

25 mm Cable Decision Dashboard

330854-040-24-05

PRODUCT ROLE

Bently Nevada 330854-040-24-05 is a 4.0 m high-temperature FluidLoc extension cable for the 3300 XL 25 mm proximity transducer system. It joins a compatible 25 mm probe to the matching Proximitor Sensor in a documented 5 m system.

040

4.0 m extension

24

High-temperature FluidLoc

05

Multiple approvals

5 M

Matched 25 mm system

POSITION IN THE CHAIN

25 mm probe -> 4 m extension cable -> 5 m 25 mm Proximitor -> turbine monitoring channel.

Technical Capability Matrix

Armor and cable option 24	High-temperature FluidLoc	Typical cable capacitance	69.9 pF/m
Cable armoring	Unarmored	Cable operating temperature	-35 to +200 deg C
Agency approval option 05	Multiple approvals	Minimum bend radius	25.4 mm
Cable construction	75 ohm triaxial, PFA insulated FluidLoc	Connector mating torque	Finger tight; 0.565 N m maximum
4 m core resistance	1.0 +/- 0.25 ohm	Connector joint tensile rating	270 N maximum
4 m coaxial resistance	0.3 +/- 0.1 ohm	Matched 5 m chain	1 m probe plus 4 m extension cable

INTERPRETATION

The 4 m resistance data apply to the isolated cable; 12.7 mm linear range and 0.787 V/mm scale are matched-system values, not standalone cable outputs.

Turbine Integration Map

Collar differential expansion

Carry the 25 mm probe's measurement path to its matched sensor.

Ramp measurement

Preserve the approved 25 mm channel arrangement and cable route.

High-temperature routing

Use the option-24 FluidLoc execution where the specified route demands it.

Cable renewal

Restore 4 m electrical length and protected ClickLoc connections.



Service Decisions

How does option 040 set the 330854-040-24-05 system length?

It selects a 4.0 m extension. Combined with a 1.0 m 3300 XL 25 mm probe, it forms the 5 m cable-and-probe length required by the matching Proximity Sensor.

Is the 24 cable option armored?

No. Code 24 is high-temperature FluidLoc cable; the separate 25 option adds stainless-steel armor. Match the installed route and protection requirement before substitution.

What does the 05 suffix select for this 25 mm extension cable?

The 05 agency-approval option specifies multiple approvals. It does not change the 040 cable length or 24 cable construction.

Can this cable replace an 8 mm or 11 mm system cable?

No. The 330854 family is the extension cable for the 3300 XL 25 mm transducer chain; the installed probe, cable and Proximity must be matched as one 25 mm system.

Which resistance readings are expected for the isolated 4 m cable?

The published 4 m cable readings are 1.0 +/- 0.25 ohm core-to-core and 0.3 +/- 0.1 ohm coaxial-to-coaxial. Test only after disconnecting the cable from the monitoring circuit.

What temperature range applies to the extension cable itself?

The extension cable operating and storage range is -35 to +200 deg C. Verify the cable route and connectors against that range, without applying a probe-only short-term limit to the cable.

CONTROLLED RELEASE

Check exact cable execution, isolated continuity, clean high-temperature joints, matched 5 m chain and accepted monitored response.

Source and Related 25 mm Portfolio

RELATED BENTLY NEVADA 25 MM PAGES

01 Bently Nevada 330851-02-000-080-10-00-00

02 Bently Nevada 330851-04-000-020-10-01-00

03 Bently Nevada 330851-04-000-015-10-01-05

04 Bently Nevada 330851-02-000-030-10-00-00

05 Bently Nevada 330851-02-000-050-10-00-05

06 Bently Nevada 330851-06-000-070-50-00-05

SERVICE HANDOVER

Record article identity, installed 25 mm chain, cable route, 4 m continuity and accepted differential-expansion channel response.

MANUFACTURER SOURCE RECORD

Baker Hughes / Bently Nevada, 3300 XL 25 mm Proximity Transducer System Datasheet, 163236 Rev. M.

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