

# 3300 XL 11 mm | Cable Dossier

330730-040-12-00

## EXTENSION CABLE

Bently Nevada 330730-040-12-00 is a 4.0 m 3300 XL 11 mm extension cable with FluidLoc construction and connector protectors. Pair it with the documented 11 mm probe and Proximator so the probe-plus-extension length matches the sensor's configured system length.

### CABLE LENGTH OPTION 040

4.0 m

### CONNECTOR AND CABLE OPTION 12

FluidLoc cable with connector protectors

### CABLE ARMORING

Unarmored

### AGENCY APPROVAL OPTION 00

Not required

## MATCHED SYSTEM POSITION



## ENGINEERING BOUNDARY

The extension cable is one component of the 3300 XL 11 mm chain. Do not apply matched-system output or linear-range specifications to the loose cable.

# Order Code and Circuit Role

|        |                                                    |
|--------|----------------------------------------------------|
| 330730 | 3300 XL 11 mm extension-cable family               |
| 040    | 4.0 m extension-cable length                       |
| 12     | Unarmored FluidLoc cable with connector protectors |
| 00     | No additional agency-approval option               |

## LENGTH EQUATION

1.0 m compatible 11 mm probe + this 4.0 m extension cable = 5.0 m total cable system. Select the Proximator Sensor configured for the same total system length.

### Probe-side interface

Protected ClickLoc connection

### Sensor-side interface

Connect to the matching 3300 XL 11 mm Proximator

## FLUIDLOC EXECUTION

Option 12 restricts migration along the cable interior and adds connector protectors; it does not add cable armor.

# Electrical and Environmental Data

|                                       |                                    |
|---------------------------------------|------------------------------------|
| <b>Cable construction</b>             | 75 ohm triaxial, FEP insulated     |
| <b>Connector material</b>             | Gold-plated brass                  |
| <b>4 m core resistance</b>            | 1.0 +/- 0.25 ohm                   |
| <b>4 m coaxial resistance</b>         | 0.3 +/- 0.1 ohm                    |
| <b>Typical cable capacitance</b>      | 69.9 pF/m                          |
| <b>Cable operating temperature</b>    | -52 to +177 deg C                  |
| <b>Minimum bend radius</b>            | 25.4 mm                            |
| <b>Connector mating torque</b>        | Finger tight; 0.565 N m maximum    |
| <b>Connector joint tensile rating</b> | 270 N maximum                      |
| <b>Matched 5 m chain</b>              | 1 m probe plus 4 m extension cable |

## MEASUREMENT NOTE

Measure the cable electrically only when isolated from the probe and Proximito. Recheck both connector joints and the documented monitor configuration after reconnection.

# Interface Decisions and Questions

## Why does 330730-040-12-00 use the 040 cable code?

Code 040 selects a 4.0 m extension cable. With a 1.0 m 3300 XL 11 mm probe, the cable completes a 5.0 m chain for the matching Proximitor Sensor.

## What does connector option 12 add to this 3300 XL 11 mm cable?

Option 12 is unarmored FluidLoc cable with connector protectors. The protectors add environmental shielding around the ClickLoc joints, especially in moist locations.

## Does the FluidLoc construction make 330730-040-12-00 an armored cable?

No. FluidLoc restricts liquid migration through the cable interior; armored FluidLoc is a separate option 11 or 13. Option 12 has protectors but no armor.

## Which continuity values apply to the 4 m extension before connection?

For the 4.0 m cable, center-to-center resistance is 1.0 +/- 0.25 ohm and coaxial-to-coaxial resistance is 0.3 +/- 0.1 ohm. Isolate the cable before testing.

## Can a 330730-040-12-00 be placed in a 9 m 11 mm system with a 1 m probe?

Not as the only extension cable: 1 m plus 4 m totals 5 m. The probe and extension cable lengths together must equal the Proximitor Sensor's total system length.

## What cable temperature limit should be checked at installation?

The 3300 XL 11 mm extension cable is specified for -52 to +177 deg C operating and storage temperature. Confirm the actual cable route stays within that range.

## DECISION BOUNDARY

Preserve the matched system length and evaluate the cable independently before changing the sensor or monitor setup.

## Service Record and Related Portfolio

### ACCEPTANCE PATH

Identity and option 12 -> isolated cable continuity -> ClickLoc connector condition -> 5 m matched-chain check -> controlled monitor response.

### RELATED BENTLY NEVADA PAGES

**01** Bently Nevada 330703-000-040-10-02-05

**02** Bently Nevada 330703-000-050-10-02-00

**03** Bently Nevada 330703-000-050-10-12-05

**04** Bently Nevada 330703-000-060-050-12-00

**05** Bently Nevada 330703-000-060-10-02-00

**06** Bently Nevada 330730-040-00-00

### How tightly should the ClickLoc connectors be mated?

Tighten the connector pair finger-tight; the published maximum connector-to-connector torque is 0.565 N m. Avoid over-torquing or bending the joint sharply.

### When is silicone tape unsuitable around the probe-to-extension joint?

Connector protectors are recommended for environmental protection. The datasheet notes that silicone tape is not recommended where the probe-to-extension connection is exposed to turbine oil.

### MANUFACTURER SOURCE RECORD

Baker Hughes / Bently Nevada, 3300 XL 11 mm Proximity Transducer System Datasheet, 146256 Rev. T.

### APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL [sales13@apterpower.com](mailto:sales13@apterpower.com)

WEBSITE [www.apterpower.com](http://www.apterpower.com)



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