# 330930-060-00-00

3300 XL NSv Extension Cable

Engineering installation, diagnostic and acceptance guidance for the exact supplied identity and its documented installed relationship.

## 01 Job scope and identity

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| **Complete model** | 330930-060-00-00 |
| **Product type** | 3300 XL NSv Extension Cable |
| **Manufacturer** | Bently Nevada |
| **Technical source** | Bently Nevada 3300 XL NSv Proximity Transducer System Datasheet 147385 Rev. R |

### Field decisions

#### 1 Verify the delivered identity

Record the complete 330930-060-00-00 marking and every delivered option or approval label before removal.

#### 2 Preserve the decisive interface

3300 XL probe, probe-to-cable ClickLoc joint, routed extension and Proximitor Sensor; retain the installed mechanical and electrical reference.

#### 3 Check the selected limits

Compare the documented order-code values with the installed drawing and actual service conditions.

#### 4 Prove the intended function

Gap, runout and representative dynamic or position response agree with the accepted channel baseline.

#### 5 Retain traceable evidence

Record both connector positions, armor supports, route length, bend points and the companion probe and Proximitor Sensor identities.

### Installation relationships

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| **Installed relationship** | 3300 XL probe, probe-to-cable ClickLoc joint, routed extension and Proximitor Sensor |
| **Static acceptance** | Connector engagement, route support, continuity and stable system bias agree with the as-found record. |
| **Functional acceptance** | Gap, runout and representative dynamic or position response agree with the accepted channel baseline. |

### Pre-work engineering values

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|---|---|
| **Cable family** | 3300 XL NSv extension cable |
| **Cable length** | 6.0 m (19.7 ft) |
| **Connector and cable option** | 00 - Without stainless-steel armor |
| **Agency approval option** | 00 - Not required |
| **Electrical construction** | 75 ohm coaxial cable |
| **Insulation** | FEP |
| **Typical capacitance** | 69.9 pF/m |

# 02 Pre-installation readiness

## Model-specific installation decisions

### Verify the 060 code

Confirm the 6.0 m cable length and both endpoint labels before disconnection.

### Protect the coaxial route

Avoid tensile load, sharp edges and bends below 25.4 mm.

### Keep ClickLoc contacts clean

Inspect both interfaces and make finger-tight locked connections.

### Match the seven-metre chain

Confirm the actual probe lead and Proximitor Sensor length designation.

### Retain small-target geometry

Do not use a cable change to compensate for incorrect gap, target size or probe spacing.

### Close with live evidence

Compare gap voltage, runout and operating response with the accepted pre-work record.

## Pre-installation release gates

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|---|---|
| **Verify the 060 code** | Confirm the 6.0 m cable length and both endpoint labels before disconnection. |
| **Protect the coaxial route** | Avoid tensile load, sharp edges and bends below 25.4 mm. |
| **Keep ClickLoc contacts clean** | Inspect both interfaces and make finger-tight locked connections. |
| **Match the seven-metre chain** | Confirm the actual probe lead and Proximitor Sensor length designation. |
| **Retain small-target geometry** | Do not use a cable change to compensate for incorrect gap, target size or probe spacing. |
| **Close with live evidence** | Compare gap voltage, runout and operating response with the accepted pre-work record. |

# 03 Installation and commissioning

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| **01 Capture and isolate** | Record both connector positions, armor supports, route length, bend points and the companion probe and Proximitor Sensor identities. |
| **02 Controlled removal** | Isolate the channel, support the route, release both ClickLoc joints by their connector bodies and keep contamination away from open contacts. |
| **03 Position and connect** | Route the verified cable without stretch or sharp bends, support the armor independently and make clean finger-tight connections. |
| **04 Restore support** | Restore clamps, strain relief, route separation and mechanical protection before energization. |
| **05 Static proof** | Connector engagement, route support, continuity and stable system bias agree with the as-found record. |
| **06 Functional proof** | Gap, runout and representative dynamic or position response agree with the accepted channel baseline. |

# 04 Diagnostics and escalation

## Model-path fault isolation

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| **Bias is unstable** | Inspect both ClickLoc joints, cable damage and the total electrical-length match. |
| **Cable does not reach naturally** | Do not stretch or splice; re-check route and ordered length. |
| **Response differs from baseline** | Confirm probe lead, extension length and Proximitor Sensor identity as one chain. |

## Engineering decision questions

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| **Which probe length normally completes 330930-060-00-00 as a seven-metre NSv chain?** | A documented 1.0 m NSv probe lead plus the 6.0 m extension cable totals 7 m; confirm both markings before assembly. |
| **Why must 330930-060-00-00 remain part of a matched NSv system?** | Cable length and electrical characteristics affect the scale and linear response produced by the probe and Proximitor Sensor together. |
| **How should 330930-060-00-00 be protected without stainless-steel armor?** | Use approved routing support or conduit and prevent abrasion, pulling and sharp bending along the full run. |
| **What ClickLoc handling is required for 330930-060-00-00?** | Keep the contacts dry, align the connector bodies and tighten by hand until the locking action is established. |

# 05 Handover and evidence package

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| **Source revision** | Record the revision of Bently Nevada 3300 XL NSv Proximity Transducer System Datasheet 147385 Rev. R used for the work review. |
| **Applicability record** | Retain the exact order code and the documented system conditions that govern the installed use. |
| **Installed evidence** | Record both connector positions, armor supports, route length, bend points and the companion probe and Proximitor Sensor identities. |
| **Functional evidence** | Gap, runout and representative dynamic or position response agree with the accepted channel baseline. |
| **Deviation record** | Record any identity, interface or measured-result difference and its approved disposition. |

## Commissioning acceptance criteria

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| **Identity acceptance** | The complete 330930-060-00-00 marking agrees with the released work order and photographs. |
| **Mechanical acceptance** | Installed position, route, support, connector condition and protection agree with the approved record. |
| **Electrical acceptance** | Connector engagement, route support, continuity and stable system bias agree with the as-found record. |
| **Functional acceptance** | Gap, runout and representative dynamic or position response agree with the accepted channel baseline. |

# 06 Product-specific engineering record

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| **Center-conductor resistance** | 0.220 ohm/m |
| **Shield resistance** | 0.066 ohm/m |
| **Connector material** | Gold-plated brass |

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| **Minimum bend radius** | 25.4 mm |
| **Operating and storage temperature** | -52 to +177 deg C |
| **Matched system lengths** | 5 m or 7 m including probe lead and extension cable |

## Lifecycle and replacement decisions

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| **Lifecycle decision** | 330930-060-00-00 is the 6.0 m unarmored extension-cable execution for a 3300 XL NSv matched chain. Its installed-base role depends on the probe-lead length and the selected five- or seven-metre Proximitor Sensor system. |
| **Replacement decision** | A 1.0 m NSv probe lead plus this 6.0 m cable produces a 7 m electrical length. Using the cable behind a 0.5 m probe or with a 5 m Proximitor Sensor creates an incorrect chain even when the ClickLoc ends mate. |
| **Supply boundary** | The offered item is the 330930-060-00-00 cable without stainless-steel armor and without an agency-approval option. Separate environmental protection and companion transducer components are quoted independently. |

## Verified related product references

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| Recommended product | Bently Nevada 330980-70-05 |
| Recommended product | Bently Nevada 330425-01-00 |
| Recommended product | Bently Nevada 330500-07-00 |
| Recommended product | Bently Nevada 330706-005-046-10-02-00 |
| Recommended product | Bently Nevada 200355-00-00-00 |

**Discuss the exact marking and installed relationship with Apter Power.**
sales13@apterpower.com | +86 18030235313