

84661-55

55 ft armored low-frequency velocity transducer interconnect cable

Powered low-frequency velocity-transducer signal, common and supply conductors

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

Bently Nevada Low Frequency Velocity Trans

PART

84661-55

ORIGIN / HS

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PRODUCT OVERVIEW

Powered low-frequency velocity-transducer signal, common and supply conductors

1

Provides a 55 ft armored signal route

2

Uses a moisture-resistant female sensor connector

3

Terminates at the monitor with ring lugs

4

Carries the powered velocity-transducer signal and common conductors

SYSTEM COMPONENTS

Low Frequency Velocity Transducer

Compatible monitor input

Cable supports and glands

Approved shield and grounding arrangement

TECHNICAL NOTE

Verify the 55 ft route, moisture-resistant sensor connector, monitor-end ring lugs and shield termination; inspect armor support before continuity and channel-response tests.

TECHNICAL DATA

PARAMETER	VALUE
Cable model	84661
Cable length	55 ft
Cable construction	Armored
Conductor size	0.382 mm ² (22 AWG)
Transducer-end connector	Moisture-resistant female

PARAMETER	VALUE
Monitor-end termination	Ring lugs
Temperature range	-29 to +121 degC (-20 to +250 degF)
Minimum order length	3 ft
Maximum order length	96 ft
Maximum system field cable	305 m (1000 ft)

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
990-04-70-03-00	Related Bently Nevada product	View 990-04-70-03-00 page
330904-08-15-10-02-CN	Related Bently Nevada product	View 330904-08-15-10-02-CN page
21000-34-10-00-054-04-02	Related Bently Nevada product	View 21000-34-10-00-054-04-02 page
330880-28-45-020-03-02	Related Bently Nevada product	View 330880-28-45-020-03-02 page
3500-70M-176449-09-13548...	Related Bently Nevada product	View 3500-70M-176449-09-13548... page
3500-72M-149734-08-13548...	Related Bently Nevada product	View 3500-72M-149734-08-13548... page
3500-65-145988-02-172109-01	Related Bently Nevada product	View 3500-65-145988-02-172109-01 page
172115-01	Related Bently Nevada product	View 172115-01 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Hydro-generator vibration

Provides a 55 ft armored signal route

Cooling-tower fan monitoring

Uses a moisture-resistant female sensor connector

Slow-speed machine protection

Terminates at the monitor with ring lugs

Long-route velocity cable renewal

Carries the powered velocity-transducer signal and common conductors

PRODUCT PRECAUTIONS

- 1 Confirm 84661-55 and the fifty-five-foot route against the installed cable record.
- 2 Place the monitored machine and velocity channel in the approved maintenance state.
- 3 Inspect the moisture-resistant female connector and transducer receptacle before mating.
- 4 Label every monitor-end ring lug and preserve signal, common, supply and shield identity.
- 5 Support the stainless-steel armor so connector bodies carry no cable weight or tensile load.
- 6 Keep the route within the documented temperature range and away from moving or hot surfaces.
- 7 Measure conductor continuity, shield isolation and connector condition before energization.
- 8 Restore the velocity channel under controlled conditions and verify bias, response and alarm action.

ENGINEER FAQ

Q1 Does 84661-55 match Low Frequency Velocity Transducer in a Hydro-generator vibration installation?

Verify the complete 84661-55 marking, the documented Bently Nevada Low Frequency Velocity Transducer System position and the installed Low Frequency Velocity Transducer before fitting the assembly.

Q3 Which Bently Nevada Low Frequency Velocity Transducer System records should be captured before removing 84661-55?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 84661-55 before disconnection.

Q5 Which Compatible monitor input condition should be checked when 84661-55 reports an abnormal state?

Check the Compatible monitor input supply, seating and connection first, then compare channel diagnostics with the recorded 84661-55 baseline.

Q7 What maintenance evidence is required after 84661-55 is used for Slow-speed machine protection?

Retain the nameplate record, corrective action, final diagnostics and a controlled slow-speed machine protection functional-test result for 84661-55.

Q2 How should 84661-55 be wired when it must provides a 55 ft armored signal route?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 84661-55; then continuity-test the affected path.

Q4 What controlled test confirms that 84661-55 can uses a moisture-resistant female sensor connector?

Apply the approved field or simulated stimulus, observe the Bently Nevada Low Frequency Velocity Transducer System indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can 84661-55 be moved directly into Cooling-tower fan monitoring without validating Approved shield and grounding arrangement?

No. Confirm the Approved shield and grounding arrangement, revision, connection scheme and Bently Nevada Low Frequency Velocity Transducer System configuration before transferring 84661-55 to that duty.

Q8 How should 84661-55 be returned to service in Long-route velocity cable renewal?

Restore power under control, verify terminates at the monitor with ring lugs, exercise the intended signal path and release 84661-55 only after the Bently Nevada Low Frequency Velocity Transducer System remains in its approved operating state.

SOURCE Bently Nevada Low Frequency Velocity Transducer System Datasheet | 185M2670 Rev. A

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