

APTER POWER

COMPLETE PRODUCT INFORMATION

330877-080-37-00

3300 XL 50 mm armored FluidLoc extension cable

It provides the armored eight-metre cable section of a nine-metre 3300 XL 50 mm long-range displacement system.

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

3300 XL 50 mm Proximity Transducer System

PART

330877-080-37-00

ORIGIN / HS

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APTER POWER SALES TEAM

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PRODUCT OVERVIEW

It provides the armored eight-metre cable section of a nine-metre 3300 XL 50 mm long-range displacement system.

1

Extends a 50 mm proximity loop by eight metres

2

Uses high-temperature PFA-insulated FluidLoc cable

3

Adds stainless-steel armor for mechanical protection

4

Maintains the nine-metre probe-to-Proximitor connection

SYSTEM COMPONENTS

one-metre 3300 XL 50 mm probe

nine-metre 3300 XL 50 mm Proximitor Sensor

gold-plated coaxial connectors

compatible long-range displacement monitor

TECHNICAL NOTE

Match 330877-080-37-00 only with the nine-metre 50 mm Proximitor Sensor and one-metre probe, support the armored PFA cable above its bend radius, and verify connector cleanliness before long-range displacement calibration.

TECHNICAL DATA

PARAMETER	VALUE
Part number	330877-080-37-00
Cable length	8.0 m (26.2 ft)
Cable type	FluidLoc
Cable armor	Stainless steel with PFA jacket
Agency approval option	00
Cable impedance	75 ohm triaxial
Cable insulation	PFA

PARAMETER	VALUE
Core resistance	2.0 +/- 0.5 ohm
Jacket resistance	0.6 +/- 0.2 ohm
Capacitance	69.9 pF/m typical
Minimum bend radius	25.4 mm (1.0 in)
Operating and storage temperature	-51 to +200 degC
Maximum connector torque	0.565 N m (5 in lbf)

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
21000-28-10-00-244-04-02	Related Bently Nevada product	View 21000-28-10-00-244-04-02 page
130539-45	Related Bently Nevada product	View 130539-45 page
330101-00-49-90-12-05	Related Bently Nevada product	View 330101-00-49-90-12-05 page
330101-00-20-90-12-05	Related Bently Nevada product	View 330101-00-20-90-12-05 page
21000-28-05-00-056-04-02	Related Bently Nevada product	View 21000-28-05-00-056-04-02 page
330130-060-00-05	Related Bently Nevada product	View 330130-060-00-05 page
330901-05-11-05-01-05	Related Bently Nevada product	View 330901-05-11-05-01-05 page
330101-39-47-10-02-05	Related Bently Nevada product	View 330101-39-47-10-02-05 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Steam-turbine differential expansion

Extends a 50 mm proximity loop by eight metres

Large-shaft axial movement

Uses high-temperature PFA-insulated FluidLoc cable

Valve-position measurement

Adds stainless-steel armor for mechanical protection

Generator rotor-to-stator clearance monitoring

Maintains the nine-metre probe-to-Proximitor connection

PRODUCT PRECAUTIONS

- 1 Verify the complete 330877-080-37-00 marking and its documented 3300 XL 50 mm Proximity Transducer System position before field work.
- 2 Place the monitored machine and associated protection channel in the approved maintenance state before disconnecting 3300 XL 50 mm armored FluidLoc extension cable.
- 3 Protect every exposed connector and cable end from oil, moisture, dirt and impact while 330877-080-37-00 is open.
- 4 Record probe, extension-cable and Proximitor Sensor identities so the calibrated system length is preserved.
- 5 Route 330877-080-37-00 without sharp bends, crushing, abrasion or tensile loading at either coaxial termination.
- 6 Clean and finger-tighten each ClickLoc connection; never transfer connector torque or wiring practice from a different transducer family.
- 7 Set the static gap only after mechanical mounting and the complete matched loop have been confirmed.
- 8 Verify polarity, dynamic response and alarm action before returning the machinery-protection channel to service.

ENGINEER FAQ

Q1 Does 330877-080-37-00 match one-metre 3300 XL 50 mm probe in a Steam-turbine differential expansion installation?

Verify the complete 330877-080-37-00 marking, the documented 3300 XL 50 mm Proximity Transducer System position and the installed one-metre 3300 XL 50 mm probe before fitting the assembly.

Q3 Which 3300 XL 50 mm Proximity Transducer System records should be captured before removing 330877-080-37-00?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 330877-080-37-00 before disconnection.

Q5 Which nine-metre 3300 XL 50 mm Proximity Sensor condition should be checked when 330877-080-37-00 reports an abnormal state?

Check the nine-metre 3300 XL 50 mm Proximity Sensor supply, seating and connection first, then compare channel diagnostics with the recorded 330877-080-37-00 baseline.

Q7 What maintenance evidence is required after 330877-080-37-00 is used for Valve-position measurement?

Retain the nameplate record, corrective action, final diagnostics and a controlled valve-position measurement functional-test result for 330877-080-37-00.

Q2 How should 330877-080-37-00 be wired when it must extends a 50 mm proximity loop by eight metres?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 330877-080-37-00; then continuity-test the affected path.

Q4 What controlled test confirms that 330877-080-37-00 can uses high-temperature pfa-insulated fluidloc cable?

Apply the approved field or simulated stimulus, observe the 3300 XL 50 mm Proximity Transducer System indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can 330877-080-37-00 be moved directly into Large-shaft axial movement without validating compatible long-range displacement monitor?

No. Confirm the compatible long-range displacement monitor, revision, connection scheme and 3300 XL 50 mm Proximity Transducer System configuration before transferring 330877-080-37-00 to that duty.

Q8 How should 330877-080-37-00 be returned to service in Generator rotor-to-stator clearance monitoring?

Restore power under control, verify adds stainless-steel armor for mechanical protection, exercise the intended signal path and release 330877-080-37-00 only after the 3300 XL 50 mm Proximity Transducer System remains in its approved operating state.

SOURCE 3300 XL 50 mm Proximity Transducer System Datasheet | 174014 Rev. L

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