84661-12

Standard Armored Interconnect Cable

Bently Nevada 84661-12 is a 12 ft standard armored interconnect cable for compatible Bently Nevada velocity-sensor connections.

84661-12 configuration dashboard

Mechanically protected signal route

Stainless-steel armor shields the low-level velocity-sensor cable across exposed machine paths.

Defined sensor-to-monitor transition

A moisture-resistant female connector and ring-lug termination preserve endpoint identity.

Twelve-foot service reach

The ordered length supports a documented route without splices or improvised connector changes.

Exact order-code identity

Cable family	84661 standard armored interconnect cable
Ordered length	12 ft (approximately 3.66 m)
Conductor size	0.382 mm2 (22 AWG)
Conductor arrangement	Two-conductor, twisted and shielded
Mechanical protection	Stainless-steel armor
Sensor-end termination	Moisture-resistant two-socket female connector
Monitor-end termination	Terminal ring lugs
Temperature range	-29 to +121 deg C

84661-12 selects 12 ft from the 84661 armored cable family. The assembly carries two shielded 22 AWG conductors under stainless-steel armor between a moisture-resistant sensor connector and monitor-end ring lugs.

Standard Armored Interconnect Cable technical capability map

Documented minimum length	3 ft (0.91 m)
Length ordering increment	1 ft

Documented maximum length	96 ft (29 m)
Application boundary	Compatible 330500 or 330505 velocity-sensor signal path

Installed signal or connection path

Acceleration sensor > **3-socket plug** > **84661-12** > **Terminal lugs** > **Receiving circuit**

System interpretation boundary

The armor provides route protection but does not replace correct support, strain relief, shield handling or endpoint labeling. Sensor and monitor terminations must be recorded before the original cable is disconnected.

Acceptance is connection-led: verify the full cable marking, length, connector condition, conductor and shield continuity, insulation condition and correct landing at the intended receiving circuit.

Application fit decisions for 84661-12

Velocity-sensor interconnection

Carry the sensor signal from a compatible 330500 or 330505 installation to the monitor circuit.

Exposed machinery routing

Use the stainless-steel armor where the route needs additional mechanical protection.

Moisture-resistant sensor joint

Preserve the two-socket connector seal and keep the mating area clean.

Maintenance cable replacement

Match the 12 ft length and endpoint identities before disturbing the existing wiring.

Engineering decision matrix

How is the 12 ft length of 84661-12 confirmed?	Measure the routed assembly and compare the complete 84661-12 marking before removing the installed cable.
Which sensor-end connector is used on 84661-12?	The cable uses a moisture-resistant two-socket female connector for the compatible velocity sensor.
How should monitor-end ring lugs on 84661-12 be recorded?	Photograph each lug and terminal designation, then label the conductors and shield before disconnection.
What protection does the armor of 84661-12 provide?	It protects the routed cable mechanically but does not permit pulling on the ferrule, unsupported weight or sharp bends.

Applications must be evaluated against the exact installed machine drawing, target, companion hardware and receiving channel. Related product references do not imply substitution.

84661-12 service controls and maintenance logic

Photograph both endpoints

Capture the sensor connector, every ring-lug destination and shield termination before removal.

Do not pull on the armor

Support the cable body and handle the connector rather than the armor ferrule.

Preserve conductor identity

Restore every signal conductor and shield to the documented terminal.

Protect the moisture seal

Inspect the female connector and mating surface before reconnection.

Secure the twelve-foot route

Provide strain relief so weight and vibration do not load either endpoint.

Test before return to service

Verify continuity, insulation and the expected channel response under the approved procedure.

Additional technical questions

What temperature boundary applies to 84661-12?	The documented standard armored cable range is -29 to +121 deg C; verify actual routing temperatures and nearby heat sources.
Can 84661-12 be used with a 21128 velocity-transducer housing?	The documented 84661 cable is not specified for that housing; confirm the approved cable and sensor arrangement before use.
How should the shield of 84661-12 be handled?	Reproduce the approved termination exactly and prevent accidental contact with signal or grounded hardware outside the drawing.
What proves 84661-12 is ready for service?	Record connector condition, continuity, insulation, terminal identity and the expected receiving-channel response after reconnection.

Technical notes

Exact configuration	12 ft 84661 armored, shielded 22 AWG interconnect cable with female connector and monitor ring lugs
Use boundary	Confirm compatible sensor, monitor input and wiring drawing before installation
Technical reference	Bently Nevada 330505 Low Frequency Velocity Sensor Datasheet 169872 Rev. F

84661-12 source record and supported references

Manufacturer reference	Bently Nevada 330505 Low Frequency Velocity Sensor Datasheet 169872 Rev. F
Applicability	Facts are limited to the exact order-code selections and stated matched-system conditions.
Public page	Exact product page linked from the first-page model title
Evidence boundary	No neighboring-model option or unsupported lifecycle conclusion is assigned to this product.

Verified related product references

Recommended product	Bently Nevada 330980-70-05
Recommended product	Bently Nevada 330425-01-00
Recommended product	Bently Nevada 330500-07-00
Recommended product	Bently Nevada 330706-005-046-10-02-00
Recommended product	Bently Nevada 200355-00-00-00



Discuss the exact marking and installed relationship with Apter Power.
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Use the complete marking, installed relationship, photographs and measured baseline as the service record for 84661-12.