Bently Nevada 16710-27

Product identity, verified technical data and engineering decisions

Armored Interconnect Cable. Bently Nevada 16710-27 is a 27 ft armored interconnect cable in the 16710 family, specified for compatible vibration-transducer applications.

Product identity and technical role

Complete model	16710-27
Product type	Armored Interconnect Cable
System context	16710-AA armored interconnect

Verified technical data

Cable family	16710-AA armored interconnect
Ordered length	27 ft (approx. 8.23 m)
Length-code unit	Feet; 27 selects 27 ft
Conductor count	3 conductors
Conductor size	22 AWG (0.5 mm²)
Signal shielding	Shielded cable

Mechanical protection	Armored construction
Equipment-end termination	Three-socket plug
Other-end termination	Terminal lugs
Published length range	3–99 ft for 16710-AA family
Documented system context	177230 Seismic Transmitter and 330450 HTAS references
Connection boundary	Verify exact installed pinout and mating device

Buyer information | Overview

The 27 code specifies cable length in feet. Confirm that the installed route can accommodate the assembly without unsupported bends or tension at the keyed plug; equipment-end pin assignment must come from the site drawing.

The published 16710 family construction gives separate conductors, shielding and mechanical armor. Preserve the intended signal and shield terminations rather than treating armor as a signal conductor.

Before service, isolate both ends and test continuity and unintended shorts. After reconnection, compare the received vibration signal with the approved baseline for the particular transmitter or acceleration system; the cable itself has no standalone channel scale.

Buyer information | Downloads

Technical reference	Applicable Bently Nevada original technical data
Field workflow	Apter Power installation, interface and acceptance guide

Applications and compatibility

Seismic transmitter link

The 177230 literature lists 16710-AA armored cable; check the installed transmitter connector and terminal map.

Acceleration-system link

The 330450 system literature also identifies the 16710-AA cable family; follow that system drawing for the exact installation.

Armored field route

Protect the three shielded conductors along machinery while supporting the keyed plug and terminal lugs.

Maintenance replacement

Check continuity, shield termination and terminal labels before comparing the restored instrument signal with the baseline.

Product precautions

Marking and approval

Match the full offered order code and any approval mark to the approved site drawing.

Mechanical fit

Check the actual mounting reach, route and clearance before energizing the channel.

Connector integrity

Inspect both mating surfaces, strain relief and shield path; isolate the circuit before resistance checks.

Electrical matching

Confirm the probe, extension and sensor length as one calibrated chain, or the documented cable-to-transmitter arrangement.

Target and baseline

Use the installed target material and approved channel record when evaluating a changed indication.

As-left acceptance

Document the component identities, wiring checks and operating result before release.

Lifecycle Status

A current manufacturer lifecycle phase for this complete identity is not established. Confirm any proposed replacement with the installed machine and monitoring-system records.

Preserve the complete marking and configuration before exchange. Availability and dispatch are confirmed in the quotation.

Available Unit Details

Compare the offered unit marking and connection arrangement with the installed part. Request available-unit photographs and confirm accessories and supply scope in the quotation.

Engineering FAQ

How should the three-socket end of 16710-27 be matched to the installed instrument?	Compare the exact keyed plug and its three contacts with the equipment drawing before connection. Verify each conductor path to the corresponding lug; plug fit alone does not establish correct signal assignment.
How should the shield of 16710-27 be terminated?	Follow the installed system wiring diagram for the shield and signal return. Check for unintended multiple ground points or an open shield after fitting the lugs; do not assume the armor is the signal return.

What continuity tests are useful before installing 16710-27?	With both ends disconnected, test each conductor end to end and check for unintended conductor-to-conductor or conductor-to-armor shorts. Record the measured results with the installed terminal designations.
How should the armor of 16710-27 be routed around machinery?	Protect the armored run from abrasion, crushing, unsupported bends and hot surfaces. Follow the equipment drawing for minimum clearance and secure the cable without loading the three-socket plug.
Can 16710-27 be shortened in the field without changing the installation review?	Changing length or terminating a cut cable alters the ordered 27 ft assembly. Check the approved system drawing and connector-to-lug wiring before any alteration, then repeat continuity and insulation checks.
How can a fault in 16710-27 be distinguished from a connected sensor fault?	Disconnect the cable under the site procedure, isolate the conductor and shield paths, and test the cable separately. Reconnect a verified path before condemning the sensor or receiving electronics.
Does 16710-27 establish the electrical rating of a complete vibration channel?	No. It is an interconnect cable. Check the specific transmitter or acceleration-system document and installed device markings for supply, output, temperature and approval conditions.
What records should accompany replacement of 16710-27?	Record the complete cable code, route, plug and lug mapping, shielding termination and continuity results. Compare the restored signal with the approved baseline for the specific monitoring system.

Discuss the complete model and fitted revision with Apter Power.
sales13@apterpower.com | +86 18030235313

Technical basis

Bently Nevada 177230 Seismic Transmitter Datasheet, 177232 Rev. U, and 330450 High Temperature Acceleration System Datasheet, 169885 Rev. H.

Other Bently Nevada references

Bently Nevada 330103-00-16-50-02-00	3300 XL 8 mm Proximity Probe
Bently Nevada 330130-085-00-02	3300 XL 8 mm Extension Cable
Bently Nevada 330903-00-04-05-02-05	3300 XL NSv Proximity Probe
Bently Nevada 330930-045-03-05	3300 XL NSv Extension Cable
Bently Nevada 330103-00-04-20-02-05	3300 XL 8 mm Proximity Probe