

# HCA-AL1B



Fiber Optic Drop Cable Assembly, PRODIGY™ Connector Core only to SC /APC connector, SST toneable 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

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

## General Specifications

<b>Cable Type</b>	Toneable - Flat
<b>Connector A, quantity</b>	1
<b>Color, boot A</b>	Black
<b>Color, connector A</b>	Black
<b>Connector B, quantity</b>	1
<b>Color, boot B</b>	Green
<b>Color, connector B</b>	Green
<b>Interface, Connector A</b>	Prodigy®
<b>Interface, Connector B</b>	SC/APC
<b>Jacket Color</b>	Black
<b>Location of Manufacturing</b>	Catawba, North Carolina
<b>Total Fibers, quantity</b>	1

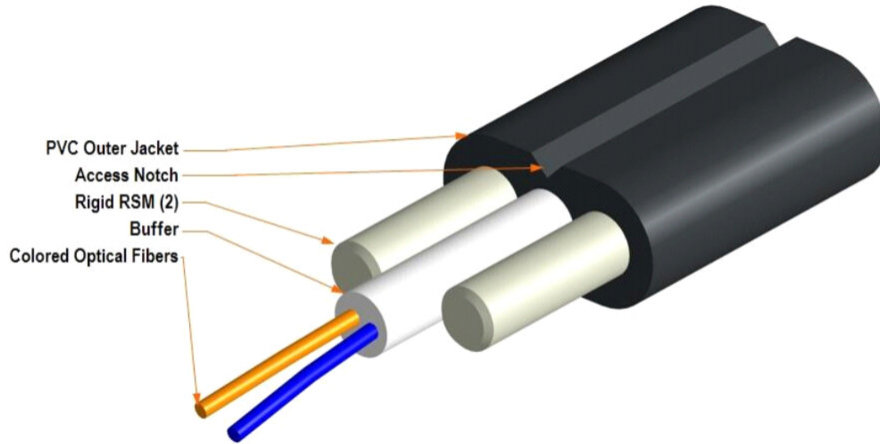
## Dimensions

<b>Cable Assembly Length Range (ft)</b>	1 – 2000
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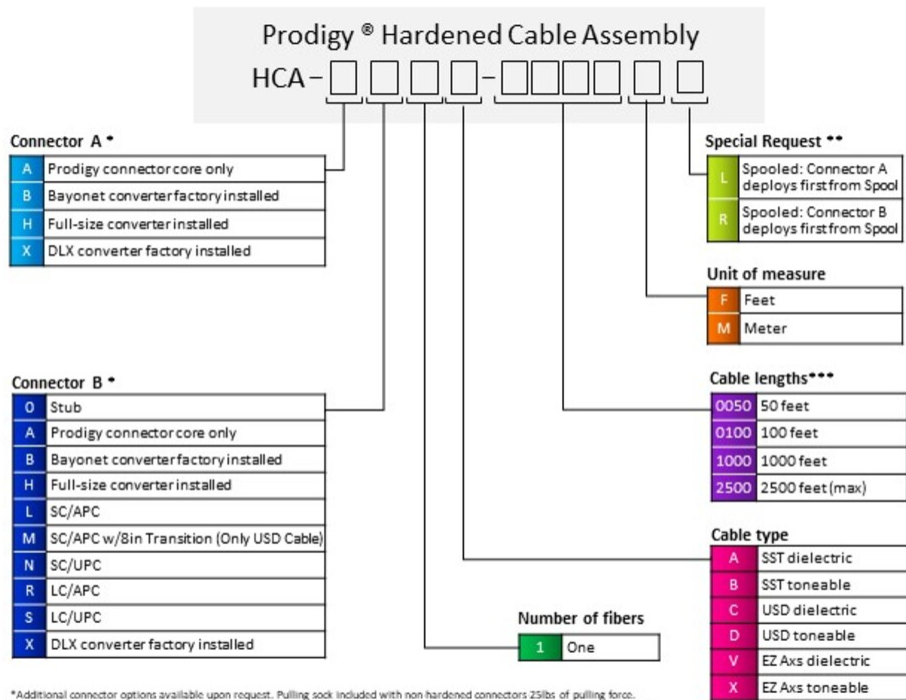
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**Cable Outer Diameter** 6.0 mm (0.24 in)

## Outline Drawing



## Ordering Tree



\*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

## Mechanical Specifications

**Minimum Bend Radius, loaded** 60 mm | 2.362 in

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<b>Minimum Bend Radius, unloaded</b>	60 mm   2.362 in
<b>Tensile Load, long term, maximum</b>	400 N   89.924 lbf
<b>Tensile Load, short term, maximum</b>	1350 N   303.492 lbf
<b>Cable Crush Resistance, maximum</b>	10 N/mm   57.101 lb/in
<b>Dust Cap Pulling Force, minimum</b>	445 N   100.04 lbf
<b>Mating Durability, maximum</b>	0.5 dB @ 100 cycles

## Optical Specifications

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

## Environmental Specifications

<b>Installation temperature</b>	-30 °C to +60 °C (-22 °F to +140 °F)
<b>Operating Temperature</b>	-40 °C to +70 °C (-40 °F to +158 °F)
<b>Storage Temperature</b>	-40 °C to +85 °C (-40 °F to +185 °F)
<b>Environmental Space</b>	Outdoor
<b>Jacket UV Resistance</b>	UV stabilized
<b>Qualification Standards</b>	Telcordia GR-3120-CORE

## Packaging and Weights

<b>Cable weight</b>	19 kg/km   12.767 lb/kft
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