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Fiber Connector Reference Guide

A concise public reference for connector recognition, safe handling, inspection, cleaning, and test traceability.

QUICK REFERENCE

Recognize common connector families

Connector type, polish, fiber type, adapter, and transceiver requirements must be compatible. Confirm the approved design and manufacturer documentation before making a connection.

[] LC: compact duplex or simplex connector used in many network interfaces	[] SC: push-pull connector commonly used in patching and distribution
[] MPO/MTP: multi-fiber connector requiring polarity and cleanliness control	[] UPC: physical-contact polish commonly identified by blue components
[] APC: angled polish commonly identified by green components	[] Single-mode and multimode components must match the approved link design

HANDLING

Protect the optical interface

[] Keep protective caps clean and fitted when disconnected	[] Never touch the connector end face
[] Protect bend radius and avoid side loading	[] Do not look into a fiber or optical port

Color conventions are useful indicators, not proof. Verify labels, part information, and the approved design before connecting components.

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Inspect, Clean, Inspect, and Connect

Cleanliness is a process. A connector that looks clean externally may still have end-face contamination.

FIELD SEQUENCE

Use a repeatable connection process

☐ Confirm the correct link and connector identity	☐ Verify the optical source is controlled for safe work
☐ Inspect the end face with approved equipment	☐ Clean using the approved tool and method when needed
☐ Inspect again after cleaning	☐ Connect without touching or exposing the end face
☐ Record exceptions and repeated contamination	☐ Fit clean caps when leaving a connector disconnected

TESTING REMINDER

Keep results traceable

☐ Use the approved test method and reference setup	☐ Record direction, wavelength, and test configuration
☐ Associate every result with a unique link identifier	☐ Review events and limits before accepting a result
☐ Retest after corrective work	☐ Store final evidence in the controlled handover record

This quick reference supports field preparation only. Follow project requirements, equipment instructions, laser-safety controls, and applicable standards.