

NETWORK SUPPLY / OEM & PRIVATE LABEL

Fiber & Access

Product guide

Connect the access network to the customer. Explore terminals, drop cables, connectors and fiber management for recurring installations and OEM supply programs.



Multiport access terminals



Factory-terminated connections

Inside this guide

2–5 Terminals, drop cables and connections

06 Fiber management

07 PLC splitters

08 CWDM wavelength management

09 Application examples and selection

For operators, deployment partners and OEM supply programs.

Explore the full Fiber & FTTH Technical Catalog

Open the complete catalog for patch cords, pigtails, adapters, connectors, distribution and wavelength-management options.

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01 / ACCESS DISTRIBUTION

Access terminals and splicing

Choose the connection format, splitting arrangement and cable entries around the installation.

CX-MST-17/18

Multiport Fiber Access Terminal

External hardened connections with optional PLC splitting for FTTH distribution.

17- or 18-port configurations; input/output assignment by configuration.

1×8 or 1×16 mini PLC options; reinforced PC+ABS housing.

330 × 190 × 108 mm; wall, pole or aerial mounting.

IP68 with correct assembly and cable seals.

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CX-FATC-003

Fiber Access Terminal Closure

Bring feeder-to-drop splicing and fiber routing into one enclosure.

Up to 96 splices across four 24-splice trays; 24 drop ports.

380 × 245 × 155 mm; UV-stabilized polycarbonate.

IP68 with correct assembly and sealing; select cable seals and mounting.

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CX-SAT Series

Splitter Access Terminal

Compact optical splitter assembly with hardened preterminated input and output leads.

145 × 105 × 50 mm closure; G.657.A1 single-mode fiber.

Standard input lead 0.3 m; output leads 0.5 m.

Select split ratio and interface; IP68 when correctly mated and sealed.

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Port counts, splitter arrangements, cable seals and mating interfaces are configuration-specific.

02 / SERVICE DROPS

Drop cable choices

Match the cable construction to the route and how the connection will be installed.

CPX-PMDC Series

Peelable MicroDrop Cable



Run one service cable from the outside-plant demarcation point to the customer ONT or fiber jack.

Indoor/outdoor dielectric construction; G.657.B3 fiber.

2.0 × 3.0 mm nominal profile; FRP strength members.

S option: pre-peeled end, pull sock and a clear 900 µm subunit.

Common SC/APC-to-SC/APC lengths: 10, 50, 100 and 200 ft.

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CX-DROP-2X3

Dielectric FTTH Drop Cable



Field-cut outdoor cable for the length required at each installation.

1 × G.657.A2 fiber; 2.0 × 3.0 mm nominal profile.

Dual parallel FRP members; UV-stabilized black HDPE jacket.

Standard reel length: 2,000 m.

Choose the end connection and installation method for the network.

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Choose by installation method

Application	Selection focus
Continuous indoor/outdoor service run	CPX-PMDC: preterminated configuration, peel option and ordered length.
Field-cut outdoor drop	CX-DROP-2X3: route length, cable support and field or factory termination.

The two cable families have different fiber, jacket and installation specifications. Select the construction for the route.

03 / PRETERMINATED CONNECTIONS

Hardened cable assemblies

Select both end interfaces, cable construction and length together.

CX-OPT-SA-SA

Hardened SC/APC Patch Cord



Connect a hardened fiber interface to a standard SC/APC port.

1 × G.657.A2 fiber; 3.0 mm round LSZH cable with aramid yarn.

Connector insertion loss ≤ 0.3 dB; return loss ≥ 60 dB.

Specify length and mating equipment; protect the standard SC/APC end.

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CX-OPT-SCAPC-PC

Hardened FTTH Drop Cable Assembly



Factory-terminated round drop assembly with metallic reinforcement.

1 × G.657.A2 fiber; 5.0 $\pm$ 0.2 mm outside diameter.

Black LSZH jacket; aramid yarn and stainless-steel mesh.

Specify both end interfaces, route and installation requirements.

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CX-OPT-SCAPC-PT

Hardened Fiber Drop Pigtail



Flat figure-8 construction with a hardened SC/APC interface.

1 × G.657.A2 fiber; (2.0 $\pm$ 0.1) × (5.1 $\pm$ 0.1) mm profile.

Black LSZH jacket; FRP elements and galvanized-steel messenger.

Specify connector interface, length and opposite-end preparation.

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Match the hardened mating interface explicitly. Cable tensile ratings do not establish allowable pulling force through a connector.

04 / FIELD CONNECTIONS

Field termination

Choose mechanical assembly or fusion splicing to suit the installation method and available tools.



CPX-LX11-B

SC Field-Assembly Connector

Mechanical fiber alignment with a factory pre-polished ceramic ferrule.

SC/APC or SC/UPC; connector length 50 mm.

For 2.0 × 3.0 mm or 2.0 × 5.0 mm FTTH drop cable.

Insertion loss: average ≤0.3 dB; maximum ≤0.5 dB.

Return loss: APC ≥50 dB; UPC ≥45 dB.

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CX-SC-G58-ANT

SC Field-Assembly Connector

A mechanical field connection with flat and round cable options.

SC/APC or SC/UPC; connector length 58 mm.

0.9 mm buffered fiber; 2.0 / 3.0 mm round or 2.0 × 3.0 mm flat cable.

Insertion loss: average ≤0.3 dB; maximum ≤0.5 dB.

Return loss: APC ≥55 dB; UPC ≥50 dB.

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CX-SC-FST

SC Splice-On Connector

House the fusion splice inside the rear of the connector.

SC/APC or SC/UPC; 0.9 mm buffered-fiber configuration.

55.4 ±1 mm with dust cap; one splice-protection sleeve included.

Insertion loss ≤0.3 dB; APC return loss ≥55 dB, UPC ≥50 dB.

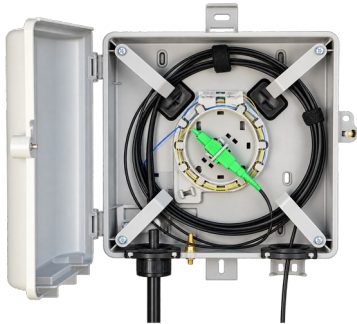
Verify the holder, splicer setup and fiber preparation.

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05 / FIBER MANAGEMENT

Fiber management and selection

Keep termination, slack storage and patching organized around the installation.



CX-31 Series

Fiber Interface & Slack Storage Enclosure

Combine fiber termination, splice protection and cable slack storage.

SC/APC, SC/UPC, LC/APC or LC/UPC adapter interfaces.

1, 2, 4, 6 or 12 ports; up to 24 with LC adapters.

Up to 50 ft (15.2 m) slack storage, depending on cable configuration.

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12F / 24F configurations

MPO-LC Fiber Optic Cassette

Preloaded MPO-LC fan-out for high-density fiber patching.

OS2 single-mode; Method A polarity.

12F: six duplex LC/UPC ports. 24F: twelve duplex LC/UPC ports.

Blue LC/UPC front interfaces; tool-less removable top cover.

Confirm cassette dimensions, rear interface and panel fit before selection.

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Plan the configuration

Send the device or panel interface, fiber count, cable route, required lengths and expected quantities. We can review established configurations, private-label identification and packaging for your program.

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Representative configurations are shown. Product-specific drawings and the agreed specification control the ordered configuration.

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PASSIVE OPTICAL DISTRIBUTION

PLC optical splitters

Select the split ratio, performance grade and package around the optical budget.



Module, connectorized or housed

Choose fiber type, pigtail length, connector polish, port labeling and footprint as one configuration.

1×N format	Grade P max. IL	Grade S max. IL	Max. uniformity
1×2	3.6 dB	4.3 dB	0.5 dB
1×4	7.0 dB	7.4 dB	0.8 dB
1×8	10.3 dB	10.7 dB	0.8 dB
1×16	13.6 dB	13.9 dB	1.4 dB
1×32	16.6 dB	17.2 dB	1.5 dB
1×64	20.1 dB	21.5 dB	2.0 dB

IL = insertion loss. Module values exclude connector loss. Specify the performance grade in the ordered configuration.

Common optical parameter	Listed configurations
Operating wavelength	1260-1650 nm
Return loss / directivity	≥55 dB / ≥55 dB
Operating / storage temperature	-40 to +85 °C

Separate capacity from optical budget

More outputs mean more splitting loss. Include connectors, splices, fiber and design reserve. Module values do not replace the finished terminal's end-to-end loss specification. Additional split ratios and 2×N configurations can be reviewed.

07 / WAVELENGTH MANAGEMENT

CWDM for existing fiber routes

Combine and separate optical wavelength channels to make more use of an existing fiber path. Select the end-to-end wavelength plan with the optical equipment.

CX-CWDM-8SF

CWDM MUX/DEMUX



Passive thin-film-filter module with eight wavelength channels and a 1310 nm expansion port.

Listed wavelength set: 1470–1610 nm; 20 nm spacing.

SC/APC interface; LGX cassette or compact ABS module.

Paired Side A / Side B configurations for a single-fiber route.

Insertion loss ≤ 2.4 dB; expansion-port insertion loss ≤ 2.4 dB.

Optical parameter	Published module value
Channel passband	± 6.5 nm
Adjacent / non-adjacent isolation	≥ 30 dB / ≥ 45 dB
Return loss / directivity	≥ 45 dB / ≥ 45 dB
Polarization-dependent loss	≤ 0.3 dB
Operating temperature	-20 to $+85$ °C

Specify the complete pair

Configuration	Order references
LGX cassette	CX-CWDM-8SF-LGX-A / CX-CWDM-8SF-LGX-B
ABS module	CX-CWDM-8SF-ABS-A / CX-CWDM-8SF-ABS-B

Agree the transmit and receive wavelength at each end, expansion-port use, connector interface and total loss budget. The eight-wavelength count describes the module; the service count depends on the paired channel plan.

Wavelength labels are retained as specified for this product. Confirm exact filter and transceiver center wavelengths; no universal transceiver compatibility or transmission distance is implied.

08 / BUILD THE INSTALLATION

From access point to customer

Use the product families together where their dimensions and interfaces match. These examples illustrate a selection process; each installation retains its own agreed configuration.

Illustrative application	Candidate families	Key selection
Preterminated service drop	CX-MST-17/18 or CX-SAT; matching hardened assembly	Port interface, split ratio, ordered lead lengths and mounting.
Field-spliced drop	CX-FATC-003; CX-DROP-2X3; CX-SC-FST	Entry seals, splice capacity, cable profile and splicer setup.
Managed customer handoff	CPX-PMDC; CX-31	Peel option, route, connector polish and actual slack volume.
Rack or panel patching	MPO-LC cassette; patch cords and adapters	Fiber count, polarity, connector gender/keying and panel dimensions.

A simple optical-budget example

Illustrative allowance	Loss / reserve
1×8 PLC module, Grade P maximum	10.3 dB
Assumed combined fiber, splice and connector loss	2.0 dB
Assumed design reserve	3.0 dB
Required example budget	15.3 dB

Calculation: $10.3 + 2.0 + 3.0 = 15.3$ dB. The 2.0 dB route allowance and 3.0 dB reserve are illustrative assumptions, not measured results or a guaranteed network design.

More depth for a defined program

Patch panels, splice trays, termination boxes, cabinets, adapters and additional cable constructions can be considered where they support the deployment. Start with the required capacity, footprint, interface and environment, then select the configuration.

Bring the route, interface and quantity

Send the drawing or reference equipment, cable lengths, fiber counts, loss budget and rollout schedule. We can align the product, labeling and packing with the installation program.

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