

16710-12

12 ft Armored Accelerometer Interconnect Cable

Bently Nevada 16710-12 is a 12 ft armored interconnect cable with three shielded 22 AWG conductors. It connects the compatible acceleration or seismic sensing device to terminal-based monitoring wiring while protecting the routed signal cable.

BRAND	Bently Nevada	FAMILY	Bently Nevada seismic and acceleration measurement systems
PART	16710-12	SYSTEM ROLE	Carries the sensor connection to terminal-based field wiring

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16710-12

MANUFACTURER SOURCE RECORD

330450 High Temperature Acceleration System Datasheet
Bently Nevada publication 169885, Revision H

Product Overview

SYSTEM FUNCTION

Bently Nevada 16710-12 is a 12 ft armored interconnect cable with three shielded 22 AWG conductors. It connects the compatible acceleration or seismic sensing device to terminal-based monitoring wiring while protecting the routed signal cable.

FUNCTION 1

Carries the sensor connection to terminal-based field wiring

FUNCTION 2

Protects the routed signal path with an external armored construction

FUNCTION 3

Provides preterminated interfaces at the sensor and panel ends

FUNCTION 4

Supports length-coded routing for an engineered machinery-monitoring installation

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	Bently Nevada seismic and acceleration measurement systems
Primary interface	Carries the sensor connection to terminal-based field wiring
Engineering context	The cable connects the compatible Bently Nevada sensing device to terminal-based monitoring wiring while preserving the recorded signal path and channel pairing.
Commissioning duty	Verify continuity, baseline condition, channel response and alarm action before returning the machine to service.

TECHNICAL NOTE

Match the three-socket plug to the documented Bently Nevada sensor and the terminal lugs to the approved field wiring. Protect the armor and shield, then verify continuity, polarity and channel response.

Technical Data

PARAMETER	VALUE	PARAMETER	VALUE
Part number	16710-12	Conductor size	22 AWG (0.5 mm2)
Product type	Standard armored interconnect cable	Cable construction	Shielded, armored
Cable length	12 ft	Sensor-end connection	3-socket plug
Approximate length	3.6 m	Field-end connection	Terminal lugs
Conductor count	3	Ordering increment	1 ft (0.3 m)

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
16710-33	Bently Nevada armored cable	View 16710-33 page
16710-13	Bently Nevada armored cable	View 16710-13 page
16710-50	Bently Nevada armored cable	View 16710-50 page
16925-20	Bently Nevada interconnect cable	View 16925-20 page
16925-60	Bently Nevada interconnect cable	View 16925-60 page
16925-66	Bently Nevada interconnect cable	View 16925-66 page
330400-02-CN	Bently Nevada accelerometer	View 330400-02-CN page
330450-80-00	Bently Nevada acceleration system	View 330450-80-00 page

ENGINEERING BOUNDARY

Confirm 16710-12, the twelve-foot routing requirement, three-socket connector, terminal-lug assignments, shield and armor condition, grounding and controlled channel-response results before commissioning.

Applications and Precautions

Common Applications

High-temperature acceleration-system wiring

Connects the compatible field sensing arrangement to remote terminal wiring in a documented 330450 installation.

Seismic transmitter interconnection

Provides the armored cable option identified in the 177230 transmitter ordering information.

Gearbox casing-vibration routing

Protects the signal cable between a compatible casing sensor and the monitoring termination.

Machinery-panel cable replacement

Restores a recorded twelve-foot connection without changing the approved sensor and monitoring-channel pairing.

Product Precautions

- 1

Confirm the complete 16710-12 marking and the twelve-foot cable-length code.
- 2

Place the associated machinery-monitoring channel in the approved maintenance state.
- 3

Isolate the connected circuit and use ESD-safe handling at the sensor and monitoring terminals.
- 4

Record the three-socket plug orientation, terminal-lug identifiers and shield termination before removal.
- 5

Inspect the armor, cable jacket, plug contacts and terminal lugs for mechanical damage or contamination.
- 6

Route the replacement without crushing, abrasion, sharp bends or tensile loading.
- 7

Restore the documented shield, grounding, polarity and monitoring-channel configuration.
- 8

Verify continuity, baselene condition, channel response and alarm action before returning the machine to service.

IMPORTANT NOTICE

Confirm 16710-12, the twelve-foot routing requirement, three-socket connector, terminal-lug assignments, shield and armor condition, grounding and controlled channel-response results before commissioning.

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	16710-12
Configuration	Restore the documented shield, grounding, polarity and monitoring-channel configuration.
Functional release	Verify continuity, baseline condition, channel response and alarm action before returning the machine to service.

Engineer FAQ

Q1

What is Bently Nevada 16710-12?

It is the twelve-foot execution of the 16710 standard armored interconnect-cable family used between compatible Bently Nevada acceleration or seismic hardware and terminal-based wiring.

Q3

How is Bently Nevada 16710-12 constructed?

The official datasheet identifies a shielded armored cable with three 22 AWG conductors, a three-socket plug at one end and terminal lugs at the other.

Q5

What should be recorded before removing Bently Nevada 16710-12?

Record the sensing device, monitoring channel, plug orientation, terminal-lug identifiers, shield termination, route and as-found diagnostic state.

Q7

How should grounding be checked for Bently Nevada 16710-12?

Reproduce the shield and grounding method shown in the applicable Bently Nevada system drawing and verify there is no unintended second ground path.

Q2

What does the 12 suffix identify on Bently Nevada 16710-12?

The suffix identifies a cable length of 12 ft, approximately 3.6 m, in the manufacturer's length-coded ordering structure.

Q4

Which official systems list Bently Nevada 16710-12?

The 177230 Seismic Transmitter and 330450 High Temperature Acceleration System datasheets list the 16710 armored interconnect-cable family and include 12 ft as a standard length.

Q6

How should Bently Nevada 16710-12 be routed?

Protect the cable and armor from crushing, abrasion, sharp bends, hot surfaces beyond the compatible system limits and sustained tensile loading.

Q8

What acceptance test is required after installing Bently Nevada 16710-12?

Verify conductor continuity, terminal identity, shield condition, baseline channel status, controlled vibration response and the associated alarm or diagnostic action.

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