CORNIX

PRODUCT FAMILY DATASHEET

CNX-DS-F65-000 · REV 1.0 · 06 OCTOBER 2026

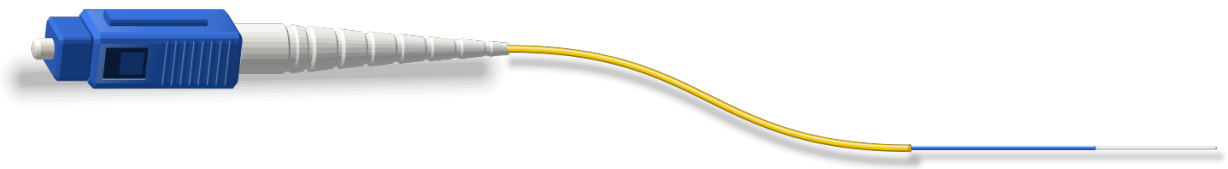
FIBER CONNECTIVITY

Single-Mode Fiber Pigtail (G.657.A1)

BEND-INSENSITIVE · ITU-T G.657.A1 · SIMPLEX & 12-FIBER SETS

FAMILY **F65 • 8 PART NUMBERS**

SHOWN: CX-FPT-OS2B-SC-1.5M-09



< 0.2 dB	≥ 50 dB	1.5 m	SC/UPC
INSERTION LOSS	RETURN LOSS	LENGTH	CONNECTOR

OVERVIEW

Single-ended pigtails on bend-insensitive G.657.A1 fiber, developed for fusion-splice termination in FTTH distribution boxes, splice closures, ODFs and patch panels. Offered as simplex pigtails and 12-fiber color-coded sets.

- Bend-insensitive ITU-T G.657.A1 fiber
- Insertion loss ≤ 0.2 dB, 100% tested
- 3.0 mm LSZH simplex, 0.9 mm and 12-fiber set options
- Zirconia ceramic ferrules
- Ideal for FTTH boxes, ODFs and patch panels

APPLICATIONS

- FTTH distribution and termination boxes
- Splice closures and ODFs
- Loaded patch-panel termination

STANDARDS & COMPLIANCE

RoHS compliant

Common Specifications

Values shared by all 8 part numbers in this family · variant-specific values on the following page

CONSTRUCTION

Ferrule	**Zirconia ceramic**

OPTICAL CHARACTERISTICS

Fiber type	**Single-mode, ITU-T G.657.A1 (bend-insensitive)**

Ordering Information

8 part numbers · individual datasheets available for every part number

Part number	Description	Connector	Length	Buffer	Fiber
0.9 mm pigtail					
CX-FPT-OS2B-SC-1.5M-09	Single-Mode G.657.A1 Pigtail, SC/UPC, 0.9 mm, 1.5 m	SC/UPC	1.5 m	0.9 mm tight buffer	G. 657.A1
12-fiber pigtail sets					
CX-FPT-OS2B-SC-12F-1.5M	Single-Mode G.657.A1 12-Fiber Color-Coded Pigtail Set, SC/UPC, 1.5 m	SC/UPC × 12	1.5 m	—	G. 657.A1
CX-FPT-OS2B-SC-12F-01M	Single-Mode G.657.A1 12-Fiber Color-Coded Pigtail Set, SC/UPC, 1 m	SC/UPC × 12	1 m	—	G. 657.A1
Simplex pigtails, 3.0 mm					
CX-FPT-OS2B-LC-1M	Single-Mode G.657.A1 Pigtail, LC/UPC, 1 m	LC/UPC	1 m	—	G. 657.A1
CX-FPT-OS2B-LC-1M-APC	Single-Mode G.657.A1 Pigtail, LC/APC, 1 m	LC/APC	1 m	—	G. 657.A1
CX-FPT-OS2B-SC-1.5M	Single-Mode G.657.A1 Pigtail, SC/UPC, 0.9 mm, 1.5 m	SC/UPC	1.5 m	0.9 mm	G. 657.A1
CX-FPT-OS2B-SC-1.5M-APC	Single-Mode G.657.A1 Pigtail, SC/APC, 1.5 m	SC/APC	1.5 m	—	G. 657.A1
CX-FPT-OS2B-SC-1M-APC	Single-Mode G.657.A1 Pigtail, SC/APC, 1 m	SC/APC	1 m	—	G. 657.A1

Variant-Specific Specifications

Values that differ between part numbers

Part number	Buffer	Insertion loss	Return loss
CX-FPT-OS2B-SC-1.5M-09	0.9 mm tight buffer, LSZH	< 0.2 dB	≥ 50 dB
CX-FPT-OS2B-SC-12F-1.5M	0.9 mm tight buffer	≤ 0.3 dB	≥ 50 dB
CX-FPT-OS2B-SC-12F-01M	0.9 mm tight buffer	≤ 0.3 dB	≥ 50 dB
CX-FPT-OS2B-LC-1M	—	≤ 0.2 dB	≥ 50 dB
CX-FPT-OS2B-LC-1M-APC	—	≤ 0.2 dB	≥ 60 dB
CX-FPT-OS2B-SC-1.5M	0.9 mm tight buffer, LSZH	< 0.2 dB	≥ 50 dB
CX-FPT-OS2B-SC-1.5M-APC	—	≤ 0.2 dB	≥ 60 dB
CX-FPT-OS2B-SC-1M-APC	—	≤ 0.2 dB	≥ 60 dB

Part number	Repeatability (1000 matings)	Operating temperature	Jacket
CX-FPT-OS2B-SC-1.5M-09	< 0.1 dB	-20 °C to +60 °C	—
CX-FPT-OS2B-SC-12F-1.5M	< 0.1 dB	—	LSZH
CX-FPT-OS2B-SC-12F-01M	< 0.1 dB	—	LSZH
CX-FPT-OS2B-LC-1M	—	-20 °C to +70 °C	—
CX-FPT-OS2B-LC-1M-APC	—	-20 °C to +70 °C	—
CX-FPT-OS2B-SC-1.5M	—	—	—
CX-FPT-OS2B-SC-1.5M-APC	—	-20 °C to +70 °C	—
CX-FPT-OS2B-SC-1M-APC	—	-20 °C to +70 °C	—

Part number	Jacket color	Cable	Tight buffer
CX-FPT-OS2B-SC-1.5M-09	—	—	—
CX-FPT-OS2B-SC-12F-1.5M	Yellow	—	—

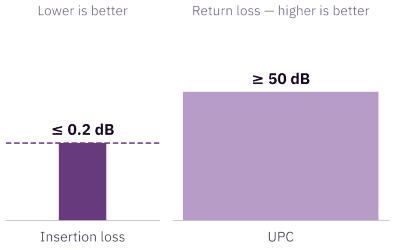
Part number	Jacket color	Cable	Tight buffer
CX-FPT-OS2B-SC-12F-01M	Yellow	—	—
CX-FPT-OS2B-LC-1M	Yellow	Simplex, LSZH, yellow, Ø 3.0 ± 0.1 mm	PVC, 0.85 ± 0.05 mm
CX-FPT-OS2B-LC-1M-APC	Yellow	Simplex, LSZH, yellow, Ø 3.0 ± 0.1 mm	PVC, 0.85 ± 0.05 mm
CX-FPT-OS2B-SC-1.5M	Yellow	—	—
CX-FPT-OS2B-SC-1.5M-APC	Yellow	Simplex, LSZH, yellow, Ø 3.0 ± 0.1 mm	PVC, 0.85 ± 0.05 mm
CX-FPT-OS2B-SC-1M-APC	Yellow	Simplex, LSZH, yellow, Ø 3.0 ± 0.1 mm	PVC, 0.85 ± 0.05 mm

Part number	Repeatability / durability	Cord tensile strength	Min. bend radius — static / dynamic
CX-FPT-OS2B-SC-1.5M-09	—	—	—
CX-FPT-OS2B-SC-12F-1.5M	—	—	—
CX-FPT-OS2B-SC-12F-01M	—	—	—
CX-FPT-OS2B-LC-1M	≤ 0.1 dB / ≤ 0.2 dB	> 60 N	30 mm / 60 mm
CX-FPT-OS2B-LC-1M-APC	≤ 0.1 dB / ≤ 0.2 dB	> 60 N	30 mm / 60 mm
CX-FPT-OS2B-SC-1.5M	—	—	—
CX-FPT-OS2B-SC-1.5M-APC	≤ 0.1 dB / ≤ 0.2 dB	> 60 N	30 mm / 60 mm
CX-FPT-OS2B-SC-1M-APC	≤ 0.1 dB / ≤ 0.2 dB	> 60 N	30 mm / 60 mm

Performance

Shown for CX-FPT-OS2B-SC-1.5M-09

OPTICAL PERFORMANCE



TEMPERATURE RANGE



INDIVIDUAL TEST REPORT — EVERY ASSEMBLY

100% IL / RL TESTED

Test item	Requirement	Method	Recorded on
Insertion loss	< 0.2 dB	IEC 61300-3-4	A1, A2
Return loss	≥ 50 dB	IEC 61300-3-6	A1, A2
End-face geometry & cleanliness	Pass	Interferometer / microscope	Each connector

Measured insertion and return loss values are printed on each unit's label and test sheet.

Request a quote or technical support

Datasheets, test reports and samples available on request

rfq@cornixglobal.com
sales@cornixglobal.com
cornixglobal.com

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