16710-45

Standard Armored Interconnect Cable

Bently Nevada 16710-45 is a 45 ft armored three-conductor shielded interconnect cable with a three-socket plug and terminal-lug termination.

Executive product dashboard

Mechanically protected route

Stainless-steel armor shields the signal cable across exposed machine and cabinet paths.

Sensor-to-panel transition

A three-socket plug at one end and labeled terminal lugs at the other support a defined point-to-point connection.

Long installed reach

The 45 ft execution serves extended runs while retaining the documented cable construction.

Exact order-code identity

Cable family	16710 standard armored interconnect cable
Ordered length	45 ft (approximately 13.7 m)
Conductor arrangement	3 conductors plus shield
Conductor size	22 AWG (0.5 mm2)
Mechanical protection	Stainless-steel armor
Sensor-end connector	3-socket plug
Panel-end termination	Terminal lugs
Conductor identification	A white; B red; C black; shield green

16710 is the documented armored interconnect-cable family for Bently Nevada acceleration-system hardware. The 45 suffix selects a 45 ft run while retaining the three-conductor shielded 22 AWG construction.

Configuration and technical capability map

Armor outside diameter	0.275 in (7 mm)
Prepared lead section	25.00 +/- 3.00 in (635 +/- 76 mm)
Documented length range	3 to 99 ft (0.9 to 30 m)

Cable section diameter	0.160 in (4.1 mm)
Ordering increment	1 ft (0.3 m)

Installed signal or connection path

Acceleration sensor > **3-socket plug** > **16710-45** > **Terminal lugs** > **Receiving circuit**

System interpretation boundary

The sensor end uses a three-socket connector with A, B and C contacts. The opposite end presents white, red and black conductors plus a green shield lead at terminal lugs, so conductor identity must be carried through the cabinet termination record.

The stainless-steel armor protects the route but does not replace correct support, bend control or shield practice. Acceptance includes point-to-point continuity, isolation and confirmation that the cable is landed on the intended receiver terminals.

Applications and installed-fit decisions

Long machine-to-cabinet runs

Use the 45 ft execution where the routed path exceeds shorter standard lengths.

Exposed cable routing

Apply the stainless-steel armor where the installed route requires additional mechanical protection.

Defined three-contact interfaces

Preserve the A/B/C contact identity from the plug through the receiver termination.

Maintenance replacement

Match length, connector orientation, conductor colors and lug destinations before removing the original cable.

Engineering decision matrix

How is the 45 ft length of 16710-45 interpreted?	The suffix is ordered in one-foot increments; 45 selects a nominal 45 ft cable, approximately 13.7 m.
Which conductors are provided in 16710-45?	The armored assembly contains three shielded 22 AWG conductors identified as A white, B red and C black, plus a green shield lead.
What termination arrangement does 16710-45 use?	One end has a three-socket plug and the opposite end has terminal lugs for the three conductors and shield.
How should the shield of 16710-45 be reconnected?	Follow the approved system drawing and reproduce the original green shield-lead destination; do not improvise a second ground point.

Applications must be evaluated against the exact installed machine drawing, target, companion hardware and receiving channel. Related product references do not imply substitution.

Product precautions and maintenance logic

Identify both endpoints

Photograph the three-socket connector and every terminal lug before disconnection.

Do not pull on the armor

Support the assembly and use the connector body during removal and installation.

Preserve the shield route

Restore the green shield lead exactly as shown on the approved drawing.

Protect conductor labels

Retain A, B and C identification through the complete routed length.

Check mechanical support

Secure the armored run so vibration and weight do not load the connector.

Test before energization

Verify continuity, isolation and destination for each conductor and shield.

Additional technical questions

What should be checked before routing 16710-45?	Confirm the complete path length, connector access, support points, armor clearance and the receiver terminal destination.
Can the stainless-steel armor on 16710-45 carry cable tension?	No. Support the cable independently and avoid pulling, twisting or hanging the assembly by the armor or connector.
Which electrical checks are appropriate for 16710-45 before service?	Verify A/B/C continuity, conductor-to-shield isolation, shield continuity and correct point-to-point landing with the system de-energized.
What evidence should be retained after installing 16710-45?	Keep endpoint photographs, conductor and shield destinations, routed length, continuity results and the connected sensor and receiver identities.

Technical notes

Exact configuration	45 ft armored 22 AWG three-conductor shielded cable with three-socket plug and terminal lugs
Connection boundary	Cable compatibility depends on the installed Bently Nevada acceleration-system connector and receiver drawing
Technical reference	Bently Nevada 330450 High Temperature Acceleration System Datasheet 169885 Rev. H

Source record, related portfolio and contact

Manufacturer reference	Bently Nevada 330450 High Temperature Acceleration System Datasheet 169885 Rev. H
Applicability	Facts are limited to the exact order-code selections and stated matched-system conditions.
Public page	Exact product page linked from the first-page model title
Evidence boundary	No neighboring-model option or unsupported lifecycle conclusion is assigned to this product.

Verified related product references

Recommended product	Bently Nevada 330980-70-05
Recommended product	Bently Nevada 330425-01-00
Recommended product	Bently Nevada 330500-07-00
Recommended product	Bently Nevada 330706-005-046-10-02-00
Recommended product	Bently Nevada 200355-00-00-00

Discuss the exact marking and installed relationship with Apter Power.
sales13@apterpower.com | +86 18030235313

Use the complete marking, installed relationship, photographs and measured baseline as the service record for 16710-45.