

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.

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

330400 and 330425 Accelerometer Systems

PART

16710-50

ORIGIN / HS

USA / 8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



16710-50

PRODUCT OVERVIEW

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.

1

Transfers accelerometer output and excitation between the sensor and monitoring hardware

2

Adds mechanical armor for exposed industrial cable routes

3

Terminates the sensor end with the specified three-socket connection

4

Provides lugged conductors for controlled panel termination at the instrument end

SYSTEM COMPONENTS

330400 accelerometer

330425 accelerometer

approved sensor mating connector

compatible vibration-monitor input

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	Proximitior monitor	Open product page
3500/64M 140734-05	Dynamic pressure monitor	Open product page

TECHNICAL DATA

PARAMETER	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

PARAMETER	VALUE
Conductor size	22 AWG (0.5 mm2)
Shielding	Shielded
Mechanical protection	Armored
Sensor-end termination	3-socket plug
Instrument-end termination	Terminal lugs
Compatible sensor series	330400; 330425

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.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.
- 6 Separate the accelerometer cable from high-energy power conductors and switching circuits.
- 7 Verify conductor identity and lug torque at the instrument end before energization.
- 8 Confirm bias, noise floor, polarity and live vibration response before releasing the channel.

ENGINEER FAQ

Q1 What is the installed length of 16710-50?

Length option 50 specifies 50 ft, approximately 15.2 m.

Q2 Which sensors are directly associated with 16710-50?

The official accelerometer datasheet lists the 16710 armored cable for 330400 and 330425 accelerometers.

Q3 How is 16710-50 terminated at each end?

It has a three-socket plug at the sensor end and terminal lugs at the instrument end.

Q4 What conductors are used in 16710-50?

The cable uses three shielded 22 AWG conductors with mechanical armor.

Q5 How should the shield of 16710-50 be landed?

Follow the approved channel drawing so shield continuity and grounding remain consistent with the installed monitor and cabinet practice.

Q6 Can 16710-50 be routed with motor power cables?

Use the plant segregation rules for low-level accelerometer signals and avoid routes dominated by switching or high-energy conductors.

Q7 What should be recorded before replacing 16710-50?

Record the cable route, sensor identity, plug orientation, conductor landing, shield termination and channel assignment.

Q8 How is a newly installed 16710-50 verified?

Check armor condition, conductor continuity, shield isolation, sensor bias, background noise, polarity and live vibration response.