

American National Standard

ANSI/AAMI EC53A:1998/(R)2001

Amendment 1 to ANSI/AAMI EC53: 1995, American National Standard for ECG cables and leadwires



Association for the
Advancement of Medical
Instrumentation



**Association for the Advancement
of Medical Instrumentation**

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Amendment 1 to
ANSI/AAMI EC53:1995/(R)2001

American National Standard
for
ECG cables and leadwires

4.5.9 Connector retention force (BOTH)

Replace the entire section (including deletion of the table) with the following revised text:

4.5.9 Connector retention force

4.5.9.1 Patient leadwire connector to trunk cable yoke

When pulled axially along the direction of the connection, the minimum force required (per leadwire) to separate the patient leadwire connector from the trunk cable yoke shall be not less than 1 lb.

4.5.9.2 Trunk cable instrument connector to instrument connector receptacle

When pulled axially along the direction of the connection, the minimum force required (per lead) to separate the trunk cable instrument connector from the instrument connector receptacle (on equipment for which the lead is intended or recommended for use) should be not less than 7 lbs.

5.5.9 Connector retention force

Replace the entire section with the following text:

5.5.9 Connector retention force

5.5.9.1 To test for compliance with the requirements of 4.5.9.1, place the intended mating connector, or equivalent, in a holding fixture. After the instrument connector or patient leadwire connector has been inserted into the mating connector, attach the pull test device to the cable material approximately six inches from the connector assembly.

Axially pull the cable until the connector assembly disconnects from the mating connector. Record the force in pounds required to cause disconnects. Pull force results must meet or exceed the minimum requirement defined in 4.5.9.1.

5.5.9.2 To test for compliance with the recommendations of 4.5.9.2, place the intended mating connector, or equivalent, in a holding fixture. After the instrument connector or patient leadwire connector has been inserted into the mating connector, attach the pull test device to the cable material approximately six inches from the connector assembly.

Axially pull the cable until the connector assembly disconnects from the mating connector. Record the force in pounds required to cause disconnects. Pull force results should meet or exceed the minimum recommendation defined in 4.5.9.2.

A.4.5.9 Connector retention force

Replace the entire section with the following text:

A.4.5.9 Connector retention force

See A.4.5.6.

Sub-sections 4.5.9.1 and 5.5.9.1 are requirements while sub-sections 4.5.9.2 and 5.5.9.2 are recommendations. Trunk cable instrument connector to instrument connector receptacle testing is applicable only for the equipment specified for use with the trunk cable.

Developed by
Association for the Advancement of Medical Instrumentation

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