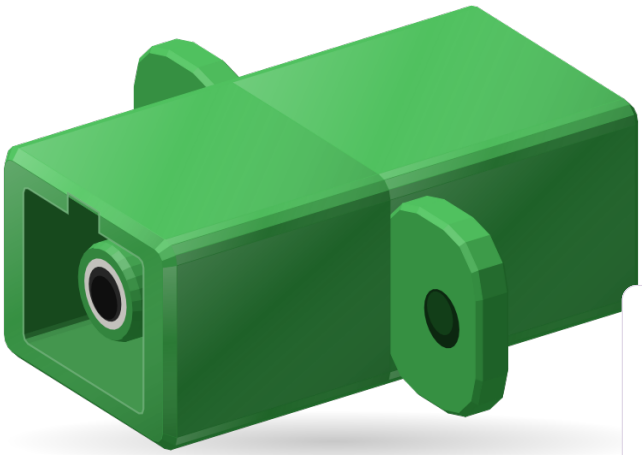
FIBER CONNECTIVITY

Fiber Optic Adapters (Couplers)

LC · SC · ST · MTP/MPO · SINGLE-MODE & MULTIMODE

FAMILY **F53 • 11 PART NUMBERS**

SHOWN: CX-FA-SC-SX-OS2-GN-APC





Production sample — CORNIX order 2026

≤ 0.3 dB	≥ 60 dB	Green	SC simplex
INSERTION LOSS	RETURN LOSS	HOUSING COLOR	CONNECTOR INTERFACE

OVERVIEW

Panel-mount fiber adapters (couplers) developed to join two connectorized fibers in patch panels, enclosures, ODFs and wall boxes. Color-coded housings identify single-mode UPC, APC and multimode interfaces; hybrid versions convert between UPC and APC end faces.

- Zirconia alignment sleeves for precise mating
- Color-coded housings: SM blue, APC green, MM aqua / beige
- Simplex, duplex and MTP/MPO formats
- Snap-in panel mounting
- Hybrid UPC ↔ APC conversion versions

APPLICATIONS

- Patch panels, ODFs and enclosures
- FTTH termination boxes
- UPC/APC conversion (hybrid versions)

STANDARDS & COMPLIANCE

TIA-568.3-D · RoHS

Common Specifications

Values shared by all 11 part numbers in this family · variant-specific values on the following page

Ordering Information

11 part numbers · individual datasheets available for every part number

Part number	Description	Interface	Mode	Color	Type
LC / SC / ST adapters					
CX-FA-LC-DX-OM3-AQ	LC Duplex Adapter, Multimode, Aqua	LC duplex	Multimode	Aqua	—
CX-FA-LC-DX-OS2-BL	LC Duplex Adapter, Single-mode, Blue	LC duplex	Single-mode	Blue	—
CX-FA-LC-DX-OS2-GN-APC	LC Duplex Adapter, Single-mode/APC, Green	LC duplex	Single-mode APC	Green	—
CX-FA-SC-SX-OM3-BG	SC Simplex Adapter, Multimode, Beige	SC simplex	Multimode	Beige	—
CX-FA-SC-SX-OS2-BL	SC Simplex Adapter, Single-mode, Blue	SC simplex	Single-mode	Blue	—
CX-FA-SC-SX-OS2-GN-APC	SC Simplex Adapter, Single-mode/APC, Green	SC simplex	Single-mode APC	Green	—
CX-FA-ST-SX-OM3-BG	ST Simplex Adapter, Multimode, Beige	ST simplex	Multimode	Beige	—
MTP/MPO adapters					
CX-FA-MTP-OM3-KU	MTP/MPO Adapter, Key-Up to Key-Down, OM3	—	—	—	MTP/MPO
CX-FA-MTP-OS2-KU	MTP/MPO Adapter, Key-Up to Key-Down, OS2	—	—	—	MTP/MPO
SC hybrid adapters (UPC ↔ APC)					
CX-FA-SC-SX-OS2-HYB-AU	SC Hybrid Adapter (female-to-male), APC to UPC, Single-Mode	—	—	—	SC female-to-SC male hybrid
CX-FA-SC-SX-OS2-HYB-UA	SC Hybrid Adapter (female-to-male), UPC to APC, Single-Mode	—	—	—	SC female-to-SC male hybrid

Variant-Specific Specifications

Values that differ between part numbers

Part number	Alignment sleeve	Durability (500 matings)	Operating temperature
CX-FA-LC-DX-OM3-AQ	Zirconia	≤ 0.2 dB increase	-20 °C to +60 °C
CX-FA-LC-DX-OS2-BL	Zirconia	≤ 0.2 dB increase	-20 °C to +60 °C
CX-FA-LC-DX-OS2-GN-APC	Zirconia	≤ 0.2 dB increase	-20 °C to +60 °C
CX-FA-SC-SX-OM3-BG	Zirconia	≤ 0.2 dB increase	-20 °C to +60 °C
CX-FA-SC-SX-OS2-BL	Zirconia	≤ 0.2 dB increase	-20 °C to +60 °C
CX-FA-SC-SX-OS2-GN-APC	Zirconia	≤ 0.2 dB increase	-20 °C to +60 °C
CX-FA-ST-SX-OM3-BG	Zirconia	≤ 0.2 dB increase	-20 °C to +60 °C
CX-FA-MTP-OM3-KU	Zirconia	≤ 0.2 dB increase	-20 °C to +60 °C
CX-FA-MTP-OS2-KU	Zirconia	≤ 0.2 dB increase	-20 °C to +60 °C
CX-FA-SC-SX-OS2-HYB-AU	—	0.2 dB max.	—
CX-FA-SC-SX-OS2-HYB-UA	—	0.2 dB max.	—

Part number	Standards	Housing color	Insertion loss
CX-FA-LC-DX-OM3-AQ	TIA-568.3-D · RoHS	Aqua	≤ 0.3 dB
CX-FA-LC-DX-OS2-BL	TIA-568.3-D · RoHS	Blue	≤ 0.3 dB
CX-FA-LC-DX-OS2-GN-APC	TIA-568.3-D · RoHS	Green	≤ 0.3 dB
CX-FA-SC-SX-OM3-BG	TIA-568.3-D · RoHS	Beige	≤ 0.3 dB
CX-FA-SC-SX-OS2-BL	TIA-568.3-D · RoHS	Blue	≤ 0.3 dB
CX-FA-SC-SX-OS2-GN-APC	TIA-568.3-D · RoHS	Green	≤ 0.3 dB

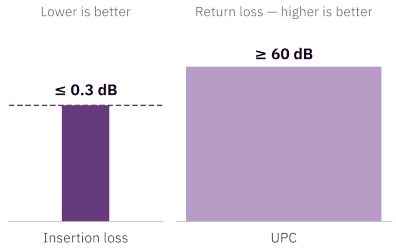
Part number	Standards	Housing color	Insertion loss
CX-FA-ST-SX-OM3-BG	TIA-568.3-D · RoHS	Beige	≤ 0.3 dB
CX-FA-MTP-OM3-KU	TIA-568.3-D · RoHS	Black	—
CX-FA-MTP-OS2-KU	TIA-568.3-D · RoHS	Black	—
CX-FA-SC-SX-OS2-HYB-AU	—	—	≤ 0.5 dB
CX-FA-SC-SX-OS2-HYB-UA	—	—	≤ 0.5 dB

Part number	Return loss	Operating / storage temperature	Body length
CX-FA-LC-DX-OM3-AQ	—	—	—
CX-FA-LC-DX-OS2-BL	—	—	—
CX-FA-LC-DX-OS2-GN-APC	≥ 60 dB	—	—
CX-FA-SC-SX-OM3-BG	—	—	—
CX-FA-SC-SX-OS2-BL	—	—	—
CX-FA-SC-SX-OS2-GN-APC	≥ 60 dB	—	—
CX-FA-ST-SX-OM3-BG	—	—	—
CX-FA-MTP-OM3-KU	—	—	—
CX-FA-MTP-OS2-KU	—	—	—
CX-FA-SC-SX-OS2-HYB-AU	—	-20 °C to +75 °C	31.7 ± 0.1 mm
CX-FA-SC-SX-OS2-HYB-UA	—	-20 °C to +75 °C	31.7 ± 0.1 mm

Performance

Shown for CX-FA-SC-SX-OS2-GN-APC

OPTICAL PERFORMANCE



TEMPERATURE RANGE



FINAL QUALITY INSPECTION

QUALITY INSPECTED

Inspection item	Requirement
Insertion loss	≤ 0.3 dB
Dimensions & fit	Per drawing
Surface finish & color	No defects
Adapters / accessories	Complete per packing list
Labeling & packing	Per CORNIX label system

Every unit passes final visual, dimensional and accessory inspection before packing.

Request a quote or technical support

Datasheets, test reports and samples available on request

rfq@cornixglobal.com
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cornixglobal.com

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