Bently Nevada 84661-96

Complete product information

Bently Nevada 84661-96 is a 96 ft (29 m) armored two-conductor shielded Velomitor interconnect cable with a moisture-resistant two-socket female connector and terminal lugs.

Product and offer identity

Complete part number	84661-96
Product type	Armored Velomitor Interconnect Cable
Condition	New, original product
Shipping	Swift global dispatch
Shipping size (est.)	27cm x 27cm x 3cm
Weight	0.3 kg
Country of origin	USA
Tariff reference	8537101190
Ships from	Xiamen, Fujian, China

Technical specifications

Cable family	84661 armored Velomitor interconnect
Selected length	96 ft (29 m)
Conductors	Two, twisted
Wire gauge	22 AWG
Shield	Overall shield
Mechanical protection	Stainless-steel armor
Sensor-side termination	Moisture-resistant two-socket female connector
Monitor-side termination	Terminal lugs
Specified use	Velomitor-to-monitor interconnect
Housing exclusion	Not for 21128 Velocity Transducer Housing

Overview

The 84661 cable family provides a shielded two-conductor route under stainless-steel armor. The 96 suffix specifies the maximum published 96 ft length for this ordering family; it is a cable assembly, not a velocity sensor.

One end mates to the Velomitor through a moisture-resistant two-socket female connector. The other ends in lugs for the monitor terminal arrangement. Preserve conductor and shield identities through the complete route.

The manufacturer excludes 84661 from the 21128 Velocity Transducer Housing. Confirm the exact installed transducer, housing and monitor before using this long interconnect.

Applications and compatibility

Remote Velomitor connection

Route sensor power and signal to the monitoring cabinet within the approved cable plan.

Armored field route

Use mechanical armor where the site design calls for added cable protection.

Retrofit identification

Match the sensor-side socket and monitor-side lugs to the removed cable.

Maintenance testing

Isolate the circuit and test conductor and shield continuity end to end before energizing.

Product precautions

Housing mismatch

Do not use the 84661 family with the 21128 housing; use the specified alternative assembly.

Terminal mapping

Verify both conductors and shield against the installed monitor wiring drawing.

Armor termination

Maintain the protective route without treating armor as a signal return.

Connector fit

Inspect the two-socket female connector and mating pins for damage.

Long-cable response

Confirm total route and monitor input conditions for a 96 ft interconnect.

As-left test

Record continuity, insulation and live sensor bias after installation.

Buyer information

Send the exact complete marking, application, quantity and required delivery destination. Confirm the offered condition and included items in the written quotation; shipment details are established with the order.

Lifecycle and available-unit details

The current manufacturer lifecycle phase for this exact complete ordering identity is not established here. Review the installed machine configuration before a replacement decision.

The offered unit is New, original product. Request available label and connector photographs for comparison with the installed part before approving the supply scope.

Engineering questions

Why is 84661-96 unsuitable for a 21128 transducer housing?	The manufacturer specifies a different interconnect for that housing. Check the installed housing and transducer before ordering a cable.
How should the shield of 84661-96 be terminated?	Follow the installed monitor drawing and site grounding design. Do not substitute stainless armor for the signal shield or common conductor.
What fault can arise from an incorrectly mapped lug on 84661-96?	The sensor supply or output may be interrupted or reversed. Isolate and trace each conductor from the two-socket end to its lug before energizing.
How can 84661-96 be tested for an open conductor?	Disconnect both ends under site isolation and measure each identified conductor end to end, then check for unintended conductor-to-shield continuity.

What could make the connection of 84661-96 intermittent?	Loose female contacts, damaged lugs, cable strain and armor bends can interrupt the circuit. Inspect both ends while isolated.
Does the moisture-resistant connector on 84661-96 make the entire cable submersible?	No. The connector description does not establish a full submerged-installation rating. Protect the joint according to the approved enclosure and route.
Why should the 96 ft route of 84661-96 be reviewed with the monitor?	The selected length is the published maximum for the family. Check the actual monitor input, termination and allowable field wiring before installation.
Which checks complete replacement of 84661-96?	Retain the cable marking, connector fit, conductor map, shield termination, continuity results and live sensor bias with the maintenance record.

Additional technical criteria

Sensor connector	Two-socket moisture-resistant female termination.
Monitor termination	Separate terminal lugs for field connection.
Cable pair	Two twisted 22 AWG conductors under shield.
Mechanical jacket	Stainless-steel armor over the shielded cable.
Length coding	The 96 option selects 96 ft, approximately 29 m.
Housing compatibility	84661 is excluded for the 21128 Velocity Transducer Housing.
Continuity test	Test each conductor from sensor connector to corresponding lug.
Shield test	Confirm the shield is isolated or terminated as the installed drawing requires.

Engineering integration decisions

Assembly role	This cable links a field Velomitor to monitor terminals; it is not a measuring transducer.
Sensor end	Inspect the female socket connection and its moisture barrier before mating.
Panel end	Map each lug to the installed monitor drawing before energizing.
Mechanical support	Secure the armored route so neither termination carries the cable weight.
Shield handling	Follow the installed shield-grounding plan; verify it separately from conductor continuity.
Acceptance	Record end-to-end continuity, shield condition and full cable marking.

Technical basis

Bently Nevada 330500 Velomitor Piezo-velocity Sensor, 141632 Rev. V

Discuss the complete marking and installed application with Apter Power.
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