Bently Nevada 21747-085-01

Technical Reference and Engineering Data

Bently Nevada 21747-085-01 is an 8.5 m armored extension cable for a documented legacy 7200 proximity transducer chain.

01 Exact identity and system role

Complete model	21747-085-01
Product type	7200 Series armored extension cable
Manufacturer	Bently Nevada
Technical source	Bently Nevada 7200 Proximity Transducer Systems technical and ordering information
Cable family	21747 legacy 7200 extension cable
Selected cable length	8.5 m
Mechanical protection	Armored
Signal role	Probe-to-Proximitor extension in a legacy 7200 chain
Calibration boundary	Total probe and extension length must match the installed 7200 Proximitor
Connector requirement	Match both installed legacy coaxial interfaces

System position

The cable belongs to a legacy 7200 chain; exact total length, connectors, Proximitor and monitor assignment govern compatibility.

Lifecycle and installed-base context

Installed-base role	The 21747 family supports legacy 7200 proximity systems and must be matched to the installed chain.
Exact selected fields	The supplied identity selects 8.5 m length and armored construction.
Replacement boundary	A 3300 XL cable is not a like-for-like substitute unless every companion component and calibration is converted.
Release evidence	Confirm cable marking, both companion identities, route, continuity and returned channel response.

Available unit details

Offered configuration	8.5 m armored legacy 7200 extension cable.
Identity check	Confirm 21747 family marking, 085 length field, 01 armor field and both connectors.
Included scope	Extension cable only; probe, Proximitor, monitor and route hardware are separate unless itemized.

02 Verified technical data

Cable family	21747 legacy 7200 extension cable
Selected cable length	8.5 m
Mechanical protection	Armored
Signal role	Probe-to-Proximitor extension in a legacy 7200 chain
Calibration boundary	Total probe and extension length must match the installed 7200 Proximitor
Connector requirement	Match both installed legacy coaxial interfaces

Additional engineering data

Measurement context	Non-contact shaft vibration or position, subject to installed 7200 system
Substitution boundary	Do not apply 3300 XL cable values or connectors without an approved conversion
Route controls	Preserve bend clearance, armor support and connector strain relief
Acceptance evidence	Continuity, connector inspection, restored gap or bias and returned monitor response
Included component	Extension cable only
Required companions	Matching 7200 probe, Proximitor and monitor channel

Applicability boundary

The selected 085 length and 01 armored identity are used only within the documented legacy 7200 chain. No adjacent 3300 XL electrical ratings are transferred.

03 Integration and engineering interpretation

Legacy vibration channel

Extend the documented 7200 probe path to the matching Proximitor used for shaft-vibration measurement.

Legacy position channel

Preserve the recorded total electrical length and target relationship for shaft-position measurement.

Armored machine routing

Use where the installed route requires mechanical protection and independent connector strain relief.

Installed-chain maintenance

Match the complete 7200 probe, cable, Proximitor and monitor identities before replacement.

Technical notes

Legacy electrical length	Use the 8.5 m cable only where probe lead plus extension agrees with the installed 7200 Proximitor record.
Armor and connectors	Support the armored route independently and confirm both legacy coaxial interfaces before connection.
Acceptance datum	Record isolated continuity, restore the documented gap or bias and prove the legacy monitor response.

Interpretation boundaries

Product boundary	Apply the listed facts to 21747-085-01 and the documented legacy 7200 Series proximity transducer system context only.
Interface boundary	Connector, terminal, bus, cable and companion-device assignments must match the installed drawing.
Electrical boundary	Use exact-model values only; system-level ratings remain conditional on the complete installed configuration.
Configuration boundary	Switches, jumpers, addresses, firmware and project settings must be reconciled before energization.
Diagnostic boundary	Interpret indicators and fault states together with measured inputs, outputs and host-system status.
Acceptance rule	Use the approved system baseline and maintenance procedure for the final as-left decision.

04 Diagnostic decisions and support record

What length is selected by 21747-085-01?	The 085 field selects an 8.5 m extension cable in the legacy 21747 family.
Which mechanical protection applies to 21747-085-01?	The 01 field selects armored construction; inspect support and damage along the complete route.
Which companion components are required for 21747-085-01?	Use the matching legacy 7200 probe, Proximitor and monitor channel recorded for the machine.
How is total electrical length checked for 21747-085-01?	Add the probe lead to the 8.5 m cable and compare the total with the installed 7200 Proximitor record.
How is continuity checked on 21747-085-01?	Isolate the channel, inspect both coaxial interfaces and perform the approved end-to-end test before reconnecting.
Can 3300 XL values be applied to 21747-085-01?	No; do not transfer modern 3300 XL resistance, scale, connector or calibration data without an approved conversion.
When must 21747-085-01 be withheld from service?	Withhold release if marking, connectors, total length, route, continuity or returned response differs from the approved record.
What handover evidence is required for 21747-085-01?	Retain the full marking, companion identities, continuity results, route inspection, gap or bias and monitor response.

Verified source

Bently Nevada 7200 Proximity Transducer Systems technical and ordering information

Related product references

Related product	Bently Nevada 330104-00-16-10-02-00
Related product	Bently Nevada 330500-00-01
Related product	Bently Nevada 330980-70-CN
Related product	Bently Nevada 330930-040-03-00

Engineering contact

Discuss the exact marking and installed application with Apter Power.
sales13@apterpower.com | +86 18030235313

Acceptance evidence package

Nameplate evidence	Overall and close photographs showing 21747-085-01, revision, approval and serial details where present.
Installation evidence	Views of the rack position, mechanical datum, terminal assignment, cable route and strain relief.
Configuration evidence	Export or screenshots identifying the approved hardware assignment and parameters without exposing credentials.
Baseline evidence	As-found readings with units, test conditions, machine state and the instrument used.
Inspection evidence	Connector, contact, insulation, fastener, contamination and heat-condition observations.
Functional evidence	As-left readings and the controlled input, output or channel response used for acceptance.
Change evidence	Any wiring, setting, firmware or mechanical change linked to its approved work reference.
Release evidence	Technician, reviewer, date, asset reference and the maintenance-record location for traceability.

Controlled acceptance sequence

01 Isolate	Place the monitored machine and channel in the approved maintenance state; prove the required isolation.
02 Photograph	Capture 21747-085-01, the installed datum, connector, route and companion-component markings.
03 Measure	Record mechanical position and the applicable stopped-machine electrical reading before removal.
04 Compare	Check delivered identity, interfaces and evidence against the approved drawing and spare-parts record.
05 Install	Fit without twisting the lead; preserve thread engagement, target clearance, bend radius and strain relief.
06 Set point	Establish the operating gap or datum only with the approved stopped-machine procedure.
07 Prove	Compare local reading, monitor indication and controlled operating response with the accepted baseline.
08 Handover	Record as-left values, photographs, deviations, responsible technician and release approval.

Evidence quality controls

Traceability	Each value is tied to 21747-085-01, the asset location, test state, instrument and date.
Repeatability	The same approved method and comparable operating state are used for before-and-after readings.
Resolution	Recorded precision does not exceed the capability of the instrument or source document.
Reference state	Stopped, energized, loaded and process-running observations are clearly distinguished.
Change control	Every changed setting, connection or mechanical datum has an approved reason and reviewer.
Retention	Evidence remains accessible with the maintenance record for future troubleshooting and replacement review.

As-left commissioning record

Exact delivered marking	21747-085-01; photograph and record any additional label detail.
Installed asset reference	Machine, bearing, train, channel and drawing identifiers.
Mechanical as found	Reach, lock position, gap reference, cable route and connector support.
Static reading as found	Gap, bias, continuity or channel value appropriate to the installed system.
Companion identities	Extension cable, Proximitor or conditioner and monitor channel markings.
Mechanical as left	Final reach, lock position, target clearance and route protection.