6GK1901-1BB10-2AE0

01 / Product identity and control context

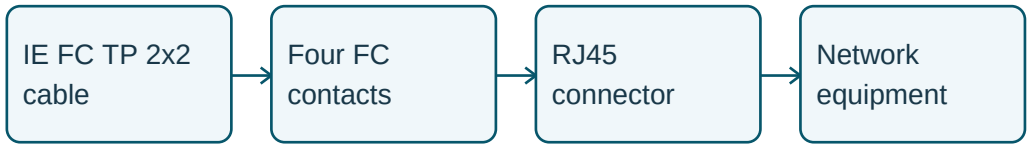
Ethernet RJ45 Connector

Siemens 6GK1901-1BB10-2AE0 is the 50-piece ordering variant of the IE FC RJ45 Plug 180 (2x2), a metal-housed FastConnect connector for 10/100 Mbit/s Industrial Ethernet.

Key characteristics

Connector type	IE FC RJ45 Plug 180 (2x2)
Data rate	10/100 Mbit/s
Order-code packaging	50 units per original package; offered quantity confirmed separately

Functional relationship



Cable selection

Match the IE FC TP 2x2 cable construction and specified conductor and jacket sizes.

Configuration 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.

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02 / Technical characteristics

Hardware and functional data

Product series	SIMATIC NET
Connector type	IE FC RJ45 Plug 180 (2x2)
Network rate	10 / 100 Mbit/s
Cable outlet	180°
Cable contacts	4 integrated cut-and-clamp contacts
Cable construction	IE FC TP 2x2, AWG22
Conductor cross-section	0.33 mm²

Interfaces and operating conditions

Cable diameter	6.5 mm
Enclosure	Metal
Ingress protection	IP20
Operating temperature	-40 to +85 °C
Power over Ethernet	PoE and PoE+ capable
Original package quantity	50 units; offered quantity confirmed separately

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03 / Application and integration contexts

Controller network links

Terminate compatible industrial Ethernet cable at controller or network-device RJ45 ports with the required straight cable-entry clearance.

Cabinet network wiring

Use the metal housing and FastConnect termination within a protected IP20 installation. Provide the appropriate cabinet environment.

Connection relationship

Check the equipment RJ45 interface, 10/100 Mbit/s link requirements and straight cable-entry space.

Field cable termination

Prepare the specified two-pair cable and connect the four conductors through the integrated cut-and-clamp contacts.

Powered Ethernet links

Use PoE or PoE+ capability only with a compatible cable, source and powered device. Validate the complete link after assembly.

Termination

Verify conductor placement, shield connection, cut-and-clamp closure and strain relief.

04 / Installation and release decisions

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.

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.

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.

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05 / Lifecycle, evidence and related portfolio

Lifecycle status

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

Supply boundary

Apter Power availability and dispatch are confirmed separately from the manufacturer lifecycle phase.

Technical basis

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

Related product references

Siemens 6GK1571-1AA00

Siemens 6GK7443-1EX30-0XE0

Siemens 6GK5204-2BB10-2AA3

Siemens 6GK1503-3CB00

Navigation only; no substitute or accessory compatibility is implied.

Offered-unit verification

Compare the complete label, connectors, mounting arrangement and applicable hardware/software revision. Confirm included components and accompanying documents in the quotation.

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