

INDUSTRIAL AUTOMATION PRODUCT

16710-50

Armored Accelerometer Interconnect Cable

Bently Nevada 16710-50 is a 50 ft armored interconnect cable for 330400 and 330425 case-mounted accelerometers. It carries the sensor signal and excitation between the accelerometer and its associated monitoring input.

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	330400 and 330425 Accelerometer Systems
Part number	16710-50
Country	USA
HS code	8537101190

APTER POWER SALES TEAM

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Technical Specifications

Technical values below are limited to the named Bently Nevada product record.

PARAMETER	TECHNICAL VALUE
Cable series	16710
Cable length option	50 ft (15.2 m)
Ordering increment	1 ft (305 mm)
Minimum orderable length	3 ft (0.9 m)
Maximum orderable length	99 ft (30 m)
Conductors	3
Conductor size	22 AWG (0.5 mm ²)
Shielding	Shielded
Mechanical protection	Armored
Sensor-end termination	3-socket plug
Instrument-end termination	Terminal lugs
Compatible sensor series	330400; 330425

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	330400 accelerometer
Companion hardware	330425 accelerometer
Field connection	approved sensor mating connector
Primary system function	Transfers accelerometer output and excitation between the sensor and monitoring hardware
Controlled acceptance duty	Gas-turbine casing vibration

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System Role and Architecture

Bently Nevada 16710-50 is a 50 ft armored interconnect cable for 330400 and 330425 case-mounted accelerometers. It carries the sensor signal and excitation between the accelerometer and its associated monitoring input.

FUNCTION 1

Transfers accelerometer output and excitation between the sensor and monitoring hardware

FUNCTION 2

Adds mechanical armor for exposed industrial cable routes

FUNCTION 3

Terminates the sensor end with the specified three-socket connection

FUNCTION 4

Provides lugged conductors for controlled panel termination at the instrument end

Matched system components

- 330400 accelerometer
- 330425 accelerometer
- approved sensor mating connector
- compatible vibration-monitor input

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	330400 accelerometer
Companion hardware	330425 accelerometer
Field connection	approved sensor mating connector
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Applications and Engineering Context

Gas-turbine casing vibration

Transfers accelerometer output and excitation between the sensor and monitoring hardware

Compressor case acceleration monitoring

Adds mechanical armor for exposed industrial cable routes

Pump bearing-housing acceleration

Terminates the sensor end with the specified three-socket connection

Armored sensor routing in exposed plant areas

Provides lugged conductors for controlled panel termination at the instrument end

TECHNICAL NOTE

Seat the three-socket plug on the accelerometer before clamping the armored route, and land the lugged conductors according to the approved channel drawing. Check shield continuity, isolation and signal polarity before energizing the sensor input.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	16710-50 / 16710-50 recorded
Physical interface	330400 accelerometer
Companion check	330425 accelerometer
Functional proof	Transfers accelerometer output and excitation between the sensor and monitoring hardware
Application test	Gas-turbine casing vibration

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Engineering Precautions

1

Confirm the complete 16710-50 marking and 50 ft length before routing.

2

Isolate accelerometer excitation and the monitor input before connecting or disconnecting the plug.

3

Inspect the armor, shield and three-socket plug for damage before installation.

4

Support the cable independently so armor weight does not load the sensor connector.

5

Keep the shield termination and field ground arrangement consistent with the approved drawing.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
330106-05-30-05-02-00	3300 XL 8 mm reverse-mount probe	Open product page
330103-00-16-10-02-05	3300 XL 8 mm proximity probe	Open product page
330103-00-12-10-02-00	3300 XL 8 mm proximity probe	Open product page
3300/40M 176449-01	Proximator monitor	Open product page
3500/64M 140734-05	Dynamic pressure monitor	Open product page

MANUFACTURER SOURCE RECORD

Case-Mounted Accelerometers Datasheet

124M2609 Rev. H

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