

Purpose

To safely and carefully repair damaged electrical cable be performing an in-Line Splice

Scope / Background

Mine Operations utilizes 2/0 3 conductor SHGGC 8 kv trailing cable to power electrical mining equipment.

Responsibility

Employer, Supervisors & Employees are described in the Ontario OH&S Act Section 25-28

Occupation (s)

Mine Maintenance
Dept
Electricians

Tools Matls & Equipt

Conductor Inline kit
3M Cleaning
Preparation
3M Flame Retardant
Plastic Funnels
Knife
Electrical Tap

Hazards

Electrocution
Slips

PPE

DG Standard PPE

Reference Page

Start Procedure

Procedure

1. Position Cable on a stable work surface, preferably on a splicing table using a tensioning clamp.



Take Photo

Completed

Next

Procedure

2. Cut the cable squarely to remove the damaged section and remove the outer jacket to the prescribed length (10") on both ends.

3. Scruff the jacket ends for 3" with course #80 abrasive and remove dust. This will aid in a good adhesion when the mould is poured.

4. Remove all cable fillers back to end of the jacket and tape the pilot and ground wires back to the jacket with vinyl electrical tape.



Zoom



Take Photo

Completed

Photo Thumb

Next

Procedure

5. Cut the cable squarely to remove the damaged section and remove the outer jacket to the prescribed length (10") on both ends.

6. Scruff the jacket ends for 3" with course #80 abrasive and remove dust. This will aid in a good adhesion when the mould is poured.

7. Remove all cable fillers back to end of the jacket and tape the pilot and ground wires back to the jacket with vinyl electrical tape.



Take Photo

Completed

Next

Procedure

42. Perform an insulated test @ 10kv on the power conductors and 500v on the ground check conductor.

Acceptable insulation value for the power conductors is a minimum 800M ohm but typically exceed 20G ohm.

Ground check conductor insulation value in typical over 20M ohm.

Reference

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Authority / Approved

Health, Safety & Training Manager

DALE SHAFER  DEC 8, 2012
Print Sign Date

Approved by:

Mine & Infrastructure Maintenance Manager

Ricky Bouthillette  DEC 19/12
Print Sign Date