Bently Nevada 330930-045-00-00

Engineering Installation, Diagnostic and Acceptance Guide

Bently Nevada 330930-045-00-00 is a 4.5 m unarmored extension cable for a matched 3300 XL NSv proximity transducer chain. The configuration uses the no-approval option and no connector protector.

01 Work package

Complete model	330930-045-00-00
Product type	3300 XL NSv Extension Cable
Manufacturer	Bently Nevada
Supply condition	New, original product
Technical source	Bently Nevada 3300 XL NSv Proximity Transducer System Datasheet, 147385 Rev. R

Field decisions

1 Establish identity

Capture the full marking, installed companion components and baseline before disconnection.

2 Inspect interfaces

Verify mounting, cable, connector, armor, approval and environmental boundaries.

3 Fit the exact chain

Preserve the documented probe-cable-Proximitor or sensor-monitor relationship.

4 Prove response

Use the approved stopped-machine and operating acceptance procedure.

5 Record as left

Save markings, configuration, test values and operating observations.

02 Interface and configuration map

Product type	3300 XL NSv extension cable
Cable length	4.5 m
Armor	Without stainless-steel armor
Outer cable protection	Standard non-armored FEP-jacketed construction
Connector protector	Not selected
Agency approval option	Not required
System-length rule	Probe lead plus extension cable equals NSv Proximitor total length

Supported system lengths	5 m or 7 m depending on installed probe and Proximitor
Signal role	Probe impedance extension; no independent voltage output
Calibration boundary	NSv performance requires the matched probe-cable-Proximitor chain
Target boundary	Published values use the stated AISI 4140 reference target

03 Installation workflow

Verify chain length

Confirm the probe lead and 4.5 m cable equal the selected Proximitor total length.

Provide mechanical protection

Support the non-armored cable and protect it from abrasion, crush, heat and sharp edges.

Protect the unguarded joint

Keep the ClickLoc connection clean, dry and strain-relieved because no protector is selected.

Keep families separated

Do not mix NSv cable with 8 mm or 11 mm probe and Proximitor components.

Respect approval boundary

Suffix 00 does not provide an agency-approval selection for hazardous-location use.

Commission the channel

Restore gap, verify monitor output and compare operating response with the baseline.

Application checks

Five-metre NSv channel

Combine the 4.5 m extension with the documented probe lead to complete the installed chain.

Compact-probe vibration channel

Carry the NSv probe signal from constrained machinery locations to the Proximitor Sensor.

Axial-position channel

Maintain matched-chain calibration for position measurement within the NSv working range.

Non-armored replacement route

Use only where conduit, tray or enclosure design provides the required cable protection.

04 Diagnostic decision table

Which probe lead normally completes a 5 m chain with 330930-045-00-00?	A documented 0.5 m NSv probe lead and the 4.5 m cable form 5 m, but verify the actual probe and Proximitor markings before connection.
How should the non-armored route for 330930-045-00-00 be protected?	Use the approved conduit, tray, enclosure and supports to prevent abrasion, crushing, heat exposure and connector strain along the complete route.
What should be inspected at the unprotected connector of 330930-045-00-00?	Check both coaxial contacts for debris, moisture, damage and full seating, then provide strain relief without bending at the connector body.
How can a wrong chain length be detected after installing 330930-045-00-00?	Verify all component markings first; an abnormal offset, scale or dynamic response may indicate a probe, cable or Proximitor mismatch rather than a monitor fault.

Release review

Installation relationship	Use the 4.5 m cable only in the documented NSv total-length combination.
Protection boundary	This option has no armor or connector protector; the installation must protect the cable and joint.
Technical reference	Bently Nevada 3300 XL NSv Proximity Transducer System Datasheet, 147385 Rev. R.

Engineering questions

Which probe lead normally completes a 5 m chain with 330930-045-00-00?	A documented 0.5 m NSv probe lead and the 4.5 m cable form 5 m, but verify the actual probe and Proximitor markings before connection.
How should the non-armored route for 330930-045-00-00 be protected?	Use the approved conduit, tray, enclosure and supports to prevent abrasion, crushing, heat exposure and connector strain along the complete route.
What should be inspected at the unprotected connector of 330930-045-00-00?	Check both coaxial contacts for debris, moisture, damage and full seating, then provide strain relief without bending at the connector body.
How can a wrong chain length be detected after installing 330930-045-00-00?	Verify all component markings first; an abnormal offset, scale or dynamic response may indicate a probe, cable or Proximitor mismatch rather than a monitor fault.
Can 330930-045-00-00 be used in a hazardous location?	The order code selects no agency approval. Any hazardous-location use requires the complete installed equipment and protection concept to have the applicable approved markings and documentation.
How should noise introduced after fitting 330930-045-00-00 be isolated?	Inspect route separation, connector cleanliness, cable damage and Proximitor termination, then compare stopped-machine noise with a verified matched cable.
Why must 330930-045-00-00 remain within the NSv family?	Cable electrical characteristics are part of the NSv calibration. Mixing it with 8 mm or 11 mm components invalidates the documented matched-system response.
What evidence closes installation of 330930-045-00-00?	Retain the full marking, total-length check, route and connector inspection, approval boundary, final gap and operating response.

Acceptance and support

Retain the full marking, installed-chain identities, test readings and approved machine configuration. Confirm the exact offered item and included scope in the written quotation.

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

Verified related product references

Related product	330980-70-CN
Related product	330930-040-03-00
Related product	84661-96

Related product	330102-00-28-10-02-05

Commissioning record template

Installed asset	Machine, bearing, channel or cabinet reference
Companion identities	Probe, cable, sensor, interface or monitor markings
Mechanical datum	Mounting reference, reach, alignment or sealing condition
Electrical datum	Chain length, connector, shield, supply or input assignment
Before-work baseline	Gap, bias, vibration, continuity or channel observation
As-left result	Final measured value and functional proof
Approval basis	Applicable drawing, control requirement or site procedure
Handover	Technician, date, revision and maintenance-record location

Handover note

A replacement is complete only after the installed identity, physical interfaces, measured response and configuration record agree. Escalate any mismatch before the channel returns to protection or monitoring service.