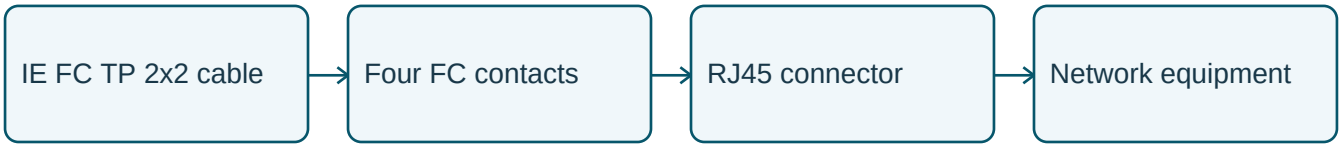
6GK1901-1BB10-2AE0

01 / System identity and preparation

Siemens 6GK1901-1BB10-2AE0 identifies the 50-piece package variant of the IE FC RJ45 Plug 180 (2x2). The connector uses a rugged metal enclosure and the FastConnect termination system for IE FC TP two-pair cable. The cable exits at 180 degrees, providing a straight connection to compatible equipment. The original package quantity is distinct from the quantity offered in an individual quotation.



Preparation priorities

Cable selection	Match the IE FC TP 2x2 cable construction and specified conductor and jacket sizes.
Connection relationship	Check the equipment RJ45 interface, 10/100 Mbit/s link requirements and straight cable-entry space.

Guide boundary

This Apter Power guide organizes preparation and acceptance checks. Apply the manufacturer instructions and approved site procedure for detailed wiring, mounting, configuration and functional testing.

Application boundary

The AE0 order code identifies a 50-unit original package. Connector ratings apply to the specified FastConnect cable combination; the actual offered quantity is confirmed separately.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

02 / Configuration review before service

Cable selection	Match the IE FC TP 2x2 cable construction and specified conductor and jacket sizes.
Connection relationship	Check the equipment RJ45 interface, 10/100 Mbit/s link requirements and straight cable-entry space.
Termination	Verify conductor placement, shield connection, cut-and-clamp closure and strain relief.
Link acceptance	Test communication and any PoE function across the completed compatible link.

Keep the package identity

Retain the AE0 suffix and distinguish original 50-unit packaging from the offered quantity.

Match the cable

Use the specified FC cable construction, conductor size and cable diameter.

Configured system behavior

The plug has four integrated cut-and-clamp contacts for AWG22 FC installation cable and one RJ45 equipment connection. It supports 10 and 100 Mbit/s Industrial Ethernet and Cat5 structured cabling. The specified cable diameter is 6.5 mm and conductor cross-section 0.33 square millimetres. Strain relief is integrated, and cable preparation must match the FastConnect system so that conductor placement, shield contact and mechanical retention are correct.

Mismatch decision

Resolve a different catalog marking, interface, software requirement or installed configuration before proceeding. Physical similarity alone does not establish an approved replacement.

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Apply manufacturer instructions and approved site procedures.

03 / Hardware and interface checks

Prepare the termination

Follow the FastConnect preparation and conductor placement procedure for the actual cable.

Respect IP20 protection

Provide suitable enclosure protection where the installation environment requires more than IP20.

Key hardware references

Network rate	10 / 100 Mbit/s
Cable outlet	180°
Cable contacts	4 integrated cut-and-clamp contacts
Cable construction	IE FC TP 2x2, AWG22

Configuration and service context

The connector has IP20 protection and an operating temperature range of minus 40 to plus 85 degrees Celsius. The current product data includes PoE and PoE+ capability, a maximum of ten reuses and a maximum relative humidity of 95 percent at 25 degrees Celsius without condensation. These connector characteristics do not increase the rating of the connected cable or equipment; the complete link must remain within its own limits.

Preserve the connection record

Photograph and label the affected connections before disconnection. Retain the original routing, module positions and identification with the work order, and compare the restored installation against that record.

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Apply manufacturer instructions and approved site procedures.

04 / Commissioning and diagnostic decisions

Check strain relief

Verify shield contact, strain relief and adequate space for the straight cable outlet.

Test the network link

Check physical connection and communication after termination; do not treat connector capability as a complete-link approval.

Acceptance checkpoints

Before energization	Check the equipment RJ45 interface, 10/100 Mbit/s link requirements and straight cable-entry space.
Configuration review	Verify conductor placement, shield connection, cut-and-clamp closure and strain relief.
Functional release	Test communication and any PoE function across the completed compatible link.

How many reuses are specified for 6GK1901-1BB10-2AE0?

The specified number of reuses is ten. Check the termination and mechanical condition during any rework.

Abnormal result

If diagnostics, communication or functional response differ from the approved baseline, stop the release and resolve the configuration or installation issue. Do not bypass an interlock or protective function to obtain a passing test.

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Apply manufacturer instructions and approved site procedures.

05 / Service record and technical references

Lifecycle and support

The manufacturer lifecycle phase is Active Product. Confirm the exact order-code package and any installation-specific approval requirements for the intended use.

Technical basis

Siemens 6GK1901-1BB10-2AE0 Product Data Sheet, 2026-10-30; Siemens Supplementary Products, Version 6.0, 2023.

Applicability

The AE0 order code identifies a 50-unit original package. Connector ratings apply to the specified FastConnect cable combination; the actual offered quantity is confirmed separately.

Related portfolio references

Siemens 6GK1571-1AA00

Siemens 6GK7443-1EX30-0XE0

Siemens 6GK5204-2BB10-2AA3

Siemens 6GK1503-3CB00

Navigation only. These listings are not confirmed replacements, compatible accessories or included items.

Handover record

Retain the complete fitted marking, hardware/software revision where applicable, connection record and accepted test results. Confirm separate accessories and documents in the quotation.

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Apply manufacturer instructions and approved site procedures.