

Industrial & Inverter RJ45 Plugs

24mm RJ45 8P8C Male-Male Connector for ABB ACS510 ACS550 Control Panel (Port Butt)



Key specifications

Function	Double-ended male plug; docks control panel jack to drive jack
Interface	RJ45 / 8P8C male to RJ45 / 8P8C male, pin-to-pin
Body length	24 mm (24.1 mm class; matches ABB 3AUA0000024884 pocket)
Housing	Transparent polycarbonate (crystal)

Product summary

- 24 mm male-to-male RJ45 8P8C port-butts plug for ABB ACS510 and ACS550 drives
- Docks the ACS-CP control panel directly to the drive jack — no patch cable in between
- Fit-compatible with ABB OEM coupler 3AUA0000024884 (24.1 mm class)
- Also used on ACS310, ACS355, ACS350 and ACH550 panels with the same RJ45 pocket
- Transparent polycarbonate body for pin alignment and latch inspection
- Gold-selective 8P8C contacts, pin-to-pin through connection
- Signal-duty rating 1.5 A / 125 VAC for keypad and panel serial links
- OEM and MRO pack for drive builders, HVAC OEMs, and service vans

Product page:

<https://www.cnplugs.com/product/abb-ac510-ac550-rj45-male-male-24mm-port-butts-connector/>

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Product details

24 mm RJ45 Male-Male Port-Butt Plug for ABB ACS510 and ACS550 Drives

It is not a crimp-on Ethernet RJ45 plug and it is not a 26 mm or 33 mm cable plug. Both ends are male 8P8C. One end enters the keypad, the other enters the drive, and the 24 mm body sets the stack height so the assistant panel sits flush on ACS510 and ACS550 frames.

That OEM coupler is specified as a male/male RJ45, 24.1 mm long, for connecting a control panel to ACS310, ACS355, and ACS550 drives. This 24 mm transparent plug is built for the same pocket. Always confirm latch travel on your panel revision before a production change. For remote door mounting instead of on-drive docking, use a ACS-CP extension cable and a panel-mount RJ45 coupler rather than this port-butt.

What “Port Butt” Means on an ACS Drive

Port butt is the factory term for a double-ended male plug that joins two jacks face to face. There is no cable, no IDC, and no load bar. Eight gold-selective contacts run straight through the 24 mm housing. When the ACS-CP panel is pressed onto the drive, both latches click and the panel is powered from the drive. Pull the panel and the same plug stays with the keypad or the drive, depending on which latch you release first.

Length is the specification that fails first if you substitute a generic adapter. A 22 mm office gender changer leaves a gap. A 26 mm RJ45 cable-end crimp plug can bottom out on the ACS bezel and stress the jack solder joints. This plug is tooled to that 24 mm class so the panel sits flat on ACS510 and ACS550, and on ACS310 / ACS355 / ACS350 / ACH550 units that share the same control-panel interface. If you need a longer stack for a custom door pocket, see our 42 mm male-male inverter adapter. If you are terminating a keypad cable instead of docking a panel, use the [26 mm VFD cable plug](#).

Materials and electrical class

The body is transparent polycarbonate so a technician can see that all eight blades are present and that neither latch is cracked before the panel goes back on a live drive. Contacts are 0.30 mm brass with selective gold over nickel. The through path is pin 1 to pin 1. Typical ratings for this family: 1.5 A at 25 °C, 125 VAC signal class, contact resistance ≤ 40 m Ω , insulation $\geq 1,000$ M Ω at 500 VDC (EIA-364-21C), dielectric 1,000 VAC RMS or 1,500 VDC for one minute (EIA-364-20B), retention ≥ 57.8 N (EIA-364-23B), durability $\geq 1,000$ mating cycles (EIA-364-98). Operating range -20 °C to $+70$ °C matches enclosed ACS cabinets in pump rooms and air handlers.

This is a communication and keypad link only. It does not carry motor current. Route motor leads away from the panel pocket and keep the drive cover in place so the plug is not used as a handle.

Where buyers use this 24 mm coupler

Typical jobs: restoring an ACS550 that arrived without the panel coupler; kitting ACS510 HVAC packages so every drive ships with a spare dock; field replacement when a latch breaks on a rooftop unit; OEM assembly of private-label cabinets that use ACS355 or ACS550 as the motor controller; spare-parts bags for service contractors who carry ACS-CP-A panels. The same 8P8C butt plug is also used when a test bench needs a quick panel swap without building a CAT5 jumper.

Need the rest of the operator kit? Add an ACS-CP control panel, a VFD RJ45 communication cable, or a VFD

inverter accessory pack on the same PO.

How MRO and OEM Buyers Specify This Part

Write the PO as: RJ45 8P8C male-male port-butt, L=24 mm, transparent, for ACS510/ACS550 control panel, compatible with 3AUA0000024884. HVAC OEMs usually buy a spare coupler in every drive carton. Service contractors buy loose pieces for the van. Panel shops that remote-mount the keypad should not use this part; they need the 3 m CAT5 kit, not a 24 mm butt plug.

Incoming check

Measure overall length (24 mm class). Confirm both ends are male 8P8C with working latches. Confirm eight blades are visible through the crystal body and that a panel seats flush on an ACS550 or ACS355 sample. Continuity should read pin 1-1 through pin 8-8. Reject any lot with short or long bodies mixed in from 22 mm or 26 mm stock.

Technical specifications

Specification	Published value
Function	Double-ended male plug; docks control panel jack to drive jack
Interface	RJ45 / 8P8C male to RJ45 / 8P8C male, pin-to-pin
Body length	24 mm (24.1 mm class; matches ABB 3AUA0000024884 pocket)
Housing	Transparent polycarbonate (crystal)
Contact material	Brass, 0.30 mm, selective gold over nickel
Termination	None — solid through adapter, not a crimp plug
Drive fit (typical)	ACS510, ACS550; also ACS310, ACS350, ACS355, ACH550 with ACS-CP panels
Panel fit (typical)	ACS-CP-A, ACS-CP-C, ACS-CP-D and related assistant / basic panels
OEM reference (for fit only)	Compatible with ABB 3AUA0000024884 male/male 24.1 mm coupler
Current / voltage	1.5 A at 25 °C / 125 VAC (signal / keypad duty)
Contact resistance	≤ 40 mΩ
Insulation resistance	≥ 1,000 MΩ at 500 VDC (EIA-364-21C)
Dielectric withstanding	1,000 VAC RMS or 1,500 VDC, 1 min (EIA-364-20B)
Retention strength	≥ 57.8 N (EIA-364-23B)
Mating cycles	≥ 1,000 (EIA-364-98)
Operating temperature	−20 °C to +70 °C
Storage / humidity	−10 °C to +40 °C; RH < 80%
Compliance	RoHS; REACH on request
Brand note	Third-party compatible part. Not an ABB genuine spare unless stated on the invoice.