**
- Protective wraps
  - Caulks, putties, foams and large opening solutions
  - Sprays, sealants and tapes



- E Terminate Cables**
- Terminate in switchgear
  - Terminate live-front busbar connections
  - Terminate with dead-front separable equipment connection
  - Terminate in outdoor pole top and substation connection



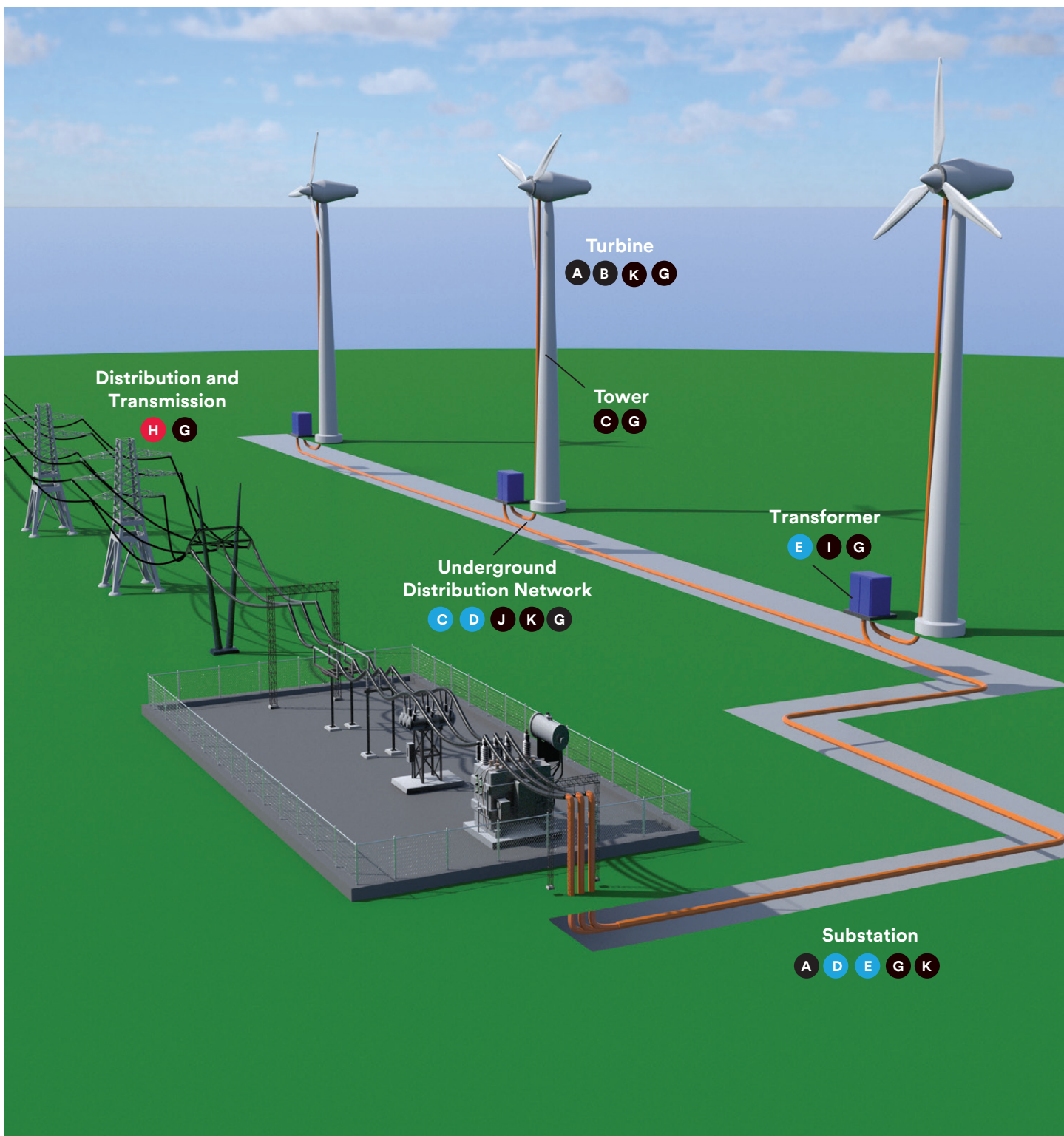
- J Locate & Mark**
- Map path and depth of underground assets



- K Maintain & More**
- Cable identification and cable management
  - Metal lubrication and rust resistance



# Wind Farms



## Voltage rating of 3M product applications

- Indicates high voltage application (69KV-145KV)
- Indicates medium voltage application (5KV- 46KV)
- Indicates low voltage application (<1000V)



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# 3M Electrical Product Application Guide

Application	3M Solution	Customer Needs:									
		Faster installation	Outdoor/UV resistance	Low temps performance < 0°C	High temperatures > 105°C	Moisture/humidity	Chemical/corrosion protection	Small or tight spaces	Irregular shapes or sharp edges	No access to cable end	Mechanical protection
Connect	Spring Connectors	•	•			•				•	
	IDC Connectors	•	•	•	•	•				•	
	Direct Bury Kits	•	•	•	•					•	
	Butt Connectors	•		•	•	•				•	
Insulate & Protect	Vinyl Tapes		•	•	•	•		•	•	•	
	Rubber Tapes		•		•	•		•	•		
	Mastic Tapes			•	•		•	•	•		
	Specialty Tapes*		S,C	S,G,V	C,S	C,S		•	•	G,V	
	Motor Lead Kits		•		•	•		•		•	
	Heat Shrink		•	•	•	•				•	
Splice & Terminate	Resins		•	•	•	•		•	•	•	
	Cold Shrink Splices	•		•	•	•	•			•	
	Shearbolt Connector	•	•	•	•	•					
	Compression Lugs & Connectors		•	•	•	•					
	Terminations	•	•	•	•	•	•				
	Separables			•	•	•					
Locate & Mark	Locators	•	•	•		•		•	•	•	•
	Markers	•	•	•		•		•	•	•	•
Maintain & More	Wire Terminals	•		•	•		•				
	Lubricants	•	•								
	Wire ID						•				
	Cable Ties		•	•			•				

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



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