# Bently Nevada 330130-040-03-CN

Complete Product Information

Bently Nevada 330130-040-03-CN is a 4.0 m 75 ohm triaxial extension cable with stainless-steel armor, a connector protector and CN approval suffix for a matched 3300 XL 8 mm chain.

## 01 Product identity and verified data

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|---|---|
| **Complete model** | 330130-040-03-CN |
| **Product type** | 3300 XL 8 mm extension cable |
| **Manufacturer** | Bently Nevada |
| **Technical source** | Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet, 141194 Rev. AL |
| **Cable family** | 3300 XL 8 mm |
| **Selected cable length** | 4.0 m |
| **Cable construction** | Standard 75 ohm triaxial FEP cable |
| **Mechanical protection** | Stainless-steel armor |
| **Connector protector** | Selected |
| **Approval selection** | CN suffix retained; verify delivered approval marking |
| **Cable impedance** | 75 ohm triaxial |
| **Capacitance** | 69.9 pF/m typical |

## Engineering purpose

Bently Nevada 330130-040-03-CN is a 4.0 m 75 ohm triaxial extension cable with stainless-steel armor, a connector protector and CN approval suffix for a matched 3300 XL 8 mm chain.

## Selected order-code snapshot

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|---|---|
| **Selected length** | 4.0 m extension cable in the calibrated 3300 XL 8 mm signal path. |
| **Mechanical construction** | Stainless-steel armor; connector protector selected. |
| **Electrical reference** | 75 ohm triaxial cable; 69.9 pF/m typical; 25.4 mm minimum bend radius. |

## 02 Technical capability and engineering overview

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| **Connector material** | Gold-plated brass or beryllium copper |
| **Minimum bend radius** | 25.4 mm |
| **Cable operating temperature** | -52 to +177 deg C |
| **Matched-system range** | 2.0 mm |

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|---|---|
| **Matched-system scale factor** | 7.87 V/mm |
| **Calibration rule** | Probe lead plus extension cable equals Proximitor system length |

## Evidence boundary

Exact extension-cable options and cable-level technical data are from 141194 Rev. AL. Range and scale remain properties of the complete matched chain.

## Engineering overview

The 040 field supplies 4.0 m of extension length, while option 03 adds both stainless-steel armor and a probe-side connector protector. This combination is intended for routes that need mechanical protection without changing the calibrated electrical-length rule.

Armor and the protector change installation mechanics: clamp locations, bend transitions and joint access must be planned so the sheath cannot twist the ClickLoc or bear against the protector. The 25.4 mm minimum bend radius applies along the complete routed cable.

The CN suffix must be verified on the delivered marking. Cable-level continuity and typical capacitance support fault isolation, but final acceptance requires the documented probe lead plus 4.0 m total and a restored matched-channel response.

## Application map

**Protected turbine-casing routes**

Use where a 4.0 m extension path needs stainless-steel armor against abrasion or mechanical contact.

**Probe-side protected joints**

Apply where the ClickLoc protector can remain seated, supported and accessible at the machine end.

**CN-marked monitoring projects**

Match the delivered CN approval marking to the project record before energization.

**Cable-level fault separation**

Isolate the cable to distinguish center-conductor, shield or connector faults from probe and Proximitor behavior.

## 03 System interpretation and selection boundaries

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|---|---|
| **Product boundary** | Apply the listed facts to 330130-040-03-CN and the documented 3300 XL 8 mm proximity transducer system context only. |
| **Interface boundary** | Connector, terminal, bus, cable and companion-device assignments must match the installed drawing. |
| **Electrical boundary** | Use exact-model values only; system-level ratings remain conditional on the complete installed configuration. |
| **Configuration boundary** | Switches, jumpers, addresses, firmware and project settings must be reconciled before energization. |
| **Diagnostic boundary** | Interpret indicators and fault states together with measured inputs, outputs and host-system status. |
| **Acceptance rule** | Use the approved system baseline and maintenance procedure for the final as-left decision. |

## Installed-system context

The offered item is a 4.0 m extension cable; length, construction, both joints and companion-component identities govern compatibility.

## 04 Lifecycle, offered scope and related references

## Lifecycle status

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| **Exact order-code coverage** | 141194 Rev. AL defines 330130-040-03-CN as 4.0 m, armored standard cable with connector protector, with cn suffix retained; verify delivered approval marking. |
| **Installed-chain dependency** | Service depends on the exact probe lead and Proximitor total length assigned to the machine. |
| **Construction boundary** | Changing armor or connector protection changes route handling even when cable length remains 4.0 m. |
| **Release evidence** | Record both companion identities, total electrical length, joint condition, route and returned monitor response. |

## Available unit details

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|---|---|
| **Offered configuration** | 4.0 m standard 75 ohm triaxial fep cable extension cable; stainless-steel armor. |
| **Selected joint protection** | Connector protector selected; CN suffix retained; verify delivered approval marking. |
| **Included scope** | One extension cable; probe, Proximitor, monitor and route hardware are separate unless itemized. |

## Source and applicability record

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|---|---|
| **Verified source** | Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet, 141194 Rev. AL |
| **Applicability boundary** | Exact extension-cable options and cable-level technical data are from 141194 Rev. AL. Range and scale remain properties of the complete matched chain. |
| **Product family** | 3300 XL 8 mm proximity transducer system |

## Additional related product references

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|---|---|
| **Related product** | Bently Nevada 84661-96 |
| **Related product** | Bently Nevada 330102-00-28-10-02-05 |
| **Related product** | Bently Nevada 330104-00-16-10-02-00 |
| **Related product** | Bently Nevada 330500-00-01 |

## Product-specific purchasing decisions

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|---|---|
| **How does the armor on 330130-040-03-CN change route design?** | It requires controlled clamp points and bend transitions so sheath stiffness cannot twist either ClickLoc or load the connector protector. |

## Engineering contact

Discuss the exact marking and installed application with Apter Power.
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