

TENSILE TESTING OF PARKING BRAKE CABLE COATING

Application

This test method describes the procedure for removing the coating from parking brake cables and the tensile elongation testing of the removed coating.

Apparatus Required

Wire Rope Cutters

Heavy duty type of sufficient quality to cut wire rope.

Single Edge Razor Blade or Box Cutter

Bench Vise

Locking Pliers

#10 "Vise-Grip" or equivalent.

Diagonal Cutters or Strong Scissors

Stripping Block

Fabricated per attached drawing.

Tensile Test Machine

Instron or equivalent.

Conditioning and Test Conditions

All test values indicated herein are based on material conditioned in a controlled atmosphere of 23 +/- 2 °C and 50 +/- 5 % relative humidity for not less than 24 h prior to testing and tested under the same conditions unless otherwise specified.

Date	Action	Revisions
2001 04 02	Revised	Editorial – no technical change A. Cockman
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Page 1 of 6

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Procedure

Method A - Stripping of Coating

1. Cut five 125 - 150 mm lengths of coated cable.
2. Strip 35 - 40 mm of the cable coating from one end of the cut cable lengths. This can be done by rolling the cable while cutting through the coating with the razor blade. Making a longitudinal slice from the circumferential cut will allow the coating to be easily stripped away from the wire.
3. Place the stripped end of the cable in the stripping block and snug (i.e. tighten down) the set screws.
4. Place the stripping block in a bench vise and fan the outer layer of wire from the core wire. (See Figure 1 and 3.)

Caution: The wire ends will be sharp.

5. Grasp the center core wire with the locking pliers and pull the core wire out of the cable. After the core wire is removed, grasp two or three of the remaining outer wires with the locking pliers and remove them. The remaining wires can be easily removed leaving the cable coating intact.
6. Strip the coating from the remaining four cables by repeating steps 2 - 5.

Method B - Stripping of Coating

1. Cut five 125 - 150 mm lengths of coated cable.
2. Strip 35 - 40 mm of the cable coating from both ends of the cut cable lengths. This can be done by rolling the cable while cutting through the coating with a razor blade. Making a longitudinal slice from the circumferential cut will allow the coating to be easily stripped away from the wire.
3. Fan the outer layer of wire away from the core wire on both ends of the sample. Cut the core wire from one end of the sample and cut the fanned wires from the other end of the sample. (See Figure 2.)

Caution: The wire ends will be sharp.

4. Grip the core wire in one jaw of a tensile test machine and grip the fanned wires in the other jaw. Pull the core wire from the cable and remove the remaining wires from the cable coating.
5. Strip the coating from the remaining four cables by repeating steps 2 - 4.