Bently Nevada 330130-070-00-00

01 / CABLE CONFIGURATION

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 execution

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

Electrical length route

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

Role in the transducer chain

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.

Ordered option boundary

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.

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

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Extension-specific electrical and material data

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
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

Separate conductor measurements

The center and outer conductor resistance values apply to this isolated 7 m extension. Do not substitute a probe resistance or a complete connected-channel resistance. Keep both readings associated with the cable component and inspect the connectors before reconnecting.

Connection instructions

Two XL gold ClickLocs	Finger tight
Mixed non-XL and XL connector	Finger tight plus 1/8 turn using pliers
Maximum connector torque	0.565 N m; not a tightening target

Junction 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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03 / COMPLETED NINE-METRE CHANNEL

Conditioned measurement data

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

Accuracy conditions

A completed 9 m standard XL 8 mm system has ISF within +/-6.5% and DSL below +/-0.038 mm for the 0 to +45 deg C performance row. When the probe is -35 to +120 deg C and the sensor and extension remain 0 to +45 deg C, the 9 m row changes to ISF within +/-18% and DSL within +/-0.152 mm. These are channel conditions, not independent extension-cable accuracy ratings.

Reference target and supply

Published XL 8 mm performance uses a complete XL probe, extension and Proximitor, AISI 4140 steel target, -24 VDC supply and a 10 kohm load. The reference components are +18 to +27 deg C unless another performance row states its own temperatures. Electrical length and target calibration belong to the complete assembled channel.

Companion temperature limits

Companion Sensor Operating Temperature	-52 to +100 deg C
Companion Sensor Storage Temperature	-52 to +105 deg C

Rating and accuracy

The broad standard extension operating range does not extend the tightest system accuracy row to every operating temperature. Check the actual probe, cable and conditioner temperatures against the applicable performance statement.

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Monitor field circuit

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

Two distinct cable paths

The Proximitor-to-monitor path is separate from the coaxial extension. Use the documented three-conductor shielded triad with tinned field wiring and the specified conductor range. The published response curves show the effect of longer field circuits; the 305 m maximum does not mean all lengths have identical high-frequency response.

Engineering inspection map

Center-conductor check	Measure end-to-end center conductor on the isolated cable
Outer-conductor check	Measure end-to-end outer conductor separately
Mechanical condition	Inspect supported routing, jacket damage and junction seating
Channel acceptance	Verify selected length, DC gap and intended dynamic response

Routing condition

Keep the standard unarmored extension supported through a route that respects the 25.4 mm minimum bend radius. Avoid a route that applies steady pull to a service junction or compresses the jacket. These are installation checks; no armored construction or FluidLoc sealing should be assumed.

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.

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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.

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 330130-045-00-05	Related 3300 XL cable; compare complete execution
Bently Nevada 330130-070-00-05	Related 3300 XL cable; compare complete execution

Companion sensor supply conditions

Non-incendive circuit	-17.5 to -26 VDC; installed per drawing 140979
With barriers	-23 to -26 VDC
Maximum consumption	12 mA

Selection boundary

Compare complete cable length, connector/protector execution and approval selection for each related item. These recommendations identify a related portfolio; they do not prove interchangeability with this 7 m standard execution.

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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