330130-085-02-CN

3300 XL Standard Extension Cable

Apter Power field guide covering identity capture, installed relationships, controlled replacement, commissioning and handover.

Cable order identity and system length

330130-085-02-CN is an 8.5 m FEP-insulated triaxial extension cable for the 3300 XL 8 mm transducer family. Option 02 provides the standard cable with a protector at the probe-to-extension connection.

Complete identity record

Cable family	330130 3300 XL standard extension cable
Cable length	8.5 m (27.9 ft)
Connector and cable option	02 - Standard cable with connector protector
Agency option	CN - Country-specific ordering option
Cable construction	75 ohm triaxial, FEP insulated
Typical capacitance	69.9 pF/m
Nominal center-conductor resistance	1.87 +/- 0.28 ohm at 8.5 m
Nominal jacket resistance	0.56 +/- 0.11 ohm at 8.5 m

Installed relationship

Probe and extension-cable lengths must sum to the Proximitor Sensor total length

Long probe-to-sensor routing

Provide 8.5 m of extension between the probe connection and the Proximitor Sensor location.

Protected connector joints

Use the fitted protector over the finger-tight ClickLoc interface in the machine environment.

Matched 9 m systems

Combine with the appropriate 0.5 m probe lead where the installed Proximitor Sensor requires 9 m total length.

Country-option maintenance

Retain the CN suffix and the associated supplied documentation when replacing the installed cable.

Evidence boundary

Exact configuration	8.5 m standard FEP extension cable, connector protector and CN country-specific ordering option
Calibration relationship	Probe and extension-cable lengths must sum to the Proximitor Sensor total length
Technical reference	Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet 141194 Rev. AN; Approvals Quick Reference Guide 108M1756 Rev. AV

Connector and routing readiness

The extension cable is part of the calibrated electrical chain. Its length must be added to the probe lead and matched to the total length of the selected 3300 XL Proximitor Sensor.

Readiness checks

Add the electrical lengths

Confirm probe lead plus 8.5 m cable equals the Proximitor Sensor requirement.

Keep connectors clean

Prevent oil, debris and moisture from entering before the ClickLoc joint is seated.

Fit the protector correctly

Do not trap, twist or sharply bend the cable beneath the protector.

Respect the bend radius

Maintain at least 25.4 mm through the complete routed path.

Retain the CN suffix

Do not replace it with 00 or 05 without an approved selection review.

Test the complete channel

Verify continuity, gap voltage and dynamic response after cable replacement.

Technical values used for fit decisions

Minimum bend radius	25.4 mm
Connector material	Gold-plated brass or beryllium copper
Maximum connector torque	0.565 N m
Standard cable temperature	-52 to +177 deg C
System matching rule	Probe length plus extension cable length equals Proximitor system length

Installed signal or connection path



Readiness boundary

Application scope: Use it only where the probe lead and this cable produce the electrical length required by the installed 3300 XL 8 mm Proximitor Sensor.

Controlled cable exchange

01 Capture	Photograph the complete marking, installed position, connections and companion hardware before disturbance.
02 Isolate	Apply the approved machine or system isolation and prove the required de-energized state.
03 Compare	Check every order-code value and mechanical interface against the offered item and approved drawing.
04 Remove	Release connectors and supports without twisting, pulling or loading the sensing face, cable or armor.
05 Install	Confirm probe lead plus 8.5 m cable equals the Proximitor Sensor requirement. Prevent oil, debris and moisture from entering before the ClickLoc joint is seated.
06 Reconnect	Do not trap, twist or sharply bend the cable beneath the protector. Maintain at least 25.4 mm through the complete routed path.
07 Energize	Use the approved staged procedure and monitor the expected static state before functional testing.
08 Prove	Verify continuity, gap voltage and dynamic response after cable replacement.

Field decisions

How does 330130-085-02-CN fit a 9 m transducer system?

It is normally paired with the appropriate 0.5 m probe lead so the probe and 8.5 m extension cable total 9 m.

What does option 02 provide on 330130-085-02-CN?

It selects standard FEP-insulated cable with a connector protector at the probe-side ClickLoc joint.

What can be concluded from the CN suffix on 330130-085-02-CN?

The manufacturer lists CN as an available country-specific ordering option; the applicable supplied approval documentation must be checked separately.

How should the connectors on 330130-085-02-CN be tightened?

Seat compatible ClickLoc connectors finger-tight until locked; do not exceed the documented 0.565 N m maximum connector torque.

Further model-specific decisions

What continuity value is expected for 330130-085-02-CN?	The 8.5 m cable has a nominal center-conductor resistance of 1.87 ohm with the documented tolerance; compare using an appropriate method and disconnected circuit.
Why is the 25.4 mm bend radius important for 330130-085-02-CN?	Tighter bends can damage the triaxial construction or alter the routed connector load and channel reliability.
Can 330130-085-02-CN be substituted by any 8.5 m coaxial cable?	No. Preserve the 3300 XL triaxial construction, capacitance, connector system, option suffix and matched electrical length.
What should be proven after replacing 330130-085-02-CN?	Confirm connector seating, continuity, system gap voltage, stable bias and the expected vibration or position response at the monitor.

Electrical proof and handover

Identity accepted	Complete order code and supplied execution agree with the approved record.
Mechanical acceptance	Mounting, insertion, routing, support and connector condition match the documented arrangement.
Electrical acceptance	Continuity, static bias or gap and receiving-channel state are within the approved baseline.
Functional acceptance	Representative measurement or connection response agrees with the recorded machine condition.
Handover record	Retain photographs, as-left values, companion identities, deviations and responsible release.

Release record

As-found evidence	Complete marking, installed position, connection map and baseline readings retained.
As-left evidence	Installed identity, mechanical datum, static reading and functional result retained.
Approval basis	Site procedure, applicable manufacturer document and responsible release recorded.

Verified related product references

Recommended product	Bently Nevada 330980-70-05
Recommended product	Bently Nevada 330425-01-00
Recommended product	Bently Nevada 330500-07-00
Recommended product	Bently Nevada 330706-005-046-10-02-00
Recommended product	Bently Nevada 200355-00-00-00



Discuss the exact marking and installed relationship with Apter Power.
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