

Jacket Repair Procedure

For 600 Volt and MV Cables Using **3M 2234**

The objective of this procedure is to provide a means of repairing jacket gouges, tears or indents in low and medium voltage cables. The purpose of the jacket is to protect the underlying electrical components from physical and environmental damage. The jacket is not part of the cable's electrical system and therefore serves no dielectric purpose. Repairs should only be performed by qualified personal.

Procedure for 600 Volt Cables:

1. Inspect the damaged jacket to determine if the tear/gouge is limited to the jacket thickness or if it has penetrated into the conductor insulation. If the conductor insulation has been damaged call your local Southwire Representative. If not, repair the jacket as follows:
2. Clean 5 inches on each side of the damaged area with an approved solvent or water. Remove any sharp points from the area to be covered with tape. Mark 5 inches on each side.
3. Apply 1 half lapped layer of 3M Scotch Cable Jacket Repair 2234 to the 5 inch mark on each side. Wrap the entire length with 2 half lapped layers of Scotch Super 33+ vinyl tape and extending 2 inches beyond each mark.

Procedure for Medium Voltage Cables:

1. Inspect the damaged jacket to determine if the tear/gouge is limited to the jacket thickness or if it has penetrated into the copper metal tape shield below. If the copper tape shield is torn and you can see the black insulation semi-con then call your local Southwire Sales Representative. If you cannot see the tape shield or the tape shield is not torn then repair the jacket as follows:
2. Clean 5 inches on each side of the damaged area with an approved solvent or water. Remove any sharp points from the area to be covered with tape. Mark 5 inches on each side
3. Apply 1 half lapped layer of 3M Scotch Cable Jacket Repair 2234 to the 5 inch mark on each side. Wrap the entire length with 2 half lapped layers of Scotch Super 33+ vinyl tape and extending 2 inches beyond each mark.



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Jacket Repair Procedure For 600 Volt and MV Cables Using **3M 130C**

The objective of this procedure is to provide a means of repairing jacket gouges, tears or indents in low and medium voltage cables. The purpose of the jacket is to protect the underlying electrical components from physical and environmental damage. The jacket is not part of the cable's electrical system and therefore serves no dielectric purpose. Repairs should only be performed by qualified personal.

Procedure for 600 Volt Cables:

1. Inspect the damaged jacket to determine if the tear/gouge is limited to the jacket thickness or if it has penetrated into the conductor insulation. If the conductor insulation has been damaged call your local Southwire Representative. If not, repair the jacket as follows:
2. Clean 5 inches on each side of the damaged area with an approved solvent or water. Remove any sharp points from the area to be covered with tape. Mark 5 inches on each side.
3. Apply 4 half lapped layers of 3M 130C insulating tape to the 5 inch mark on each side. Wrap the entire length with 2 half lapped layers of Scotch Super 33+ vinyl tape and extending 2 inches beyond each mark.

Procedure for Medium Voltage Cables:

1. Inspect the damaged jacket to determine if the tear/gouge is limited to the jacket thickness or if it has penetrated into the copper metal tape shield below. If the copper tape shield is torn and you can see the black insulation semi-con then call your local Southwire Sales Representative. If you cannot see the tape shield or the tape shield is not torn then repair the jacket as follows:
2. Clean 5 inches on each side of the damaged area with an approved solvent or water. Remove any sharp points from the area to be covered with tape. Mark 5 inches on each side.
3. Apply 4 half lapped layers of 3M 130C insulating tape to the 5 inch mark on each side. Wrap the entire length with 2 half lapped layers of Scotch Super 33+ vinyl tape and extending 2 inches beyond each mark.

