

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 family	Bently Nevada IEPE Accelerometer Accessories
Part number	84661-34
Country of origin	USA
Source	IEPE Accelerometers Datasheet — 124M2609 Rev. G

Product role

- 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

Document purpose

Technical review	Model identity and manufacturer-published values
Installation review	Mounting, connection and companion-hardware checks
Commissioning review	Controlled signal, diagnostic and functional response

APTER POWER SALES TEAM

WHATSAPP / PHONE
+86 180 3023 5313
EMAIL
sales13@apterpower.com
WEBSITE
www.apterpower.com



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1. Technical specifications

The following values are transcribed only from the manufacturer records named in this document.

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 identity checks

Complete model	84661-34
Manufacturer part	84661-34
Installed family	Bently Nevada IEPE Accelerometer Accessories
Record authority	124M2609 Rev. G

2. System function and integration

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.

Compatible installation elements

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

Engineered application matrix

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 products on Apter Power

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

3. Installation and commissioning controls

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.

- 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.

Acceptance record

Identity	84661-34 recorded
Mounting / connection	compatible Bently Nevada IEPE accelerometer
Companion hardware	assigned accelerometer monitor input
Functional duty	Turbine casing acceleration monitoring
As-left evidence	Connections, diagnostics and controlled response recorded

Return-to-service sequence

1	Confirm physical security and connector condition
2	Restore the documented channel or system configuration
3	Observe stable diagnostics before applying a controlled test
4	Record the final process response and release authorization

4. Engineer FAQ and 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.

Manufacturer source identifiers

Document title	IEPE Accelerometers Datasheet
Publication / revision	124M2609 Rev. G
Manufacturer	Bently Nevada / Baker Hughes

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