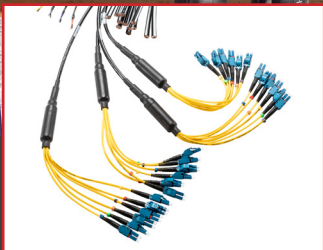




# RADIO FREQUENCY SYSTEMS

## HYBRIFLEX POWER AND FIBER ORDERING GUIDE

Edition 1 / 6.2021



## RADIO FREQUENCY SYSTEMS

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Trust HYBRIFLEX Power and Fiber Solutions  
for faster, easier deployments

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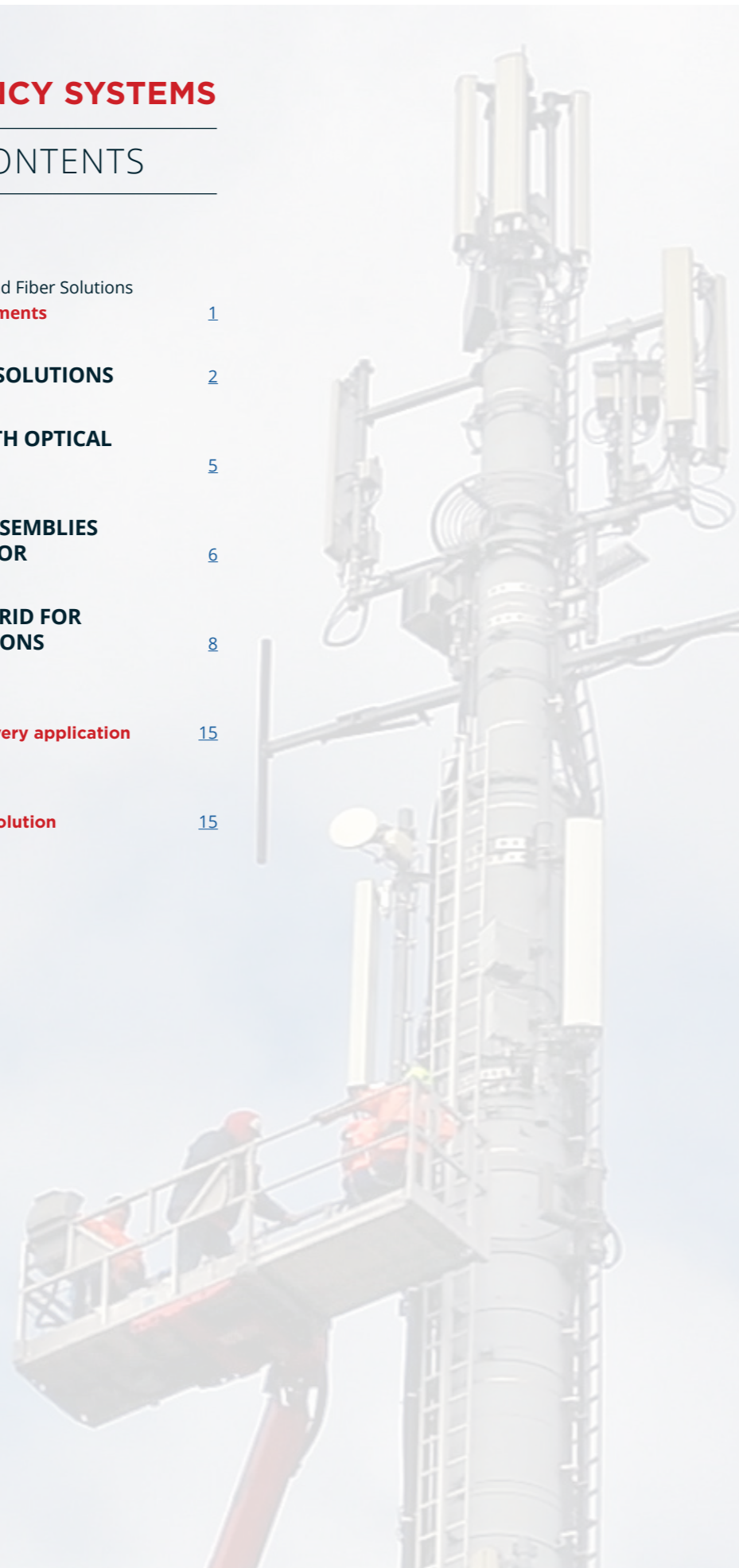
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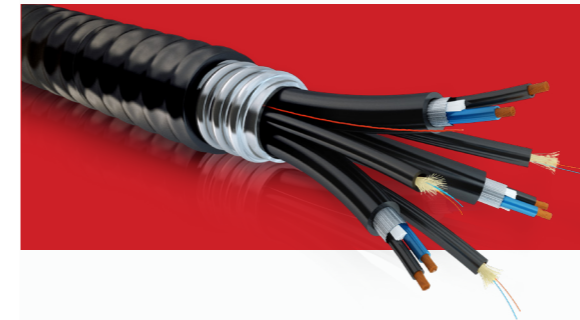
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## TRUST HYBRIFLEX® POWER AND FIBER SOLUTIONS FOR FASTER, EASIER DEPLOYMENTS



More than a decade after we invented the world's first hybrid cabling solution for Remote Radio Heads (RRHs), HYBRIFLEX is helping operators around the world efficiently evolve to 5G and the next generations of wireless technologies.

#### RELY ON FIELD-PROVEN QUALITY AND RELIABILITY

HYBRIFLEX riser and jumper cables encase any combination of power wires, optical fiber and other cable types in a single lightweight and crush-resistant cable. These extensively field-proven cable solutions reduce installation time, complexity and cost.

More than 65 million feet of HYBRIFLEX cables have been deployed worldwide. Using HYBRIFLEX can significantly reduce installation time compared to installing individual power, fiber optic and other cable types.

To ensure easy installation and long life in the field, HYBRIFLEX cables feature:

- Best-in-class bending radius
- Robust, corrugated aluminum or copper-wrapped armor
- Strong core retention force
- Proven corrosion resistance

#### ACCELERATE ANY TECHNOLOGY ROLLOUT

HYBRIFLEX cables support any frequency and any technology to simplify network evolution and protect your investment. Our extremely versatile family of power and fiber cables and jumpers are used in a wide range of applications globally, including:

- High-power 5G radio deployments
- Small cell 5G mmWave radio deployments
- Cloud-RAN (C-RAN) deployments where RRHs are located significant distances from Baseband Units (BBUs)
- In-building Distributed Antenna System (DAS) solutions
- In-tunnel connectivity solutions

#### CUSTOMIZE WITH COMPLETE CONFIDENCE

Our broad portfolio of HYBRIFLEX cabling solutions meets many application requirements. When specific configurations are required, we have the expertise and agility to efficiently adapt our designs to deliver any combination of:

- Riser cables and jumpers: Fiber and power combined or fiber-only, in any lengths
- Power wires: Single or multi-conductor, armored or unarmored, 4 AWG to 20 AWG
- Optical fiber: Single or multi-pair, riser or jumper, single-mode or multi-mode
- Other cable types: Ethernet, twisted pair and small-form coax, to name just a few
- Accessories: Enclosures, clamps, hangers, hoist grips, grounding mechanisms

HYBRIFLEX cables are available with factory-terminated assemblies or as bulk cable.









#### GET THE POWER AND FIBER SOLUTIONS YOU NEED, WHEN YOU NEED THEM

HYBRIFLEX power and fiber solutions are manufactured around the world, and are supported by our global network of distributors, systems integrators and value-added resellers to ensure we can meet any delivery requirements.



## FIBER AND POWER TRUNK SOLUTIONS

### Power Cables

CONFIGURATION	MODEL NUMBER	ALUMINUM ARMOR	PAIRS	MM2
	PW-S-06S3-J	Yes	3	6
	PW-S-10S3-J	Yes	3	10
	PW-S-16S3-J	Yes	3	16
	PW-S-06S6-J	Yes	6	6
	PW-S-10S6-J	Yes	6	10
	PW-S-06U3-J	No	3	6
	PW-S-10U3-J	No	3	10
	PW-S-16U3-J	No	3	16

### 3 F/O Pairs, Single Mode, DLC to ODVA Connectors, includes ODVA inline adapter preinstalled

#### FIBER CONNECT FIBER TRUNK FIXED LENGTH ASSEMBLIES FOR UP TO 3RRU, OX3

MODEL NUMBER	LENGTH	MODEL NUMBER	LENGTH
HA-FOTF-VL-03SM-010-01	10 meter	HA-FOTF-VL-03SM-110-01	110 meter
HA-FOTF-VL-03SM-020-01	20 meter	HA-FOTF-VL-03SM-120-01	120 meter
HA-FOTF-VL-03SM-030-01	30 meter	HA-FOTF-VL-03SM-130-01	130 meter
HA-FOTF-VL-03SM-040-01	40 meter	HA-FOTF-VL-03SM-140-01	140 meter
HA-FOTF-VL-03SM-050-01	50 meter	HA-FOTF-VL-03SM-150-01	150 meter
HA-FOTF-VL-03SM-060-01	60 meter	HA-FOTF-VL-03SM-160-01	160 meter
HA-FOTF-VL-03SM-070-01	70 meter	HA-FOTF-VL-03SM-170-01	170 meter
HA-FOTF-VL-03SM-080-01	80 meter	HA-FOTF-VL-03SM-180-01	180 meter
HA-FOTF-VL-03SM-090-01	90 meter	HA-FOTF-VL-03SM-190-01	190 meter
HA-FOTF-VL-03SM-100-01	100 meter	HA-FOTF-VL-03SM-200-01	200 meter

## FIBER AND POWER TRUNK SOLUTIONS

### 6 F/O Pairs, Single Mode, DLC to ODVA Connectors, includes ODVA inline adapter preinstalled

#### FIBER CONNECT FIBER TRUNK FIXED LENGTH ASSEMBLIES FOR 3RRU, OX6

MODEL NUMBER	LENGTH	MODEL NUMBER	LENGTH
HA-FOTF-VL-06SM-010-01	10 meter	HA-FOTF-VL-06SM-110-01	110 meter
HA-FOTF-VL-06SM-020-01	20 meter	HA-FOTF-VL-06SM-120-01	120 meter
HA-FOTF-VL-06SM-030-01	30 meter	HA-FOTF-VL-06SM-130-01	130 meter
HA-FOTF-VL-06SM-040-01	40 meter	HA-FOTF-VL-06SM-140-01	140 meter
HA-FOTF-VL-06SM-050-01	50 meter	HA-FOTF-VL-06SM-150-01	150 meter
HA-FOTF-VL-06SM-060-01	60 meter	HA-FOTF-VL-06SM-160-01	160 meter
HA-FOTF-VL-06SM-070-01	70 meter	HA-FOTF-VL-06SM-170-01	170 meter
HA-FOTF-VL-06SM-080-01	80 meter	HA-FOTF-VL-06SM-180-01	180 meter
HA-FOTF-VL-06SM-090-01	90 meter	HA-FOTF-VL-06SM-190-01	190 meter
HA-FOTF-VL-06SM-100-01	100 meter	HA-FOTF-VL-06SM-200-01	200 meter

### 12 F/O Pairs, Single Mode, DLC to ODVA Connectors, includes ODVA inline adapter preinstalled

#### FIBER CONNECT FIBER TRUNK FIXED LENGTH ASSEMBLIES FOR 6RRU, OX12

MODEL NUMBER	LENGTH	MODEL NUMBER	LENGTH
HA-FOTF-VL-12SM-010-01	10 meter	HA-FOTF-VL-12SM-110-01	110 meter
HA-FOTF-VL-12SM-020-01	20 meter	HA-FOTF-VL-12SM-120-01	120 meter
HA-FOTF-VL-12SM-030-01	30 meter	HA-FOTF-VL-12SM-130-01	130 meter
HA-FOTF-VL-12SM-040-01	40 meter	HA-FOTF-VL-12SM-140-01	140 meter
HA-FOTF-VL-12SM-050-01	50 meter	HA-FOTF-VL-12SM-150-01	150 meter
HA-FOTF-VL-12SM-060-01	60 meter	HA-FOTF-VL-12SM-160-01	160 meter
HA-FOTF-VL-12SM-070-01	70 meter	HA-FOTF-VL-12SM-170-01	170 meter
HA-FOTF-VL-12SM-080-01	80 meter	HA-FOTF-VL-12SM-180-01	180 meter
HA-FOTF-VL-12SM-090-01	90 meter	HA-FOTF-VL-12SM-190-01	190 meter
HA-FOTF-VL-12SM-100-01	100 meter	HA-FOTF-VL-12SM-200-01	200 meter

### 24 F/O Pairs, Single Mode, DLC to ODVA Connectors, includes ODVA inline adapter preinstalled

#### FIBER CONNECT FIBER TRUNK FIXED LENGTH ASSEMBLIES FOR 12RRU, OX24

MODEL NUMBER	LENGTH	MODEL NUMBER	LENGTH
HA-FOTF-VL-24SM-010-01	10 meter	HA-FOTF-VL-24SM-110-01	110 meter
HA-FOTF-VL-24SM-020-01	20 meter	HA-FOTF-VL-24SM-120-01	120 meter
HA-FOTF-VL-24SM-030-01	30 meter	HA-FOTF-VL-24SM-130-01	130 meter
HA-FOTF-VL-24SM-040-01	40 meter	HA-FOTF-VL-24SM-140-01	140 meter
HA-FOTF-VL-24SM-050-01	50 meter	HA-FOTF-VL-24SM-150-01	150 meter
HA-FOTF-VL-24SM-060-01	60 meter	HA-FOTF-VL-24SM-160-01	160 meter
HA-FOTF-VL-24SM-070-01	70 meter	HA-FOTF-VL-24SM-170-01	170 meter
HA-FOTF-VL-24SM-080-01	80 meter	HA-FOTF-VL-24SM-180-01	180 meter
HA-FOTF-VL-24SM-090-01	90 meter	HA-FOTF-VL-24SM-190-01	190 meter
HA-FOTF-VL-24SM-100-01	100 meter	HA-FOTF-VL-24SM-200-01	200 meter

## FIBER AND POWER TRUNK SOLUTIONS

### Jumper Cables



MODEL NUMBER	LENGTH	MODEL NUMBER	LENGTH	MODEL NUMBER	LENGTH
HA-FOJMP-VL-SM-01	1 m	HA-FOJMP-VN-SM-01	1 m	HA-FOJMP-VB-SM-01	1 m
HA-FOJMP-VL-SM-02	2 m	HA-FOJMP-VN-SM-02	2 m	HA-FOJMP-VB-SM-02	2 m
HA-FOJMP-VL-SM-03	3 m	HA-FOJMP-VN-SM-03	3 m	HA-FOJMP-VB-SM-03	3 m
HA-FOJMP-VL-SM-04	4 m	HA-FOJMP-VN-SM-04	4 m	HA-FOJMP-VB-SM-04	4 m
HA-FOJMP-VL-SM-05	5 m	HA-FOJMP-VN-SM-05	5 m	HA-FOJMP-VB-SM-05	5 m



MODEL NUMBER	LENGTH	MODEL NUMBER	LENGTH
HA-FOJMP-VA-SM-01	1 m	HA-FOJMP-LA-SM-01	1 m
HA-FOJMP-VA-SM-02	2 m	HA-FOJMP-LA-SM-02	2 m
HA-FOJMP-VA-SM-03	3 m	HA-FOJMP-LA-SM-03	3 m
HA-FOJMP-VA-SM-04	4 m	HA-FOJMP-LA-SM-04	4 m
HA-FOJMP-VA-SM-05	5 m	HA-FOJMP-LA-SM-05	5 m

### Common accessories for this solution

IMAGE	PRODUCT TYPE	DESCRIPTION	MODEL NUMBER
	Clamp Linings	Universal Clamp Lining for 7/8" Clamps, covers cables with diameters from 4 - 14 mm	CLINE-78-4/14
	Multiblock Hanger	Single Multi Block Hanger for 3x LCF78, including cleat, kit of 10	MBHS78-3-F
	Fiber Overlength Box 40x40	Fiber Storage Box, Outdoor useable, 400 x 400 mm	HA-FSB-40
	Fiber Overlength Box 60x60	Fiber Storage Box, Outdoor useable, 600 x 600 mm	HA-FSB-60
	Kits	Retrofit Kit ALU to Nokia Radio, consists of 1 FO Jumper, 1 R2CT Adapter and an Installation Instruction	HA-FOPLUG-R2-01
	Patch Panel	Patch panel 19", 24 LC duplex	HA-PP19-LL-24-02
	Patch Cord	Patch cord LC duplex / LC duplex	HA-FOPC-LL-S10-01

## HYBRID POWER DIRECT WITH OPTICAL FIBER JUMPERS

6 DC Pairs, 12 F/O Pairs, 6 AWG, 1-1/4" Single Mode, DLC to ODC, with 10AWG DC breakout top

### HYBRID RISER FIXED LENGTH ASSEMBLIES, 6X12, 6AWG



MODEL NUMBER	LENGTH	MODEL NUMBER	LENGTH
HB114-13U6S12-10M-01	10 meters	HB114-13U6S12-50M-01	50 meters
HB114-13U6S12-20M-01	20 meters	HB114-13U6S12-60M-01	60 meters
HB114-13U6S12-30M-01	30 meters	HB114-13U6S12-70M-01	70 meters
HB114-13U6S12-40M-01	40 meters	HB114-13U6S12-80M-01	80 meters

6 DC Pairs, 12 F/O Pairs, 4 AWG, 1-5/8" Single Mode, DLC to ODC, with 10AWG DC breakout top

### HYBRID RISER FIXED LENGTH ASSEMBLIES 6X12, 4AWG

MODEL NUMBER	LENGTH	MODEL NUMBER	LENGTH
HB158-21U6S12-40M-01	40 meters	HB158-21U6S12-90M-01	90 meters
HB158-21U6S12-50M-01	50 meters	HB158-21U6S12-100M-01	100 meters
HB158-21U6S12-60M-01	60 meters	HB158-21U6S12-110M-01	110 meters
HB158-21U6S12-70M-01	70 meters	HB158-21U6S12-120M-01	120 meters
HB158-21U6S12-80M-01	80 meters	HB158-21U6S12-130M-01	130 meters

6 DC Pairs, 24 F/O Pairs, 4 AWG, 1-5/8" Single Mode, DLC to ODC, with 6AWG DC breakout top

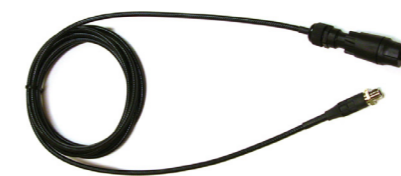
### HYBRID RISER FIXED LENGTH ASSEMBLIES, 6X24, 4AWG



MODEL NUMBER	LENGTH	MODEL NUMBER	LENGTH
HB158-21U6S24-10M	10 meters	HB158-21U6S24-80M	80 meters
HB158-21U6S24-20M	20 meters	HB158-21U6S24-90M	90 meters
HB158-21U6S24-30M	30 meters	HB158-21U6S24-100M	100 meters
HB158-21U6S24-40M	40 meters	HB158-21U6S24-110M	110 meters
HB158-21U6S24-50M	50 meters	HB158-21U6S24-120M	120 meters
HB158-21U6S24-60M	60 meters	HB158-21U6S24-130M	130 meters
HB158-21U6S24-70M	70 meters		

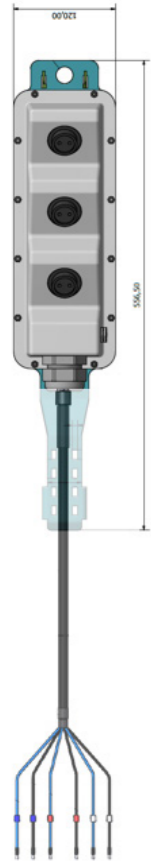
Fiber Only Jumper Assemblies, LC/FullAXS Connectors Top, ODC Connectors Bottom

### SINGLE-MODE FIBER, 1 PAIR, ARMORED



MODEL NUMBER	LENGTH	MODEL NUMBER	LENGTH
HA-FOJBF-OA-01SM-3	3 meter	HA-FOJBF-OA-01SM-20	20 meter
HA-FOJBF-OA-01SM-5	5 meter	HA-FOJBF-OA-01SM-30	30 meter
HA-FOJBF-OA-01SM-10	10 meter		

## FIBER/POWER CONNECT ASSEMBLIES WITH COMPACT DISTRIBUTOR



3 DC pairs 10mm<sup>2</sup> unshielded, includes Compact distributor preassembled

### POWER CONNECT POWER TRUNK FIXED LENGTH ASSEMBLIES FOR 3RRU, 3X0

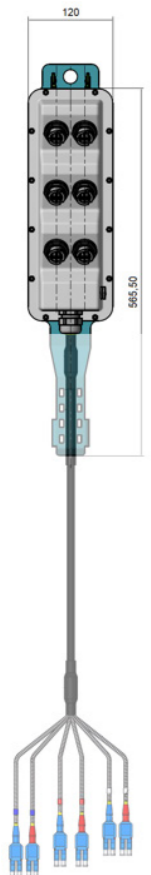
MODEL NUMBER	LENGTH
HA-DCTC-DB-10U3-010	10 meter
HA-DCTC-DB-10U3-015	15 meter
HA-DCTC-DB-10U3-020	20 meter
HA-DCTC-DB-10U3-025	25 meter
HA-DCTC-DB-10U3-030	30 meter
HA-DCTC-DB-10U3-035	35 meter
HA-DCTC-DB-10U3-040	40 meter
HA-DCTC-DB-10U3-050	50 meter
HA-DCTC-DB-10U3-060	60 meter
HA-DCTC-DB-10U3-070	70 meter

**CPR Rated** 🔥 PowerConnect Rating: B2ca s1 d0

3 DC pairs 16mm<sup>2</sup> unshielded, includes Compact distributor preassembled

### POWER CONNECT POWER TRUNK FIXED LENGTH ASSEMBLIES FOR 3RRU, 3X0

MODEL NUMBER	LENGTH
HA-DCTC-DB-16U3-080	80 meter
HA-DCTC-DB-16U3-090	90 meter
HA-DCTC-DB-16U3-100	100 meter



6 F/O Pairs, Single Mode, ODVA Connectors, Compact distributor preassembled

### FIBER CONNECT FIBER TRUNK FIXED LENGTH ASSEMBLIES FOR 3RRU, 0X6

MODEL NUMBER	LENGTH	MODEL NUMBER	LENGTH
HA-FOTC-DL-06SM-010	10 meter	HA-FOTC-DL-06SM-050	50 meter
HA-FOTC-DL-06SM-015	15 meter	HA-FOTC-DL-06SM-060	60 meter
HA-FOTC-DL-06SM-020	20 meter	HA-FOTC-DL-06SM-070	70 meter
HA-FOTC-DL-06SM-025	25 meter	HA-FOTC-DL-06SM-080	80 meter
HA-FOTC-DL-06SM-030	30 meter	HA-FOTC-DL-06SM-090	90 meter
HA-FOTC-DL-06SM-035	35 meter	HA-FOTC-DL-06SM-100	100 meter
HA-FOTC-DL-06SM-040	40 meter		

**CPR Rated** 🔥 FiberConnect Rating: Cca s1 d1 a1



## FIBER/POWER CONNECT ASSEMBLIES WITH COMPACT DISTRIBUTOR

1 DC pair 10mm<sup>2</sup> unshielded

### POWER CONNECT POWER JUMPER FIXED LENGTH ASSEMBLIES, 1X0

MODEL NUMBER	LENGTH	MODEL NUMBER	LENGTH
HA-DCJMP-BM-10-01	1 meter	HA-DCJMP-BM-10-03	3 meter
HA-DCJMP-BM-10-02	2 meter	HA-DCJMP-BM-10-05	5 meter



1 F/O Pair, Single Mode, ODVA to Duplex LC Connectors, ZTE Version

### FIBER CONNECT FIBER JUMPER FIXED LENGTH ASSEMBLIES, 0X1

MODEL NUMBER	LENGTH	MODEL NUMBER	LENGTH
HA-FOJMP-VL-SM-01-Z01	1 meter	HA-FOJMP-VL-SM-03-Z01	3 meter
HA-FOJMP-VL-SM-02-Z01	2 meter	HA-FOJMP-VL-SM-05-Z01	5 meter



### Common Accessories for this Solution

IMAGE	PRODUCT TYPE	DESCRIPTION	MODEL NUMBER
	Protection Cover	Compact Distributor Protection Cover Kit	HA-CDPC-01
	Fiber Overlength Box 40x40	Fiber Storage Box, Outdoor useable, 400 x 400 mm	HA-FSB-40
	Fiber Overlength Box 60x60	Fiber Storage Box, Outdoor useable, 600 x 600 mm	HA-FSB-60
	Patch Panel	Patch panel 19", 24 LC duplex	HA-PP19-LL-24-02
	Patch Cord	Patch cord Duplex LC to Duplex LC Connectors, 1 meter	HA-FOPC-LL-S10-01



## COAXIAL POWER WIRE HYBRID FOR JUNCTION BOX INSTALLATIONS

2 DC Pairs, 4 F/O Pairs, 6 AWG, 7/8" Single-Mode, DLC Connectors, Low Inductance

### HYBRIFLEX® HYBRID RISER FIXED LENGTH ASSEMBLIES, 2X4

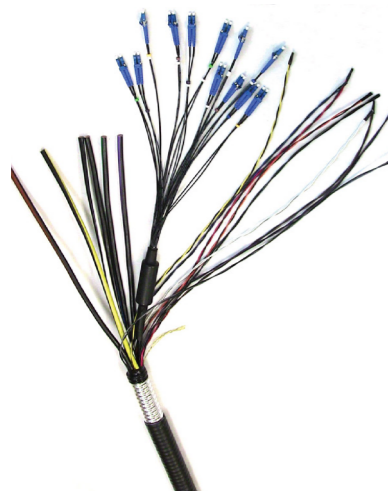


MODEL NUMBER	LENGTH
HBF078-U2S4-30-LI	30 feet
HBF078-U2S4-60-LI	60 feet
HBF078-U2S4-90-LI	90 feet
HBF078-U2S4-120-LI	120 feet
HBF078-U2S4-150-LI	150 feet
HBF078-U2S4-180-LI	180 feet
HBF078-U2S4-210-LI	210 feet
HBF078-U2S4-240-LI	240 feet
HBF078-U2S4-270-LI	270 feet
HBF078-U2S4-300-LI	300 feet
HBF078-U2S4-330-LI	330 feet
HBF078-U2S4-360-LI	360 feet

MODEL NUMBER	LENGTH
HBF078-U2S4-390-LI	390 feet
HBF078-U2S4-420-LI	420 feet
HBF078-U2S4-450-LI	450 feet
HBF078-U2S4-480-LI	480 feet
HBF078-U2S4-510-LI	510 feet
HBF078-U2S4-540-LI	540 feet
HBF078-U2S4-570-LI	570 feet
HBF078-U2S4-600-LI	600 feet
HBF078-U2S4-630-LI	630 feet
HBF078-U2S4-660-LI	660 feet
HBF078-U2S4-690-LI	690 feet

6 DC Pairs, 12 F/O Pairs, 6 AWG, 1-1/4" Single-Mode, DLC Connectors, Low Inductance

### HYBRIFLEX® HYBRID RISER FIXED LENGTH ASSEMBLIES, 6X12



MODEL NUMBER	LENGTH
HB114-U6S12-10-LI	10 feet
HB114-U6S12-20-LI	20 feet
HB114-U6S12-30-LI	30 feet
HB114-U6S12-40-LI	40 feet
HB114-U6S12-50-LI	50 feet
HB114-U6S12-60-LI	60 feet
HB114-U6S12-70-LI	70 feet
HB114-U6S12-80-LI	80 feet
HB114-U6S12-90-LI	90 feet
HB114-U6S12-100-LI	100 feet
HB114-U6S12-110-LI	110 feet
HB114-U6S12-120-LI	120 feet
HB114-U6S12-130-LI	130 feet
HB114-U6S12-140-LI	140 feet
HB114-U6S12-150-LI	150 feet
HB114-U6S12-160-LI	160 feet
HB114-U6S12-170-LI	170 feet
HB114-U6S12-180-LI	180 feet
HB114-U6S12-190-LI	190 feet
HB114-U6S12-200-LI	200 feet
HB114-U6S12-210-LI	210 feet
HB114-U6S12-220-LI	220 feet
HB114-U6S12-230-LI	230 feet
HB114-U6S12-240-LI	240 feet
HB114-U6S12-250-LI	250 feet
HB114-U6S12-260-LI	260 feet
HB114-U6S12-270-LI	270 feet
HB114-U6S12-280-LI	280 feet
HB114-U6S12-290-LI	290 feet
HB114-U6S12-300-LI	300 feet
HB114-U6S12-310-LI	310 feet
HB114-U6S12-320-LI	320 feet
HB114-U6S12-330-LI	330 feet
HB114-U6S12-340-LI	340 feet

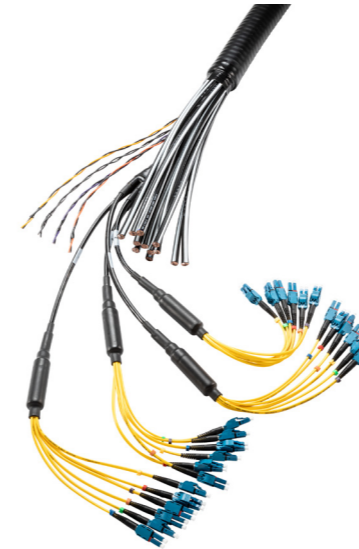
MODEL NUMBER	LENGTH
HB114-U6S12-350-LI	350 feet
HB114-U6S12-360-LI	360 feet
HB114-U6S12-370-LI	370 feet
HB114-U6S12-380-LI	380 feet
HB114-U6S12-390-LI	390 feet
HB114-U6S12-400-LI	400 feet
HB114-U6S12-410-LI	410 feet
HB114-U6S12-420-LI	420 feet
HB114-U6S12-430-LI	430 feet
HB114-U6S12-440-LI	440 feet
HB114-U6S12-450-LI	450 feet
HB114-U6S12-460-LI	460 feet
HB114-U6S12-470-LI	470 feet
HB114-U6S12-480-LI	480 feet
HB114-U6S12-490-LI	490 feet
HB114-U6S12-500-LI	500 feet
HB114-U6S12-510-LI	510 feet
HB114-U6S12-520-LI	520 feet
HB114-U6S12-530-LI	530 feet
HB114-U6S12-540-LI	540 feet
HB114-U6S12-550-LI	550 feet
HB114-U6S12-560-LI	560 feet
HB114-U6S12-570-LI	570 feet
HB114-U6S12-580-LI	580 feet
HB114-U6S12-590-LI	590 feet
HB114-U6S12-600-LI	600 feet
HB114-U6S12-610-LI	610 feet
HB114-U6S12-620-LI	620 feet
HB114-U6S12-700-LI	700 feet
HB114-U6S12-750-LI	750 feet
HB114-U6S12-800-LI	800 feet
HB114-U6S12-850-LI	850 feet
HB114-U6S12-900-LI	900 feet
HB114-U6S12-1000LI	1000 feet



## COAXIAL POWER WIRE HYBRID FOR JUNCTION BOX INSTALLATIONS

12 DC Pairs, 24 F/O Pairs, 6 AWG, 1-5/8" Single Mode, Duplex LC Connectors, Low Inductance

### HYBRIFLEX® HYBRID RISER FIXED LENGTH ASSEMBLIES, 6X24



MODEL NUMBER	LENGTH
HB158-U12S24-10-LI	10 feet
HB158-U12S24-20-LI	20 feet
HB158-U12S24-30-LI	30 feet
HB158-U12S24-40-LI	40 feet
HB158-U12S24-50-LI	50 feet
HB158-U12S24-60-LI	60 feet
HB158-U12S24-70-LI	70 feet
HB158-U12S24-80-LI	80 feet
HB158-U12S24-90-LI	90 feet
HB158-U12S24-100LI	100 feet
HB158-U12S24-110LI	110 feet
HB158-U12S24-120LI	120 feet
HB158-U12S24-130LI	130 feet
HB158-U12S24-140LI	140 feet
HB158-U12S24-150LI	150 feet
HB158-U12S24-160LI	160 feet
HB158-U12S24-170LI	170 feet
HB158-U12S24-180LI	180 feet
HB158-U12S24-190LI	190 feet
HB158-U12S24-200LI	200 feet
HB158-U12S24-210LI	210 feet
HB158-U12S24-220LI	220 feet
HB158-U12S24-230LI	230 feet
HB158-U12S24-240LI	240 feet
HB158-U12S24-250LI	250 feet
HB158-U12S24-260LI	260 feet
HB158-U12S24-270LI	270 feet
HB158-U12S24-280LI	280 feet
HB158-U12S24-290LI	290 feet
HB158-U12S24-300LI	300 feet
HB158-U12S24-310LI	310 feet
HB158-U12S24-320LI	320 feet

MODEL NUMBER	LENGTH
HB158-U12S24-330LI	330 feet
HB158-U12S24-340LI	340 feet
HB158-U12S24-350LI	350 feet
HB158-U12S24-360LI	360 feet
HB158-U12S24-370LI	370 feet
HB158-U12S24-380LI	380 feet
HB158-U12S24-390LI	390 feet
HB158-U12S24-400LI	400 feet
HB158-U12S24-410LI	410 feet
HB158-U12S24-420LI	420 feet
HB158-U12S24-430LI	430 feet
HB158-U12S24-440LI	440 feet
HB158-U12S24-450LI	450 feet
HB158-U12S24-460LI	460 feet
HB158-U12S24-470LI	470 feet
HB158-U12S24-480LI	480 feet
HB158-U12S24-490LI	490 feet
HB158-U12S24-500LI	500 feet
HB158-U12S24-510LI	510 feet
HB158-U12S24-520LI	520 feet
HB158-U12S24-530LI	530 feet
HB158-U12S24-540LI	540 feet
HB158-U12S24-550LI	550 feet
HB158-U12S24-560LI	560 feet
HB158-U12S24-570LI	570 feet
HB158-U12S24-580LI	580 feet
HB158-U12S24-590LI	590 feet
HB158-U12S24-600LI	600 feet
HB158-U12S24-610LI	610 feet
HB158-U12S24-620LI	620 feet
HB158-U12S24-700LI	700 feet

### COAXIAL POWER WIRE

Coaxial cable wire is also known as concentric or low inductance wire. Each wire has two conductors that act as a traditional pair. Coaxial power wire due to its low inductance benefits, may allow for extending the overall cable assembly length utilizing the same wire gauge, compared to traditional power wire, before voltage drop demands larger wire gauge.

In a 6AWG wire example, the limiting factor is inductance which should be < 0.2uH/m:

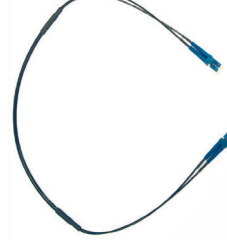
- Conventional 6AWG wire inductance ~ 0.5uH/m
- Coaxial ~ 0.1uH/m inductance design



## COAXIAL POWER WIRE HYBRID FOR JUNCTION BOX INSTALLATIONS

Fiber Only Jumper Assemblies, LC Connectors Top, LC Connectors Bottom

**SINGLE-MODE FIBER,  
1 PAIR**



MODEL NUMBER	LENGTH
FR-N-1SM-01-1F	1
FR-N-1SM-01-2F	2
FR-N-1SM-01-3F	3
FR-N-1SM-01-4F	4
FR-N-1SM-01-6F	6
FR-N-1SM-01-8F	8
FR-N-1SM-01-10F	10
FR-N-1SM-01-15F	15
FR-N-1SM-01-20F	20
FR-N-1SM-01-30F	30
FR-N-1SM-01-40F	40
FR-N-1SM-01-50F	50
FR-N-1SM-01-60F	60
FR-N-1SM-01-70F	70
FR-N-1SM-01-80F	80
FR-N-1SM-01-90F	90
FR-N-1SM-01-100F	100

**SINGLE-MODE FIBER,  
1 STRAND**



MODEL NUMBER	LENGTH
FR-N-1SSM-01-10F	10
FR-N-1SSM-01-20F	20
FR-N-1SSM-01-30F	30
FR-N-1SSM-01-40F	40
FR-N-1SSM-01-50F	50
FR-N-1SSM-01-60F	60
FR-N-1SSM-01-70F	70
FR-N-1SSM-01-80F	80
FR-N-1SSM-01-90F	90
FR-N-1SSM-01-100F	100

**SINGLE-MODE FIBER,  
2 STRAND**



MODEL NUMBER	LENGTH
FR-N-2SSM-01-10F	10
FR-N-2SSM-01-20F	20
FR-N-2SSM-01-30F	30
FR-N-2SSM-01-40F	40
FR-N-2SSM-01-50F	50
FR-N-2SSM-01-60F	60
FR-N-2SSM-01-70F	70
FR-N-2SSM-01-80F	80
FR-N-2SSM-01-90F	90
FR-N-2SSM-01-100F	100

**SINGLE-MODE FIBER,  
6 PAIR**



MODEL NUMBER	LENGTH
FR-N-6SM-01-3F	3
FR-N-6SM-01-4F	4
FR-N-6SM-01-6F	6
FR-N-6SM-01-8F	8
FR-N-6SM-01-10F	10
FR-N-6SM-01-15F	15
FR-N-6SM-01-20F	20
FR-N-6SM-01-30F	30
FR-N-6SM-01-40F	40

**SINGLE-MODE FIBER,  
6 PAIR**



MODEL NUMBER	LENGTH
FR-N-12SM-01-3F	3
FR-N-12SM-01-4F	4
FR-N-12SM-01-6F	6
FR-N-12SM-01-8F	8
FR-N-12SM-01-10F	10
FR-N-12SM-01-15F	15
FR-N-12SM-01-20F	20
FR-N-12SM-01-30F	30

**SINGLE-MODE FIBER,  
2 PAIR**



MODEL NUMBER	LENGTH
FR-N-2SM-01-10F	10
FR-N-2SM-01-20F	20
FR-N-2SM-01-30F	30
FR-N-2SM-01-40F	40
FR-N-2SM-01-50F	50
FR-N-2SM-01-60F	60
FR-N-2SM-01-70F	70
FR-N-2SM-01-80F	80
FR-N-2SM-01-90F	90
FR-N-2SM-01-100F	100

**SINGLE-MODE FIBER,  
3 PAIR**



MODEL NUMBER	LENGTH
FR-N-3SM-01-3F	3
FR-N-3SM-01-4F	4
FR-N-3SM-01-6F	6
FR-N-3SM-01-8F	8
FR-N-3SM-01-10F	10
FR-N-3SM-01-15F	15
FR-N-3SM-01-20F	20
FR-N-3SM-01-30F	30
FR-N-3SM-01-50F	50
FR-N-2SM-01-100F	100

## COAXIAL POWER WIRE HYBRID FOR JUNCTION BOX INSTALLATIONS

Hybrid Jumper Assemblies, LC Connectors Top, LC Connectors Bottom

**1/2" OD, UL  
1 PAIR 10AWG DC  
1 PAIR SM FIBER**



MODEL NUMBER	LENGTH
HBF012-05U1S1-10F	10
HBF012-05U1S1-20F	20
HBF012-05U1S1-30F	30
HBF012-05U1S1-40F	40
HBF012-05U1S1-50F	50
HBF012-05U1S1-60F	60
HBF012-05U1S1-70F	70
HBF012-05U1S1-80F	80
HBF012-05U1S1-90F	90
HBF012-05U1S1-100F	100

**1/2" OD, UL  
1 PAIR 10AWG DC  
2 STRAND SM FIBER**



MODEL NUMBER	LENGTH
HBF012-05U1SS2-10F	10
HBF012-05U1SS2-20F	20
HBF012-05U1SS2-30F	30
HBF012-05U1SS2-40F	40
HBF012-05U1SS2-50F	50
HBF012-05U1SS2-60F	60
HBF012-05U1SS2-70F	70
HBF012-05U1SS2-80F	80
HBF012-05U1SS2-90F	90
HBF012-05U1SS2-100F	100

**5/8" OD, UL  
1 PAIR 8 AWG DC  
1 PAIR SM FIBER**



MODEL NUMBER	LENGTH
HBF058-08U1S1-3F	3
HBF058-08U1S1-5F	5
HBF058-08U1S1-6F	6
HBF058-08U1S1-8F	8
HBF058-08U1S1-9F	9
HBF058-08U1S1-10F	10
HBF058-08U1S1-12F	12
HBF058-08U1S1-14F	14
HBF058-08U1S1-15F	15
HBF058-08U1S1-20F	20
HBF058-08U1S1-25F	25
HBF058-08U1S1-30F	30
HBF058-08U1S1-40F	40
HBF058-08U1S1-50F	50
HBF058-08U1S1-60F	60
HBF058-08U1S1-70F	70
HBF058-08U1S1-80F	80
HBF058-08U1S1-90F	90
HBF058-08U1S1-100F	100
HBF058-08U1S1-125F	125
HBF058-08U1S1-150F	150
HBF058-08U1S1-175F	175
HBF058-08U1S1-200F	200
HBF058-08U1S1-300F	300
HBF058-08U1S1-400F	400

**1/2" OD, UL  
1 PAIR 10AWG DC  
2 PAIR SM FIBER**



MODEL NUMBER	LENGTH
HBF012-05U1S2-10F	10
HBF012-05U1S2-20F	20
HBF012-05U1S2-30F	30
HBF012-05U1S2-40F	40
HBF012-05U1S2-50F	50
HBF012-05U1S2-60F	60
HBF012-05U1S2-70F	70
HBF012-05U1S2-80F	80
HBF012-05U1S2-90F	90
HBF012-05U1S2-100F	100

**5/8" OD, UL  
1 PAIR 8 AWG DC  
2 PAIR SM FIBER**



MODEL NUMBER	LENGTH
HBF058-08U1S2-3F1	3
HBF058-08U1S2-5F1	5
HBF058-08U1S2-6F1	6
HBF058-08U1S2-8F1	8
HBF058-08U1S2-9F1	9
HBF058-08U1S2-10F1	10
HBF058-08U1S2-12F1	12
HBF058-08U1S2-15F1	15
HBF058-08U1S2-20F1	20
HBF058-08U1S2-25F1	25
HBF058-08U1S2-30F1	30
HBF058-08U1S2-40F1	40
HBF058-08U1S2-50F1	50
HBF058-08U1S2-60F1	60
HBF058-08U1S2-70F1	70
HBF058-08U1S2-80F1	80
HBF058-08U1S2-90F1	90
HBF058-08U1S2-100F1	100
HBF058-08U1S2-200F1	200
HBF058-08U1S2-300F1	300
HBF058-08U1S2-400F1	400

**5/8" OD, UL  
1 PAIR 8 AWG DC  
1 STRAND SM FIBER**



MODEL NUMBER	LENGTH
HBF058-08U1SS-08F1	8
HBF058-08U1SS-12F1	12
HBF058-08U1SS-15F1	15
HBF058-08U1SS-20F1	20
HBF058-08U1SS-30F1	30

**5/8" OD, UL  
1 PAIR 8 AWG DC  
2 STRAND SM FIBER**



MODEL NUMBER	LENGTH
HBF058-08U1SS2-10F1	10
HBF058-08U1SS2-20F1	20
HBF058-08U1SS2-30F1	30
HBF058-08U1SS2-40F1	40
HBF058-08U1SS2-50F1	50
HBF058-08U1SS2-60F1	60
HBF058-08U1SS2-70F1	70
HBF058-08U1SS2-80F1	80
HBF058-08U1SS2-90F1	90
HBF058-08U1SS2-100F1	100

## COAXIAL POWER WIRE HYBRID FOR JUNCTION BOX INSTALLATIONS

### Fiber Only Jumper Assemblies, LC/FULLAXS Connectors Top, LC Connectors Bottom

**SINGLE-MODE FIBER,  
1 PAIR**



MODEL NUMBER	LENGTH
FR-N-1SM-01-10F1	10
FR-N-1SM-01-20F1	20
FR-N-1SM-01-30F1	30
FR-N-1SM-01-40F1	40
FR-N-1SM-01-50F1	50
FR-N-1SM-01-60F1	60
FR-N-1SM-01-70F1	70
FR-N-1SM-01-80F1	80
FR-N-1SM-01-90F1	90
FR-N-1SM-01-100F1	100

**SINGLE-MODE FIBER,  
1 STRAND**



MODEL NUMBER	LENGTH
FR-N-1SSM-01-10F1	10
FR-N-1SSM-01-20F1	20
FR-N-1SSM-01-30F1	30
FR-N-1SSM-01-40F1	40
FR-N-1SSM-01-50F1	50
FR-N-1SSM-01-60F1	60
FR-N-1SSM-01-70F1	70
FR-N-1SSM-01-80F1	80
FR-N-1SSM-01-90F1	90
FR-N-1SSM-01-100F1	100

**SINGLE-MODE FIBER,  
2 PAIR**



MODEL NUMBER	LENGTH
FR-N-2SM-01-10F1	10
FR-N-2SM-01-20F1	20
FR-N-2SM-01-30F1	30
FR-N-2SM-01-40F1	40
FR-N-2SM-01-50F1	50
FR-N-2SM-01-60F1	60
FR-N-2SM-01-70F1	70
FR-N-2SM-01-80F1	80
FR-N-2SM-01-90F1	90
FR-N-2SM-01-100F1	100

**SINGLE-MODE FIBER,  
2 STRAND**



MODEL NUMBER	LENGTH
FR-N-2SSM-01-10F1	10
FR-N-2SSM-01-20F1	20
FR-N-2SSM-01-30F1	30
FR-N-2SSM-01-40F1	40
FR-N-2SSM-01-50F1	50
FR-N-2SSM-01-60F1	60
FR-N-2SSM-01-70F1	70
FR-N-2SSM-01-80F1	80
FR-N-2SSM-01-90F1	90
FR-N-2SSM-01-100F1	100

**SINGLE-MODE FIBER,  
3 PAIR**



MODEL NUMBER	LENGTH
FR-N-3SM-01-10F1	10
FR-N-3SM-01-20F1	20
FR-N-3SM-01-30F1	30
FR-N-3SM-01-40F1	40
FR-N-3SM-01-50F1	50
FR-N-3SM-01-60F1	60
FR-N-3SM-01-70F1	70
FR-N-3SM-01-80F1	80
FR-N-3SM-01-90F1	90
FR-N-3SM-01-100F1	100

**SINGLE-MODE FIBER,  
3 STRAND**



MODEL NUMBER	LENGTH
FR-N-3SSM-01-10F1	10
FR-N-3SSM-01-20F1	20
FR-N-3SSM-01-30F1	30
FR-N-3SSM-01-40F1	40
FR-N-3SSM-01-50F1	50
FR-N-3SSM-01-60F1	60
FR-N-3SSM-01-70F1	70
FR-N-3SSM-01-80F1	80
FR-N-3SSM-01-90F1	90
FR-N-3SSM-01-100F1	100

**SINGLE-MODE FIBER,  
4 PAIR**



MODEL NUMBER	LENGTH
FR-N-4SM-01-10F1	10
FR-N-4SM-01-20F1	20
FR-N-4SM-01-30F1	30
FR-N-4SM-01-40F1	40
FR-N-4SM-01-50F1	50
FR-N-4SM-01-60F1	60
FR-N-4SM-01-70F1	70
FR-N-4SM-01-80F1	80
FR-N-4SM-01-90F1	90
FR-N-4SM-01-100F1	100

**SINGLE-MODE FIBER,  
4 STRAND**



MODEL NUMBER	LENGTH
FR-N-4SSM-01-10F1	10
FR-N-4SSM-01-20F1	20
FR-N-4SSM-01-30F1	30
FR-N-4SSM-01-40F1	40
FR-N-4SSM-01-50F1	50
FR-N-4SSM-01-60F1	60
FR-N-4SSM-01-70F1	70
FR-N-4SSM-01-80F1	80
FR-N-4SSM-01-90F1	90
FR-N-4SSM-01-100F1	100

### Hybrid Jumper Assemblies, LC/FULLAXS Connectors Top, LC Connectors Bottom

**5/8" OD, UL  
1 PAIR 8AWG DC  
1 PAIR SM FIBER**



MODEL NUMBER	LENGTH
HBFO58-08U1S1-10F1	10
HBFO58-08U1S1-15F1	15
HBFO58-08U1S1-20F1	20
HBFO58-08U1S1-30F1	30
HBFO58-08U1S1-40F1	40
HBFO58-08U1S1-50F1	50
HBFO58-08U1S1-60F1	60
HBFO58-08U1S1-70F1	70
HBFO58-08U1S1-80F1	80
HBFO58-08U1S1-90F1	90
HBFO58-08U1S1-100F1	100

**5/8" OD, UL  
1 PAIR 8AWG DC  
2 PAIR SM FIBER**

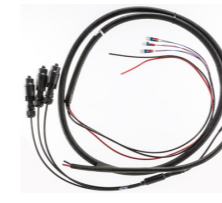


MODEL NUMBER	LENGTH
HBFO58-08U1S2-8F	8
HBFO58-08U1S2-10F	10
HBFO58-08U1S2-12F	12
HBFO58-08U1S2-15F	15
HBFO58-08U1S2-20F	20
HBFO58-08U1S2-25F	25
HBFO58-08U1S2-30F	30
HBFO58-08U1S2-40F	40
HBFO58-08U1S2-50F	50
HBFO58-08U1S2-60F	60
HBFO58-08U1S2-70F	70
HBFO58-08U1S2-80F	80
HBFO58-08U1S2-90F	90
HBFO58-08U1S2-100F	100

## COAXIAL POWER WIRE HYBRID FOR JUNCTION BOX INSTALLATIONS

### Hybrid Jumper Assemblies, LC/FULLAXS Connectors Top, LC Connectors Bottom

**5/8" OD, UL  
1 PAIR 8AWG DC  
3 PAIR SM FIBER**



MODEL NUMBER	LENGTH
HBFO58-08U1S3-10F	10
HBFO58-08U1S3-20F	20
HBFO58-08U1S3-30F	30
HBFO58-08U1S3-40F	40
HBFO58-08U1S3-50F	50
HBFO58-08U1S3-60F	60
HBFO58-08U1S3-70F	70
HBFO58-08U1S3-80F	80
HBFO58-08U1S3-90F	90
HBFO58-08U1S3-100F	100

**5/8" OD, UL  
1 PAIR 8AWG DC  
4 PAIR SM FIBER**



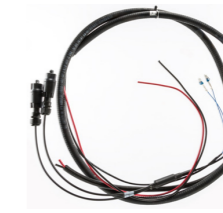
MODEL NUMBER	LENGTH
HBFO58-08U1S4-10F	10
HBFO58-08U1S4-20F	20
HBFO58-08U1S4-30F	30
HBFO58-08U1S4-40F	40
HBFO58-08U1S4-50F	50
HBFO58-08U1S4-60F	60
HBFO58-08U1S4-70F	70
HBFO58-08U1S4-80F	80
HBFO58-08U1S4-90F	90
HBFO58-08U1S4-100F	100

**5/8" OD, UL  
1 PAIR 8AWG DC  
1 STRAND SM FIBER**



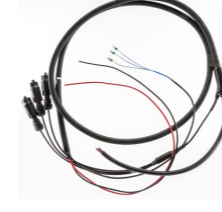
MODEL NUMBER	LENGTH
HBFO58-08U1S5-08F	8
HBFO58-08U1S5-12F	12
HBFO58-08U1S5-15F	15
HBFO58-08U1S5-20F	20
HBFO58-08U1S5-30F	30

**5/8" OD, UL  
1 PAIR 8AWG DC  
2 STRAND SM FIBER**



MODEL NUMBER	LENGTH
HBFO58-08U1S52-10F	10
HBFO58-08U1S52-20F	20
HBFO58-08U1S52-30F	30
HBFO58-08U1S52-40F	40
HBFO58-08U1S52-50F	50
HBFO58-08U1S52-60F	60
HBFO58-08U1S52-70F	70
HBFO58-08U1S52-80F	80
HBFO58-08U1S52-90F	90
HBFO58-08U1S52-100F	100

**5/8" OD, UL  
1 PAIR 8AWG DC  
3 STRAND SM FIBER**



MODEL NUMBER	LENGTH
HBFO58-08U1S53-10F	10
HBFO58-08U1S53-20F	20
HBFO58-08U1S53-30F	30
HBFO58-08U1S53-40F	40
HBFO58-08U1S53-50F	50
HBFO58-08U1S53-60F	60
HBFO58-08U1S53-70F	70
HBFO58-08U1S53-80F	80
HBFO58-08U1S53-90F	90
HBFO58-08U1S53-100F	100

**5/8" OD, UL  
1 PAIR 8AWG DC  
4 STRAND SM FIBER**



MODEL NUMBER	LENGTH
HBFO58-08U1S54-10F	10
HBFO58-08U1S54-20F	20
HBFO58-08U1S54-30F	30
HBFO58-08U1S54-40F	40
HBFO58-08U1S54-50F	50
HBFO58-08U1S54-60F	60
HBFO58-08U1S54-70F	70
HBFO58-08U1S54-80F	80
HBFO58-08U1S54-90F	90
HBFO58-08U1S54-100F	100

**5/8" OD, UL  
2 PAIR 8AWG DC  
1 PAIR SM FIBER**



MODEL NUMBER	LENGTH
HBFO58-08U2S1-08FY	8
HBFO58-08U2S1-12FY	12
HBFO58-08U2S1-15FY	15
HBFO58-08U2S1-20FY	20
HBFO58-08U2S1-30FY	30
HBFO58-08U2S1-50FY	50

**5/8" OD, UL  
2 PAIR 8AWG DC  
2 PAIR SM FIBER**



MODEL NUMBER	LENGTH
HBFO58-08U2S2-08FY	8
HBFO58-08U2S2-12FY	12
HBFO58-08U2S2-15FY	15
HBFO58-08U2S2-20FY	20
HBFO58-08U2S2-30FY	30
HBFO58-08U2S2-50FY	50

**5/8" OD, UL  
2 PAIR 8AWG DC  
1 STRAND SM FIBER**



MODEL NUMBER	LENGTH
HBFO58-08U2S5-08FY	8
HBFO58-08U2S5-12FY	12
HBFO58-08U2S5-15FY	15
HBFO58-08U2S5-20FY	20
HBFO58-08U2S5-30FY	30

**5/8" OD, UL  
2 PAIR 8AWG DC  
2 STRAND SM FIBER**



MODEL NUMBER	LENGTH
HBFO58-08U2S52--10FY	10
HBFO58-08U2S52-20FY	20
HBFO58-08U2S52-30FY	30
HBFO58-08U2S52-40FY	40
HBFO58-08U2S52-50FY	50
HBFO58-08U2S52-60FY	60
HBFO58-08U2S52-70FY	70
HBFO58-08U2S52-80FY	80
HBFO58-08U2S52-90FY	90
HBFO58-08U2S52-100FY	100



## COAXIAL POWER WIRE HYBRID FOR JUNCTION BOX INSTALLATIONS

Fiber Only Jumper Assemblies, Elongated LC Connectors Top, LC Connectors Bottom

**SINGLE-MODE FIBER,  
1 PAIR**



MODEL NUMBER	LENGTH
FR-N-1SM-01-10FS	10
FR-N-1SM-01-20FS	20
FR-N-1SM-01-30FS	30
FR-N-1SM-01-40FS	40
FR-N-1SM-01-50FS	50
FR-N-1SM-01-60FS	60
FR-N-1SM-01-70FS	70
FR-N-1SM-01-80FS	80
FR-N-1SM-01-90FS	90
FR-N-1SM-01-100FS	100

**SINGLE-MODE FIBER,  
2 PAIR**



MODEL NUMBER	LENGTH
FR-N-2SM-01-10FS	10
FR-N-2SM-01-20FS	20
FR-N-2SM-01-30FS	30
FR-N-2SM-01-40FS	40
FR-N-2SM-01-50FS	50
FR-N-2SM-01-60FS	60
FR-N-2SM-01-70FS	70
FR-N-2SM-01-80FS	80
FR-N-2SM-01-90FS	90
FR-N-2SM-01-100FS	100

**SINGLE-MODE FIBER,  
1 STRAND**



MODEL NUMBER	LENGTH
FR-N-1SSM-01-10FS	10
FR-N-1SSM-01-20FS	20
FR-N-1SSM-01-30FS	30
FR-N-1SSM-01-40F1	40
FR-N-1SSM-01-50FS	50
FR-N-1SSM-01-60FS	60
FR-N-1SSM-01-70FS	70
FR-N-1SSM-01-80FS	80
FR-N-1SSM-01-90FS	90
FR-N-1SSM-01-100FS	100

**SINGLE-MODE FIBER,  
2 STRAND**



MODEL NUMBER	LENGTH
FR-N-2SSM-01-10FS	10
FR-N-2SSM-01-20FS	20
FR-N-2SSM-01-30FS	30
FR-N-2SSM-01-40FS	40
FR-N-2SSM-01-50FS	50
FR-N-2SSM-01-60F1	60
FR-N-2SSM-01-70FS	70
FR-N-2SSM-01-80FS	80
FR-N-2SSM-01-90FS	90
FR-N-2SSM-01-100FS	100

Hybrid Jumper Assemblies, Elongated LC Connectors Top, LC Connectors Bottom

**5/8" OD, UL  
1 PAIR 8AWG DC  
1 PAIR SM FIBER**



MODEL NUMBER	LENGTH
HBFO58-08U1S1-10FS	10
HBFO58-08U1S1-20FS	20
HBFO58-08U1S1-30FS	30
HBFO58-08U1S1-40FS	40
HBFO58-08U1S1-50FS	50
HBFO58-08U1S1-60FS	60
HBFO58-08U1S1-70FS	70
HBFO58-08U1S1-80FS	80
HBFO58-08U1S1-90FS	90
HBFO58-08U1S1-100FS	100

**5/8" OD, UL  
1 PAIR 8AWG DC  
2 PAIR SM FIBER**



MODEL NUMBER	LENGTH
HBFO58-08U1S2-10FS	10
HBFO58-08U1S2-20FS	20
HBFO58-08U1S2-30FS	30
HBFO58-08U1S2-40FS	40
HBFO58-08U1S2-50FS	50
HBFO58-08U1S2-60FS	60
HBFO58-08U1S2-70FS	70
HBFO58-08U1S2-80FS	80
HBFO58-08U1S2-90FS	90
HBFO58-08U1S2-100FS	100

**5/8" OD, UL  
1 PAIR 8AWG DC  
1 STRAND SM FIBER**



MODEL NUMBER	LENGTH
HBFO58-08U1SS-10FS	10
HBFO58-08U1SS-20FS	20
HBFO58-08U1SS-30FS	30
HBFO58-08U1SS-40F1	40
HBFO58-08U1SS-50FS	50
HBFO58-08U1SS-60FS	60
HBFO58-08U1SS-70FS	70
HBFO58-08U1SS-80FS	80
HBFO58-08U1SS-90FS	90
HBFO58-08U1SS-100FS	100

**5/8" OD, UL  
1 PAIR 8AWG DC  
2 STRAND SM FIBER**



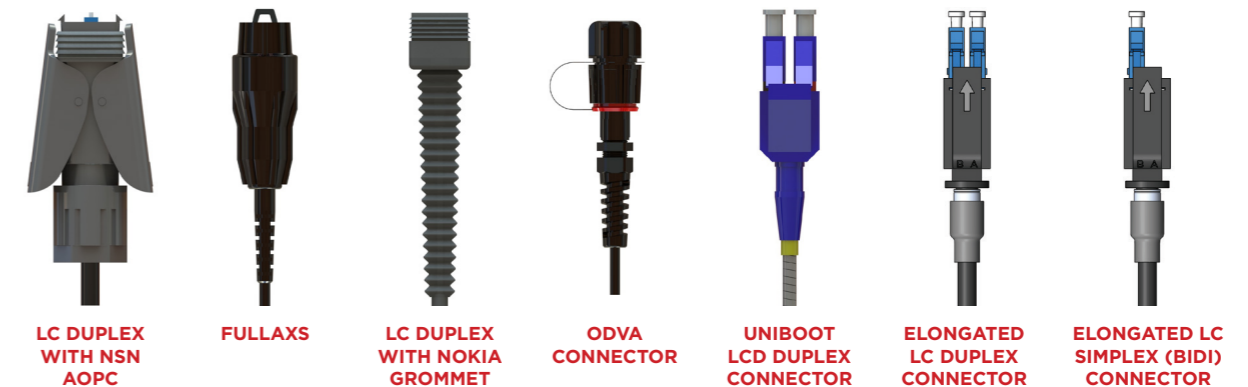
MODEL NUMBER	LENGTH
HBFO58-08U1SS2-10FS	10
HBFO58-08U1SS2-20FS	20
HBFO58-08U1SS2-30FS	30
HBFO58-08U1SS2-40FS	40
HBFO58-08U1SS2-50FS	50
HBFO58-08U1SS2-60F1	60
HBFO58-08U1SS2-70FS	70
HBFO58-08U1SS2-80FS	80
HBFO58-08U1SS2-90FS	90
HBFO58-08U1SS2-100FS	100

## HYBRIFLEX® CONNECTORS & ACCESSORIES

### FIND A CONFIGURATION FOR EVERY APPLICATION

We have the expertise and agility to deliver hybrid cable configurations for any application. All of our hybrid cable solutions support any network technology and any frequency. We are ready to support your 5G evolution. To help mobile operators and installers address unique deployment scenarios and challenges, hybrid cable designers must be ready, willing and able to adapt their solutions to meet specific requirements. Our hybrid cable solutions are recognized globally for their quality, performance and long-term reliability. You can customize with complete confidence.

### A WIDE VARIETY OF CONNECTOR OPTIONS



### A COMPLETE END-TO-END SOLUTION

RFS provides a complete portfolio of ancillary accessories for your deployments including:

- Hoist Grips – pre-laced and lace up types, critical for hoisting cable and load bearing after installation
- Ground Kits – used for grounding hybrid cable at multiple points of installed assembly, linked to tower grounding system
- Clamps – used for lateral support typically every meter, to prevent movement (ex: wind) not primary accessory for load support
- Bulkhead fittings
- Weatherproofing
- Adapters and hardware
- Specialty installation tools





# RADIO FREQUENCY SYSTEMS