

APTER POWER PRODUCT MANUAL

84508-30

Bently Nevada high-temperature Seismoprobe interconnection cable

The 84508-30 is a Bently Nevada 30 ft (approximately 9.0 m) high-temperature interconnection cable. The 84508 family uses two-wire shielded 22 AWG (0.5 mm2) cable with terminal lugs at both ends; the -30 suffix selects a 30 ft ordered length.

It carries the self-generated velocity signal from a 9200 or 74712 Seismoprobe installation through high-temperature field routing to terminal points, a monitor, or an intermediate junction. The shield controls electrical noise while the two conductors preserve the sensor's differential signal and polarity.

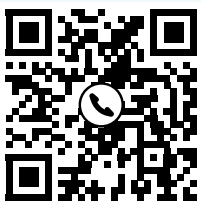
Manufacturer	Bently Nevada
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Thirty feet of shielded high-temperature signal continuity.

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SCAN FOR PRODUCT & QUOTE

84508-30

1. Product Overview and Identity

The 84508-30 is a Bently Nevada 30 ft (approximately 9.0 m) high-temperature interconnection cable. The 84508 family uses two-wire shielded 22 AWG (0.5 mm²) cable with terminal lugs at both ends; the -30 suffix selects a 30 ft ordered length.

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Model Configuration

Code	Official configuration
84508	Two-wire shielded 22 AWG high-temperature cable with terminal lugs at both ends.
30	30 ft ordered cable length, approximately 9.0 m.

Key Features

- The exact -30 suffix selects a 30 ft length rather than a generic bulk-cable quantity.
- Terminal lugs at both ends suit fixed terminal-block routing.
- A shielded two-wire construction preserves the Seismoprobe signal over the ordered run.
- The 84508 family is listed in the high-temperature cable section for 9200 and 74712 installations.

2. Technical Specifications

Only manufacturer-published information is stated. A value absent for the exact complete suffix is identified rather than inferred.

Parameter	Verified value
Product Type	High-temperature Seismoprobe interconnection cable
Ordered Length	30 ft (approximately 9.0 m)
Conductors	Two-wire
Wire Size	22 AWG (0.5 mm ²)
Shielding	Shielded
Termination	Terminal lugs at both ends
Published Available Length Range	1 to 99 ft for the 84508 family
Aarmor	None stated for 84508; use 84509 when the listed armored cable is required
Published Exact Weight	Not separately published
Published Cable Diameter and Packed Size	Not separately published in Datasheet 141626 Rev. V

Verification Note

Verify the 30 ft route, lug interfaces, two-wire polarity, shield termination, mechanical protection, temperature exposure, and end-to-end monitor response.

3. Functions, Applications and Components

Core Functions

- Carries the Seismoprobe velocity signal to monitoring equipment or field terminals.
- Provides a continuous shield around the two signal conductors.
- Maintains signal polarity when terminal lugs are landed according to the manufacturer wiring diagram.
- Supports remote routing from elevated-temperature sensor locations.

Application Areas

Application	System role
74712 Seismoprobe Wiring	Routes a high-temperature velocity signal from the sensor to a monitor or junction.
9200 Seismoprobe Installations	Supports compatible two-wire terminal-lug connections where the cable specification is appropriate.
Turbine Bearing Housings	Carries casing-vibration signals away from hot machine surfaces.
Compressor and Pump Monitoring	Provides fixed shielded wiring for velocity measurement channels.
Field Junction Boxes	Terminates directly on screw or stud terminals through fitted lugs.
Protected Conduit Runs	Supports mechanically protected routing in industrial installations.

Compatible Components

- Bently Nevada 74712 or 9200 Seismoprobe Velocity Transducers when the installation calls for lug-to-lug high-temperature cable.
- Bently Nevada 3300 or 3500 monitor inputs compatible with the connected Seismoprobe signal.
- Terminal blocks and field junctions sized for the supplied lugs and 22 AWG conductors.
- Conduit, supports, and separation practices required by the site wiring and safety rules.

Lifecycle Status

Baker Hughes currently lists 84508-NN in Datasheet 141626 Rev. V, including 30 ft as a standard length. No separate lifecycle phase is published for 84508-30.

4. Installation Precautions

- Confirm that 30 ft is the required route length before installation; avoid hidden coils that add heat exposure or noise pickup.
- Verify both terminal-lug sizes, conductor polarity, shield termination, and monitor input wiring against the current diagram.
- Protect the unarmored cable in suitable conduit or mechanical protection and support it away from sharp edges and hot surfaces beyond its rating.
- Do not substitute 84508 for an armored 84509 or connector-ended 84660/84510 cable without checking the complete interface.
- Perform continuity, insulation, shield, and end-to-end signal checks before returning the monitoring channel to service.

STOP - Verify before installation

Verify the 30 ft route, lug interfaces, two-wire polarity, shield termination, mechanical protection, temperature exposure, and end-to-end monitor response.

Use the physical nameplate and current Bently Nevada documents as the controlling records.

5. Official Source and Use Notice

Official source

Baker Hughes / Bently Nevada 9200 and 74712 Seismoprobe Velocity Transducers Datasheet 141626 Rev. V - <https://dam.bakerhughes.com/m/7b3b66d04b57d922/original/9200-and-74712-Seismoprobe-Velocity-Transducers-Datasheet-141626-pdf.pdf>

Apter Power product page

<https://www.apterpower.com/Bently-Nevada/84508-30>

Use Notice

This original Apter Power product-specific reference is prepared from the named Bently Nevada source. It is not a Bently Nevada publication and does not replace the original datasheet, nameplate, certificate, installation drawing, safety instructions, or machine-builder documentation.

ASK FOR QUOTE

For availability and quotation details, visit www.apterpower.com or contact sales13@apterpower.com.