

This is always a new way...

AD-Tech

AD-Tech

Aerial Micro-Duct Catalog

Different capacities

Aerial MicroDuct Solution

New Generation aerial optical fiber network

Related Product

accessories and tools

Vol No.

1

Oct 2024

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AD-Tech Aerial Solution

Oct 10, 2024

Highly efficient, cost-effective aerial FTTH deployments

Recommended for rural environments and other areas where digging is challenging

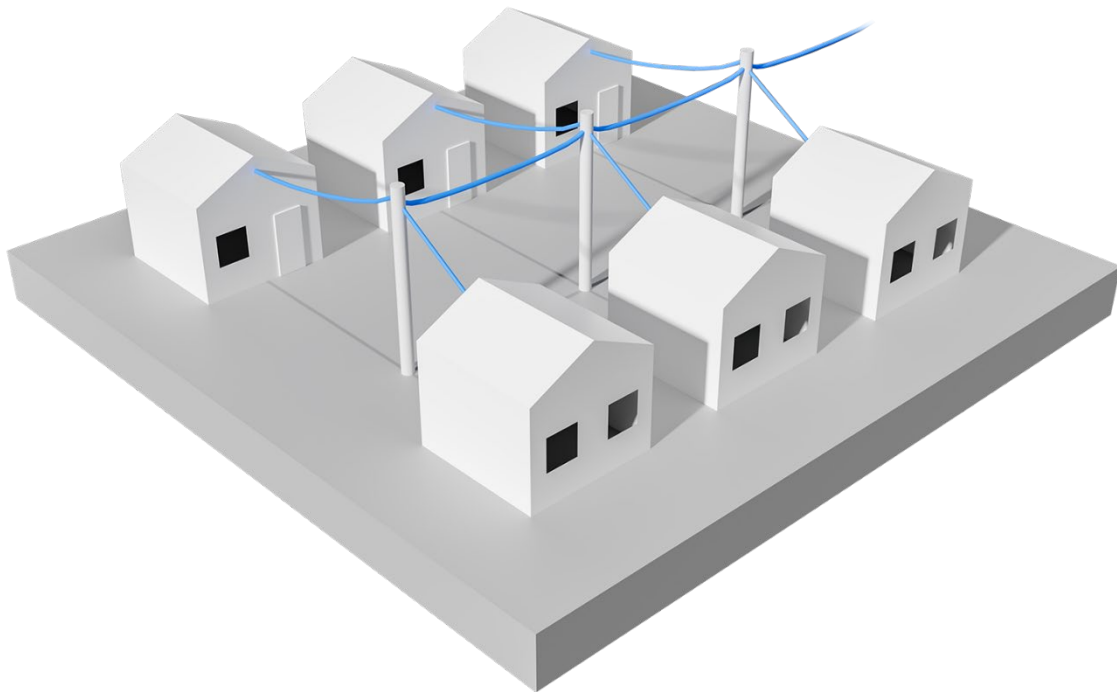
AD-Tech develop a Micro-Duct solution for aerial FTTH installations that provides a cost-effective, time-efficient alternative to direct-buried deployments, with no need for digging. It is completely can be implemented and can be installed on existing lighting or power poles in rural environments, or other areas where digging is challenging. This solution is also a future-proof alternative to ADSS cable deployments, with no need to splice fiber on the air and vacant pathways available for future upgrades



Micro-Duct Overhead Solution

Key benefits:

- **Cost effective:** reduce the cost of an FTTH deployment by 20% versus ADSS
- **Time-efficient:** reduce the duration of an FTTH deployment by 30% versus ADSS
- **Future-proof:** install once and provision vacant pathways for future expansion
- **Robust:** protect fiber-optic cables against extreme weather conditions
- **Installer-friendly:** utilize same the network architectures, components, fiber-optic cables, installation crews, and tools as for underground deployments



Abadis Dynamic Technology (AD-Tech) Aerial Micro-Duct Solution

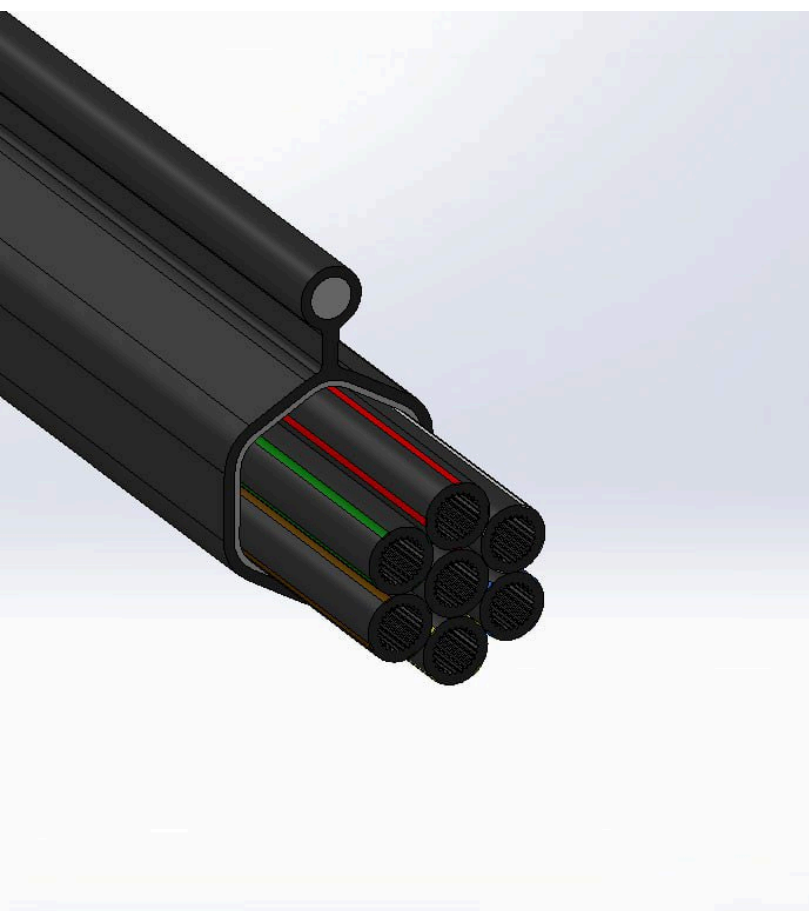
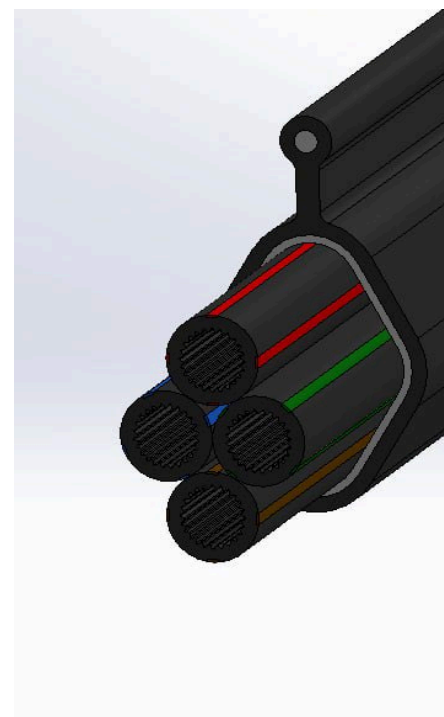


1 Way

For User Connection

4 Way

For FAT access
connection



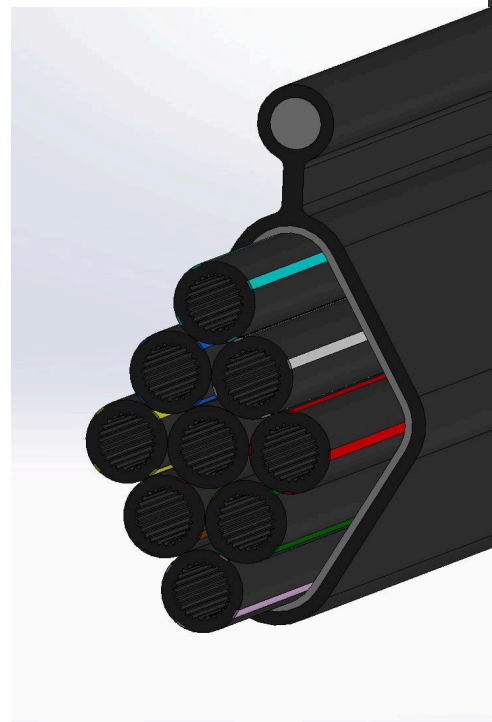
7 Way

For Distribution
Connection

Abadis Dynamic Technology (AD-Tech) Aerial Micro-Duct Solution

9 Way

For Feeder Connection



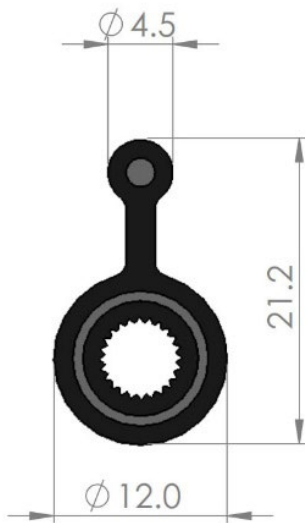
12 Way

For Feeder Connection

1 Way Aerial Micro-Duct

For User Connection

- This type of aerial micro-duct mostly used for connection one point (special User) directly from air



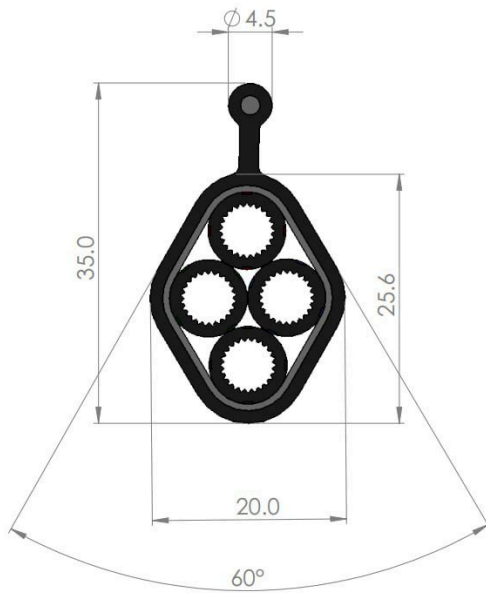
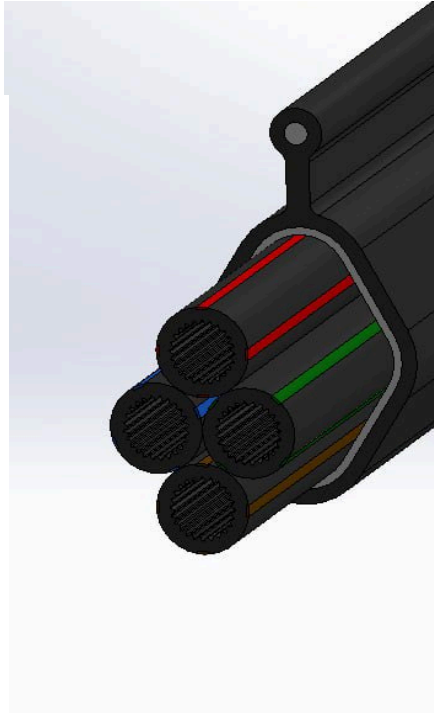
Parameter	Size of tube	Number Of tubes	Thickness of first sheath layer	Thickness of Second sheath layer	Width with full cable load	Height	Weight	maximum supported tensile in long term	maximum supported tensile in short term	Supported Bending Radius Installation	Supported Bending Radius Operation
Unit	mm	Quantity	mm	mm	Gram per Meter	mm	mm	Newton	Newton	mm	mm
1 Way	8/5	1	0.7	1.3	200	21.2	12	17.500	28.000	300	400

Parameter	Maximum Span support in Heavy NESC	Maximum Span support in Heavy NESC	Maximum Span support in Heavy NESC
Unit	Meter	Meter	Meter
	150	240	530

4 Way Aerial Micro-Duct

For Access Connection

- This type of aerial micro-duct mostly used for access connection part of FTTX network



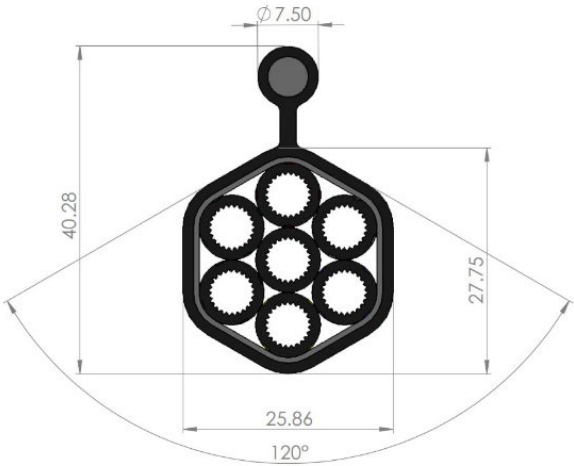
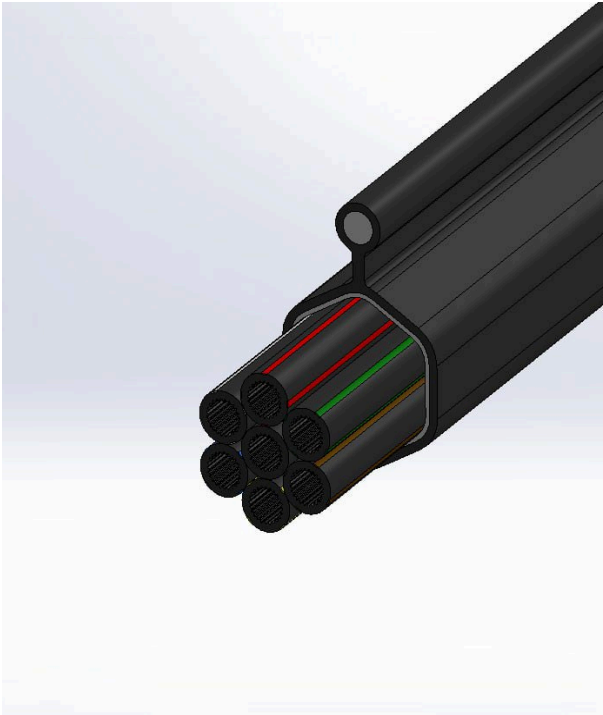
Parameter	Size of tube	Number Of tubes	Thickness of first sheath layer	Thickness of Second sheath layer	Width with full cable load	Height	Weight	maximum supported tensile in long term	maximum supported tensile in short term	Supported Bending Radius Installation	Supported Bending Radius Operation
Unit	mm	Quantity	mm	mm	Gram per Meter	mm	mm	Newton	Newton	mm	mm
4 Way	8/5	4	0.7	1.3	391	35	20	24.400	39.000	400	500

Parameter	Maximum Span support in Heavy NESC	Maximum Span support in Heavy NESC	Maximum Span support in Heavy NESC
Unit	Meter	Meter	Meter
	160	245	450

7 Way Aerial Micro-Duct

For Distribution Connection

- This type of aerial micro-duct mostly used for distribution connection part of FTTX network



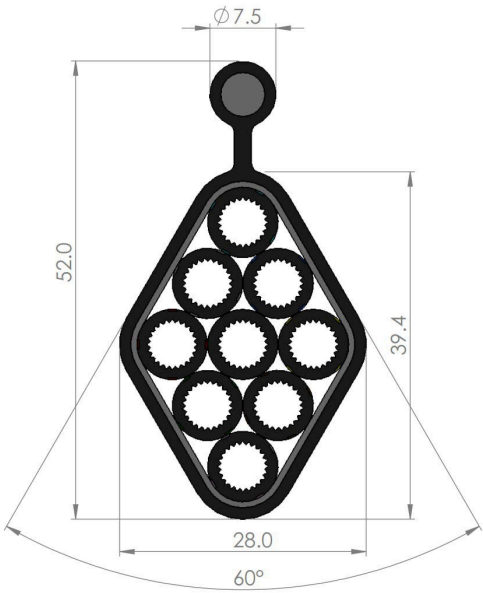
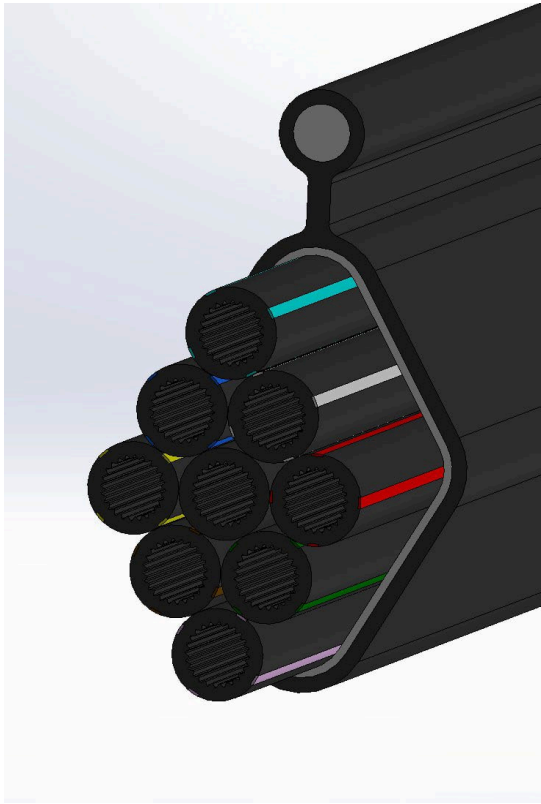
Parameter	Size of tube	Number Of tubes	Thickness of first sheath layer	Thickness of Second sheath layer	Width with full cable load	Height	Weight	maximum supported tensile in long term	maximum supported tensile in short term	Supported Bending Radius Installation	Supported Bending Radius Operation
Unit	mm	Quantity	mm	mm	Gram per Meter	mm	mm	Newton	Newton	mm	mm
7 Way	8/5	7	0.7	1.3	540	40.28	25.86	26.800	42.000	520	650

Parameter	Maximum Span support in Heavy NESC	Maximum Span support in Heavy NESC	Maximum Span support in Heavy NESC
Unit	Meter	Meter	Meter
	155	235	420

9 Way Aerial Micro-Duct

For Feeder Connection

- This type of aerial micro-duct mostly used for feeder connection part of FTTX network



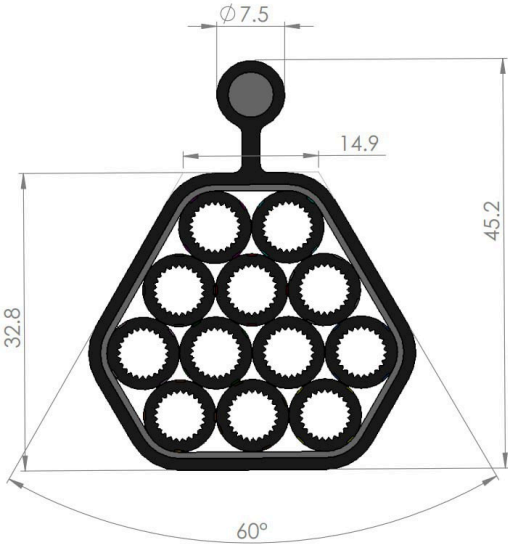
Parameter	Size of tube	Number Of tubes	Thickness of first sheath layer	Thickness of Second sheath layer	Width with full cable load	Height	Weight	maximum supported tensile in long term	maximum supported tensile in short term	Supported Bending Radius Installation	Supported Bending Radius Operation
Unit	mm	Quantity	mm	mm	Gram per Meter	mm	mm	Newton	Newton	mm	mm
9 Way	8/5	7	0.7	1.3	642	52	28	28.500	45.000	560	660

Parameter	Maximum Span support in Heavy NESC	Maximum Span support in Heavy NESC	Maximum Span support in Heavy NESC
Unit	Meter	Meter	Meter
	150	220	360

12 Way Aerial Micro-Duct

For Feeder Connection

- This type of aerial micro-duct mostly used for feeder connection part of FTTX network



Parameter	Size of tube	Number Of tubes	Thickness of first sheath layer	Thickness of Second sheath layer	Width with full cable load	Height	Weight	maximum supported tensile in long term	maximum supported tensile in short term	Supported Bending Radius Installation	Supported Bending Radius Operation
Unit	mm	Quantity	mm	mm	Gram per Meter	mm	mm	Newton	Newton	mm	mm
12 Way	8/5	12	0.7	1.3	787	45.2	36	35.000	56.000	750	850

Parameter	Maximum Span support in Heavy NESC	Maximum Span support in Heavy NESC	Maximum Span support in Heavy NESC
Unit	Meter	Meter	Meter
	165	250	450

Accessories and Tools

For Aerial Micro-Duct Installation

In fact, most accessories are the same that use for Micro-Duct installation in the ground like Micro-Duct connector or something like that

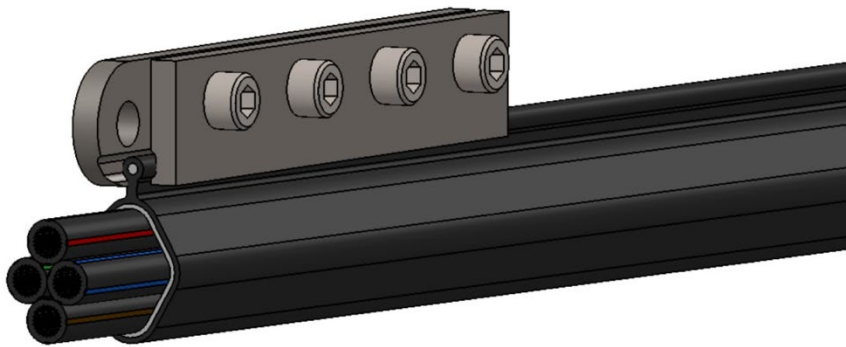
The main accessories that use for aerial micro-Duct installation is the tools that use for attaching Micro-Duct to Pohl



Abadis Dynamic Technology (AD-Tech) Aerial Micro-Duct Solution

Connector

Use for connection pipe
or protecting free pipe



Anchoring Clamp

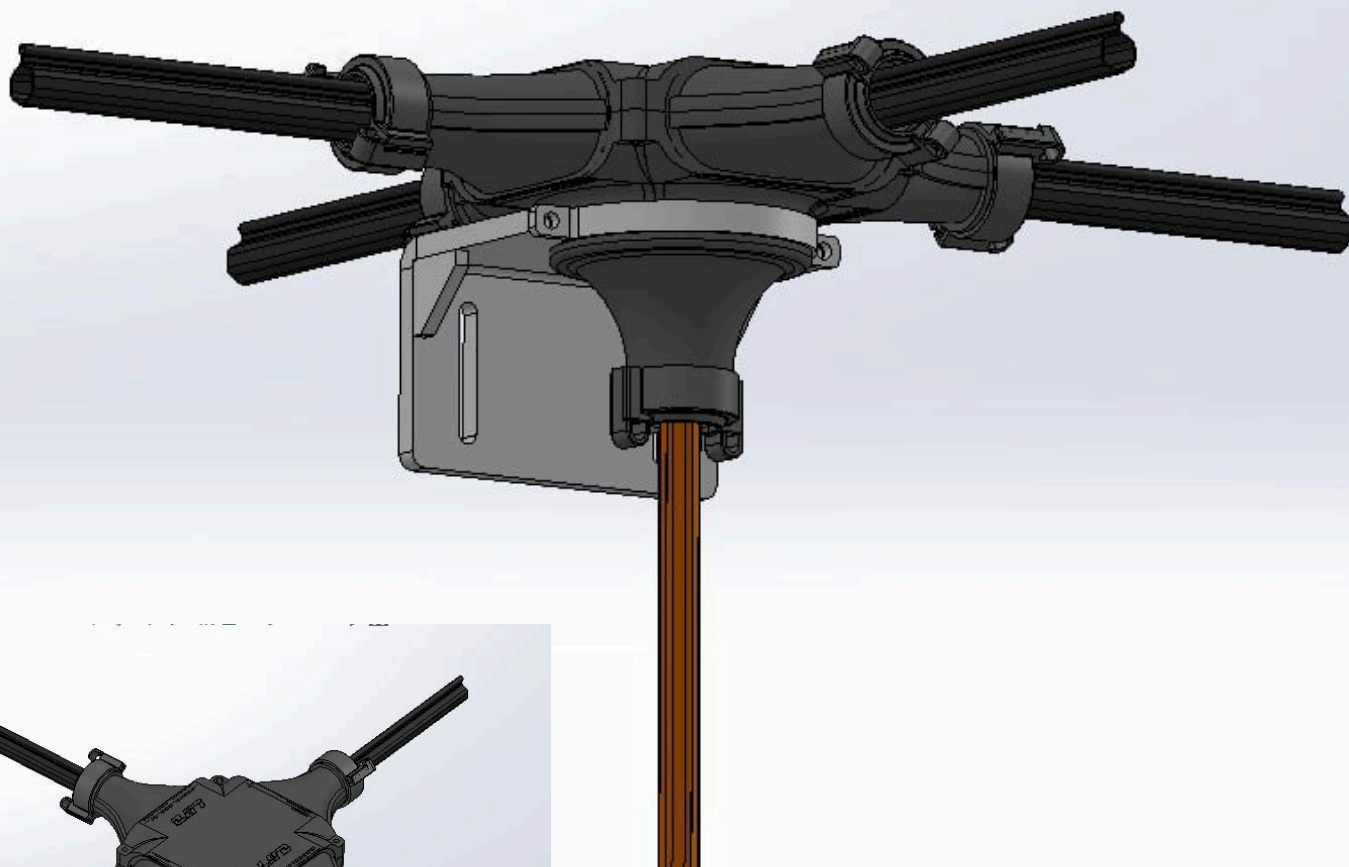
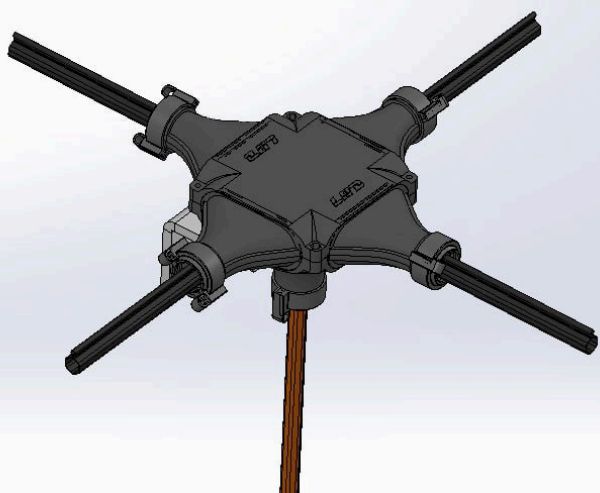
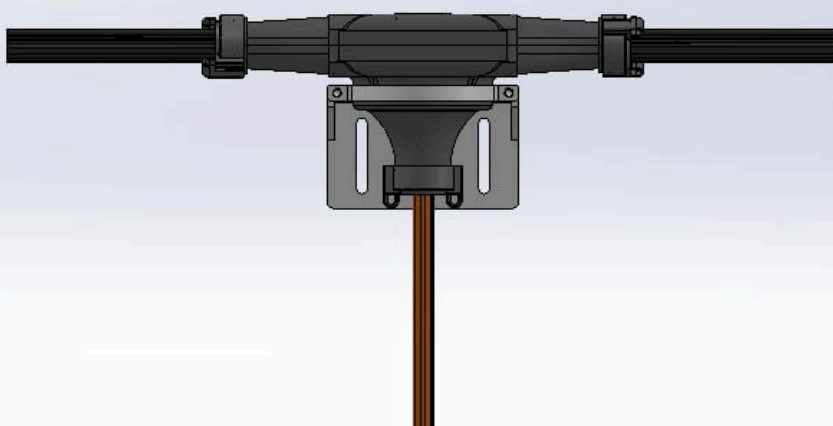
Use for connecting Micro-Duct messenger to Pohl

Suspension Clamp

Use for connecting
Micro-Duct messenger
to Pohl



Aerial Micro-Duct Joint BOX





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