



HELIAX[®] CONNECTIVITY SOLUTIONS TO SIMPLIFY CELL SITE CONNECTIVITY

PRODUCT SELECTION GUIDE FOR EUROPE

AS ANNOUNCED ON JULY 18, 2024,

Amphenol has acquired CommScope Outdoor Wireless Networks and Distributed Antenna Systems Businesses. Proudly, as part of the Amphenol family, we are still working on the completion of the new ANDREW website. All links contained within this guide currently lead to commscope.com.

At ANDREW, we could not be more excited about—or more ready for—what’s to come. Our customers can count on us to keep them at the forefront of connectivity-enabled technology, today and well into the future. Please contact your sales representative to stay up to date on future releases of this product selection guide.

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OUTDOOR WIRELESS NETWORKS: OWN

The outdoor wireless industry has reached a tipping point—two actually. One will determine if 2.9 billion people, more than a third of the world, will have access to high-speed broadband with all its economic and social benefits; the other will influence the course of climate change and the degree to which it disrupts how and where we live.

To accomplish both, outdoor wireless networks must continue to expand and evolve—simplifying 5G rollouts, adding network capacity, and expanding capabilities, but not at the expense of the environment. The decisions network operators make today will go a long way to determining our quality of life tomorrow. The stakes are high and ANDREW Outdoor Wireless Networks (OWN) is ready.

SIMPLIFYING AND INNOVATING EVERYWHERE IT MATTERS

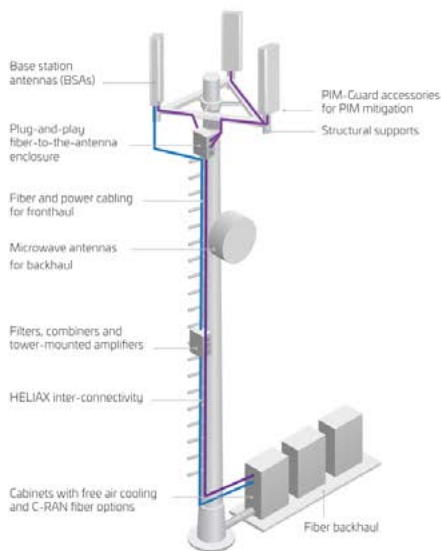
ANDREW OWN is one of four ANDREW-operated business segments. As an industry-leading developer of RF path solutions for mobile networks, customers look to us for the future-ready, sustainable solutions that help them simplify their networks and adapt to the changing needs of a complex, hyperconnected world. We respond with an end-to-end portfolio that covers nearly every aspect of the macro cellular and small cell RF path. We make everything but the radio; and every cable, component and connector delivers the ANDREW quality and reliability our customers have come to expect. [LEARN MORE](#)


1400
 Issued Patents

HELIAX®
 the name for
 connectivity since 1937


 Strong commitment
 to sustainability

Everything but the radio



Our major brands include:

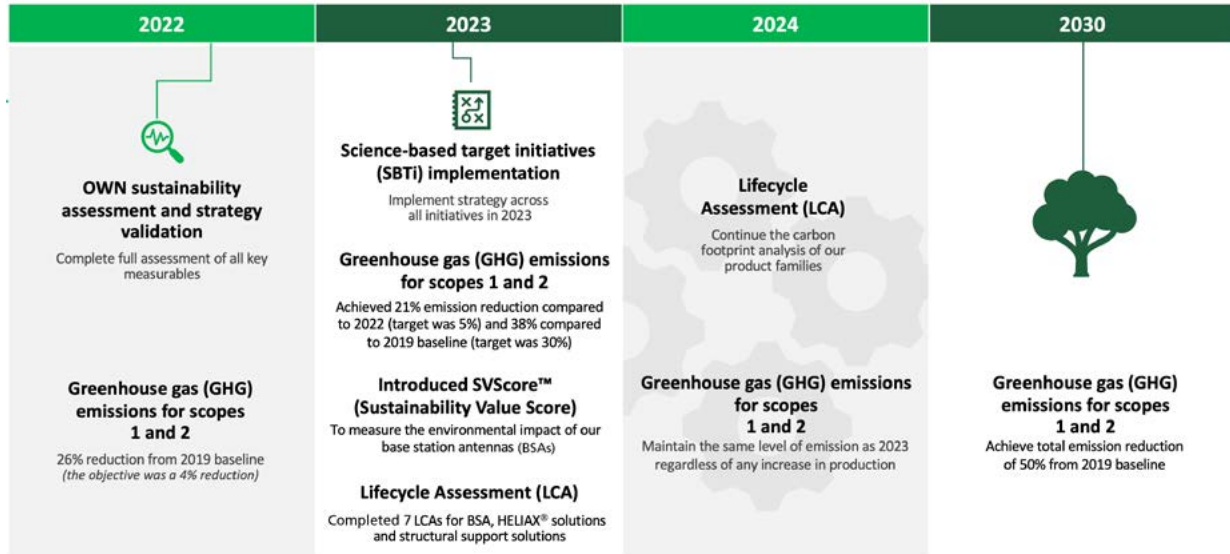
- | | | |
|-------------|------------|---------|
| PowerShift® | MOSAIC® | HELIAX® |
| ValuLine® | PIM-Guard® | SEED™ |

Global R&D manufacturing & testing



TOWARDS CARBON NEUTRALITY: OWN SUSTAINABILITY COMMITMENT

Our goals and achievements



LEADING THE WAY TO A SUSTAINABLE FUTURE

All around the world, mobile network operators (MNOs) are going green. Faced with new compliance demands, changing international standards and increased public concern over climate issues, sustainability and circular economy strategies are top of mind for every operator.

That's why the ANDREW Outdoor Wireless Networks (OWN) team is committed to helping mobile network operators achieve their green goals. Our Green and Sustainable Agenda focuses on helping our partners meet their sustainability goals with innovative solutions. Continue reading to learn more about how ANDREW OWN can accelerate and streamline the sustainability journey.

Transparent sustainability, scientifically quantified

While sustainability is a high-priority goal for industries of all kinds, mobile network operators in particular need clear, data-driven transparency on the ecological costs and benefits of their buying decisions. ANDREW OWN delivers this transparency because we believe that proof, not platitudes, is what drives real change. [LEARN MORE](#)



Four pillars supporting our one planet

Towards net zero communications

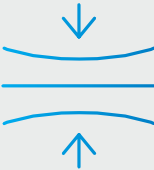


OWN knows there is no single solution to improving sustainability and promoting the circular economy. That's why we help our MNO partners reduce their environmental impact at every stage. Our efforts cover the entire planning, production and lifecycle of our products.

- 1 Eco-friendly design for more efficient networks through a smart use of resources
- 2 Sustainable operations and supply chain
- 3 Rethinking packaging and logistics to reduce distribution impact
- 4 Extending product lifecycles to extend the lifespan of wireless networks

SIMPLIFYING CELL SITE CONNECTIVITY

FLEXIBLE, EFFICIENT AND ENVIRONMENTALLY RESPONSIBLE

The HELIAX FTTA portfolio offers the flexible, efficient design to reduce your time to market while making the most of every FTFA opportunity. The streamlined solutions also reduce raw material use and remove more single-use plastics from the waste stream—making the portfolio a key part of a sustainable network growth strategy.

DESIGN FLEXIBILITY	COST AND TIME SAVINGS	LOWER ENVIRONMENTAL IMPACT
		
<ul style="list-style-type: none"> · Two to six fibers per connector · Supports hardened connectivity for direct-connect and breakout modules · Discrete solution is customizable with choice of connector types and cable lengths · Upgrade trunk and modular options by changing jumpers instead of the entire FTFA link 	<ul style="list-style-type: none"> · Trunk and modular designs need only one installer and use fewer cables and brackets · Fewer cables reduces tower loading and lowers OpEx · Plug-and-play breakout boxes speed installation and reduce potential installer error 	<ul style="list-style-type: none"> · SkyBlox breakouts (for Modular option) are 100% recyclable · Change jumpers to upgrade network capabilities—eliminating the need for a new FTFA link · Support multiple MNOs on the same infrastructure platform to lower overall CO₂ impact

HELIAX FIBER DISTRIBUTION CLOSURES

Designed for now and next

HELIAX fiber distribution closures (HFDCs) feature a patented gel-sealing technology that creates a moisture-proof, dust-proof barrier when the cover is closed. The design not only delivers IP68 protection, it also allows fast and easy field handling without a need for special tools or threading cables through gland input and outputs. With support for up to 48 fibers per closure, the HFDC solution gives your network a serious competitive edge.



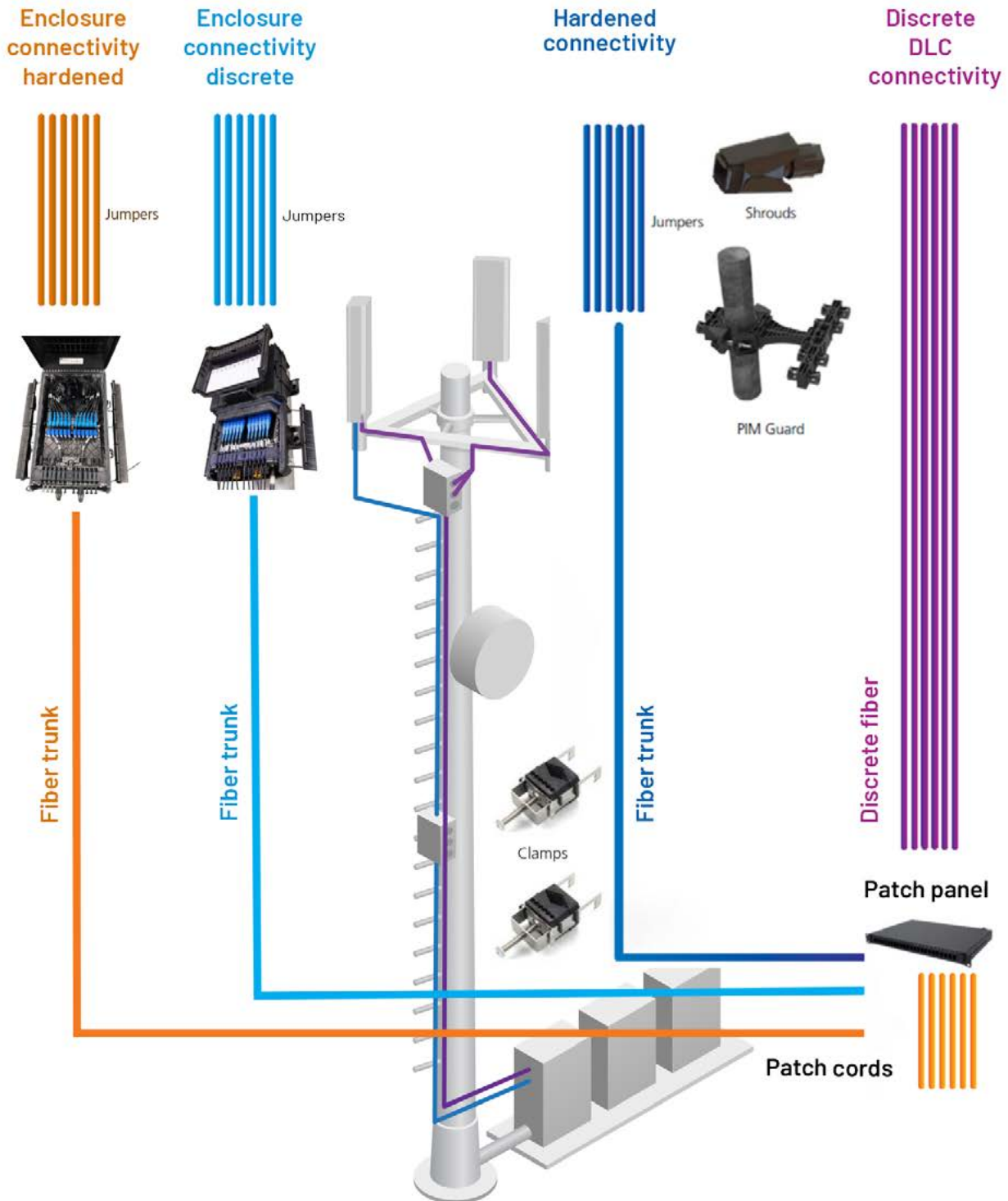
HELIAX LOW-VOLTAGE DC CABLING

Faster, easier, safer outdoor wireless deployment




Across the EU, MNOs and neutral host providers are under increasing pressure to drive down the cost and time of building out their 4G/5G networks. This involves finding faster and easier ways to connect and manage the low-voltage cabling that powers their active macro and small cell components. They must also meet stricter EU safety standards like the 2014/35/ EU low-voltage Directive (LVD) as well as their own sustainability goals. Working with our customers and EU partners, ANDREW has developed the new HELIAX line of low-voltage direct current (DC) cables. Now, networks and their installation partners can accelerate on-site deployments while meeting stricter requirements for safety and environmental protection. With CPR B2ca jacketing and insulators, these cables meet the stricter LVD specifications and conform to IEC 60228 standards for conductor stranding. Smaller Class 5 copper conductors also make them easier to handle versus cables with Class 2 conductors. The unique shielded double-drain wire construction provides excellent grounding and interference protection to support next-gen telco applications.



HELIAX THREE MAIN FTTA CONNECTIVITY SOLUTIONS



FTTA OVERVIEW

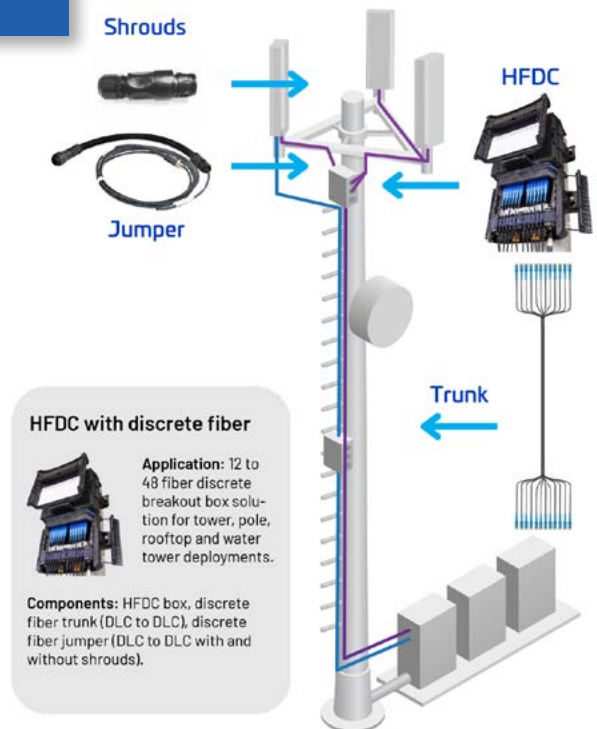
HFDC WITH DISCRETE FIBER	HFDC WITH HARDENED CONNECTIVITY	HARDENED CONNECTIVITY W/O BOX
		
APPLICATION		
12- to 48-fiber discrete breakout box solution for tower, pole, rooftop and water tower deployments	12- to 48-fiber discrete breakout box solution for tower, pole, rooftop and water tower deployments	2-, 6-, 12-, 24-, 36-, 48-fiber discrete HMFOC hardened connectivity solution for tower, pole, rooftop and water tower deployments
COMPONENTS		
HFDC box, discrete fiber trunk (DLC to DLC), discrete fiber jumper (DLC to DLC with and without shrouds)	HFDC box, HMFOC fiber demarcation cable, HMFOC trunk (2-, 6-, or 12-fiber), discrete jumper (DLC to DLC with and without shrouds)	HMFOC trunk, HMFOC jumper (with and without shroud)

[Check our our HELIAX® Fiber Distribution Closures video](#)

[Check out our HFDC with HMFOC video](#)

Fiber—HFDC with discrete fiber

HELIAX discrete fiber solutions offer individual fiber cables direct to the RRU, with multiple connector type options and core counts, and allow operators to implement a pay-as-you-grow strategy for network deployments and reduce CapEx. Singlemode and multimode options: trunks and jumpers; armored and nonarmored. Assembled from high-grade components and 100% factory tested, providing long, reliable service. Variety of fiber core counts: 2-48 fibers. Variety of fiber-optical connectors: DLC, ODC, IP-16, HMFOC. Variety of RRU shroud interfaces: FullIAXS, Nokia boot, AOPC, Octis, etc.



ENCLOSURE CONNECTIVITY

FAMILY	MATERIAL ID	FIBER TYPE	DESCRIPTION	NUMBER OF FIBERS	NUMBER OF ADAPTERS
HFDC enclosure	HFDC-24FIBER	SM	HFDC 24 fiber	24	24
	HFDC-EXP12FIBER	SM	12 fiber expansion pak	12	12
	HFDC-48FIBER	SM	HFDC 48 fiber	48	48

FAMILY	MATERIAL ID	FIBER TYPE	JACKET MATERIAL	NUMBER OF FIBERS	CONNECT OR END 1	CONNECT OR END 2	LENGTH (M)
24-fiber SM trunks	MFT-G24-AA-JA-030M	SM	LSZH	24	DLC Gen 1.5	DLC Gen 1.5	30
	MFT-G24-AA-JA-040M	SM	LSZH	24	DLC Gen 1.5	DLC Gen 1.5	40
	MFT-G24-AA-JA-050M	SM	LSZH	24	DLC Gen 1.5	DLC Gen 1.5	50
	MFT-S24-AA-JA-030M	SM	CPR Cca	24	DLC Gen 1.5	DLC Gen 1.5	30
	MFT-S24-AA-JA-040M	SM	CPR Cca	24	DLC Gen 1.5	DLC Gen 1.5	40
	MFT-S24-AA-JA-050M	SM	CPR Cca	24	DLC Gen 1.5	DLC Gen 1.5	50
48-fiber SM trunks	MFT-G48-AA-JA-030M	SM	LSZH	48	DLC Gen 1.5	DLC Gen 1.5	30
	MFT-G48-AA-JA-040M	SM	LSZH	48	DLC Gen 1.5	DLC Gen 1.5	40
	MFT-G48-AA-JA-050M	SM	LSZH	48	DLC Gen 1.5	DLC Gen 1.5	50
	MFT-S48-AA-JA-030M	SM	CPR Cca	48	DLC Gen 1.5	DLC Gen 1.5	30
	MFT-S48-AA-JA-040M	SM	CPR Cca	48	DLC Gen 1.5	DLC Gen 1.5	40
	MFT-S48-AA-JA-050M	SM	CPR Cca	48	DLC Gen 1.5	DLC Gen 1.5	50
24-fiber MM trunks	FT-24PAAHIN-020M	MM	CPR Cca	24	DLC Gen 1.5	DLC Gen 1.5	20
	FT-24PAAHIN-030M	MM	CPR Cca	24	DLC Gen 1.5	DLC Gen 1.5	30
	FT-24PAAHIN-040M	MM	CPR Cca	24	DLC Gen 1.5	DLC Gen 1.5	40
	FT-24PAAHIN-050M	MM	CPR Cca	24	DLC Gen 1.5	DLC Gen 1.5	50
	FT-24PAAHIN-060M	MM	CPR Cca	24	DLC Gen 1.5	DLC Gen 1.5	60
	FT-24PAAHIN-070M	MM	CPR Cca	24	DLC Gen 1.5	DLC Gen 1.5	70
2-fiber SM jumper	DFJ-2S5-2G-3M	SM	LSZH	2	DLC Gen 1.5	DLC Gen 1.5	3
	DFJ-2S5-2G-5M	SM	LSZH	2	DLC Gen 1.5	DLC Gen 1.5	5
	DFJ-2S5-2G-7M	SM	LSZH	2	DLC Gen 1.5	DLC Gen 1.5	7
	DFJ-2S5-G-3M	SM	LSZH	2	DLC	DLC Gen 1.5	3
	DFJ-2S5-G-5M	SM	LSZH	2	DLC	DLC Gen 1.5	5
	DFJ-2S5-G-7M	SM	LSZH	2	DLC	DLC Gen 1.5	7

ENCLOSURE CONNECTIVITY

FAMILY	MATERIAL ID	FIBER TYPE	JACKET MATERIAL	NUMBER OF FIBERS	CONNECT OR END 1	CONNECT OR END 2	LENGTH (M)
2-fiber MM jumper	DFJ-2M5-NB-1M	MM	LSZH	2	DLC	DLC	1
	DFJ-2M5-NB-2M	MM	LSZH	2	DLC	DLC	2
	DFJ-2M5-NB-3M	MM	LSZH	2	DLC	DLC	3
	DFJ-2M5-NB-5M	MM	LSZH	2	DLC	DLC	5
	DFJ-2M5-NB-10M	MM	LSZH	2	DLC	DLC	10
	DFJ-2M5-NB-50M	MM	LSZH	2	DLC	DLC	50
	DFJ-2M5-NB-100M	MM	LSZH	2	DLC	DLC	100
	DFJ-2M5-NB-200M	MM	LSZH	2	DLC	DLC	200
2 fiber MM armored jumper	DFJ-2M5A-NB-1M	MM	LSZH	2	DLC	DLC	1
	DFJ-2M5A-NB-2M	MM	LSZH	2	DLC	DLC	2
	DFJ-2M5A-NB-3M	MM	LSZH	2	DLC	DLC	3
	DFJ-2M5A-NB-5M	MM	LSZH	2	DLC	DLC	5
	DFJ-2M5A-NB-10M	MM	LSZH	2	DLC	DLC	10

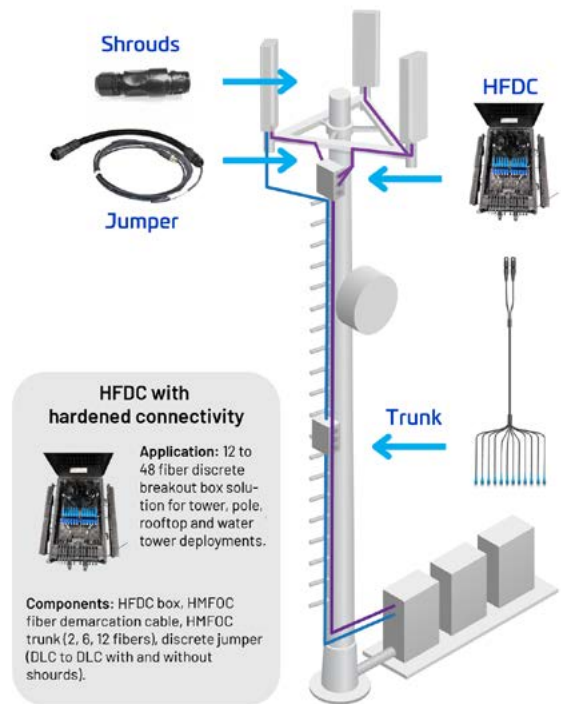
FAMILY	MATERIAL ID	DESCRIPTION
Shrouds	FA-FWS-E-1C	Fullaxs Ericsson
	FA-FWS-AOPC	AOPC Nokia
	FA-FWS-OCTIS	Octis compatible

ENCLOSURE CONNECTIVITY

HFDC with hardened connectivity

Discrete fiber HELIX HMFDC (hardened multiple fiber optical cable)

- Smallest hardened multifiber connector up to 12F, lighter weight, male and female for faster installation.
- IP68 rating, ideal for small cell and rooftop, especially for conduit deployment.
- Compatible with Corning OptiTip®



FAMILY	MATERIAL ID	FIBER TYPE	DESCRIPTION	NUMBER OF FIBERS	NUMBER OF ADAPTERS
HFDC enclosure	HFDC-24FIBER-P24S	SM	HFDC 24F preterminated with HMFDC	24	24
	HFDC-48FIBER-P24S	SM	HFDC 48F preterminated with HMFDC	48	48
	HFDC-EXP12FIBER		Expansion adapter kit for HFDC-24FIBER fiber distribution enclosure, 6DLCs UPC	12	12
	FJ-12LAGBDN-M7		12 fiber expansion fiber with push pull DLCs	12	12

FAMILY	MATERIAL ID	FIBER TYPE	JACKET MATERIAL	NUMBER OF FIBERS	CONNECT OR END 1	CONNECT OR END 2	LENGTH (M)
24-fiber SM trunks	FT-24CGAHBN-030M	SM	CPR Cca	24	HMFDC -12F	DLC Gen 1.5	30
	FT-24CGAHBN-040M	SM	CPR Cca	24	HMFDC -12F	DLC Gen 1.5	40
	FT-24CGAHBN-050M	SM	CPR Cca	24	HMFDC -12F	DLC Gen 1.5	50
2-fiber SM jumper	DFJ-2S5-2G-3M	SM	LSZH	2	DLC Gen 1.5	DLC Gen 1.5	3
	DFJ-2S5-2G-5M	SM	LSZH	2	DLC Gen 1.5	DLC Gen 1.5	5
	DFJ-2S5-2G-7M	SM	LSZH	2	DLC Gen 1.5	DLC Gen 1.5	7
	DFJ-2S5-G-3M	SM	LSZH	2	DLC	DLC Gen 1.5	3
	DFJ-2S5-G-5M	SM	LSZH	2	DLC	DLC Gen 1.5	5
	DFJ-2S5-G-7M	SM	LSZH	2	DLC	DLC Gen 1.5	7

FAMILY	MATERIAL ID	DESCRIPTION
Shrouds	FA-FWS-E-1C	Fullaxs Ericsson
	FA-FWS-AOPC	AOPC Nokia
	FA-FWS-OCTIS	Octis compatible

DLC CONNECTIVITY

TYPE	FAMILY	MATERIAL ID	FIBER TYPE	JACKET MATERIAL	CONNECTOR END 1	CONNECTOR END 2	LENGTH (M)
2 fibers multimode DLCs compatible with AOPC, FULAXS with push pull DLCs AOPC and FULAXS sold separately	2 fibers multimode DLCs compatible with AOPC, FULAXS with push pull DLCs AOPC and FULAXS sold separately	FJ-02TAADDN-001M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	1
		FJ-02TAADDN-002M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	2
		FJ-02TAADDN-003M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	3
		FJ-02TAADDN-004M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	4
		FJ-02TAADDN-005M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	5
		FJ-02TAADDN-006M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	6
		FJ-02TAADDN-007M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	7
		FJ-02TAADDN-008M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	8
		FJ-02TAADDN-009M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	9
		FJ-02TAADDN-010M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	0
		FJ-02TAADDN-015M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	15
		FJ-02TAADDN-020M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	20
		FJ-02TAADDN-025M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	25
		FJ-02TAADDN-030M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	30
		FJ-02TAADDN-035M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	35
		FJ-02TAADDN-040M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	40
		FJ-02TAADDN-050M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	50
		FJ-02TAADDN-060M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	60
		FJ-02TAADDN-070M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	70
		FJ-02TAADDN-080M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	80
FJ-02TAADDN-090M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	90		
FJ-02TAADDN-100M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	100		
FJ-02TAADDN-150M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	150		
FJ-02TAADDN-200M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	200		

DLC CONNECTIVITY

TYPE	FAMILY	MATERIAL ID	FIBER TYPE	JACKET MATERIAL	CONNECTOR END 1	CONNECTOR END 2	LENGTH (M)
2 fibers multimode DLCs with rubber Nokia boot with push pull DLCs	2 fibers multimode DLCs with rubber Nokia boot with push pull DLCs	FJ-02TAADB-001M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	1
		FJ-02TAADB-002M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	2
		FJ-02TAADB-003M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	3
		FJ-02TAADB-004M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	4
		FJ-02TAADB-005M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	5
		FJ-02TAADB-006M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	6
		FJ-02TAADB-007M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	7
		FJ-02TAADB-008M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	8
		FJ-02TAADB-009M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	9
		FJ-02TAADB-010M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	0
		FJ-02TAADB-015M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	15
		FJ-02TAADB-020M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	20
		FJ-02TAADB-025M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	25
		FJ-02TAADB-030M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	30
		FJ-02TAADB-035M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	35
		FJ-02TAADB-040M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	40
		FJ-02TAADB-050M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	50
		FJ-02TAADB-060M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	60
		FJ-02TAADB-070M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	70
		FJ-02TAADB-080M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	80
FJ-02TAADB-090M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	90		
FJ-02TAADB-100M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	100		
FJ-02TAADB-150M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	150		
FJ-02TAADB-200M	MM	LSZH	DLC Gen 1.5	DLC Gen 1.5	200		

DLC CONNECTIVITY

TYPE	FAMILY	MATERIAL ID	FIBER TYPE	JACKET MATERIAL	CONNECTOR END 1	CONNECTOR END 2	LENGTH (M)
2 fibers singlemode DLCs compatible with AOPC, FULAXS with push pull DLCs AOPC/FULAXS sold separately	2 fibers singlemode DLCs compatible with AOPC, FULAXS with push pull DLCs AOPC/FULAXS sold separately	DFJ-2S5-2G-1M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	1
		DFJ-2S5-2G-2M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	2
		DFJ-2S5-2G-3M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	3
		DFJ-2S5-2G-4M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	4
		DFJ-2S5-2G-5M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	5
		DFJ-2S5-2G-6M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	6
		DFJ-2S5-2G-7M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	7
		DFJ-2S5-2G-8M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	8
		DFJ-2S5-2G-9M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	9
		DFJ-2S5-2G-10M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	10
		DFJ-2S5-2G-15M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	15
		DFJ-2S5-2G-20M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	20
		DFJ-2S5-2G-25M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	25
		DFJ-2S5-2G-30M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	30
		DFJ-2S5-2G-35M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	35
		DFJ-2S5-2G-40M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	40
		DFJ-2S5-2G-50M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	50
		DFJ-2S5-2G-60M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	60
		DFJ-2S5-2G-70M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	70
		DFJ-2S5-2G-80M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	80
DFJ-2S5-2G-90M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	90		
DFJ-2S5-2G-100M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	100		
DFJ-2S5-2G-150M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	150		
			SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	200

DLC CONNECTIVITY

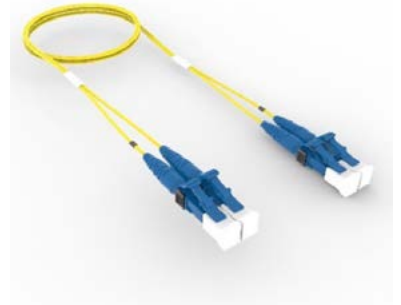
TYPE	FAMILY	MATERIAL ID	FIBER TYPE	JACKET MATERIAL	CONNECTOR END 1	CONNECTOR END 2	LENGTH (M)
2 fibers singlemode DLCs compatible with Octis, with push pull DLC on HFDC side. Octis sold separately	2 fibers singlemode DLCs compatible with Octis, with push pull DLC on HFDC side. Octis sold separately	DFJ-2S5-G-1M	SM	LSZH	DLC Gen 1.5	DLC	1
		DFJ-2S5-G-2M	SM	LSZH	DLC Gen 1.5	DLC	2
		DFJ-2S5-G-3M	SM	LSZH	DLC Gen 1.5	DLC	3
		DFJ-2S5-G-4M	SM	LSZH	DLC Gen 1.5	DLC	4
		DFJ-2S5-G-5M	SM	LSZH	DLC Gen 1.5	DLC	5
		DFJ-2S5-G-6M	SM	LSZH	DLC Gen 1.5	DLC	6
		DFJ-2S5-G-7M	SM	LSZH	DLC Gen 1.5	DLC	7
		DFJ-2S5-G-8M	SM	LSZH	DLC Gen 1.5	DLC	8
		DFJ-2S5-G-9M	SM	LSZH	DLC Gen 1.5	DLC	9
		DFJ-2S5-G-10M	SM	LSZH	DLC Gen 1.5	DLC	10
		DFJ-2S5-G-15M	SM	LSZH	DLC Gen 1.5	DLC	15
		DFJ-2S5-G-20M	SM	LSZH	DLC Gen 1.5	DLC	20
		DFJ-2S5-G-25M	SM	LSZH	DLC Gen 1.5	DLC	25
		DFJ-2S5-G-30M	SM	LSZH	DLC Gen 1.5	DLC	30
		DFJ-2S5-G-35M	SM	LSZH	DLC Gen 1.5	DLC	35
		DFJ-2S5-G-40M	SM	LSZH	DLC Gen 1.5	DLC	40
		DFJ-2S5-G-50M	SM	LSZH	DLC Gen 1.5	DLC	50
		DFJ-2S5-G-60M	SM	LSZH	DLC Gen 1.5	DLC	60
		DFJ-2S5-G-70M	SM	LSZH	DLC Gen 1.5	DLC	70
		DFJ-2S5-G-80M	SM	LSZH	DLC Gen 1.5	DLC	80
DFJ-2S5-G-90M	SM	LSZH	DLC Gen 1.5	DLC	90		
DFJ-2S5-G-100M	SM	LSZH	DLC Gen 1.5	DLC	100		
DFJ-2S5-G-150M	SM	LSZH	DLC Gen 1.5	DLC	150		
DFJ-2S5-G-200M	SM	LSZH	DLC Gen 1.5	DLC	200		

DLC CONNECTIVITY

TYPE	FAMILY	MATERIAL ID	FIBER TYPE	JACKET MATERIAL	CONNECTOR END 1	CONNECTOR END 2	LENGTH (M)
2 fibers singlemode DLCs with rubber Nokia booth with push pull DLCs	2 fibers singlemode DLCs with rubber Nokia booth with push pull DLCs	DFJ-2S5-2GNB-1M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	1
		DFJ-2S5-2GNB-2M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	2
		DFJ-2S5-2GNB-3M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	3
		DFJ-2S5-2GNB-4M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	4
		DFJ-2S5-2GNB-5M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	5
		DFJ-2S5-2GNB-6M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	6
		DFJ-2S5-2GNB-7M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	7
		DFJ-2S5-2GNB-8M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	8
		DFJ-2S5-2GNB-9M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	9
		DFJ-2S5-2GNB-10M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	10
		DFJ-2S5-2GNB-15M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	15
		DFJ-2S5-2GNB-20M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	20
		DFJ-2S5-2GNB-25M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	25
		DFJ-2S5-2GNB-30M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	30
		DFJ-2S5-2GNB-35M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	35
		DFJ-2S5-2GNB-40M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	40
		DFJ-2S5-2GNB-50M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	50
		DFJ-2S5-2GNB-60M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	60
		DFJ-2S5-2GNB-70M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	70
		DFJ-2S5-2GNB-80M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	80
DFJ-2S5-2GNB-90M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	90		
DFJ-2S5-2GNB-100M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	100		
DFJ-2S5-2GNB-150M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	150		
DFJ-2S5-2GNB-200M	SM	LSZH	DLC Gen 1.5	DLC Gen 1.5	200		

PATCH PANELS AND PATCH CORDS

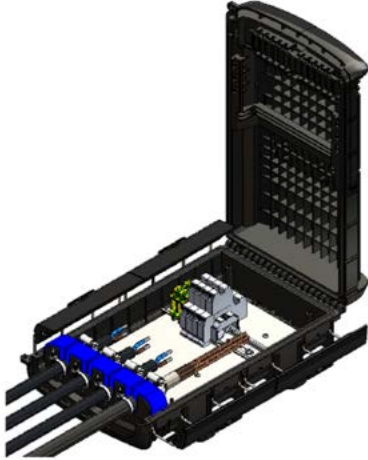


FAMILY	MATERIAL ID	DESCRIPTION
Patch cords	HPC-2S2-M5	CO jumper 2F Uniboot SM LSZH 2MM LC 0.5M
	HPC-2S2-1M	CO jumper 2F Uniboot SM LSZH 2MM LC 1M
	HPC-2S2-2M	CO jumper 2F Uniboot SM LSZH 2MM LC 2M
	HPC-2S2-3M	CO jumper 2F Uniboot SM LSZH 2MM LC 3M
	HPC-2S2-5M	CO jumper 2F Uniboot SM LSZH 2MM LC 5M
	HPC-2S2-7M	CO jumper 2F Uniboot SM LSZH 2MM LC 7M
	HPC-2S2-10M	CO jumper 2F Uniboot SM LSZH 2MM LC 10M



FAMILY	MATERIAL ID	DESCRIPTION
Patch panel	HPP-12FIBER	CO FMS1U 12 LC PP SM
	HPP-24FIBER	CO FMS1U 24 LC PP SM
	HPP-48FIBER	CO FMS1U 48 LC PP SM



HPDC WITH DISCRETE POWER—OVERVIEW

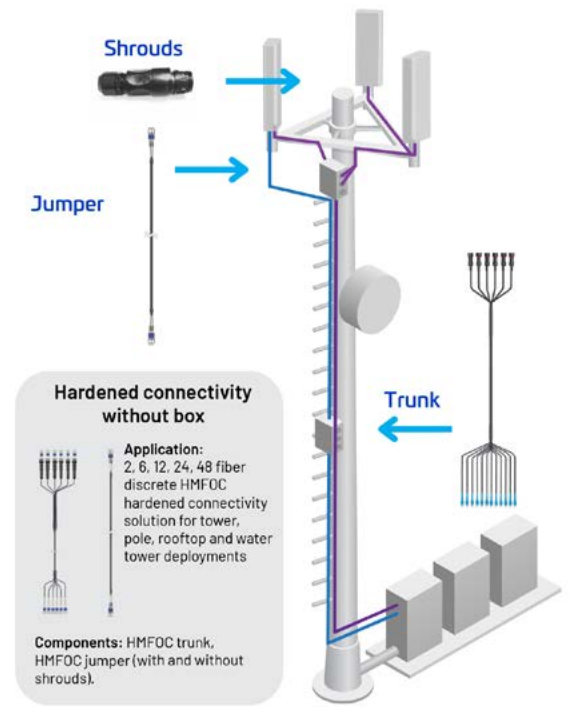
HPDC WITH TERMINALS	HYBRID BREAKOUT BOX	DC POWER CABLE
		
APPLICATION		
<p>3RRU (16 mm² and 25 mm²) power distribution box with terminal blocks for tower, pole, rooftop and water tower deployments</p>	<p>Hybrid box up to eight radios with 32 fibers</p>	<p>1-, 2-, 6-, 12-, 24-fiber DC power conductors for tower, pole, rooftop and water tower deployments</p>
COMPONENTS		
<p>HPDC box, discrete DC trunk, discrete DC jumper</p>	<p>For (1) hybrid trunk, (1) fiber trunk, (1) power trunk, (8) hybrid jumper, grey terminal blocks and (2) grounding blocks</p>	<p>DC power cable</p>

HARDENED CONNECTIVITY

Hardened connectivity—HMFOC

Discrete fiber HELIAX HMFOC (hardened multiple fiber optical cable)

- Smallest hardened multifiber connector up to 12F, lighter weight, male and female for faster installation.
- IP68 rating, ideal for small cell and rooftop, especially for conduit deployment.
- Compatible with Corning OptiTip®



FAMILY	MATERIAL ID	FIBER TYPE	JACKET MATERIAL	NUMBER OF FIBERS	CONNECT OR END 1	CONNECT OR END 2	LENGTH (M)
24-fiber HMFOC trunk—HMFOC 6 fibers connector	FT-24LCAMBN-030M	SM	LSZH	24	HMFOC - 6F	DLC Gen 1.5	30
	FT-24LCAMBN-040M	SM	LSZH	24	HMFOC - 6F	DLC Gen 1.5	40
	FT-24LCAMBN-050M	SM	LSZH	24	HMFOC - 6F	DLC Gen 1.5	50
24-fiber HMFOC trunk—HMFOC 2 fibers connector	FT-24LEAMBN-030M	SM	LSZH	24	HMFOC - 2F	DLC Gen 1.5	30
	FT-24LEAMBN-040M	SM	LSZH	24	HMFOC - 2F	DLC Gen 1.5	40
	FT-24LEAMBN-050M	SM	LSZH	24	HMFOC - 2F	DLC Gen 1.5	50
6 fibers HMFOC jumper	FJ-06LHADGN-003M	SM	LSZH	6	HMFOC - 6F	DLC Gen 1.5	3
	FJ-06LHADGN-005M	SM	LSZH	6	HMFOC - 6F	DLC Gen 1.5	5
	FJ-06LHADGN-010M	SM	LSZH	6	HMFOC - 6F	DLC Gen 1.5	10
6 fibers HMFOC jumper Nokia boot	FJ-06LHADGB-003M	SM	LSZH	6	HMFOC - 6F	DLC Gen 1.5	3
	FJ-06LHADGB-005M	SM	LSZH	6	HMFOC - 6F	DLC Gen 1.5	5
	FJ-06LHADGB-010M	SM	LSZH	6	HMFOC - 6F	DLC Gen 1.5	10
2 fibers HMFOC jumper	FJ-02LNADDN-003M	SM	LSZH	2	HMFOC - 2F	DLC Gen 1.5	3
	FJ-02LNADDN-005M	SM	LSZH	2	HMFOC - 2F	DLC Gen 1.5	5
	FJ-02LNADDN-010M	SM	LSZH	2	HMFOC - 2F	DLC Gen 1.5	10
2 fibers HMFOC jumper Nokia boot	FJ-02LNADDB-003M	SM	LSZH	2	HMFOC - 2F	DLC Gen 1.5	3
	FJ-02LNADDB-005M	SM	LSZH	2	HMFOC - 2F	DLC Gen 1.5	5
	FJ-02LNADDB-010M	SM	LSZH	2	HMFOC - 2F	DLC Gen 1.5	10

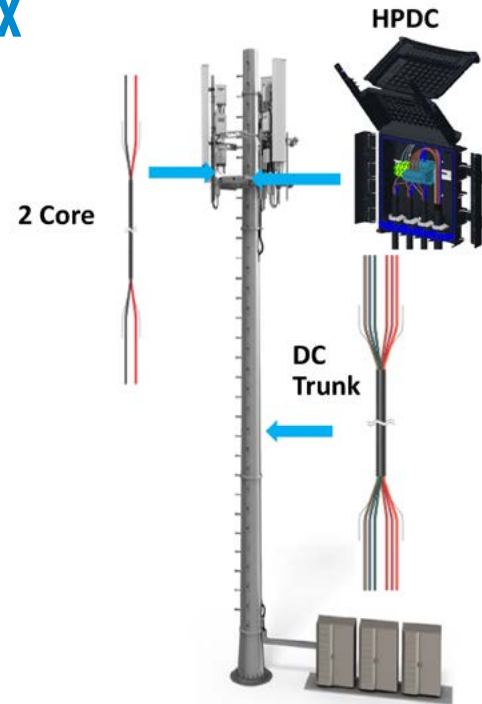
FAMILY	MATERIAL ID	DESCRIPTION
Shrouds	FA-FWS-E-1C	Fullaxs Ericsson
	FA-FWS-AOPC	AOPC Nokia
	FA-FWS-OCTIS	Octis compatible

POWER—HPDC AND HYBRID BREAKOUT BOX

Power—HPDC

FAMILY	MATERIAL ID	DESCRIPTION
HPDC enclosure	HPDC-3POWER	HPDC 3 terminals (16 mm ² and 25 mm ²)

MATERIAL ID	DESCRIPTION
FE-12106-R11	Fiber and power junction box For (1) hybrid trunk, (1) fiber trunk, (1) power trunk, (8) hybrid jumper, grey terminal blocks and (2) grounding blocks



FAMILY	MATERIAL ID	CONDUCTORS QTY	CONDUCTORS SIZE MM ²	COLORS	CPR RATING	DRAIN WIRE CORES SIZE MM2 (QTY 2)	OD MM	WEIGHT KG/KM	SHIELDING MAX RESISTANCE Ω/KM
DC power cable	MPT-A2A-BB-NN-500M	2	6	blue/brown	B2ca	3	9.7	170	4.92
	MPT-A2B-BB-NN-500M	2	10	blue/brown	B2ca	3	11.4	258	4.92
	MPT-A2C-BB-NN-500M	2	16	blue/brown	B2ca	3	13.3	385	4.92
	MPT-A2D-BB-NN-500M	2	25	blue/brown	B2ca	3	16	579	4.92
	MPT-A2E-BB-NN-500M	2	35	blue/brown	B2ca	3	19	830	4.92
	MPT-A2F-BB-NN-500M	2	50	blue/brown	B2ca	3	27.4	1213	4.92
	MPT-F2A-BB-NN-500M	2	6	white/blue	B2ca	3	9.7	170	4.92
	MPT-F2B-BB-NN-500M	2	10	white/blue	B2ca	3	11.4	258	4.92
	MPT-F2C-BB-NN-500M	2	16	white/blue	B2ca	3	13.3	385	4.92
	MPT-F2D-BB-NN-500M	2	25	white/blue	B2ca	3	16	579	4.92
	MPT-F2E-BB-NN-500M	2	35	white/blue	B2ca	3	19	830	4.92
	MPT-F2F-BB-NN-500M	2	50	white/blue	B2ca	3	27.4	1213	4.92
	MPT-E2A-BB-NN-500M	2	6	white/red	B2ca	3	9.7	170	4.92
	MPT-E2B-BB-NN-500M	2	10	white/red	B2ca	3	11.4	258	4.92
	MPT-E2C-BB-NN-500M	2	16	white/red	B2ca	3	13.3	385	4.92
	MPT-E2D-BB-NN-500M	2	25	white/red	B2ca	3	16	579	4.92
	MPT-E2E-BB-NN-500M	2	35	white/red	B2ca	3	19	830	4.92
	MPT-E2F-BB-NN-500M	2	50	white/red	B2ca	3	27.4	1213	4.92
	MPT-G2A-BB-NN-500M	2	6	white/red	B2ca	3	9.7	170	4.92
	MPT-G2B-BB-NN-500M	2	10	white/red	B2ca	5	11.6	326	1.91
MPT-G2C-BB-NN-500M	2	16	white/red	B2ca	8	13.8	494	1.12	

HPDC WITH DISCRETE POWER (continued)

FAMILY	MATERIAL ID	CONDUCTORS QTY	CONDUCTORS SIZE MM ²	COLORS	CPR RATING	DRAIN WIRE CORES SIZE MM ² (QTY 2)	OD MM	WEIGHT KG/KM	SHIELDING MAX RESISTANCE Ω/KM
DC power cable	MPT-G2D-BB-NN-500M	2	25	white/red	B2ca	8	17.2	697	1.12
	MPT-G2E-BB-NN-500M	2	35	white/red	B2ca	8	22.3	973	1.12
	MPT-H2A-BB-NN-500M	2	6	blue/black	B2ca	3	9.7	170	4.92
	MPT-H2B-BB-NN-500M	2	10	blue/black	B2ca	3	11.4	258	4.92
	MPT-H2C-BB-NN-500M	2	16	blue/black	B2ca	3	13.3	385	4.92
	MPT-H2D-BB-NN-500M	2	25	blue/black	B2ca	3	16	579	4.92
	MPT-H2E-BB-NN-500M	2	35	blue/black	B2ca	3	19	830	4.92
	MPT-H2F-BB-NN-500M	2	50	blue/black	B2ca	3	27.4	1213	4.92
	MPT-AXA-BB-NN-500M	12	6	blue/brown	Dca	3	21	942	4.92
	MPT-AXB-BB-NN-500M	12	10	blue/brown	Dca	3	24.5	1430	4.92
	MPT-A6C-BB-NN-500M	6	16	blue/brown	Dca	3	22.7	1207	4.92
	MPT-A6D-BB-NN-500M	6	25	blue/brown	Dca	3	25.7	1690	4.92
	MPT010BBBBNN-1000M*	12	10	blue/black	B2ca	10	25.3	1480	

GROUNDING KIT

FAMILY	MATERIAL ID
Grounding kit	GK-SUNV

Note: Color variants are available upon request

POWER ADAPTER

MATERIAL ID	DESCRIPTION
PCA-16-25MM2-2C	Input cable 16-25 mm ² —output cable 6-10 mm ² —drain wire 6 mm ²



ACCESSORIES

CABLE CATEGORY	MATERIAL ID	CABLE RANGE
Fiber	F-CLAMP-A	4.5-9 mm
Fiber	F-CLAMP-A2	
Fiber	F-CLAMP-E	9-12 mm
Fiber	F-CLAMP-E2	
Power	F-CLAMP-B	7-22 mm
Power	F-CLAMP-B2	
Power	F-CLAMP-C-4B	22-34 mm
Power	F-CLAMP-D-4B	
Feeder	F1-CLAMP-4B	1/4 in
Feeder	F4-CLAMP-4B	1/2 in Superflex
Feeder	L4-CLAMP-4B	1/2 in
Feeder	L5-CLAMP-4B	7/8 in
Feeder	R8-CLAMP-4B	3/8 in
Feeder	L6-CLAMP-4B	1-1/4 in
Feeder	L7-CLAMP-4B	1-5/8 in



F4-CLAMP-4B



L5-CLAMP-4B



F-CLAMP-E2-3B



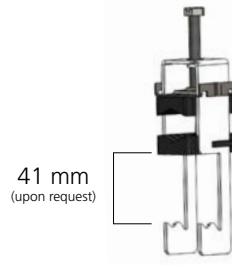
F-CLAMP-A-4B



F-CLAMP-B2-3B



F-CLAMP-E-4B



41 mm
(upon request)

Standard size is 25.5 mm but, upon request, we can provide the 41 mm version as well.

Example material IDs

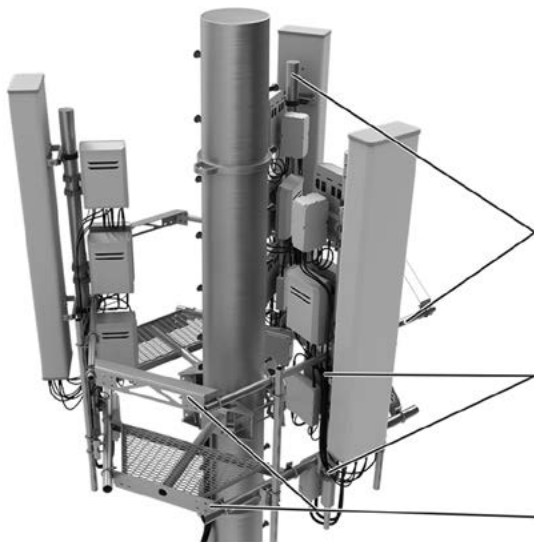
Cable category	Material ID	Cable range
Fiber	F-CLAMP-A-4B-L	4.5-9 mm
Fiber	F-CLAMP-A2-3B-L	
Fiber	F-CLAMP-E-4B-L	9-12 mm
Fiber	F-CLAMP-E2-3B-L	

Contact your ANDREW representative for additional information.

HELIAX® PIM-Guard® applications

PIM-Guard accessories reduce the PIM where it matters most, the high-risk PIM zone exists in close proximity to the antenna: in front, above, below, and even behind it. The zone is defined as:

- 10 feet (3 meters) directly above or below the antenna
- 5 ft (1.5 m) behind the antenna
- 100 ft (30 m) in front of the antenna



Mounting to round member for cable support

Material ID: PGP-CS04, PGP-CS08, PGP-CS10, PGP-CS12, PGP-CS16, PGP-CS18, SA-3C, SA-1C, UHA-3C, FBR-COIL-S

Supporting fiber/power/coax cables

Material ID: SS-411, SSH-1117, SSH-1014, SSH-1416, SSH-47 SSH-710, SWH-200-10, SA-ISO

Mounting to angle iron for cable support



Material ID: UA-3C, SA-3C, UHA-3C, FBR-COIL-S

ACCESSORIES

MATERIAL ID	DESCRIPTION	APPLICATION	USE WITH	ANDREW CABLE SERIES
SnapTak™ adjustable hangers				
SSH-411	Polymer snap-in adjustable hangers	Support cables from 4.0 mm to 11.0 mm in diameter	3/4 in stamped holes, PGP-CS04, PGP-CS08, PGP-CS10, PGP-CS12, PGP-CS16, PGP-CS18, UA-3C, SA-3C, SA-1TR, SA-1C, UHA-3C	DFJ-2S123 FJ-1S,2S,3S,4S,6S,8S, 12S DFJ-2S320 FHBDW-H2 FJ-4MM DFJ FJ-2SM, 4SM FJ-1SM FSJ1 PTS1 DFJ-12S RFFT ATCB-B01 (RET data cable)
SSH-1117	Polymer snap-in adjustable hangers	Support cables from 11.0 mm to 17.0 mm in diameter	3/4 in stamped holes, PGP-CS04, PGP-CS08, PGP-CS10, PGP-CS12, PGP-CS16, PGP-CS18, UA-3C, SA-3C, SA-1TR, SA-1C, UHA-3C	PWRT-212-S LS2 PWRT-312-SC PWRT-208-LI PWRT-210-S FSJ4 HL4 AL4 LDF4 PWRT-208-S
SSH-2630	Polymer snap-in adjustable hangers	Support cables from 26.0 mm to 30.0 mm in diameter	3/4 in stamped holes, PGP-CS04, PGP-CS08, PGP-CS10, PGP-CS12, PGP-CS16, PGP-CS18, UA-3C, SA-3C, SA-1TR, SA-1C, UHA-3C	HFT206-8S PWRT-604-S AVA5
SSH-3642	Polymer snap-in adjustable hangers	Support cables from 36.0 mm to 42.0 mm in diameter	3/4 in stamped holes, PGP-CS04, PGP-CS08, PGP-CS10, PGP-CS12, PGP-CS16, PGP-CS18, UA-3C, SA-3C, SA-1TR, SA-1C, UHA-3C	HFT1206 AVA6
SnapWrap adjustable hanger				
SWH-200-10	Polymer snap-in adjustable wrap hanger	Bundle multiple cable types and sizes into a 1/2 in (12.7 mm) to 2 in (50.8 mm) bundle	3/4 in stamped holes, PGP-CS04, PGP-CS08, PGP-CS10, PGP-CS12, PGP-CS16, PGP-CS18, UA-3C, SA-3C, SA-1TR, SA-1C, UHA-3C	
Cable support brackets				
PGP-CS04, PGP-CS08, PGP-CS10, PGP-CS12, PGP-CS16, PGP-CS18	Polymer 4 to 18 position cable support brackets	Antenna and RRU cable support brackets accommodate 8 to 36 cables. Up to 2 stackable hangers per position	All SnapStak and SnapTak hangers, SWH-200-10	
Angle adapter				
UA-3C	Polymer two-hole angle adapter	Two sets of slots for round member attachment. 3/8 in holes for bolt down attachment. Three 3/4 in holes for Snap-in style hangers	All SnapTak hangers, MCLICK hangers, SWH-200-10	



ACCESSORIES

MATERIAL ID	DESCRIPTION	APPLICATION	USE WITH
Standoff Adapters			
SA-3C	Polymer three-hole standoff adapter	Two sets of slots for round member attachment. 3/8 in holes for bolt-down attachment. Three 3/4 in holes for snap-in style hangers.	All SnapTak hangers, MCLICK hangers, SWH-200-10
SA-1TR	Polymer multifunction one-hole standoff adapter	Snaps into 3/4 in holes or threads into 3/8 in and 1/2 in bolts & U-bolts. One 3/4 in hole for snap-in style hangers.	All SnapTak hangers, MCLICK hangers, SWH-200-10
SA-1C	Polymer one-hole standoff adapter	Round member attachment. One 3/4 in hole for snap-in style hangers.	All SnapTak hangers, SWH-200-10
UHA-3C	Polymer universal three-hole standoff adapter	Round member or angle member attachment. Three 3/4 in holes for snap-in hangers, or locations to mount three grommets or has a 3/8 in holes for threaded rod attachment.	All SnapTak hangers, MCLICK hangers, cable grommets, SWH-200-10
SnapStak isolator			
SA-ISO	Polymer one-hole isolator for snap-in adjustable hangers	Snaps in between hanger and mounting surface, and between stacked hangers to remove metal-to-metal contact.	3/4 in stamped holes, all SnapStak hangers
Excess cable management			
FBR-COIL-S	Engineered plastic fiber coiling reel	Round member or angle member attachment. Accommodates 16 ft (5 m) of excess 7 mm fiber.	5-7 mm fiber cables
Entry panel kit series— Click here for additional information or scan the QR code			
Entry panel series— Click here for additional information or scan the QR code			



Since 1937, ANDREW, an Amphenol company, has driven the evolution of wireless technology. Trusted by mobile network operators and enterprises globally, we work closely with our customers to deliver innovative solutions that enhance connectivity experiences both outdoors and indoors. Our dedicated global team is committed to advancing the industry, fueled by the vision that a better-connected future is possible.



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