

# ANDREW® HELIAX® MODULAR FIBER SOLUTION

## DEPLOY MORE FIBER EVEN MORE QUICKLY AND EASILY

Keeping pace with today's demand for more and better wireless service means increasing the number of fiber-to-the-antenna (FTTA) deployments. Each installation involves unique requirements for connectivity, design architecture, upgradability and reduced deployment time. To keep evolving their networks in the most efficient manner, mobile network operators (MNOs) need a single FTTA portfolio they can trust to support more design flexibility, configuration options and growth potential for both new builds and existing site upgrades.

ANDREW addresses this emerging need by pairing a new, innovative modular trunk with trusted HELIAX fiber distribution closures (HFDC) and HELIAX hardened connectors (HHC). This three-product, fiber-agnostic combination offers even more design flexibility and is far faster, easier and mitigates errors to install and scale. MNOs can save valuable time and money on future-ready deployments that cost less to maintain.



SAVE TIME



MINIMIZE ERRORS



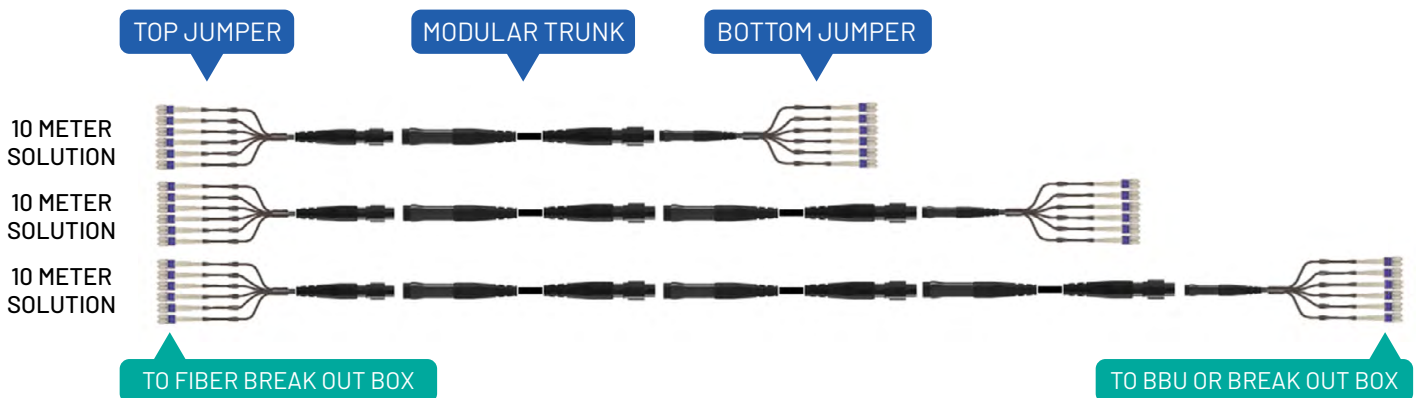
SIMPLIFY INSTALLATION



HIGH DATA RATING

## BUILD YOUR SITE WITH JUST THREE PART NUMBERS

With the HELIAX Modular Fiber Solution, the top jumper, bottom jumper and modular trunk are the only components needed to support almost any deployment.



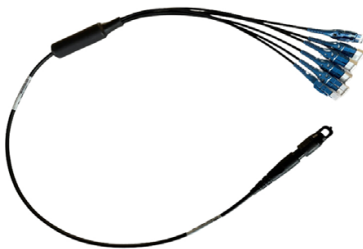
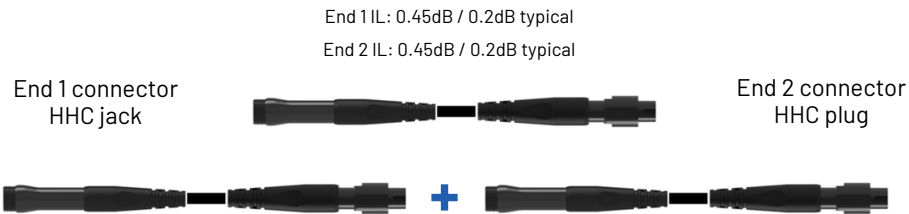
- Additional trunks can be added to extend overall length
- The length of the modular trunk is not limited to the 10-meter version

## HHC, MODULAR TRUNKS AND JUMPERS: FAST-TRACK EVERY DEPLOYMENT

The HHC incorporate a rugged 12-fiber feeder cable terminated to the HHC assembly, which includes a 12-fiber mechanical transfer (MT) ferrule enclosed in sealed connector housing for outdoor use. When connecting to the modular trunk, the alignment of two MT ferrules on each end is governed by two high-precision pins, similar to a standard MT connector. A jack-and-plug design enables direct, adapter-free connector and trunk mating with the tightening of a screw, ensuring precision alignments.



The modularity of the fiber trunk further streamlines deployment with a simple, single-length 10-meter design that ensures consistency and ease of use. Featuring HHC connectors on both ends, these building blocks can be quickly linked in sequence to meet any network length requirement. They feature low maximum attenuation and error-proof installation to save time, reduce complexity and deliver reliable, high-quality connections.



HELIAX fiber jumpers complete this modular solution. The top jumper HHC is a plug, while the bottom is a jack, supporting 12 fibers in a single mode and a total max attenuation of 0.45 dB (typical is 0.25 dB).



Product	Product 1 10 meter jumper to HFDC	Product 2 10 meter trunk	Product 3 10 meter jumper to BBU
PN	FJ-12LAGHDN-010M	FJ-12LBGDDN-010M	FJ-12LBADBN-010M
Family	FJ- Fiber jumper discrete	FJ- Fiber jumper discrete	FJ- Fiber jumper discrete
Dash	-	-	-
Number of fibers	12- 12 fibers	12- 12 fibers	12- 12 fibers
Cable type	L = Singlemode Low Smoke Zero Halogen	L =Singlemode Low Smoke Zero Halogen	L =Singlemode Low Smoke Zero Halogen
End 1: TOP FIBER connector	A = Uniboot DLC (2F) 3.0 mm	B = HMFOC jack (12F) 5.4 mm	B = HMFOC jack (12F) 5.4 mm
End 2: BOTTOM FIBER connector	G = HMFOC Plug (12F) 5.4 mm	G = HMFOC Plug (12F) 5.4 mm	A = Uniboot DLC (2F) 3.0 mm
End 1: TOP breakout FIBER length	H - 620 mm	D - Direct term	D - Direct term
End 2: BOTTOM breakout FIBER length	D - Direct term	D - Direct term	B - 1-meter
End 1: Weatherproofing or special BO designation fiber	N - No weather proofing	N - No weather proofing	N - No weather proofing
Dash	-	-	-
Length (excluding the break out)	10	10	10
UoM	M	M	M

## BREAKOUT BOX CONFIGURATION: TWO OPTIONS

Connecting the HELIAX Modular Fiber Solution to a scalable HELIAX Fiber Distribution Closure (HFDC) – or breakout box – offers a choice of configuration options to meet your installation preferences and hardware needs.

### Option 1:

Fiber top jumper installed into the box during field installation. Up to four top jumpers can be installed into a single box.



Strengths	Consideration
<ul style="list-style-type: none"> <li>Fiber works with any FTTA box supplier</li> <li>HFDC works with any FTTA fiber supplier</li> <li>4 fiber inputs and up to 24 fiber jumper outputs can be upgraded at any time</li> </ul>	<ul style="list-style-type: none"> <li>Top fiber jumper requires onsite installation</li> </ul>

### Option 2:

Fiber trunk connected to the box during field installation, with box arriving pre-wired from the ANDREW factory. Up to four top jumpers can be installed into a single box.



Strengths	Consideration
<ul style="list-style-type: none"> <li>Fiber trunk connection takes seconds and is virtually error-proof</li> <li>4 fiber inputs and up to 24 fiber jumper outputs can be upgraded at any time</li> <li>Can be upgraded with other suppliers fiber</li> </ul>	<ul style="list-style-type: none"> <li>Pre-wired HFDC is compatible with ANDREW HHC only</li> </ul>

### OPTION 1

Product	Product 1 10 meter jumper to HFDC	Product 2 10 meter trunk	Product 3 10 meter jumper to BBU
Site length	FJ-12LAGHDN-010M	FJ-12LBGDDN-010M	FJ-12LBADBN-010M
20	1	0	1
30	1	1	1
40	1	2	1
50	1	3	1
60	1	4	1
70	1	5	1
80	1	6	1
90	1	7	1
100	1	8	1
...	1	...	1

### OPTION 2

Product	Product 1 10 meter jumper to HFDC	Product 2 10 meter trunk	Product 3 10 meter jumper to BBU
Site length	FJ-12LAGHDN-010M	FJ-12LBGDDN-010M	FJ-12LBADBN-010M
20	1	1	0
30	1	2	0
40	1	3	0
50	1	4	0
60	1	5	0
70	1	6	0
80	1	7	0
90	1	8	0
100	1	9	0
...	1	...	0

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