

INDUSTRIAL AUTOMATION PRODUCT

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.

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	3300 XL 50 mm Proximity Transducer System
Part number	330877-080-37-00
Country	USA
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Bently Nevada product record.

PARAMETER	TECHNICAL 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
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)

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System Role and Architecture

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

FUNCTION 1

Extends a 50 mm proximity loop by eight metres

FUNCTION 2

Uses high-temperature PFA-insulated FluidLoc cable

FUNCTION 3

Adds stainless-steel armor for mechanical protection

FUNCTION 4

Maintains the nine-metre probe-to-Proximitor connection

Matched 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

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	one-metre 3300 XL 50 mm probe
Companion hardware	nine-metre 3300 XL 50 mm Proximitor Sensor
Field connection	gold-plated coaxial connectors
Primary system function	Extends a 50 mm proximity loop by eight metres
Controlled acceptance duty	Steam-turbine differential expansion

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Applications and Engineering Context

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-Proximator connection

TECHNICAL NOTE

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

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	330877-080-37-00 / 330877-080-37-00 recorded
Physical interface	one-metre 3300 XL 50 mm probe
Companion check	nine-metre 3300 XL 50 mm Proximator Sensor
Functional proof	Extends a 50 mm proximity loop by eight metres
Application test	Steam-turbine differential expansion

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Engineering 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
330101-65-96-10-02-00	Related Bently Nevada product	View 330101-65-96-10-02-00 page
330101-08-24-10-02-00	Related Bently Nevada product	View 330101-08-24-10-02-00 page
330102-00-25-10-02-00	Related Bently Nevada product	View 330102-00-25-10-02-00 page
330901-00-55-05-02-05	Related Bently Nevada product	View 330901-00-55-05-02-05 page
24701-00-00-15-037-04-02	Related Bently Nevada product	View 24701-00-00-15-037-04-02 page
330101-00-12-10-02-05	Related Bently Nevada product	View 330101-00-12-10-02-05 page
330400-02-00	Related Bently Nevada product	View 330400-02-00 page
2300-20-00	Related Bently Nevada product	View 2300-20-00 page

MANUFACTURER SOURCE RECORD

3300 XL 50 mm Proximity Transducer System Datasheet

174014 Rev. L

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