

**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.



**Metal Processing Plants**

# Electrical maintenance and repair

**Common tasks that are done throughout your facility.  
The letters appear on the facility illustration.**

## Applications



- A Insulate Low Voltage ( $\leq 1kV$ ) 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
  - Repair bus bar insulation
  - Repair metal housing for motors & pumps



- B Connect Low Voltage ( $\leq 1kV$ ) 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
  - Arc proofing
  - Resist fire and explosion



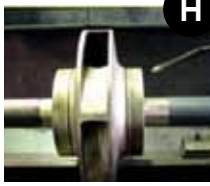
- C Rejacket and Protect Medium Voltage Cables**
- Make minor repairs to jacket
  - Replace the full jacket
  - Rejacket with abrasion resistance
  - Rejacket with chemical resistance



- G Be Safe on the Job**
- Personal protection



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



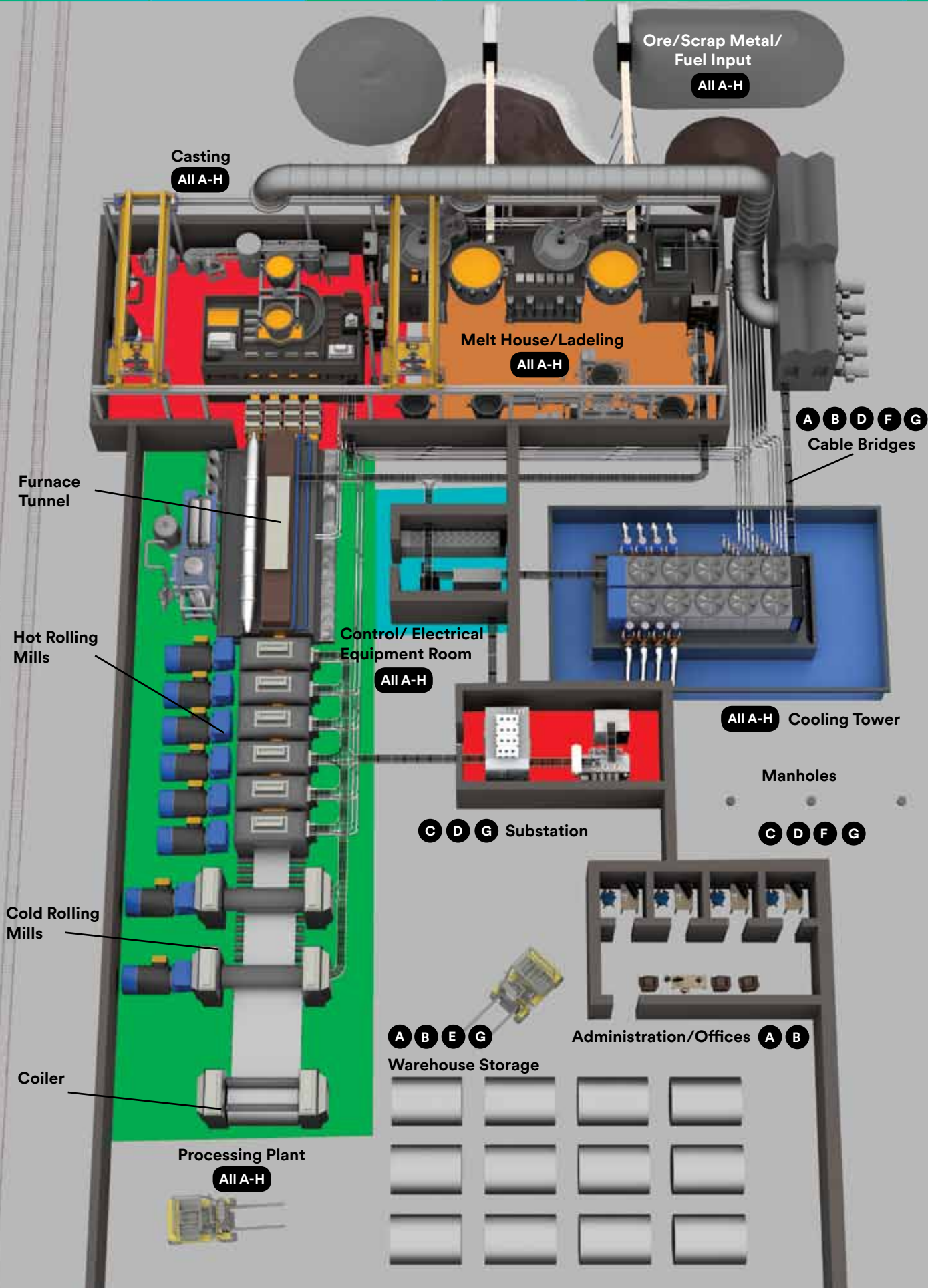
- H General Maintenance**
- Metal lubrication and rust resistance
  - Cable identification and color coding
  - Metal repair

## 3M Product Solutions

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

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





# 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



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