

84661-34

Armored Accelerometer Interface Cable

Bently Nevada 84661-34 is a 34-foot armored accelerometer interface cable. It connects a compatible IEPE accelerometer to the assigned monitoring input while protecting the field conductors.

Manufacturer	Bently Nevada
Product name	Armored Accelerometer Interface Cable
Product family	Bently Nevada IEPE Accelerometer Accessories
Part number	84661-34
Country of origin	USA

Core system roles

- 1

Carries an IEPE accelerometer signal to compatible monitoring hardware
- 2

Provides armored protection for the field cable run
- 3

Terminates the sensor end with a moisture-resistant two-socket connector
- 4

Terminates the cabinet end with individual lugs

Engineering note

Route 84661-34 without crushing the armor, keep the sensor connector sealed and land shield and signal conductors exactly to the approved channel drawing before checking bias and response.

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1. Technical data

Official manufacturer values for the complete product record are arranged below for engineering review.

Cable construction	2-conductor twisted shielded
Conductor size	22 AWG
Mechanical protection	Armored
Sensor-end connector	2-socket moisture-resistant female
Monitor-end termination	Terminal lugs

Ordered length	34 ft
Approximate metric length	10.36 m
Minimum orderable length	3 ft
Maximum orderable length	96 ft

Configuration verification

Complete model	84661-34
Official product family	Bently Nevada IEPE Accelerometer Accessories
Primary source	IEPE Accelerometers Datasheet — 124M2609 Rev. G
Installation record	Physical marking and installed interfaces retained

Parameter authority	Only values directly assigned to the complete model are used
Identity authority	Physical marking and manufacturer ordering code
Change control	Installed arrangement retained before replacement
Acceptance authority	Approved site test and final diagnostic record

2. Functions, components and applications

Interface 1	compatible Bently Nevada IEPE accelerometer
Interface 2	assigned accelerometer monitor input
Interface 3	field cable supports
Interface 4	cabinet terminal strip

Turbine casing acceleration monitoring	Carries an IEPE accelerometer signal to compatible monitoring hardware
Compressor accelerometer cabling	Provides armored protection for the field cable run
Pump vibration sensor connection	Terminates the sensor end with a moisture-resistant two-socket connector
Armored industrial sensor routing	Terminates the cabinet end with individual lugs

Related Apter Power product pages

200150-06-CN	General-purpose accelerometer	Open product page
200155-00-CN	Low-frequency accelerometer	Open product page
200151-40-03-00	Accelerometer interface cable	Open product page
16710-50	Armored accelerometer cable	Open product page

Integration statement

Bently Nevada 84661-34 is a 34-foot armored accelerometer interface cable. It connects a compatible IEPE accelerometer to the assigned monitoring input while protecting the field conductors.

3. Precautions and return-to-service evidence

- 1

Confirm the 84661-34 length and connector execution from the cable tag.
- 2

Isolate the monitor input before disturbing terminal lugs.
- 3

Inspect armor, jacket and connector sealing for transit or service damage.
- 4

Support the cable so its mass does not load the accelerometer connector.
- 5

Keep the run separated from high-current switching conductors.
- 6

Preserve the documented shield termination and avoid unintended ground loops.
- 7

Check continuity and insulation before reconnecting the monitor.
- 8

Verify sensor bias and a controlled vibration response before release.

Commissioning evidence matrix

Identity	Full 84661-34 marking confirmed
Installed component	compatible Bently Nevada IEPE accelerometer
Paired hardware	assigned accelerometer monitor input
Primary duty	Turbine casing acceleration monitoring
Functional test	Carries an IEPE accelerometer signal to compatible monitoring hardware
Release record	Diagnostics and as-left response retained

Turbine casing acceleration monitoring	Verify the carries an iepe accelerometer signal to compatible monitoring hardware response under controlled conditions
Compressor accelerometer cabling	Verify the provides armored protection for the field cable run response under controlled conditions
Pump vibration sensor connection	Verify the terminates the sensor end with a moisture-resistant two-socket connector response under controlled conditions
Armored industrial sensor routing	Verify the terminates the cabinet end with individual lugs response under controlled conditions

4. Engineer FAQ and controlled source record

How should wiring or cabling for 84661-34 be recorded?	Record conductor identity, shield termination, connector orientation, cable route and the as-found diagnostic state before disconnecting 84661-34.
What installation control is important for 84661-34?	Use the model-specific mounting arrangement, protect mating surfaces and maintain the documented cable support and mechanical clearance for 84661-34.
How is 84661-34 checked during commissioning?	Apply the approved controlled test for turbine casing acceleration monitoring, verify polarity or direction where applicable, and compare the measured response with the configured channel.
Can parameters from a similar model be used for 84661-34?	No. Retain only values and configuration details that apply directly to the complete 84661-34 ordering code and installed system.

What maintenance evidence should be retained for 84661-34?	Retain the full 84661-34 identity, as-left mounting and connections, continuity or bias checks, diagnostics and the final functional-test result.
What should be verified before returning 84661-34 to service?	Confirm secure mounting, connector integrity, restored configuration, stable signal behavior and the intended response of the associated monitoring channel.
What must be matched before replacing 84661-34?	Match the complete 84661-34 marking, armored accelerometer interface cable, installed mounting or connector execution and the approved equipment record before removal.
Which system components should be checked with 84661-34?	Confirm the installed compatible Bently Nevada IEPE accelerometer, assigned accelerometer monitor input and the assigned monitoring or connection point are the documented combination for 84661-34.

Source identifiers

Manufacturer	Bently Nevada / Baker Hughes
Official document	IEPE Accelerometers Datasheet
Publication / revision	124M2609 Rev. G
Applied product	84661-34