

INDUSTRIAL AUTOMATION PRODUCT

330330-070-00-00

3300 XL 16 mm HTPS matched extension cable

Matched high-temperature 75-ohm coaxial proximity signal

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	3300 XL High Temperature Proximity System
Part number	330330-070-00-00
Country	USA
HS code	8537101190

APTER POWER SALES TEAM

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Technical Specifications

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

PARAMETER	VALUE
Cable model	330330
Cable length	7.0 m (23.0 ft)
Armor	Without 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
Supply sensitivity	<13 mV/V
Output resistance	50 Ohm
Linear range	4.0 mm (160 mils)

PARAMETER	VALUE
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)
Minimum shaft diameter	152 mm (6.0 in)
Cable impedance	75 Ohm
Extension-cable temperature	-52 to +177 degC
Proximitior Sensor temperature	-52 to +100 degC
Minimum bend radius	25.4 mm (1.0 in)

VERIFIED PRODUCT RECORD

DATA GROUP	VERIFIED VALUE
Installed host / carrier	matched 3300 XL 16 mm HTPS probe
Companion hardware	330380 HTPS Proximitior Sensor
Field connection	ClickLoc connector pair
Primary system function	Provides the documented 7.0 m (23.0 ft) matched cable length
Controlled acceptance duty	Gas-turbine high-temperature proximity

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System Role and Architecture

Matched high-temperature 75-ohm coaxial proximity signal

FUNCTION 1

Provides the documented 7.0 m (23.0 ft) matched cable length

FUNCTION 2

Uses the without stainless-steel armor execution

FUNCTION 3

Carries the 75-ohm high-temperature coaxial signal

FUNCTION 4

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

Matched system components

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

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	matched 3300 XL 16 mm HTPS probe
Companion hardware	330380 HTPS Proximitior Sensor
Field connection	ClickLoc connector pair
Primary system function	Provides the documented 7.0 m (23.0 ft) matched cable length
Controlled acceptance duty	Gas-turbine high-temperature proximity

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Applications and Engineering Context

Gas-turbine high-temperature proximity

Provides the documented 7.0 m (23.0 ft) matched cable length

Thermal shaft-position measurement

Uses the without 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

TECHNICAL NOTE

Confirm 330330-070-00-00, 7.0 m (23.0 ft) length, without stainless-steel armor and the original probe serial number; preserve connector torque, bend radius and matched capacitance before gap and scale verification.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	330330-070-00-00 / 330330-070-00-00 recorded
Physical interface	matched 3300 XL 16 mm HTPS probe
Companion check	330380 HTPS Proximitior Sensor
Functional proof	Provides the documented 7.0 m (23.0 ft) matched cable length
Application test	Gas-turbine high-temperature proximity

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Engineering Precautions

1

Verify 330330-070-00-00, 7.0 m (23.0 ft) cable length and without stainless-steel armor execution before work.

2

Place the monitored machine and HTTPS 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
330171-00-12-50-01-05	Related Bently Nevada product	View 330171-00-12-50-01-05 page
86691-02150-0400-15-05	Related Bently Nevada product	View 86691-02150-0400-15-05 page
330780-90-05-837097	Related Bently Nevada product	View 330780-90-05-837097 page
102045-040-01-05	Related Bently Nevada product	View 102045-040-01-05 page
200150-06-CN	Related Bently Nevada product	View 200150-06-CN page
200151-40-03-00	Related Bently Nevada product	View 200151-40-03-00 page
200150-02-CN	Related Bently Nevada product	View 200150-02-CN page
200155-02-CN	Related Bently Nevada product	View 200155-02-CN page

MANUFACTURER SOURCE RECORD

Bently Nevada 3300 XL High Temperature Proximity System Datasheet

141623 Rev. H

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