Bently Nevada 84661-33

Two-Conductor Armored Seismic Interconnect Cable

33-Foot Armored Seismic Route, Shield and Receiver Review

Inspect the longer field route as an installed circuit rather than an isolated length of armored cable.

Before You Order

Preserve the 33-foot length	This selection is 33 ft, equal to 10.0584 m. The suffix is not metres and should remain on the complete cable order.
Compare the long route and plug geometry	Request views of the straight two-socket end, armor transitions and terminal lugs. A route survey must include the entry and termination positions.
Exclude the 21128 housing application	The manufacturer assigns a different right-angle cable family for that housing; do not accept this straight 84661 assembly by socket count alone.

The installed relationship

Straight two-socket end	Check socket retention and the mating instrument interface.
Armored 33-foot route	Support the transition and retain the selected route length.
Lug end and shield	Trace isolated signal paths to the receiving terminals; inspect shield continuity separately.

Construction applies to the 84661 interconnect; the suffix selects feet. Metre values are exact unit conversions. Connected instrument excitation, sensitivity, measuring range and temperature ratings are separate from cable construction.

Installation decision sequence

Trace the complete route	Record the two-contact sensor, receiver terminals and intended shield grounding through the 33-foot installation.
Inspect supports and entry points	Check armor damage, suspended loads, ferrules and lug strain while the circuit is safely isolated.
Separate cable and channel proof	Test the disconnected cable as approved, then verify excitation and receiving response after restoring the documented circuit.

Diagnostic checkpoints

Noise after rerouting

Review segregation and shield/grounding before changing sensor calibration.

Continuity good, channel absent

Check connected sensor excitation and receiver conditions.

Fault at a support point

Inspect local mechanical damage and underlying insulation.

Close the model-specific checks

Route	The long armored run is independently supported.
Terminations	Two signal paths and the shield are correctly identified.
Receiver	The complete instrument circuit returns its accepted response.

Long two-conductor run: what the source establishes

Length conversion	33 ft x 0.3048 = 10.0584 m exactly; use the manufactured length when surveying the route.
Cable architecture	Two-conductor, twisted, shielded 22 AWG armored construction with straight moisture-resistant female plug and terminal lugs.
Family length bounds	3 ft minimum and 96 ft maximum for 84661. These bounds do not supply an electrical loss limit.
Housing distinction	84661 is excluded from the 21128 housing application; the listed 89477 family has a right-angle plug and 18 AWG construction.

Decisions from the observed installation

Signal degrades only through the extended run

Inspect isolated conductor and shield paths, terminations and receiving-circuit requirements; do not invent an allowable resistance from cable length alone.

Surplus cable is removed to tidy the installation

Review the selected manufactured assembly and approved instrument requirements before any alteration; retain the offered 33-foot identity.

The evidence to retain for 84661-33

Route map	Identify both endpoints, cable supports and exposed armor transitions along the long run.
Terminal proof	Retain the separate conductor and shield destinations before disconnection.
Operational proof	Document the receiving measurement with the actual connected instrument and test conditions.

Technical basis

Bently Nevada 330500 Velomitor Piezo-velocity Sensor Datasheet 141632 Rev. V

Related product references

Separate supply references; listing does not establish interchangeability.

Bently Nevada 84661-10	Two-Conductor Armored Seismic Interconnect Cable
Bently Nevada 330500-03-00	Piezo-velocity sensor
Bently Nevada 16710-21	Three-Conductor Armored Seismic Interconnect Cable
Bently Nevada 330902-00-20-10-02-05	Armored NSv Proximity Probe



Discuss 84661-33 and the installed application with Apter Power. sales13@apterpower.com | +86 18030235313