ABB TC513 3BSE006385R1

INSTALLATION & COMMISSIONING GUIDE / FIELD REPLACEMENT

ABB TC513 3BSE006385R1 is a af100 twisted-pair/coax converter modem identified for the ABB Advant Fieldbus 100 communication system. The complete order code, hardware execution and installed configuration must be matched together before replacement.

01 Job scope and safe-work boundary

Offered assembly	ABB TC513 3BSE006385R1
Installed system	ABB Advant Fieldbus 100 communication system
Work boundary	Follow the site procedure for stored energy, field power and electrostatic handling.
As-found record	Send the complete TC513 3BSE006385R1 marking, quantity and installed-system context.

Readiness checklist

Verify the complete identity

Check every token in TC513 3BSE006385R1 against the offered label and approved record.

Isolate the work boundary

Follow the site procedure for stored energy, field power and electrostatic handling.

Record connections

Photograph and label the carrier, terminals, cables and keying before removal.

Preserve configuration

Archive the applicable ABB Advant Fieldbus 100 communication system project or hardware settings before replacement.

02 Replacement sequence

01 Record the baseline	Send the complete TC513 3BSE006385R1 marking, quantity and installed-system context.
02 Verify identity	Compare TC513 3BSE006385R1 with the installed label and the applicable ABB documentation.
03 Isolate and label	Follow the site procedure for stored energy, field power and electrostatic handling.
04 Inspect interfaces	Check connectors, terminal blocks, carriers and cable condition before blaming the module.
05 Restore configuration	Archive the applicable ABB Advant Fieldbus 100 communication system project or hardware settings before replacement.
06 Prove operation	Use an approved functional test and retain the as-left diagnostic and acceptance evidence.
07 Handover	Retain the offered and removed markings, connection photographs, configuration record, diagnostic observations, functional test result and any unresolved exception.

Why these controls matter

Within the ABB Advant Fieldbus 100 communication system, this item must be evaluated together with its carrier, terminals, cables and project configuration. Preserve the as-found interface map and revision information; a mechanically similar item is not automatically an electrical or software equivalent.

Commissioning should progress from identity and connection checks to controlled power-up, diagnostics and a functional proof. Keep the final status, test conditions and remaining exceptions in the maintenance record so later troubleshooting has an accurate baseline.

03 Commissioning and acceptance

Identity and fit	Compare TC513 3BSE006385R1 with the installed label and the applicable ABB documentation.
Connection continuity	Photograph and label the carrier, terminals, cables and keying before removal.
Configuration restore	Archive the applicable ABB Advant Fieldbus 100 communication system project or hardware settings before replacement.

Dynamic proof	Use an approved functional test and retain the as-left diagnostic and acceptance evidence.
Evidence pack	Retain the offered and removed markings, connection photographs, configuration record, diagnostic observations, functional test result and any unresolved exception.

Application acceptance

Installed-system replacement

Compare the exact order code, host position and connected interfaces with the removed item.

Planned maintenance

Capture the as-found label, status and configuration before disturbing the installation.

Controlled commissioning

Restore documented connections and prove the intended signal, communication or control response.

Spare qualification

Keep revision, configuration and acceptance evidence with the spare-part record.

04 Diagnostics and handover

What configuration boundary matters when commissioning TC513 3BSE006385R1?	Use the approved ABB Advant Fieldbus 100 communication system project and the exact hardware or assembly revision. Do not treat physical fit as proof that the stored configuration and interface assignment are correct.
How can a suspected TC513 3BSE006385R1 fault be separated from field wiring or carrier faults?	Check supply and reference conditions first, then inspect the carrier, connectors and external wiring. Move to a controlled substitution only after the upstream and downstream paths have been documented.
What should be verified after fitting TC513 3BSE006385R1 to the installed system?	Confirm normal status indications, communication or signal continuity and the intended control response under an approved test state. Record the as-left state and compare it with the approved acceptance baseline.
Can TC513 3BSE006385R1 be replaced by a similar-looking assembly?	No direct equivalence is established by appearance. Compare the complete order code, revision, interface execution and system configuration before approving an alternative.
What handover record is appropriate after work on TC513 3BSE006385R1?	Retain the offered and removed markings, connection photographs, configuration record, diagnostic observations, functional test result and any unresolved exception.

Evidence and applicability

ABB Advant Fieldbus 100 User Manual 3BSE000506-600 and complete TC513 3BSE006385R1 marking. The ABB manual identifies the TC513 media-conversion role, 24 V interface and connector arrangement; the complete article number identifies the offered modem.

Discuss the complete marking with Apter Power
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Related product references

Catalogue navigation only; these references are not identified as substitutes or compatibility claims.

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