MANUFACTURER DOCUMENT PACKAGE

# Manufacturer's Manual

Reference package for procurement and maintenance review

BENTLY NEVADA

## 84660-82

**SHIELDED TRANSDUCER INTERCONNECT CABLE**

Used with the applicable Seismoprobe Interconnect Cables configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Bently Nevada Seismoprobe Interconnect Cables Datasheet 141626 Rev. V; applicable product description, specification and ordering sections.

# 9200 and 74712 Seismoprobe Velocity Transducers

## Datasheet

Cordant™

141626 Rev. V




## Description

Bently Nevada™ Seismoprobe Velocity Transducer Systems are designed to measure absolute (relative to free space) bearing housing, casing, or structural vibration. The two-wire systems consist of a transducer and appropriate cable.

The Seismoprobe family of velocity transducers is a two-wire design that uses moving-coil technology. It provides a voltage output directly proportional to the transducer's vibration velocity.

Moving-coil transducers are less sensitive to impact or impulsive excitation than solid-state velocity transducers, which are inherently accelerometers with embedded integration electronics.

Moving-coil transducers are less sensitive to impact or impulsive excitation and can represent a good choice for certain applications. Because they don't require external power, they are convenient for portable measurement applications.

For most installations, Bently Nevada's Velomitor family of velocity transducers, which incorporate solid-state technology, provide improved performance and ruggedness for casing velocity measurement applications.

Baker Hughes

## High-temperature Two-wire Transducer

Standard Temperature -20°F to +400°F (-29°C to +204°C)

### 74712-AA-BB-CC-DD

| A: Transducer Mounting Angle/Minimum Operating Frequency Option | |
|---|---|
| **01** | 0 ±2.5, 4.5 Hz (270 cpm) |
| **02** | 45 ±2.5, 4.5 Hz (270 cpm) |
| **03** | 90 ±2.5, 4.5 Hz (270 cpm) |
| **06** | 0 ±100, 10 Hz (600 cpm) |
| **07** | 0 ±180, 15 Hz (900 cpm) |
| **B: Mounting Base Option** | |
| **01** | Circular; 1/4-20 UNC stud |
| **02** | Circular; 1/4-28 UNF stud |
| **03** | Rectangular flange |
| **04** | Circular; with three 8-32 threaded studs on a 44 mm (1.75 in) diameter bolt circle |
| **05** | No base; 1/2-20 UNF-3A stud |
| **06** | Isolated circular 1/4-20 UNC stud |
| **07** | Isolated circular 1/4-28 UNF stud |
| **08** | Isolated rectangular flange |
| **09** | Isolated circular 5/8-18 UNF stud |
| **10** | Circular; M10X1 stud |
| **11** | Isolated circular M10X1 |
| **12** | Isolated circular 1/2-20 UNF-2A |
| **C: Connector Option** | |
| **02** | Top Mount |
| **03** | Terminal block top mount |
| **04** | Side mount |

| D: Agency Approval Option | |
|---|---|
| **00** | No Approvals |
| **01** | CSA |
| **04** | ATEX/IECEx |

## Interconnection Cables

The standard cable lengths below are available. You can order custom cable lengths in increments of one foot at additional cost. Some cables have a minimum and maximum length. For details, see each part description below.

### Standard Cable Lengths

| Feet | Meters (approximate) |
|---|---|
| 6 ft | 1.8 m |
| 8 ft | 2.4 m |
| 10 ft | 3.0 m |
| 12 ft | 3.6 m |
| 15 ft | 4.5 m |
| 17 ft | 5.0 m |
| 20 ft | 6.0 m |
| 25 ft | 7.6 m |
| 30 ft | 9.0 m |
| 33 ft | 10.0 m |
| 50 ft | 15.2 m |
| 99 ft | 30.0 m |

## Cable Part Numbers

| Part Number | Description |
|---|---|
| | Use 'NN' in these part numbers to specify the length (in feet) of the cable you want to order. |
| Standard Cables | |
| 9571-NN | 2-conductor twisted, shielded 22 AWG (0.5 mm2) cable with 2-socket moisture-resistant female connector at one end, terminal lugs at the other end (used with monitors or vibration data collectors).<br>Cable operating temperature is -50˚C to 120˚C.<br>Minimum length of 2.0 ft (0.6 m); maximum length of 99 ft (30 m). |
| 84661-NN | 2-conductor twisted, shielded 22 AWG (0.5 mm2) armored cable with 2-socket moisture-resistant female connector at one end, terminal lugs at the other end (used with monitors or vibration data collectors).<br>Cable operating temperature is -50˚C to 120˚C.<br>Minimum length of 3.0 ft (0.9 m); maximum length of 99 ft (30 m). |
| 9755-NN | 2-wire shielded 22 AWG (0.5 mm2) cable with 2-pin female connectors at each end (connects 9200 or 74712 Seismoprobe Velocity Transducers to Bently Nevada test kits).<br>Cable operating temperature is -70˚C to 150˚C.<br>Minimum length of 1.0 ft (0.3 m); maximum length of 99 ft (30 m). |
| 83968-NN | 2-wire straight cable with 2-pin female connector at one end and coaxial connector in the other end (used with instruments with BNC connector input jacks).<br>Minimum length of 2.0 ft (0.6 m); maximum length of 99 ft (30 m). |
| High-Temperature Cables | |
| 84508-NN | 2-wire shielded 22 AWG (0.5 mm2) cable with terminal lugs at each end.<br>Minimum length of 1.0 ft (0.3 m); maximum length of 99 ft (30 m). |
| 84509-NN | 2-wire shielded 22 AWG (0.5 mm2) armored cable with terminal lugs at each end.<br>Minimum length of 3.0 ft (0.9 m); maximum length of 70 ft (21 m). |
| 84660-NN | 2-wire shielded 22 AWG (0.5 mm2) cable with 2-socket female connector at one end, terminal lugs at the other end.<br>Minimum length of 3.0 ft (0.9 m); maximum length of 99 ft (30 m). |