Bently Nevada 330930-065-02-00

Complete Product Information

Bently Nevada 330930-065-02-00 is a 6.5 m armored NSv extension cable without FEP jacket or connector protector. It is intended to complete a documented 7 m NSv measurement chain with a 0.5 m probe lead.

01 Product identity and verified data

Complete model	330930-065-02-00
Product type	3300 XL NSv extension cable
Manufacturer	Bently Nevada
Technical source	Bently Nevada 3300 XL NSv Proximity Transducer System Datasheet, 147385 Rev. R
Cable family	3300 XL NSv
Cable length	6.5 m
Cable armor	AISI 302 stainless-steel armor
Armor jacket	No FEP outer jacket selected
Connector protector	Not selected
Agency approval option	Not required
Cable DC resistance - center	0.220 ohm/m
Cable DC resistance - shield	0.066 ohm/m

Engineering purpose

330930-065-02-00 forms part of the calibrated impedance path between a 3300 XL NSv probe and its Proximitor; its length directly determines the approved electrical system length. In the documented 7 m chain it carries the probe response to the signal conditioner for small-target and restricted-clearance measurements.

Selected order-code snapshot

Selected cable	6.5 m NSv extension cable with AISI 302 stainless-steel armor.
Protection selection	No FEP armor jacket and no connector protector selected.
Electrical construction	69.9 pF/m typical capacitance; 0.220 ohm/m center-conductor resistance.

02 Technical capability and engineering overview

Cable capacitance	69.9 pF/m typical
Connector material	Gold-plated brass
Minimum bend radius	25.4 mm

Maximum connector torque	0.56 N m; finger-tight recommended
Cable temperature range	-52 to +177 deg C, operating and storage
Supported matched-system length	7 m with the documented 0.5 m probe lead
Matched-system linear range	1.5 mm under stated reference conditions
Matched-system scale factor	7.87 V/mm (200 mV/mil)

Evidence boundary

Exact order fields are decoded only where the cited manufacturer ordering table supports them. System performance values apply to the complete matched transducer chain under the stated reference conditions.

Engineering overview

330930-065-02-00 extends an NSv probe by 6.5 m to form the documented 7 m electrical chain with a 0.5 m probe lead. Cable length is therefore an electrical configuration field as well as a routing dimension.

This option uses exposed stainless-steel armor without an FEP outer jacket and without a connector protector. Route it where the armor is suitable for the environment, maintain the minimum bend radius, and add site-approved joint protection when required.

Linear range, scale factor and frequency response belong to the complete matched NSv chain, not to the cable alone. Final acceptance must restore the documented gap or bias and prove the monitor response against the established machine baseline.

Application map

Radial shaft vibration

Use a documented bearing location and matched transducer chain to measure shaft motion relative to the probe mounting.

Axial position

Aim the probe at an approved conductive thrust target and keep the full expected travel inside the characterized working region.

Phase or speed reference

Use only with an approved once-per-turn target feature and a monitoring channel configured for phase or speed reference.

Installed-channel maintenance

Preserve the exact probe, cable, Proximitor, mounting geometry and machine baseline recorded for the existing channel.

03 Installed-chain controls and precautions

Interpretation boundaries

Probe-only limit	Do not present complete-system range, scale or linearity as a standalone output of 330930-065-02-00.
Target influence	Material, geometry, finish and nearby conductive surfaces can change the installed response.
Length influence	Probe lead and extension cable form part of the calibrated electrical relationship.
Temperature influence	Apply component temperature limits at their actual locations and compare with process transients.
Mechanical influence	Thread engagement, rigidity, target travel and cable support affect repeatability and service life.

Acceptance rule	Use the approved machine baseline and maintenance procedure for the final as-left decision.

Installed-chain controls

Installed drawing	Record the drawing, machine location and channel designation that govern 330930-065-02-00.
Probe marking	Capture the complete order identity and any tag or revision visible on the delivered item.
Mechanical reference	Record thread or sleeve datum, insertion depth, lock position and expected target travel.
Cable identity	Confirm lead construction, connector condition, routing, strain relief and electrical-length relationship.
Companion electronics	Record the matching extension cable, Proximitor or signal conditioner and monitor channel.
Target condition	Confirm target material, width, runout surface and clearance from nearby conductive material.
Static baseline	Record stopped-machine gap or bias and compare it with the approved maintenance baseline.
Operating baseline	Record monitor indication and expected response after the complete channel is returned to service.

Product precautions

Confirm the complete marking

Match every field of 330930-065-02-00 with the installed spare-parts record before removal or installation.

Protect the sensing face

Keep the probe tip, connector and cable free from impact, moisture, metal chips and unsupported loading.

Preserve the mechanical datum

Record reach, thread engagement, lock position and target relationship before disturbing the installed component.

Control the cable route

Maintain the approved bend radius, separation and strain relief; do not twist, kink or crush the coaxial path.

Restore the operating point

Use the approved stopped-machine procedure to restore gap or bias and verify expected target travel.

Prove the complete channel

Verify the as-left electrical reading, monitor indication and operating response before return to service.

04 Installation, diagnostics and engineering decisions

01 Isolate	Place the monitored machine and channel in the approved maintenance state; prove the required isolation.
02 Photograph	Capture 330930-065-02-00, the installed datum, connector, route and companion-component markings.
03 Measure	Record mechanical position and the applicable stopped-machine electrical reading before removal.
04 Compare	Check delivered identity, interfaces and evidence against the approved drawing and spare-parts record.
05 Install	Fit without twisting the lead; preserve thread engagement, target clearance, bend radius and strain relief.
06 Set point	Establish the operating gap or datum only with the approved stopped-machine procedure.
07 Prove	Compare local reading, monitor indication and controlled operating response with the accepted baseline.
08 Handover	Record as-left values, photographs, deviations, responsible technician and release approval.

Engineering questions

Which probe lead completes the intended chain with 330930-065-02-00?	Use the documented 0.5 m NSv probe lead so 330930-065-02-00 completes the 7 m electrical length selected on the Proximitor.
How should the unjacketed armor of 330930-065-02-00 be installed?	Support the stainless-steel armor independently, keep bends at or above 25.4 mm radius, and prevent abrasion, crushing or tensile loading at either connector.
What connector checks apply before mating 330930-065-02-00?	Inspect the gold-plated ClickLoc contacts for moisture, debris and damage, align them fully, connect finger-tight and do not exceed 0.56 N m.
How is 330930-065-02-00 accepted after replacement?	Confirm the 7 m chain length, restore the documented gap or bias, compare the monitor response with the accepted baseline, and record the final cable route.
What evidence should be captured before removing 330930-065-02-00?	Photograph the complete 330930-065-02-00 marking, installed datum, connector, cable route and companion electronics. Record the stopped-machine baseline for the 3300 XL NSv extension cable.
How should connector integrity be checked on 330930-065-02-00?	Isolate the channel, inspect the coaxial contacts for moisture and damage, verify continuity only with an approved method, and provide strain relief so the connector carries no cable load.
What commissioning record is required for 330930-065-02-00?	Retain the exact markings, mechanical datum, companion-component identities, as-left gap or bias, monitor indication and the accepted operating response.
When should 330930-065-02-00 be withheld from service?	Do not release the channel if the complete identity, mechanical fit, cable construction, connector, approval marking or measured response differs from the approved installed record.

05 Escalation and as-left record

Technical notes

Electrical relationship	Use the 6.5 m cable with the documented 0.5 m NSv probe lead and 7 m Proximitor selection.
Mechanical relationship	Maintain the 25.4 mm minimum bend radius and protect both ClickLoc joints from contamination and unsupported load.
Technical reference	Bently Nevada 3300 XL NSv Proximity Transducer System Datasheet, 147385 Rev. R.

Escalation triggers

Identity conflict	Stop if the complete marking, suffix, revision or approval identity differs from the approved record.
Host mismatch	Escalate if the rack, carrier, backplane, terminal unit or controller assignment is not documented for 330930-065-02-00.
Interface damage	Do not energize with bent contacts, damaged insulation, loose retainers, contamination or heat discoloration.
Environmental breach	Review any exposure beyond the documented temperature, vibration, humidity, contamination or enclosure boundary.
Unapproved substitution	Do not transfer ratings or compatibility from an adjacent order code without manufacturer evidence.
Configuration conflict	Stop if hardware settings, firmware, channel assignment or project configuration disagree with the installed record.
Unstable measurement	Investigate noise, drift, intermittent status or inconsistent readings before replacing another component.
Failed functional proof	Keep the asset in the approved maintenance state until the complete acceptance sequence is passed and recorded.

As-left verification worksheet

Exact delivered marking	330930-065-02-00; photograph and record any additional label detail.

Installed asset reference	Machine, bearing, train, channel and drawing identifiers.
Mechanical as found	Reach, lock position, gap reference, cable route and connector support.
Static reading as found	Gap, bias, continuity or channel value appropriate to the installed system.
Companion identities	Extension cable, Proximitor or conditioner and monitor channel markings.
Mechanical as left	Final reach, lock position, target clearance and route protection.
Static reading as left	Final gap, bias, continuity or channel value with test conditions.
Operating proof	Monitor response and machine observation accepted by the responsible authority.
Deviation record	Any difference from drawing or baseline, disposition and approval reference.
Release signatures	Technician, reviewer, operations owner and date.

06 Evidence, lifecycle and offered scope

Evidence package

Nameplate evidence	Overall and close photographs showing 330930-065-02-00, revision, approval and serial details where present.
Installation evidence	Views of the rack position, mechanical datum, terminal assignment, cable route and strain relief.
Configuration evidence	Export or screenshots identifying the approved hardware assignment and parameters without exposing credentials.
Baseline evidence	As-found readings with units, test conditions, machine state and the instrument used.
Inspection evidence	Connector, contact, insulation, fastener, contamination and heat-condition observations.
Functional evidence	As-left readings and the controlled input, output or channel response used for acceptance.
Change evidence	Any wiring, setting, firmware or mechanical change linked to its approved work reference.
Release evidence	Technician, reviewer, date, asset reference and the maintenance-record location for traceability.

Lifecycle status

Exact order identity	330930-065-02-00 is the 6.5 m armored NSv extension cable without FEP jacket or connector protector; the reviewed manufacturer data identifies its length, armor, protection and approval selections.
Installed-base support	Replacement planning must preserve the 6.5 m length, exposed armor construction, unprotected connector selection and no-approval code.
Replacement boundary	A different length, jacket, protector or approval option changes the ordered NSv chain and requires a fresh installation review.

Available unit details

Offered cable	One 330930-065-02-00, configured as a 6.5 m armored NSv extension cable without FEP jacket or connector protector.
Selected construction	6.5 m; AISI 302 stainless-steel armor; no FEP jacket; no connector protector.
Separate components	NSv probe, NSv Proximitor Sensor, monitor and mounting hardware are separate unless itemized in the quotation.

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

07 Release and engineering support

Engineering contact

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

Evidence quality controls

Traceability	Each value is tied to 330930-065-02-00, the asset location, test state, instrument and date.
Repeatability	The same approved method and comparable operating state are used for before-and-after readings.
Resolution	Recorded precision does not exceed the capability of the instrument or source document.
Reference state	Stopped, energized, loaded and process-running observations are clearly distinguished.
Change control	Every changed setting, connection or mechanical datum has an approved reason and reviewer.
Retention	Evidence remains accessible with the maintenance record for future troubleshooting and replacement review.

Release checklist

Identity accepted	Complete marking agrees with the approved order and installed record.
Interfaces accepted	Mechanical fit, connector, cable and companion electronics match the documented chain.
Static proof accepted	Gap, bias and monitor indication have been recorded under the approved stopped-machine method.
Operating proof accepted	The returned channel response agrees with the accepted machine baseline.