

HCA-AL1D

Fiber Optic Drop Cable Assembly, Prodigy connector core only to SC/APC, USD toneable cable

- Hardened connectors are factory-terminated and environmentally sealed for use in optical drop cable deployments
- Hardened drop cables incorporate hardened connector technology that is designed to withstand the rugged outside plant environment
- Hardened drop cables simplify installation and maintenance by reducing splicing requirements in the distribution portion of the network
- *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

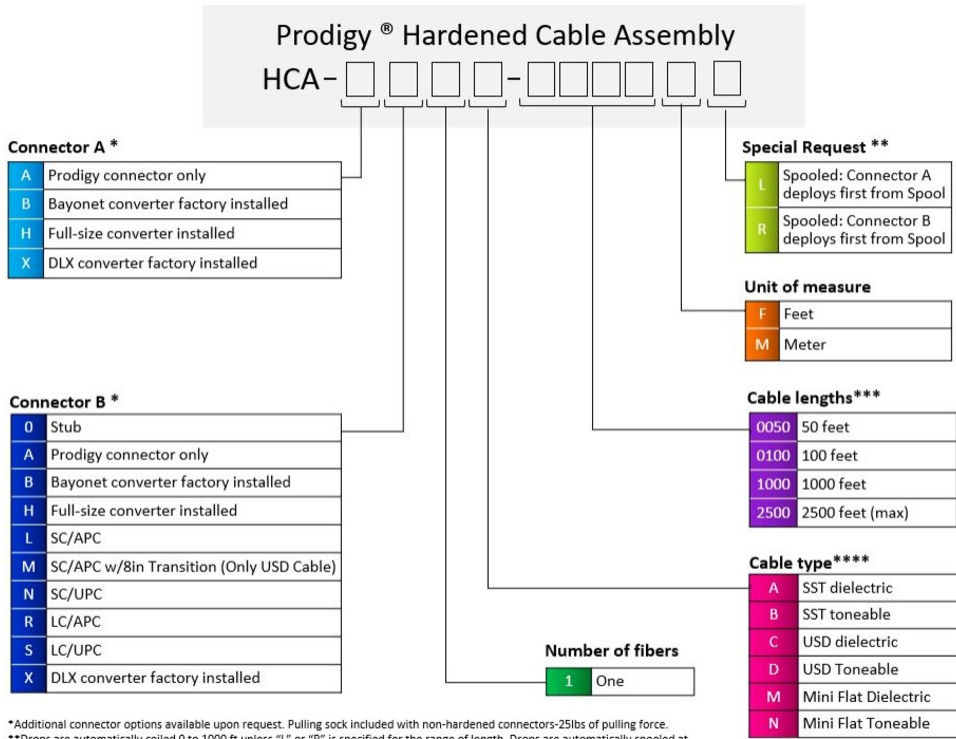
Cable Type	Toneable - Universal Flat
Connector A, quantity	1
Color, boot A	Black
Color, connector A	Black
Connector B, quantity	1
Color, boot B	Green
Color, connector B	Green
Interface, Connector A	Prodigy®
Interface, Connector B	SC/APC with pulling sock
Jacket Color	Black
Location of Manufacturing	Catawba, North Carolina
Total Fibers, quantity	1
Transmission Standards	IEC 61753-1 IEC 61754-4 IEC 61755

Dimensions

HCA-AL1D

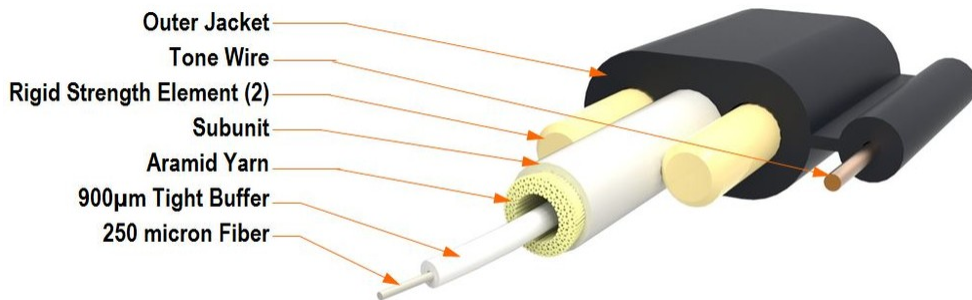
Breakout Length, connector B	457.2 mm 18 in
Cable Assembly Length Range (m)	1 – 900
Cable Assembly Length Range (ft)	50 – 2000
Cable Outer Diameter	4.6 x 9.9 mm (0.18 x 0.39 in)

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
 ****Q3 2025 availability for Mini Flat Cable

Representative Image



HCA-AL1D

Mechanical Specifications

Minimum Bend Radius, loaded	92 mm 3.622 in
Minimum Bend Radius, unloaded	64 mm 2.52 in
Tensile Load, long term, maximum	400 N 89.924 lbf
Tensile Load, short term, maximum	1334 N 299.895 lbf
Cable Crush Resistance, maximum	44 N/mm 251.246 lb/in
Pulling Tension, maximum	11.34 kg 25 lb

Optical Specifications

Fiber Mode	Singlemode
Fiber Type	G.657.A2, TeraSPEED®
Insertion Loss, maximum, connector A	0.4 dB
Insertion Loss, maximum, connector B	0.4 dB
Return Loss, minimum, connector A	65 dB
Return Loss, minimum, connector B	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	NEMA type 6, 10 ft waterhead Telcordia GR-20 Telcordia GR-3120

Packaging and Weights

Cable weight	34.4 kg/km 23.116 lb/kft
Packaging quantity	1