# Bently Nevada 84661-25

**COMPLETE PRODUCT-PAGE INFORMATION**

Bently Nevada 84661-25 is a 25 ft armored interconnection cable for the 330500 Velomitor piezo-velocity sensor and compatible monitor wiring.

## 01 Product position

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|---|---|
| **Complete identity** | 84661-25 |
| **Product type** | Velomitor Armored Interconnection Cable |
| **System family** | Bently Nevada 330500 Velomitor piezo-velocity sensor system |
| **Supply boundary** | The offered item is the cable assembly. Velomitor sensor, monitor and 21128 housing are separate and must be confirmed independently. |

## Decision snapshot

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| **Marking** | Keep the complete model and every suffix group in the comparison. |
| **Installed chain** | Match the two-socket sensor interface and field termination. |
| **Acceptance** | Use measured gap or channel response and retain the as-left record. |

## Overview

This cable carries the two-wire Velomitor signal between the 330500 sensor and monitoring terminals.

The 84661 base number identifies a two-conductor, twisted, shielded 22 AWG armored cable with a moisture-resistant two-socket female connector at the sensor end and terminal lugs at the field end. The 25 suffix selects 25 ft, approximately 7.6 m.

This cable is listed for the 330500 Velomitor sensor and monitor wiring. The manufacturer table excludes it from the 21128 Velocity Transducer Housing arrangement, so confirm the installed sensor connector and mechanical housing before selection.

Record conductor and shield termination, armor condition and the original route before removal. After fitting, verify continuity, insulation and the controlled velocity channel response; continuity alone does not prove polarity or monitor configuration.

## Related Bently Nevada references

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|---|---|
| Bently Nevada 330101-04-36-05-02-05 | Catalogue reference; verify the complete installed chain. |
| Bently Nevada 330102-00-32-10-02-00 | Catalogue reference; verify the complete installed chain. |
| Bently Nevada 330909-00-30-10-02-00 | Catalogue reference; verify the complete installed chain. |
| Bently Nevada 330180-50-CN | Catalogue reference; verify the complete installed chain. |

## 02 Exact configuration and technical data

Order-code values identify this complete reference. Rows labelled matched-system describe the correctly assembled transducer chain, not a loose component.

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|---|---|
| **Cable family** | 84661 armored interconnection cable |
| **Ordered length** | 25 ft (approximately 7.6 m) |
| **Conductors** | Two-conductor, twisted, shielded |
| **Conductor size** | 22 AWG |
| **Mechanical protection** | Armored cable |
| **Sensor-end connector** | Two-socket moisture-resistant female connector |
| **Field end** | Terminal lugs |
| **Intended sensor interface** | 330500 Velomitor piezo-velocity sensor |

## Configuration interpretation

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|---|---|
| **Identity logic** | The 84661 base number identifies the armored Velomitor cable family and 25 selects a 25 ft (approximately 7.6 m) ordered length. |
| **Source boundary** | The official 330500 datasheet directly identifies 84661-NN cable construction and NN length in feet; 25 therefore specifies 25 ft. Sensor ratings are not cable ratings. |
| **Condition** | New, original product |
| **Shipping** | Swift global dispatch |

## Source applicability

Bently Nevada 330500 Velomitor Piezo-velocity Sensor Datasheet, 141632 Rev. V. The official 330500 datasheet directly identifies 84661-NN cable construction and NN length in feet; 25 therefore specifies 25 ft. Sensor ratings are not cable ratings.

## Engineering questions

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| **What length does the 25 suffix in 84661-25 specify?** | It selects a 25 ft cable, approximately 7.6 m. |
| **What conductor construction is used by 84661-25?** | It is a two-conductor, twisted, shielded 22 AWG armored cable. |

## 03 Remaining data and installed-system fit

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|---|---|
| **Use boundary** | Used with monitors |
| **Housing boundary** | Not for 21128 Velocity Transducer Housing |
| **Family minimum length** | 3 ft (0.9 m) |
| **Family maximum length** | 96 ft (29 m) |

## Applications / Compatibility

Signal path: 84661-25 connects a 330500 Velomitor sensor to compatible monitor terminals. Compatibility boundary: Match cable length, connector, conductor map, armor and housing exclusion.

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|---|---|
| **330500 sensor interconnection** | Match the moisture-resistant two-socket connector and installed sensor. |
| **Armored cable replacement** | Inspect armor, transitions and the full 25 ft route. |
| **Monitor terminal restoration** | Restore conductor, shield and terminal-lug ownership from the as-found record. |
| **Controlled channel acceptance** | Verify polarity, baseline and velocity response after installation. |

## Compatibility boundary

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|---|---|
| **Mechanical fit** | Confirm thread, case, connector, mounting and routing. |
| **Electrical match** | Match the two-socket sensor interface and field termination. |
| **Approval evidence** | Use the offered nameplate and site record; a suffix alone is not approval evidence. |
| **Included scope** | The offered item is the cable assembly. Velomitor sensor, monitor and 21128 housing are separate and must be confirmed independently. |

## 04 Product precautions and commissioning

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|---|---|
| **Verify the full cable reference** | Confirm 84661-25 and 25 ft length on the offered label. |
| **Check sensor interface** | Match the two-socket female connector to the installed 330500 sensor. |
| **Do not use with 21128 housing** | The manufacturer table identifies a different cable for that housing arrangement. |
| **Inspect armor and route** | Check bends, crushing, abrasion and transition points. |
| **Preserve terminal mapping** | Record both conductors, shield and terminal lugs before removal. |
| **Prove the monitored channel** | Verify polarity and controlled velocity response after reconnection. |

## Replacement sequence

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|---|---|
| **01 Record baseline** | Photograph complete labels, position, connectors, routing and current indication. |
| **02 Isolate** | Apply the approved site isolation and machinery-protection procedure. |
| **03 Compare** | Check offered identity, geometry, cable construction and included items. |
| **04 Install** | Restore routing and interfaces from the as-found record; do not force connectors. |
| **05 Configure** | Preserve the approved monitor channel, target and system-length settings. |
| **06 Prove** | Record static indication and a controlled response in an approved machine state. |
| **07 Handover** | Archive final identity, measurements and unresolved exceptions. |

## Fault-isolation starting points

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| **Unexpected gap** | Recheck target material, electrical length, connector engagement and channel configuration. |
| **No channel response** | Verify supply, terminal ownership and continuity before substituting another component. |
| **Intermittent signal** | Inspect connector protection, cable routing, armor transitions and vibration at the mounting point. |
| **Scale differs** | Confirm the complete matched family and sensor system length; physical fit is not calibration evidence. |
| **Result accepted** | Retain the exact model, measured baseline, test condition and as-left response. |

## 05 Lifecycle, FAQ and enquiry

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| **84661-25 status** | A current lifecycle phase for this exact complete configuration has not been confirmed. |
| **Support and replacement** | Compare the complete marking and documented measurement-chain or installation interfaces before selecting a replacement. |
| **Apter Power availability** | The offered quantity and dispatch date are confirmed separately in the quotation. |

## Additional technical FAQ

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|---|---|
| **How should polarity be preserved when replacing 84661-25?** | Record both conductor destinations, shield and terminal lugs before disconnecting the old cable. |
| **What physical damage should be checked on 84661-25?** | Inspect armor, connector transition, lugs, bends, abrasion and crushing along the full route. |

## Available Unit Details

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|---|---|
| **Offered reference** | Bently Nevada 84661-25. Condition: New, original product. |
| **Identity check** | Match the complete order code, visible revision and installed chain before acceptance. |
| **Included items** | Confirm the probe, cable, sensor and mounting scope in the quotation. |

## Related Bently Nevada references

| | |
|---|---|
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| Bently Nevada 330909-00-30-10-02-00 | Catalogue reference; verify the complete installed chain. |
| Bently Nevada 330180-50-CN | Catalogue reference; verify the complete installed chain. |
| Bently Nevada 330130-080-00-00 | Catalogue reference; verify the complete installed chain. |

**Discuss the complete marking with Apter Power**
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