

HCA-XL1C



Fiber Optic Drop Cable Assembly, PRODIGY™ Connector core with DLX Converter installed to SC/APC connector, USD Dielectric Cable

- Cable assembly with the Prodigy™ small form hardened connector
- Compact and small footprint, space-saving design for high-density environments
- Compatible with multiple hardened connectors
- *Product complies with the Build America, Buy America Act (BABAA) requirements of the Infrastructure Investment and Jobs Act of 2021 (Pub. L. 117- 58, §§ 70901-70953), or is the subject of a waiver approved by the Secretary of Commerce or designee. Compliance requirements and waiver applicability vary based on government funding program. Check the laws and regulations for your specific program.

Product Classification

Regional Availability	Latin America North America
Product Type	Fiber drop cable assembly
Product Brand	PRODIGY™
Product Series	HCA
Government Requirements	Build America Buy America (BABA) compliant*

General Specifications

Cable Type	Dielectric - Universal Flat
Connector A, quantity	1
Color, boot A	Black
Color, connector A	Black
Interface, Connector A	Prodigy® with DLX size converter installed
Interface, Connector B	SC/APC
Jacket Color	Black
Location of Manufacturing	Catawba, North Carolina
Total Fibers, quantity	1

Dimensions

Cable Assembly Length Range (ft)	1 – 2000
Cable Outer Diameter	4.6 x 8.0 mm (0.18 x 0.31 in)

Ordering Tree

HCA-XL1C

Prodigy® Hardened Cable Assembly

HCA-

Connector A *

A

Prodigy connector only

B

Bayonet converter factory installed

H

Full-size converter installed

X

DLX converter factory installed

Connector B *

D

Stub

A

Prodigy connector only

B

Bayonet converter factory installed

H

Full-size converter installed

L

SC/APC

M

SC/APC w/8in Transition (Only USD Cable)

N

SC/UPC

R

LC/APC

S

LC/UPC

X

DLX converter factory installed

Special Request **

L

Spooled: Connector A deploys first from Spool

R

Spooled: Connector B deploys first from Spool

Unit of measure

F

Feet

M

Meter

Cable lengths***

0050

50 feet

0100

100 feet

1000

1000 feet

2500

2500 feet (max)

Cable type****

A

SST dielectric

B

SST toneable

C

USD dielectric

D

USD Toneable

M

Mini Flat Dielectric

N

Mini Flat Toneable

Number of fibers

1

One

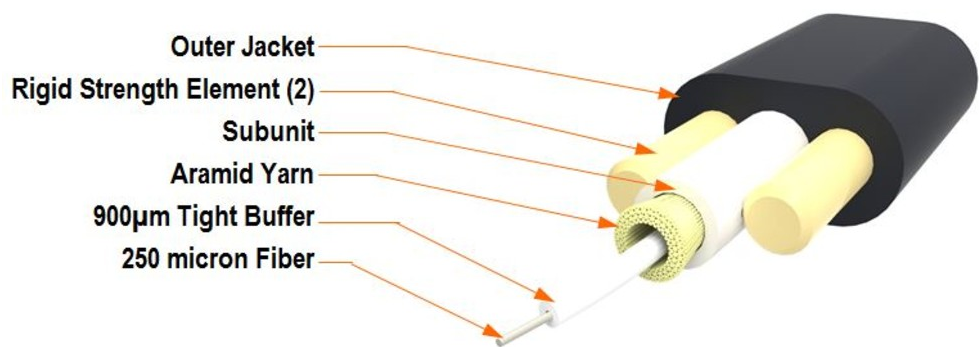
*Additional connector options available upon request. Pulling sock included with non-hardened connectors-25lbs of pulling force.

**Drops are automatically coiled 0 to 1000 ft unless "L" or "R" is specified for the range of length. Drops are automatically spooled at 1,001ft with connector B deploying first from spool. Add "L" to lengths over 1,001ft if Connector A needs to deploy first.

***Cable length shown as an example; additional cable lengths available upon request up to 2,500

****Q3 2025 availability for Mini Flat Cable

Representative Image



Mechanical Specifications

Minimum Bend Radius, loaded	92 mm 3.622 in
Minimum Bend Radius, unloaded	64 mm 2.52 in

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Tensile Load, long term, maximum	400 N 89.924 lbf
Tensile Load, short term, maximum	1334 N 299.895 lbf
Cable Crush Resistance, maximum	10 N/mm 57.101 lb/in
Dust Cap Pulling Force, minimum	445 N 100.04 lbf
Mating Durability, maximum	0.5 dB @ 100 cycles

Optical Specifications

Fiber Mode	Singlemode
Fiber Type	G.657.A2/B2
Insertion Loss, maximum, connector A	0.4 dB
Insertion Loss, typical	0.15 dB
Return Loss, minimum, connector A	65 dB

Environmental Specifications

Installation temperature	-30 °C to +60 °C (-22 °F to +140 °F)
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Storage Temperature	-40 °C to +75 °C (-40 °F to +167 °F)
Environmental Space	Outdoor
Jacket UV Resistance	UV stabilized
Qualification Standards	Telcordia GR-3120-CORE

Packaging and Weights

Cable weight	34.4 kg/km 23.116 lb/kft
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