Bently Nevada 106765-04

Installation, integration and commissioning field workflow

Velomitor XA Sensor Interconnect Cable. 106765-04 provides the documented cable connection between the associated field sensor or transmitter and its monitoring wiring. The cable is a distinct ordered part; its length code is part of the complete supply identity.

01 Exact work package

Complete model	106765-04
Engineering role	Velomitor XA Sensor Interconnect Cable
Installed-system check	Match the complete marking and host arrangement
Cable family	106765 Velomitor XA interconnect
Ordered length	4 m (04)
Ordering span	1–25 m; 3 m increments from 1 m
Conductor construction	Two-conductor twisted, shielded; 22 AWG
Identified leads	A white; B black; SHLD green
Protective construction	Stainless-steel armor over cable

Before work starts

Confirm the installed drawing, complete supplied code, actual connector and approved monitoring arrangement before isolating the channel. Record the as-found state for a comparable as-left check.

Remaining verified interface data

Matching sensor family	330525 Velomitor XA

For installation, verify both connector ends and the required route before fitting the armored assembly. Protect the cable at entry points, maintain bend clearance and follow the installed control drawing for shield handling and hazardous-area boundaries.

If a signal becomes intermittent, isolate the loop and test continuity section by section before exchanging the sensor or transmitter. Retain the complete cable marking, route and termination record to make future fault isolation reproducible.

System and application map

Sensor-to-monitor path

Carry the documented field signal along the installed route without changing connector assignments.

Protected cable run

Route the armored construction where physical protection is needed, while controlling strain at both ends.

03 Fit, connect and prove

Match the ordered cable	Check the complete part number and length against the site drawing.
Inspect both ends	Verify connector fit, pin identity and visible damage before energizing.

Protect bend points	Maintain clearance and strain relief along the selected route.
Control shield termination	Follow the approved field wiring drawing; do not use armor as an assumed signal return.
Test continuity	Isolate the circuit and check each signal path before reconnecting.
Log the final route	Record cable length, path and channel result for future maintenance.

Acceptance sequence

01 Identify

Compare complete marking and supplied suffixes.

02 Fit

Check connector, mounting or cable route against the installed drawing.

03 Prove

Check the connected channel and document the as-left result.

04 Engineering questions

How should 106765-04 be matched to an installed Velomitor XA channel?	Compare the installed 330525 sensor connector, cable length and terminal arrangement with the complete drawing. The 106765 family is documented for the XA sensor; verify both ends before energizing the monitor.
What checks help isolate an open conductor in 106765-04?	With the channel isolated, check each identified A, B and shield path end to end and inspect both connector ends. Compare the result with the installed wiring record before replacing the sensor.
How should the armor and shield of 106765-04 be handled during routing?	Maintain the required bend clearance and protect the cable from abrasion. Terminate the shield according to the applicable sensor and monitor wiring drawing; do not assume armor is a signal return.
What should be checked after replacing 106765-04 with a different ordered length?	Reconfirm the installed cable route and monitoring-channel setup. The datasheet specifies lengths in 3 m increments from 1 m, so verify the actual complete order code and fit before commissioning.

Discuss the complete model and fitted revision with Apter Power.
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Technical basis

Bently Nevada 330525 Velomitor XA Piezo-velocity Sensor Datasheet, 141633 Rev. M.