330330-080-01-00

3300 XL 16 mm HTPS matched extension cable

Matched high-temperature 75-ohm coaxial proximity signal

PRODUCT SNAPSHOT

BRAND
Bently Nevada

FAMILY
3300 XL High Temperature Proximity System

PART
330330-080-01-00

ORIGIN / HS
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PRODUCT OVERVIEW

Matched high-temperature 75-ohm coaxial proximity signal

1. Provides the documented 8.0 m (26.3 ft) matched cable length
2. Uses the with stainless-steel armor execution
3. Carries the 75-ohm high-temperature coaxial signal
4. Requires serial-number-based matching when ordered as a spare

SYSTEM COMPONENTS

- matched 3300 XL 16 mm HTPS probe
- 330380 HTPS Proximitor Sensor
- ClickLoc connector pair
- approved high-temperature cable route

TECHNICAL NOTE

Confirm 330330-080-01-00, 8.0 m (26.3 ft) length, with stainless-steel armor and the original probe serial number; preserve connector torque, bend radius and matched capacitance before gap and scale verification.

TECHNICAL DATA

PARAMETER	VALUE
Cable model	330330
Cable length	8.0 m (26.3 ft)
Armor	With stainless-steel armor
Agency approval option	Not required
Cable impedance	75 Ohm
Operating temperature	-52 to +177 degC
Minimum bend radius	25.4 mm (1.0 in)
Power supply	-19.6 to -26 V DC; 12 mA maximum

PARAMETER	VALUE
Supply sensitivity	<13 mV/V
Output resistance	50 Ohm
Linear range	4.0 mm (160 mils)
Linear-range limits	0.5 to 4.5 mm (20 to 180 mils)
Recommended gap	2.5 mm (100 mils)
Incremental scale factor	3.94 V/mm (100 mV/mil), +/-9.65%
Frequency response	0 to 6 kHz
Minimum target diameter	30.5 mm (1.2 in)

ENGINEERING NOTE

Confirm 330330-080-01-00, 8.0 m (26.3 ft) length, with stainless-steel armor and the original probe serial number; preserve connector torque, bend radius and matched capacitance before gap and scale verification.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
146054-36-05-01-05	Related Bently Nevada product	**View 146054-36-05-01-05 page**
146054-12-05-01-05	Related Bently Nevada product	**View 146054-12-05-01-05 page**
31000-30-05-15-049-01-02	Related Bently Nevada product	**View 31000-30-05-15-049-01-02 page**
330101-00-10-10-01-05	Related Bently Nevada product	**View 330101-00-10-10-01-05 page**
330102-00-35-10-01-05	Related Bently Nevada product	**View 330102-00-35-10-01-05 page**
330102-00-75-10-01-05	Related Bently Nevada product	**View 330102-00-75-10-01-05 page**
330102-00-70-10-01-05	Related Bently Nevada product	**View 330102-00-70-10-01-05 page**
330102-00-85-10-01-05	Related Bently Nevada product	**View 330102-00-85-10-01-05 page**

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Gas-turbine high-temperature proximity

Provides the documented 8.0 m (26.3 ft) matched cable length

Thermal shaft-position measurement

Uses the with stainless-steel armor execution

HTPS signal routing

Carries the 75-ohm high-temperature coaxial signal

Matched cable replacement

Requires serial-number-based matching when ordered as a spare

PRODUCT PRECAUTIONS

1. Verify 330330-080-01-00, 8.0 m (26.3 ft) cable length and with stainless-steel armor execution before work.
2. Place the monitored machine and HTPS channel in the approved maintenance state.
3. Record the matched probe serial number and installed cable route.
4. Protect both ClickLoc connectors from heat, contamination and mechanical load.
5. Support the cable to maintain bend radius and avoid contact with hotter surfaces.
6. Use only the replacement cable matched to the original probe capacitance.
7. Make the connector joint finger-tight and follow the documented maximum torque limit.
8. Verify continuity, gap voltage, scale and alarm response after reconnection.

ENGINEER FAQ

Q1 Does 330330-080-01-00 match matched 3300 XL 16 mm HTPS probe in a Gas-turbine high-temperature proximity installation?

Verify the complete 330330-080-01-00 marking, the documented 3300 XL High Temperature Proximity System position and the installed matched 3300 XL 16 mm HTPS probe before fitting the assembly.

Q2 How should 330330-080-01-00 be wired when it must provides the documented 8.0 m (26.3 ft) matched cable length?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 330330-080-01-00; then continuity-test the affected path.

Q3 Which 3300 XL High Temperature Proximity System records should be captured before removing 330330-080-01-00?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 330330-080-01-00 before disconnection.

Q4 What controlled test confirms that 330330-080-01-00 can uses the with stainless-steel armor execution?

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

Q5 Which 330380 HTPS Proximitor Sensor condition should be checked when 330330-080-01-00 reports an abnormal state?

Check the 330380 HTPS Proximitor Sensor supply, seating and connection first, then compare channel diagnostics with the recorded 330330-080-01-00 baseline.

Q6 Can 330330-080-01-00 be moved directly into Thermal shaft-position measurement without validating approved high-temperature cable route?

No. Confirm the approved high-temperature cable route, revision, connection scheme and 3300 XL High Temperature Proximity System configuration before transferring 330330-080-01-00 to that duty.

Q7 What maintenance evidence is required after 330330-080-01-00 is used for HTPS signal routing?

Retain the nameplate record, corrective action, final diagnostics and a controlled htps signal routing functional-test result for 330330-080-01-00.

Q8 How should 330330-080-01-00 be returned to service in Matched cable replacement?

Restore power under control, verify carries the 75-ohm high-temperature coaxial signal, exercise the intended signal path and release 330330-080-01-00 only after the 3300 XL High Temperature Proximity System remains in its approved operating state.

SOURCE Bently Nevada 3300 XL High Temperature Proximity System Datasheet | 141623 Rev. H

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