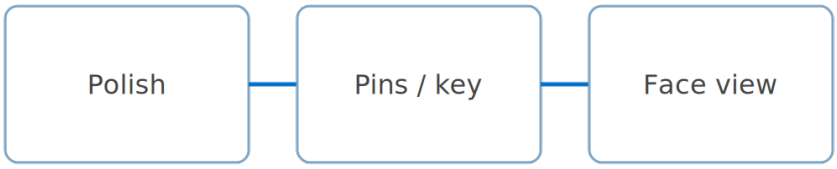
Polish, pins, keys, and viewing direction.

Describe the mating interface completely.

Editorial revision 2026-11-01. Planning guidance; not a released model specification, warranty, compatibility certification or installation approval.



Keep the complete connection in view

Name more than the shell

Record connector type, fiber population, polish, pinned/unpinned condition and key orientation for each end. Use the released drawing to resolve the exact mating requirements; color alone is insufficient.

Check the mating pair

For MPO, the pinned and unpinned sides must be complementary. Verify the polish and keying arrangement for the actual components. Do not assume that a connector appropriate to one multimode application suits every other multimode interface.

Declare the viewing direction

A connector-face view and a cable-entry view reverse what appears left and right. Label the view and position numbering on the drawing before discussing polarity. Keep physical orientation and the strand map as separate, explicit properties.

In practice / Worked example

Build the mating record first.

Suppose an equipment drawing specifies a pinned MPO-12/APC receptacle. Record its actual mating requirements rather than reducing the interface to “MPO.”

Check	Illustrative record
Equipment interface	MPO-12/APC · pinned
Cable mating end	Matching MPO-12/APC · unpinned
Populated positions	Copy from the equipment drawing
Key / position 1	Use the drawing’s stated viewing convention
Inspection adapter	Suitable for the MPO format and APC polish

Complementary pins and matching polish do not establish the strand map. Do not infer fiber population, key orientation or polarity from the shell designation. The inspection adapter must provide a suitable view of the complete end face.

Source: Fluke Networks · MPO connector testing guide ↗ 18 November 2025 · hypothetical equipment input; selected interface drawing governs

Before you specify

• Connector and polish at A/Z

• Complementary pins and correct keying

• Declared face view and position numbering

Sources & scope

General engineering guidance. External examples describe their own products and do not establish WBN availability or qualification.

• MPO connectors in data centers ↗ Fluke Networks · Online reference · accessed 1 Nov 2026 — https://www.flukenetworks.com/blog/cabling-chronicles/mpo-connectors-data-center-testing-guide