# Bently Nevada 330130-070-00-00

COMPLETE PRODUCT INFORMATION



Bently Nevada 330130-070-00-00 is a 7 m standard extension cable without armor or an included connector protector. It joins a 2 m probe to a matched 9 m 3300 XL 8 mm Proximitor channel.

## Selected cable identity

| | |
|---|---|
| **330130** | 3300 XL standard extension cable |
| **AAA070** | 7 m electrical cable length |
| **BB00** | Standard cable; no armor or protector |
| **CC00** | Agency approval not required |
| **Selected chain** | 2 m probe + 7 m cable = 9 m system |

## Signal-chain position

| Probe | Extension | Proximitor |
|---|---|---|
| Selected 2 m sensing lead | 330130 cable: 7 m | 9 m electrical system |

## Nine-metre proximity channels

Join the selected 2 m probe to a 9 m XL 8 mm conditioner using the documented total-length rule.

## Supported coaxial service routes

Carry the sensing-element connection through an accessible and protected unarmored cable path.

## Shaft displacement measurements

Complete the electrical chain used by a matched monitor for static shaft position and dynamic vibration.

## Channel service verification

Check the disconnected cable conductors separately before reconnecting the complete transducer system.

## Purpose

The extension carries the proximity-probe connection to the Proximitor and completes the selected electrical length. Its standard unarmored cable requires protected routing, suitable service-junction protection and electrical insulation at the connections.

## Important Notice

The -00 cable selection is standard cable, not FluidLoc or armor. The final -00 approval selection does not confer hazardous-area certification; apply the installed circuit and independent process-containment requirements.

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## Cable execution and electrical checks

| | |
|---|---|
| **Cable Family** | 3300 XL standard extension cable |
| **Selected Electrical Length** | 070 = 7.0 m |
| **Cable Execution** | 00 = standard cable; without armor |
| **Connector Protector** | Not included by BB00 |
| **Agency Approval Option** | 00 = not required |
| **Probe Pairing for This Cable** | 2 m probe + 7 m extension = 9 m system |
| **Nominal Center-Conductor Resistance** | 1.54 +/- 0.23 ohm; 7 m extension |
| **Nominal Outer-Conductor Resistance** | 0.46 +/- 0.09 ohm; 7 m extension |
| **Cable Capacitance** | 69.9 pF/m typical |
| **Minimum Cable Bend Radius** | 25.4 mm |

## Connection and matched-channel limits

| | |
|---|---|
| **Cable Impedance** | 75 ohm triaxial |
| **Cable Insulation** | Fluorinated ethylene propylene (FEP) |
| **Connector Material** | Gold-plated brass or beryllium copper |
| **Two XL ClickLoc Connection** | Finger tight |
| **Maximum Connector Torque** | 0.565 N m |
| **Extension Operating / Storage Temperature** | -52 to +177 deg C; standard extension |
| **Matched System Linear Range** | 2 mm; approximately 0.25 to 2.3 mm |
| **Matched System Nominal Scale Factor** | 7.87 V/mm (200 mV/mil) |
| **Matched Radial-Vibration Gap** | -9 VDC nominal |
| **Matched 9 m System ISF** | +/-6.5% at 0 to +45 deg C |
| **Matched 9 m System DSL** | Less than +/-0.038 mm at 0 to +45 deg C |


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01. Pair the 7 m extension with a 2 m probe and a 9 m Proximitor; its length cannot fit a 5 m or 1 m system.

02. Observe the 25.4 mm minimum cable bend radius and support the unarmored routing against crushing or persistent strain.

03. Provide suitable protection for both service junctions; the BB00 selection has no included connector protector.

04. Keep the junctions electrically insulated from ground while maintaining the intended monitor field-circuit reference.

05. Join two XL gold ClickLoc connectors finger tight; the 0.565 N m maximum is not a tightening target.

06. Measure center-conductor and outer-conductor continuity separately with the extension disconnected from the energized system.

07. Do not count the Proximitor-to-monitor field wiring as part of the 9 m probe-and-extension electrical length.

08. Apply standard extension and conditioner temperature limits separately and review the supplied component approvals before release.

## Companion temperature and monitor-wiring data

| | |
|---|---|
| **Companion Sensor Operating Temperature** | -52 to +100 deg C |
| **Companion Sensor Storage Temperature** | -52 to +105 deg C |
| **Companion Field-Wire Conductor Range** | 0.2 to 1.5 mm2 (16 to 24 AWG) |
| **Companion Field-Wire Recommendation** | Three-conductor shielded triad; tinned wire |
| **Companion Field-Wire Maximum Length** | 305 m; apply the documented frequency-response curves |

## Junction environmental protection

BB00 supplies standard cable without an included protector. The manufacturer recommends connector protection for installations. Silicone tape is supplied with XL extension cables, but is not recommended where the probe-to-extension connection is exposed to turbine oil. Select protection for the actual environment and insulate the junction from ground.


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## Which probe length completes the selected channel with 330130-070-00-00?

A 2 m probe completes a 9 m system with this 7 m extension. Select the corresponding 9 m Proximitor and retain the documented total electrical length.

## How are the two conductor resistance checks different for 330130-070-00-00?

The 7 m center conductor is 1.54 +/-0.23 ohm and the outer conductor is 0.46 +/-0.09 ohm. These are separate end-to-end cable checks, measured with the extension disconnected.

## Does BB00 supply armor or connector protectors with 330130-070-00-00?

BB00 selects standard cable. Armored cable and standard cable with connector protector use separate options; they are not supplied by this code.

## Why is the 25.4 mm routing radius relevant to 330130-070-00-00?

It is the specified minimum extension-cable bend radius. Use a supported route that respects this limit instead of folding or tightly bending the cable to absorb spare length.

## Related extension-cable portfolio

| | |
|---|---|
| **Bently Nevada 330130-080-12-05** | Related 3300 XL cable; compare complete execution |
| **Bently Nevada 330130-080-00-05** | Related 3300 XL cable; compare complete execution |
| **Bently Nevada 330130-045-03-05** | Related 3300 XL cable; compare complete execution |
| **Bently Nevada 330130-035-00-00** | Related 3300 XL cable; compare complete execution |

## Each document has a separate purpose

| | |
|---|---|
| **Technical Reference** | Cable construction, conductor data, system conditions and selection |
| **Installation & Commissioning Guide** | Routing, connection, isolated measurements and channel acceptance |
| **Complete Product Information** | Public facts, applications, precautions and model-specific questions |

## Field-check boundary

The procedures organize component and assembled-channel checks. They do not state automatic fault codes or define the machine shutdown and protection policy.


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## Can 330130-070-00-00 replace the shielded field wire between a sensor and monitor?

The coaxial extension and monitor field circuit serve different paths. The monitor circuit uses the recommended three-conductor shielded triad; its wiring length is separate from the probe-plus-extension length.

## Does standard cable 330130-070-00-00 stop oil migrating through its interior?

The standard cable execution is not FluidLoc. FluidLoc extensions have separate cable-option codes; no FluidLoc sealing claim applies to BB00.

## Which component temperature governs the conditioner used with 330130-070-00-00?

The standard extension operates and stores at -52 to +177 deg C, while the Proximitor operates to +100 deg C and stores to +105 deg C. Evaluate each component at its actual location.

## What changes when a non-XL cable or probe is mixed with 330130-070-00-00?

Mixing XL and non-XL 3300-series 5 mm or 8 mm components limits the assembled channel to the non-XL specifications. A matching connector alone does not preserve the XL-only performance claim.

## Related extension-cable portfolio

| | |
|---|---|
| **Bently Nevada 330130-080-03-00** | Related 3300 XL cable; compare complete execution |
| **Bently Nevada 330130-040-00-05** | Related 3300 XL cable; compare complete execution |
| **Bently Nevada 330130-045-00-05** | Related 3300 XL cable; compare complete execution |
| **Bently Nevada 330130-070-00-05** | Related 3300 XL cable; compare complete execution |

## Related item selection

Check complete electrical length, cable/protector execution, approval and the installed channel independently for each recommended item. A related portfolio listing is not a substitution or compatibility approval.

## Manufacturer reference

3300 XL 8 mm Proximity Transducer System | Datasheet 141194 Rev. AN. Extension ordering: pp. 18-19; conductor resistance and capacitance: pp. 4-5; cable materials and bend radius: p. 7; connector practice: p. 8; standard extension and conditioner temperatures: p. 9. This ApterPower reference organizes selected facts and installation checks; use the equipment instructions for the installed channel.


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