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01 Establish the original circuit

Record both endpoints

Capture the exact transducer and receiving-channel references, terminal assignments, plug orientation and shield termination before removal. Keep the record with the cable reference so it can be compared after replacement.

Protect the measurement function

Place the affected channel in its approved maintenance state and isolate it before opening the circuit. Confirm how the machine protection or control system will respond while the sensor connection is absent.

Record to retain	Cable identity, sensor identity, receiver channel and conductor map
Initial hold point	Maintenance state and isolation confirmed

Isolate before electrical checks

Disconnect from sensitive electronics before continuity or other cable testing. Use only test methods permitted by the connected equipment instructions.

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02 Check the delivered assembly

Compare the two connection ends

Inspect the three-socket plug and terminal lugs for damage, contamination and signs of loose conductors. Compare the actual mating interface with the selected sensor rather than using the socket count as the sole compatibility check.

Trial the supported cable path

Confirm that the 10 ft assembly reaches along the planned route with an appropriate connection approach. Avoid sharp support edges and any arrangement that would put pull on the socket connector or terminal lugs.

Assembly check	Correct full marking and intact armor
Mechanical check	Supported route; no connector tension
Interface check	Mating plug and identified terminal lugs

Inspect the socket interface

Check socket condition, connector engagement and the required sealing arrangement without inferring a cable-wide ingress rating.

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03 Map and test the isolated cable

Identify each conductive path

Use the approved low-energy continuity method with the cable disconnected from sensitive electronics. Map each socket to its intended lug and compare the results with the retained wiring record; do not guess from wire colour alone.

Check for unintended connections

Check the circuit paths and shield arrangement as required by the equipment procedure. Do not apply an insulation-test voltage based on an assumed cable rating, and do not use armor as an improvised test return.

Expected result	Correct path from each identified socket to its assigned lug
Fault to resolve	Open path, intermittent contact or unintended cross-connection
Test boundary	Electronics disconnected; approved method only

Support the armored route

Prevent cable tension, crushing and chafing at the connector and terminal ends; armor does not replace strain relief.

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04 Restore wiring and shield control

Terminate by function

Reconnect the lugs to the identified sensor supply, signal and return positions as applicable to the selected circuit. Check engagement and the manufacturer-prescribed terminal method before restoring the connection cover.

Recreate the intended shielding boundary

Restore the approved shield bond and connector sealing arrangement. Keep signal return and shield functions separate; an additional earth connection can alter the installation even when the conductor wiring is unchanged.

Wiring evidence	Socket-to-lug map agrees with both endpoint instructions
Routing evidence	Cable supported away from chafing and avoidable interference
Shield evidence	Approved termination restored without added bonds

Restore the shield arrangement

Maintain the approved shield termination and circuit return separately. Do not add an unplanned second earth bond.

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05 Demonstrate channel recovery

Compare the restored indication

After controlled energization, compare the measured value and channel status with the expected process or test reference. Investigate any change instead of accepting a live display as proof that the cable is correctly connected.

Close the maintenance record

Complete the required channel diagnostic and protection checks, restore the agreed operating state and retain the final connection record. Remove temporary test connections and confirm that cable support and covers are complete.

Acceptance record	Expected indication and diagnostic response
Final record	Cable reference, terminal map and completed checks

Other Bently Nevada product references

Bently Nevada 330101-00-15-05-11-00

Bently Nevada 330101-00-26-05-01-05

Bently Nevada 330101-10-44-05-02-05

Separate references; no substitution or compatibility is implied.