



Reliable electrical solutions that help you keep your power on.

Long-lasting 3M Electrical Products that help minimize downtime and limit interruptions.

**We have
your solution.**



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 and reliable operation.

Applications

**A**

Insulate Wires and Cables

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

**B**

Connect Wires and Cables

- LV to wires and cables (pigtail and inline)
- Conductor to flat pad or pin-connection
- 3M™ Cold Shrink 8400 Series,
- 3M™ Scotchcast™ Resin Splice Kit 82-AN

**C**

Splice Cables

- Splice underground buried and submerged cable
- Splice in cable tray or ductwork
- Shearbolt and compression connectors
- 3M™ Cold Shrink QS-III and QS4 Integrated Splice Kits

**D**

Rejacket and Protect Medium Voltage Cables

- Rejacket buried and submerged cable
- Provide moisture and abrasion resistance
- Scotch® Cable Jacket Repair Tape 2234, HDCW Heat Shrink Cable Repair Sleeve

**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
- 3M™ Cold Shrink QT-III and QT-II Terminations

**F**

Protect Cables from Fire, Water or Corrosion

- Resist water, oil and chemicals
- Resist abrasion, puncture and cut-through
- Resists corrosion
- Scotch® Electric Arc Proofing Tape and 3M™ Scotchrap™ Corrosion Protection Tapes

**G**

Fire Protection

- Protective wraps
- Caulks, putties, foams and large opening solutions
- Sprays, sealants and tapes
- 3M™ Fire Barrier Foam, Sealant and Moldable Putty Pads

**H**

Locate and Mark

- Map path and depth of underground assets
- 3M™ Dynatel™ Locators, 3M™ Electronic Marker System Markers and Path Warning Tape

**I**

Maintain and More

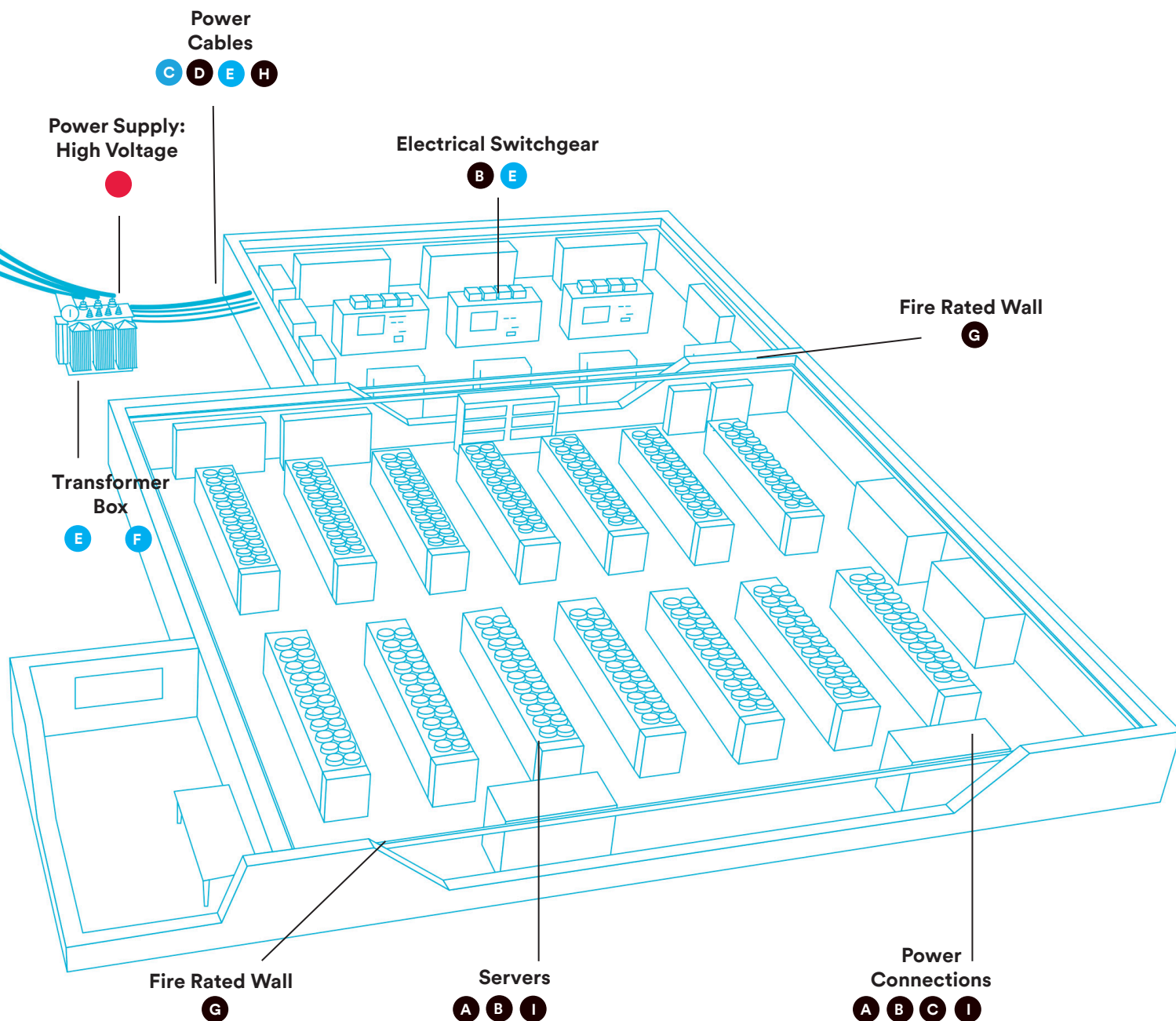
- Cable identification and cable management
- Metal lubrication and rust resistance
- Scotch® 35 Colored Vinyl Tape



Motor and Equipment Maintenance

- Insulate motor lead connections
- Repair busbar insulation
- 3M™ Motor Lead Splice Kits 5300 Series, Scotch® Rubber Tape 130C

Data Processing Center Guide



Voltage rating of 3M product applications

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

3M Electrical Product Application Guide

Application	3M Solution	Customer Needs:									
		Faster installation	Outdoor/UV resistance	Low temps performance	High temperatures > 0°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	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	•	•	•		•		•	•		
	Path 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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