Bently Nevada 16710-17

Complete Product Information

Bently Nevada 16710-17 is a 17 ft armored, shielded three-conductor cable for 330400 and 330425 casing-acceleration transducers.

01 Product identity and verified data

Complete model	16710-17
Product type	Armored accelerometer interconnect cable
Manufacturer	Bently Nevada
Technical source	Bently Nevada 330400 and 330425 Accelerometer Acceleration Transducers Datasheet, 141638 Rev. AB
Cable family	16710 armored accelerometer cable
Selected length	17 ft (approximately 5.0 m)
Conductor count	3 conductors
Conductor size	22 AWG (0.5 mm2)
Shielding	Shielded
Mechanical protection	Armored
Sensor-end termination	3-socket plug
Monitor-end termination	Terminal lugs

Engineering purpose

Bently Nevada 16710-17 is a 17 ft armored, shielded three-conductor cable for 330400 and 330425 casing-acceleration transducers.

Selected order-code snapshot

Selected cable	17 ft armored 16710 interconnect, approximately 5.0 m.
Signal construction	Three shielded 22 AWG conductors.
Termination	Three-socket accelerometer plug to terminal lugs.

02 Technical capability and engineering overview

Supported sensors	330400 and 330425 accelerometers
Orderable cable range	3 to 99 ft
Ordering increment	1 ft
Companion sensor supply	-24 +/-0.5 V DC; 2 mA nominal bias current

Companion sensor output bias	-8.5 +/-0.5 V DC
Companion system max field cable	305 m without signal degradation

Evidence boundary

The exact cable construction and 17 ft suffix are defined in 141638 Rev. AB. Sensor sensitivity, range and bias values apply to the companion 330400 or 330425 sensor, not to the passive cable.

Engineering overview

The 17 ft length links a 330400 or 330425 accelerometer to its assigned monitoring input. This exact route length and terminal assignment must agree with the installed cable schedule.

The cable uses three shielded 22 AWG conductors with armor, a three-socket sensor plug and terminal lugs at the receiving end. Preserve conductor identity, shield termination and armor support during replacement.

Cable acceptance is performed with the channel isolated: inspect the plug and lugs, verify each conductor end to end, reconnect to the approved wiring drawing and prove the returned casing-acceleration signal.

Application map

330400 acceleration channel

Connect a 330400 100 mV/g accelerometer to its assigned casing-vibration monitoring input.

330425 acceleration channel

Connect a 330425 25 mV/g accelerometer where the higher 75 g peak measurement range is required.

Gear-mesh monitoring

Carry the wide-band casing-acceleration signal from the approved gear or bearing-housing mounting location.

Installed cable replacement

Match the 17 ft length, three-socket plug, terminal lugs, conductor map, shield and armor route.

03 System interpretation and selection boundaries

Product boundary	Apply the listed facts to 16710-17 and the documented 330400 and 330425 accelerometer interconnect cabling context only.
Interface boundary	Connector, terminal, bus, cable and companion-device assignments must match the installed drawing.
Electrical boundary	Use exact-model values only; system-level ratings remain conditional on the complete installed configuration.
Configuration boundary	Switches, jumpers, addresses, firmware and project settings must be reconciled before energization.
Diagnostic boundary	Interpret indicators and fault states together with measured inputs, outputs and host-system status.
Acceptance rule	Use the approved system baseline and maintenance procedure for the final as-left decision.

Installed-system context

This 17 ft armored cable is the documented interconnect between a 330400 or 330425 accelerometer and its monitoring input; conductor map and shield termination govern application.

04 Lifecycle, offered scope and related references

Lifecycle status

Order-code coverage	141638 Rev. AB identifies 16710-17 as the 17 ft selection in the 16710 armored cable family.

Installed-base relationship	The cable supports 330400 and 330425 accelerometer channels using the documented three-socket interface.
Replacement boundary	A different length, conductor size, connector, lug pattern or shield termination requires a fresh wiring review.
Release evidence	Confirm the complete marking, 17 ft route, conductor map, shield treatment and returned acceleration signal.

Available unit details

Offered configuration	17 ft armored, shielded, three-conductor 22 AWG accelerometer cable.
Selected termination	Three-socket plug at the sensor end and terminal lugs at the receiving end.
Included scope	One interconnect cable; accelerometer, monitor and junction hardware are separate unless itemized.

Source and applicability record

Verified source	Bently Nevada 330400 and 330425 Accelerometer Acceleration Transducers Datasheet, 141638 Rev. AB
Applicability boundary	The exact cable construction and 17 ft suffix are defined in 141638 Rev. AB. Sensor sensitivity, range and bias values apply to the companion 330400 or 330425 sensor, not to the passive cable.
Product family	330400 and 330425 accelerometer interconnect cabling

Additional related product references

Related product	Bently Nevada 330500-00-01
Related product	Bently Nevada 330980-70-CN
Related product	Bently Nevada 330930-040-03-00
Related product	Bently Nevada 84661-96

Engineering contact

Discuss the exact marking and installed application with Apter Power.
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