

INDUSTRIAL AUTOMATION PRODUCT

84661-55

55 ft armored low-frequency velocity transducer interconnect cable

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

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	Bently Nevada Low Frequency Velocity Transducer System
Part number	84661-55
Country	USA
HS code	8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



2

Technical Specifications

Technical values below are limited to the named Bently Nevada product record.

PARAMETER	TECHNICAL 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
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)

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	Low Frequency Velocity Transducer
Companion hardware	Compatible monitor input
Field connection	Cable supports and glands
Primary system function	Provides a 55 ft armored signal route
Controlled acceptance duty	Hydro-generator vibration

3

System Role and Architecture

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

FUNCTION 1

Provides a 55 ft armored signal route

FUNCTION 2

Uses a moisture-resistant female sensor connector

FUNCTION 3

Terminates at the monitor with ring lugs

FUNCTION 4

Carries the powered velocity-transducer signal and common conductors

Matched system components

- Low Frequency Velocity Transducer
- Compatible monitor input
- Cable supports and glands
- Approved shield and grounding arrangement

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Low Frequency Velocity Transducer
Companion hardware	Compatible monitor input
Field connection	Cable supports and glands
Primary system function	Provides a 55 ft armored signal route
Controlled acceptance duty	Hydro-generator vibration

4

Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	84661-55 / 84661-55 recorded
Physical interface	Low Frequency Velocity Transducer
Companion check	Compatible monitor input
Functional proof	Provides a 55 ft armored signal route
Application test	Hydro-generator vibration

5

Engineering 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
24710-080-00	Related Bently Nevada product	View 24710-080-00 page
330903-03-11-05-02-05	Related Bently Nevada product	View 330903-03-11-05-02-05 page
330102-00-40-10-01-05	Related Bently Nevada product	View 330102-00-40-10-01-05 page
330104-01-04-15-02-05	Related Bently Nevada product	View 330104-01-04-15-02-05 page
330101-00-52-05-01-05	Related Bently Nevada product	View 330101-00-52-05-01-05 page
21504-0000-012-05-02	Related Bently Nevada product	View 21504-0000-012-05-02 page
146054-08-05-02-05	Related Bently Nevada product	View 146054-08-05-02-05 page
146054-12-05-02-05	Related Bently Nevada product	View 146054-12-05-02-05 page

MANUFACTURER SOURCE RECORD

Bently Nevada Low Frequency Velocity Transducer System Datasheet

185M2670 Rev. A

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com

