

# HCA-X01A

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## Fiber Optic Drop Cable Assembly, PRODIGY™ Connector Core to Stub, SST 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

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

## General Specifications

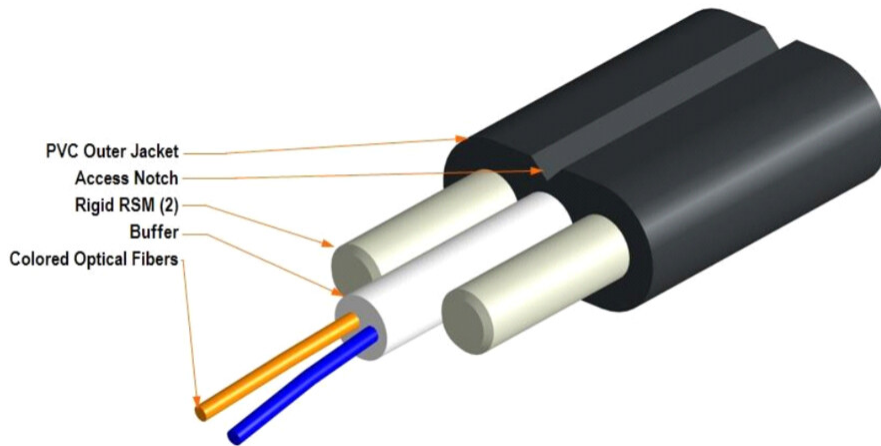
<b>Cable Type</b>	Dielectric - Flat
<b>Connector A, quantity</b>	1
<b>Color, boot A</b>	Black
<b>Color, connector A</b>	Black
<b>Interface, Connector A</b>	Prodigy
<b>Interface, Connector B</b>	Unterminated
<b>Jacket Color</b>	Black
<b>Total Fibers, quantity</b>	1

## Dimensions

<b>Cable Assembly Length Range (ft)</b>	1 – 2000
<b>Cable Outer Diameter</b>	4.5 x 8.0 mm (0.18 x 0.31 in)

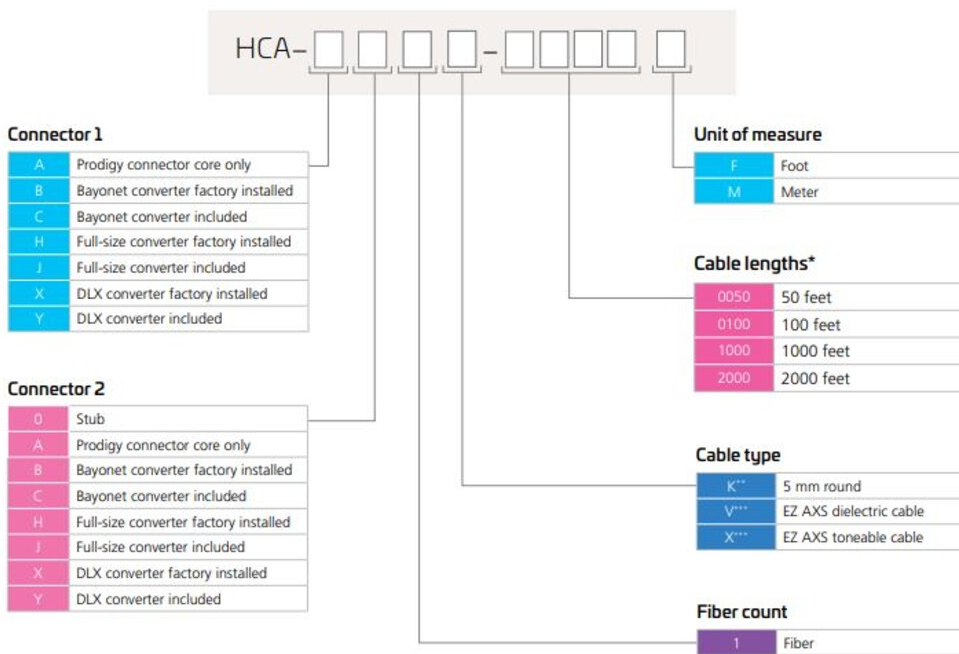
## Outline Drawing

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## Ordering Tree

### Prodigy Hardened Cable Assembly



\* Cable length shown as an example; additional cable lengths available upon request up to 2,000 ft (600 m)  
 \*\* Cable K type lengths only available up to 1,300 ft (400 m)  
 \*\*\* Cable V and X types available in lengths up to 2,000 ft (600 m)

## Mechanical Specifications

**Minimum Bend Radius, loaded** 90 mm | 3.543 in

**Minimum Bend Radius, unloaded** 81 mm | 3.189 in

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<b>Tensile Load, long term, maximum</b>	400 N   89.924 lbf
<b>Tensile Load, short term, maximum</b>	1334 N   299.895 lbf
<b>Cable Crush Resistance, maximum</b>	10 N/mm   57.101 lb/in
<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 +70 °C (-22 °F to +158 °F)
<b>Operating Temperature</b>	-40 °C to +70 °C (-40 °F to +158 °F)
<b>Storage Temperature</b>	-40 °C to +75 °C (-40 °F to +167 °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>	39 kg/km   26.207 lb/kft
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