Bently Nevada 106765-07

ENGINEERING GUIDE / FIELD REPLACEMENT AND COMMISSIONING

Bently Nevada 106765-07 is a 7 m interconnect cable for the 330525 Velomitor XA piezo-velocity sensor, with a two-pin sensor connection and field-wire termination.

01 Job scope and safe-work boundary

The offered item is the 106765-07 cable. The 330525 sensor, terminal housing and monitor wiring are separate unless identified in the quotation.

Complete marking	The 106765 base code identifies the cable assembly; 07 specifies a 7 m ordered length. Match the physical cable label and termination style.
Installed-system context	This cable links the 330525 Velomitor XA sensor to the field wiring while protecting the sensor connection.
Pre-work record	Send the complete 106765-07 marking, installed sensor model and required quantity.

Before work starts

Follow the approved site isolation and machinery protection procedure. Record the removed item, connected chain and original channel behavior before disconnecting anything.

Configuration limits

Cable family	106765 interconnect cable
Order length	07: 7 m
Sensor interface	330525 Velomitor XA
Sensor-end connection	Two-pin plug with splash-resistant boot
Cable conductors	Two-conductor, 22 AWG
Shield	Shielded cable; separate SHLD lead

02 Readiness and fit

Verify full cable code	Check 106765-07 on the offered label and compare its 7 m route.
Protect sensor connector	Inspect the two-pin fit and splash-resistant boot before fastening.
Inspect armor	Look for FEP coating damage, crushed cable or exposed shield.
Preserve conductor map	Record A, B and SHLD before disconnecting the existing cable.
Check cable routing	Avoid sharp bends, hot surfaces and moving machine parts.
Prove the channel	Verify monitored response under an approved machine test after reconnection.

Why these checks matter

Physical interface	Compare the 7 m route, connector and installed harness before removal.
Complete-system match	Inspect the boot and clamp seating at the sensor end.
Site approval	Avoid sharp bends, hot surfaces and moving machine parts.

03 Replacement sequence

01 Record baseline	Send the complete 106765-07 marking, installed sensor model and required quantity.
02 Compare offered identity	Compare 106765-07 with the installed cable label and the applicable Bently Nevada 330525 system documentation.
03 Prepare interfaces	Inspect the two-pin fit and splash-resistant boot before fastening.
04 Fit and reconnect	Look for FEP coating damage, crushed cable or exposed shield.
05 Inspect connection	Record A, B and SHLD before disconnecting the existing cable.
06 Prove operation	Verify monitored response under an approved machine test after reconnection.
07 Keep as-left record	Keep the complete cable marking, sensor identity, terminal map, routing photos and monitored acceptance result.

Installed-system relationship

The cable drawing identifies a two-pin connection at the sensor end and a fluorosilicone splash-resistant boot with clamps. FEP-coated stainless-steel armor protects the cable, while the two-conductor shielded lead continues to the field termination. Keep bend radius, clamp fit and sealing condition within the site installation practice.

Application checks

Sensor cable replacement	Compare the 7 m route, connector and installed harness before removal.
Weather-exposed installation	Inspect the boot and clamp seating at the sensor end.
Field termination	Restore A, B and SHLD to the documented terminal arrangement.
Channel acceptance	Check wiring continuity and controlled vibration response after installation.

04 Commissioning and acceptance

Identity and fit	Compare 106765-07 with the installed cable label and the applicable Bently Nevada 330525 system documentation.
Connection continuity	Record A, B and SHLD before disconnecting the existing cable.

Configuration review	The cable is specified for the 330525 Velomitor XA sensor; verify the actual sensor marking and connector.
Dynamic proof	Verify monitored response under an approved machine test after reconnection.
Handover	Keep the complete cable marking, sensor identity, terminal map, routing photos and monitored acceptance result.

Acceptance by application

Sensor cable replacement	Compare the 7 m route, connector and installed harness before removal.
Weather-exposed installation	Inspect the boot and clamp seating at the sensor end.
Field termination	Restore A, B and SHLD to the documented terminal arrangement.
Channel acceptance	Check wiring continuity and controlled vibration response after installation.

Engineering questions

What does the 07 suffix in 106765-07 select?	It identifies the 7 m ordered cable length. Compare the physical cable label and installed route before replacement.
How does 106765-07 connect at the 330525 sensor?	The cable uses a two-pin connection with a splash-resistant boot and clamps. Inspect connector fit and sealing after assembly.
Which conductors must be mapped when replacing 106765-07?	Record A (white), B (black) and SHLD (green) against the original field drawing before disconnecting the old cable.
What damage checks matter for 106765-07?	Inspect armor, FEP coating, boot, clamps and cable bends; damaged protection can compromise the installed path.

05 Fault isolation and handover

Can 106765-07 be treated as the 330525 sensor itself?	No. It is the interconnect cable; identify the sensor, cable and terminal housing separately in the quotation and installation record.
How should 106765-07 be routed near the machine?	Follow the approved cable route, maintain bend clearance and protect it from moving or hot surfaces. Compare the 7 m length with the installed path.
Why is continuity alone insufficient to accept 106765-07?	Continuity does not prove conductor mapping, shield termination or sensor response. Check the channel under an approved machine test.
What handover record is needed after installing 106765-07?	Keep the complete cable marking, sensor identity, terminal map, routing photos and monitored acceptance result.

Final record

Keep the complete cable marking, sensor identity, terminal map, routing photos and monitored acceptance result.

Evidence and applicability

Bently Nevada 330525 Velomitor XA Piezo-velocity Sensor Datasheet, 141633 Rev. M. The 106765 ordering table and cable drawing apply to the interconnect cable; 330525 sensor operating ratings are not cable ratings.

Cable-specific acceptance worksheet

Before removal	Photograph the 330525 sensor connector, splash boot, both clamps, cable armor transition and A/B/SHLD termination. Record the original path and any conduit entry.
Cable inspection	Verify the offered 106765-07 marking and 7 m order length. Inspect the two-pin mating face, boot elasticity, clamp seating, armor continuity and jacket for cuts or compression.
Terminal mapping	Trace A (white), B (black) and SHLD (green) to the documented destination. Keep shield routing consistent with the site drawing and avoid reversing the dynamic pair.
Return to service	Check connection integrity before energization, then prove the monitored velocity response in an approved machine state. Record the as-left wiring and remaining exceptions.

Diagnostic decision points

No signal after reconnect	Check the 330525 sensor seating, two-pin contact condition and continuity through A and B. Compare the field terminals with the as-found drawing before replacing the sensor.
Intermittent signal	Inspect the boot, clamp pressure, armor transition and bend points while keeping the machine in an approved test state. Record whether the symptom changes with the cable route.
Noise or unstable reading	Review shield termination and separation from power wiring, then compare the monitored channel with a known baseline. Document any grounding change made during the cable replacement.
Handover exception	If cable identity, route, terminal mapping or channel response cannot be confirmed, keep the exception open in the maintenance record instead of treating visual fit as acceptance.

Related product references

Catalogue navigation only; compare the complete installed configuration before selection.

Bently Nevada 330101-04-36-05-02-05

Bently Nevada 330102-00-32-10-02-00

Bently Nevada 330909-00-30-10-02-00

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