Bently Nevada 330930-065-00-CN

01 / SIX-AND-A-HALF-METRE EXTENSION

Bently Nevada 330930-065-00-CN is a 6.5 m unarmored NSv extension cable. It joins a 0.5 m NSv probe to a matched 7 m Proximitor measurement chain, with the CN approval selection retained.

Selected execution

Base 330930	NSv extension, separate from XL 8 mm cable
AAA065	6.5 m electrical extension
BB00	Unarmored execution
Matched chain	0.5 m NSv probe + 6.5 m extension = 7 m
Suffix CN	Country-specific approval execution

Seven-metre sensing chain

Probe	Extension	Proximitor
0.5 m NSv sensing lead	6.5 m 330930 cable	Matched 7 m NSv system

Function in the channel

The cable carries the proximity-probe signal to the NSv Proximitor. In a complete 7 m channel, this 6.5 m extension is paired with a 0.5 m NSv probe. The coaxial sensing chain and the Proximitor-to-monitor shielded field circuit are different paths with different installation checks.

Selection boundary

Verify the complete 7 m NSv chain and actual CN marking before fitting. Do not substitute an XL 8 mm extension or assume armor or a protector from the 330930 base family alone; choose connection protection for the installed environment.

Related proximity products

Bently Nevada 330980-71-00	Related proximity product; check system and options
Bently Nevada 330930-040-02-00	Related proximity product; check system and options

Connect with ApterPower

Phone: +86 180 3023 5313

Email: sales13@apterpower.com

www.apterpower.com

330930-065-00-CN

Bently Nevada 330930-065-00-CN

Cable and connector data

Center Conductor Resistance	0.220 ohm/m
Shield Resistance	0.066 ohm/m
Cable Capacitance	69.9 pF/m typical
Minimum Cable Bend Radius	25.4 mm; with or without armor
Connector Material	Gold-plated brass
Recommended Connector Torque	Finger tight
Maximum Connector Torque	0.56 N m
Extension Operating Temperature	-52 to +177 deg C
Extension Storage Temperature	-52 to +177 deg C

Keep component readings separate

The published resistance values are rates per metre for the center conductor and shield. An isolated extension measurement is not a connected probe resistance or the resistance of the powered channel. Record which conductor path was measured and inspect connector condition before interpreting a discrepancy.

Diagnostic map

Center path	Measure isolated end-to-end center conductor
Shield path	Measure isolated end-to-end shield separately
Mechanical path	Check jacket, support and connector seating
Complete channel	Confirm 7 m system, target calibration and response

Protected installation

BB00 selects an unarmored extension. Route it with mechanical support and select protection suitable for the probe-to-extension connection. Insulate exposed connections from ground under the installation practice. A connector protector, stainless steel armor and the electrical-length option are separate selection decisions.

Connect with ApterPower

Phone: +86 180 3023 5313

Email: sales13@apterpower.com

www.apterpower.com

330930-065-00-CN

Bently Nevada 330930-065-00-CN

03 / MATCHED NSv MEASUREMENT CHANNEL

Matched measurement and conditioner supply

Matched System Linear Range	1.5 mm; approximately 0.25 to 1.75 mm
Matched Output Range	Approximately -1 to -13 VDC
Recommended Probe Gap	1.0 mm
Matched Nominal Scale Factor	7.87 V/mm (200 mV/mil)
Matched Frequency Response	0 to 10 kHz; +0 / -3 dB typical
Proximitor Supply without Barriers	-17.5 to -26 VDC
Proximitor Supply with Barriers	-23 to -26 VDC
Proximitor Maximum Current	12 mA
Proximitor Output Resistance	50 ohm

Reference conditions

NSv performance is specified for a complete NSv probe, extension and Proximitor, an AISI 4140 steel target, -24 VDC supply and a 10 kohm load. The normal reference temperature is +18 to +27 deg C unless a performance statement specifies otherwise. Target material, component temperatures and loading therefore belong to channel evaluation.

NSv application boundary

The 1.5 mm linear range and 1.0 mm recommended gap apply to the matched NSv measurement chain. Retain the NSv probe, extension and conditioner selections together when evaluating a replacement. A similar XL 8 mm component is not proof of an equivalent sensing chain.

Component temperatures

The extension operates and stores from -52 to +177 deg C. The separate Proximitor operates from -52 to +100 deg C and stores from -52 to +105 deg C. The broad operating limits do not imply identical channel accuracy at every component temperature.

Which probe length completes the channel with 330930-065-00-CN?

A 0.5 m NSv probe plus this 6.5 m extension forms the 7 m electrical system. The Proximitor selection must also be 7 m.

Connect with ApterPower

Phone: +86 180 3023 5313

Email: sales13@apterpower.com

www.apterpower.com

330930-065-00-CN

Bently Nevada 330930-065-00-CN

Field circuit and separate conditioner limits

Field Wire, without Ferrules	0.2 to 1.5 mm2
Field Wire, with Ferrules	0.25 to 0.75 mm2
Recommended Monitor Field Cable	Three-conductor shielded triad
Maximum Monitor Field-Wire Length	305 m; use the frequency-response curves
Companion Sensor Operating Temperature	-52 to +100 deg C
Companion Sensor Storage Temperature	-52 to +105 deg C

Two different cable paths

The Proximitor-to-monitor field circuit is separate from the probe and extension coaxial path. Its three-conductor shielded triad, conductor sizes and 305 m maximum must be assessed with the published frequency-response curves. Do not add field-wire length to the 7 m sensing-chain sum.

Unarmored routing

Maintain the 25.4 mm minimum bend radius and support the installed route so cable pull, crushing and repeated motion are not transferred to the connectors. Keep service junctions accessible for inspection and apply the machine installation procedure.

Which resistance values apply to checks on 330930-065-00-CN?

The NSv extension rates are 0.220 ohm/m for the center conductor and 0.066 ohm/m for the shield. Measure the isolated conductor paths separately; do not use probe resistance as the extension reading.

How tightly should the connectors on 330930-065-00-CN be joined?

The recommended connector-to-connector practice is finger tight, with 0.56 N m as the maximum. Inspect seating and clean contacts before reconnecting the chain.

Commissioning evidence

After restoring the chain, verify the intended monitor scale, static gap and functional response with the approved target and installed component set. These checks establish the channel condition; a continuity measurement alone does not establish calibration.

Connect with ApterPower

Phone: +86 180 3023 5313

Email: sales13@apterpower.com

www.apterpower.com

330930-065-00-CN

Bently Nevada 330930-065-00-CN

What does the middle 00 option mean in 330930-065-00-CN?

BB00 selects cable without stainless steel armor. A connector protector is separately selected under other BB options; it must not be assumed from the base number.

Does the monitor field cable count toward 7 m when using 330930-065-00-CN?

No. The 7 m total is the probe plus extension. The Proximitor-to-monitor shielded field circuit is separate and has its own conductor and frequency-response requirements.

Does the CN suffix on 330930-065-00-CN certify every companion component?

It identifies the selected country-specific execution. Verify each installed component marking and the applicable circuit certificate before assigning an approval to the whole measurement channel.

Related proximity products

Bently Nevada 330901-11-25-10-01-00	Related proximity product; check system and options
Bently Nevada 330905-14-19-10-02-05	Related proximity product; check system and options
Bently Nevada 330905-00-07-10-02-05	Related proximity product; check system and options
Bently Nevada 330905-00-05-10-12-CN	Related proximity product; check system and options

Recommendation boundary

These related NSv products have different lengths and options. Compare the complete probe, extension and Proximitor configuration before selecting any item; portfolio inclusion does not establish substitution or approval equivalence.

Manufacturer references

3300 XL NSv Proximity Transducer System, Datasheet 147385 Rev. R: extension ordering p. 13; electrical data p. 3; connection practice p. 5; routing and temperatures p. 6. Approvals Quick Reference Guide, Country Specific Ordering Options, 108M1756 Rev. AV: CN selection pp. 10 and 28. These selected facts and field checks support the equipment-specific installation procedure.

Connect with ApterPower

Phone: +86 180 3023 5313

Email: sales13@apterpower.com

www.apterpower.com

330930-065-00-CN