Bently Nevada 330130-085-00-02

Product identity, verified technical data and engineering decisions

3300 XL 8 mm Extension Cable. Bently Nevada 330130-085-00-02 is an 8.5 m standard extension cable for a matched 3300 XL 8 mm proximity transducer chain.

Product identity and technical role

Complete model	330130-085-00-02
Product type	3300 XL 8 mm Extension Cable
System context	3300 XL 8 mm standard extension

Verified technical data

Cable family	3300 XL 8 mm standard extension
Selected cable length	8.5 m (085)
Cable construction	Standard cable (00); no armor
Matching example	0.5 m probe + 8.5 m cable = 9 m chain
Center-conductor resistance	1.87 ±0.28 Ω at 8.5 m
Shield-conductor resistance	0.56 ±0.11 Ω at 8.5 m
Extension capacitance	69.9 pF/m typical

Extension temperature	-52 to +177 °C
Matched 9 m system linear span	2.0 mm; approx. 0.25–2.3 mm gap
Matched 9 m system ISF	7.87 V/mm ±6.5% at 0–45 °C
Matched-system gap reference	Approx. 1.27 mm or -9 Vdc
Field-wire recommendation	Three-conductor shielded triad
Proximitor-to-monitor field wire	Maximum 305 m; frequency response varies
Terminal approval suffix	02; confirm actual marking and site approval

Buyer information | Overview

The 8.5 m extension sets most of the electrical length of a 9 m sensing chain. Verify the installed probe lead and Proximitor length together; a connector that physically mates does not establish the calibrated chain.

The manufacturer provides separate center and shield resistance guidance for this length. A controlled disconnected-cable check can distinguish a damaged conductor or contaminated joint from a sensor or monitor fault.

Route the cable away from sharp edges and high-heat surfaces while preserving shield integrity. After fitting, establish the correct probe gap and compare the live signal with the machine baseline. The terminal 02 suffix requires confirmation against the actual supplied marking.

Buyer information | Downloads

Technical reference	Applicable Bently Nevada original technical data
Field workflow	Apter Power installation, interface and acceptance guide

Applications and compatibility

Long cable run

Bridge the machine-mounted probe to a remote Proximitor location while preserving the 9 m electrical length.

Radial-vibration channel

Carry the gap-dependent probe signal to the sensor on a radial shaft measurement point; route away from moving machinery.

Axial-position channel

Retain the selected length while a thrust-position probe is connected; verify the target and monitor scale separately.

Cable-fault isolation

Use disconnected center and shield resistance checks to identify a conductor fault before replacing the probe or sensor.

Product precautions

Marking and approval

Match the full offered order code and any approval mark to the approved site drawing.

Mechanical fit

Check the actual mounting reach, route and clearance before energizing the channel.

Connector integrity

Inspect both mating surfaces, strain relief and shield path; isolate the circuit before resistance checks.

Electrical matching

Confirm the probe, extension and sensor length as one calibrated chain, or the documented cable-to-transmitter arrangement.

Target and baseline

Use the installed target material and approved channel record when evaluating a changed indication.

As-left acceptance

Document the component identities, wiring checks and operating result before release.

Lifecycle Status

A current manufacturer lifecycle phase for this complete identity is not established. Confirm any proposed replacement with the installed machine and monitoring-system records.

Preserve the complete marking and configuration before exchange. Availability and dispatch are confirmed in the quotation.

Available Unit Details

Compare the offered unit marking and connection arrangement with the installed part. Request available-unit photographs and confirm accessories and supply scope in the quotation.

Engineering FAQ

How is 330130-085-00-02 matched to the installed Proximitor length?	Add its 8.5 m electrical length to a compatible 0.5 m probe lead and compare the total with the 9 m Proximitor marking. Do not treat a physically mating connector as proof of a matched chain.

What can cause a gap shift after installing 330130-085-00-02?	A damaged center conductor, contaminated coaxial contact, changed target or incorrect chain length can shift the DC gap. Isolate the cable, inspect both ends and compare continuity with the manufacturer resistance guidance before adjusting the probe.
How should the connector of 330130-085-00-02 be checked before service?	Inspect the coaxial center contact, outer contact and mating surfaces for damage or contamination. The standard 00 cable option has no connector protector. Reconnect according to the manufacturer procedure and recheck the static gap voltage.
Why can 330130-085-00-02 affect high-frequency response while DC output remains plausible?	The cable contributes to the tuned probe-chain electrical length. A wrong extension, changed field wiring or load can alter frequency response; compare the complete chain with the installed monitor configuration.
How should 330130-085-00-02 be routed beside other instrument wiring?	Protect the cable from crushing, sharp edges, heat and conductive contamination. Preserve shielding and separation required by the machine drawing, then inspect the full route after fastening.
Can 330130-085-00-02 be interchanged with an adjacent proximity-system family?	Do not mix 3300 XL 8 mm, NSv or 7200 components solely because connectors mate. Match the exact probe family, extension and Proximitor design and confirm the channel calibration before commissioning.
What check distinguishes a cable fault from a sensor fault on 330130-085-00-02?	With the channel safely isolated, measure continuity and shield path on the disconnected extension and compare the result with the length-specific manufacturer guidance. Reconnect a verified cable and repeat the gap test before replacing the Proximitor.
What should be recorded after replacing 330130-085-00-02?	Record its complete order code, mated probe and Proximitor identities, cable route, continuity result and the before/after gap voltage. Compare the running channel trend with the approved baseline.

Discuss the complete model and fitted revision with Apter Power.
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Technical basis

Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet, 141194 Rev. AN.

Other Bently Nevada references

Bently Nevada 330103-00-16-50-02-00	3300 XL 8 mm Proximity Probe
Bently Nevada 330903-00-04-05-02-05	3300 XL NSv Proximity Probe
Bently Nevada 330930-045-03-05	3300 XL NSv Extension Cable
Bently Nevada 330103-00-04-20-02-05	3300 XL 8 mm Proximity Probe
Bently Nevada 16710-27	Armored Interconnect Cable