

RADIO FREQUENCY SYSTEMS

HYBRIFLEX® FIBER AND POWER ORDERING GUIDE

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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 include 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.





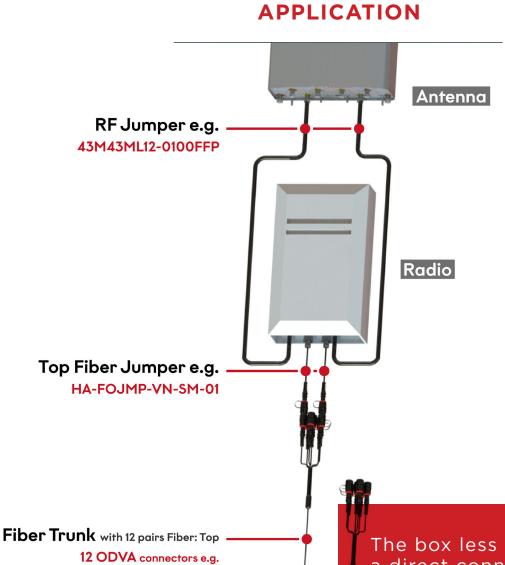
POWER CABLE **APPLICATION**

Power Cables (configurations given as example)

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



BOX LESS



HA-FOTF-VL-12SM-030-01

The box less application allows a direct connection between the trunk cable and the jumpers. This reduces costs.

In this case, the jumpers are directly equipped with the AOPC for the Nokia radios. However, the jumpers are also available with a FULLAXS for Ericsson radios or with a simple LC duplex.

The connection between the trunk cable and the jumpers is made with an ODVA connector, which does not require the use of any additional tools. A so-called Quick Lock connector is also available, which establishes the connection by simply plugging it in and snapping it into place.



BOX LESS FIBER TRUNK

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, 0X3

MODEL NUMBER	LENGTH m (ft)
HA-FOTF-VL-03SM-010	10 (32.8)
HA-FOTF-VL-03SM-020	20 (65.6)
HA-FOTF-VL-03SM-030	30 (98.4)
HA-FOTF-VL-03SM-040	40 (131.2)
HA-FOTF-VL-03SM-050	50 (164.0)
HA-FOTF-VL-03SM-060	60 (196.8)
HA-FOTF-VL-03SM-070	70 (229.7)
HA-FOTF-VL-03SM-080	80 (262.5)
HA-FOTF-VL-03SM-090	90 (295.3)
HA-FOTF-VL-03SM-100	100 (328.1)

MODEL NUMBER	LENGTH m (ft)
HA-FOTF-VL-03SM-110	110 (360.9)
HA-FOTF-VL-03SM-120	120 (393.7)
HA-FOTF-VL-03SM-130	130 (426.5)
HA-FOTF-VL-03SM-140	140 (459.3)
HA-FOTF-VL-03SM-150	150 (492.1)
HA-FOTF-VL-03SM-160	160 (524.9)
HA-FOTF-VL-03SM-170	170 (557.7)
HA-FOTF-VL-03SM-180	180 (590.5)
HA-FOTF-VL-03SM-190	190 (623.4)
HA-FOTF-VL-03SM-200	200 (656.2)

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

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

MODEL NUMBER	LENGTH m (ft)
HA-FOTF-VL-06SM-010	10 (32.8)
HA-FOTF-VL-06SM-020	20 (65.6)
HA-FOTF-VL-06SM-030	30 (98.4)
HA-FOTF-VL-06SM-040	40 (131.2)
HA-FOTF-VL-06SM-050	50 (164.0)
HA-FOTF-VL-06SM-060	60 (196.8)
HA-FOTF-VL-06SM-070	70 (229.7)
HA-FOTF-VL-06SM-080	80 (262.5)
HA-FOTF-VL-06SM-090	90 (295.3)
HA-FOTF-VL-06SM-100	100 (328.1)

MODEL NUMBER	LENGTH m (ft)
HA-FOTF-VL-06SM-110	110 (360.9)
HA-FOTF-VL-06SM-120	120 (393.7)
HA-FOTF-VL-06SM-130	130 (426.5)
HA-FOTF-VL-06SM-140	140 (459.3)
HA-FOTF-VL-06SM-150	150 (492.1)
HA-FOTF-VL-06SM-160	160 (524.9)
HA-FOTF-VL-06SM-170	170 (557.7)
HA-FOTF-VL-06SM-180	180 (590.5)
HA-FOTF-VL-06SM-190	190 (623.4)
HA-FOTF-VL-06SM-200	200 (656.2)

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

FIBER CONNECT FIBER TRUNK FIXED LENGTH ASSEMBLIES FOR 6RRU, 0X12

MODEL NUMBER	LENGTH m (ft)
HA-FOTF-VL-12SM-010-01	10 (32.8)
HA-FOTF-VL-12SM-020-01	20 (65.6)
HA-FOTF-VL-12SM-030-01	30 (98.4)
HA-FOTF-VL-12SM-040-01	40 (131.2)
HA-FOTF-VL-12SM-050-01	50 (164.0)
HA-FOTF-VL-12SM-060-01	60 (196.8)
HA-FOTF-VL-12SM-070-01	70 (229.7)
HA-FOTF-VL-12SM-080-01	80 (262.5)
HA-FOTF-VL-12SM-090-01	90 (295.3)
HA-FOTF-VL-12SM-100-01	100 (328.1)

MODEL NUMBER	LENGTH m (ft)
HA-FOTF-VL-12SM-110-01	110 (360.9)
HA-FOTF-VL-12SM-120-01	120 (393.7)
HA-FOTF-VL-12SM-130-01	130 (426.5)
HA-FOTF-VL-12SM-140-01	140 (459.3)
HA-FOTF-VL-12SM-150-01	150 (492.1)
HA-FOTF-VL-12SM-160-01	160 (524.9)
HA-FOTF-VL-12SM-170-01	170 (557.7)
HA-FOTF-VL-12SM-180-01	180 (590.5)
HA-FOTF-VL-12SM-190-01	190 (623.4)
HA-FOTF-VL-12SM-200-01	200 (656.2)



BOX LESS FIBER JUMPERS & ACCESSORIES

Jumper Cables

HA-FOJMP-VL-SM-05





ODVA to AOPC



ODVA to LCD with NSN Grommet

ODVA to LCD

 MODEL NUMBER
 LENGTH m (ft)

 HA-FOJMP-VL-SM-01
 1 (3.3)

 HA-FOJMP-VL-SM-02
 2 (6.6)

 HA-FOJMP-VL-SM-03
 3 (9.8)

 HA-FOJMP-VL-SM-04
 4 (13.1)

5 (16.4)

MODEL NUMBER	LENGTH m (ft)
HA-FOJMP-VN-SM-01	1 (3.3)
HA-FOJMP-VN-SM-02	2 (6.6)
HA-FOJMP-VN-SM-03	3 (9.8)
HA-FOJMP-VN-SM-04	4 (13.1)
HA-FOJMP-VN-SM-05	5 (16.4)

MODEL NUMBER	LENGTH m (ft)
HA-FOJMP-VB-SM-01	1 (3.3)
HA-FOJMP-VB-SM-02	2 (6.6)
HA-FOJMP-VB-SM-03	3 (9.8)
HA-FOJMP-VB-SM-04	4 (13.1)
HA-FOJMP-VB-SM-05	5 (16.4)





MODEL NUMBER	LENGTH m (ft)
HA-FOJMP-VA-SM-01	1 (3.3)
HA-FOJMP-VA-SM-02	2 (6.6)
HA-FOJMP-VA-SM-03	3 (9.8)
HA-FOJMP-VA-SM-04	4 (13.1)

5 (16.4)

HA-FOJMP-VA-SM-05



LCD to FULLAXS

MODEL NUMBER	LENGTH m (ft)
HA-FOJMP-LA-SM-01	1 (3.3)
HA-FOJMP-LA-SM-02	2 (6.6)
HA-FOJMP-LA-SM-03	3 (9.8)
HA-FOJMP-LA-SM-04	4 (13.1)
HA-FOJMP-LA-SM-05	5 (16.4)

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
	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



BOX TO BOX

APPLICATION

RF Jumper e.g. 43M43ML12-0100FFP Top Hybrid Jumper e.g. HA-FODC-LLBB-21-03 for Multi Mode HA-FODC-LLBB-22-03 for Single Mode Single Mode Fiber Trunk e.g. HA-FOTF-LL-08SM-030-04 **Multimode Hybrid Trunk** Power Trunk e.g. PW-S-06S4-D for 6 mm2 PW-S-10S4-D for 10 mm2 **Bottom Power Jumper Bottom Fiber Jumper**

Antenna

Radio

HA-FOJMD-LL-1M-02-04 for Multi Mode HA-FOJMD-LL-1S-02-04 for Single Mode Top Distribution Box DB-T1-8Z-16B-OZ-03

Bottom Distribution Box DB-T1-8Z-16B-OZ-03

The box-to-box application is designed for single mode and multi mode in one system.

However, this system can also be operated with pure single mode or pure multi mode. The box has 16 pairs of fibre adapters and 8 pairs of power terminals.

The jumpers from the top box to the radios are available as hybrid versions. Each hybrid jumper has 1 pair of power and 2 pairs of fibre. The jumpers are prepared for Ericsson, Nokia or HW radios from the fibre side.

The jumpers from the bottom box into the BBU are available as a separate solution.



BOX TO BOX FIBER TRUNK & JUMPER

Single Mode and Multi Mode Fiber with 8 pairs LCD on both sides; One side connectors stacked and one side all connectors on the same length; Used as Bottom Jumper (one side in Box and one side to BBU) in the system

SINGLE-MODE MODEL NUMBER



MODEL NUMBER	LENGTH m (ft)
HA-FOJMF-LL-1S-02-04	2 (6.6)
HA-FOJMF-LL-1S-03-04	3 (9.8)
HA-FOJMF-LL-1S-05-04	5 (16.4)
HA-FOJMF-LL-1S-07-04	7 (23)
HA-FOJMF-LL-1S-10-04	10 (32.8)
HA-FOJMF-LL-1S-15-04	15 (49.2)
HA-FOJMF-LL-1S-20-04	20 (65.6)

MULTI-MODE MODEL NUMBERS



MODEL NUMBER	LENGTH m (ft)
HA-FOJMF-LL-1M-02-04	2 (6.6)
HA-FOJMF-LL-1M-03-04	3 (9.8)
HA-FOJMF-LL-1M-05-04	5 (16.4)
HA-FOJMF-LL-1M-07-04	7 (23)
HA-FOJMF-LL-1M-10-04	10 (32.8)
HA-FOJMF-LL-1M-15-04	15 (49.2)
HA-FOJMF-LL-1M-20-04	20 (65.6)

Single Mode Fiber with 8 pairs LCD on both sides; Both sides connectors stacked; Used as Trunk Cable from Box to Box in the system

SINGLE-MODE MODEL NUMBER



MODEL NUMBER	LENGTH m (ft)
HA-FOTD-LL-08SM-010-04	10 (32.8)
HA-FOTD-LL-08SM-020-04	20 (65.6)
HA-FOTD-LL-08SM-030-04	30 (98.4)
HA-FOTD-LL-08SM-040-04	40 (131.2)
HA-FOTD-LL-08SM-050-04	50 (164.0)
HA-FOTD-LL-08SM-060-04	60 (196.8)
HA-FOTD-LL-08SM-070-04	70 (229.7)



BOX TO BOX **HYBRID JUMPER & BOX**

Single Mode and Multi Mode fibre combined with power to a Hybrid Jumper. One side is prepared for a box and other side for RRUs. Every Hybrid Jumper have one pair power cable with 6 mm² and 2 pairs of Fibre

SINGLE-MODE MODEL NUMBER



MODEL NUMBER	LENGTH m (ft)
HA-FODD-LLBB-21-02	2 (6.6)
HA-FODD-LLBB-21-03	3 (9.8)
HA-FODD-LLBB-21-05	5 (16.4)
HA-FODD-LLBB-21-07	7 (23)
HA-FODD-LLBB-21-10	10 (32.8)
HA-FODD-LLBB-21-15	15 (49.2)
HA-FODD-LLBB-21-20	20 (65.6)

MULTI-MODE MODEL NUMBERS



MODEL NUMBER	LENGTH m (ft)
HA-FODD-LLBB-22-02	2 (6.6)
HA-FODD-LLBB-22-03	3 (9.8)
HA-FODD-LLBB-22-05	5 (16.4)
HA-FODD-LLBB-22-07	7 (23)
HA-FODD-LLBB-22-10	10 (32.8)
HA-FODD-LLBB-22-15	15 (49.2)
HA-FODD-LLBB-22-20	20 (65.6)

Single Mode Fiber with 8 pairs LCD on both sides; Both sides connectors stacked; Used as Trunk Cable from Box to Box in the system

SINGLE-MODE MODEL NUMBER



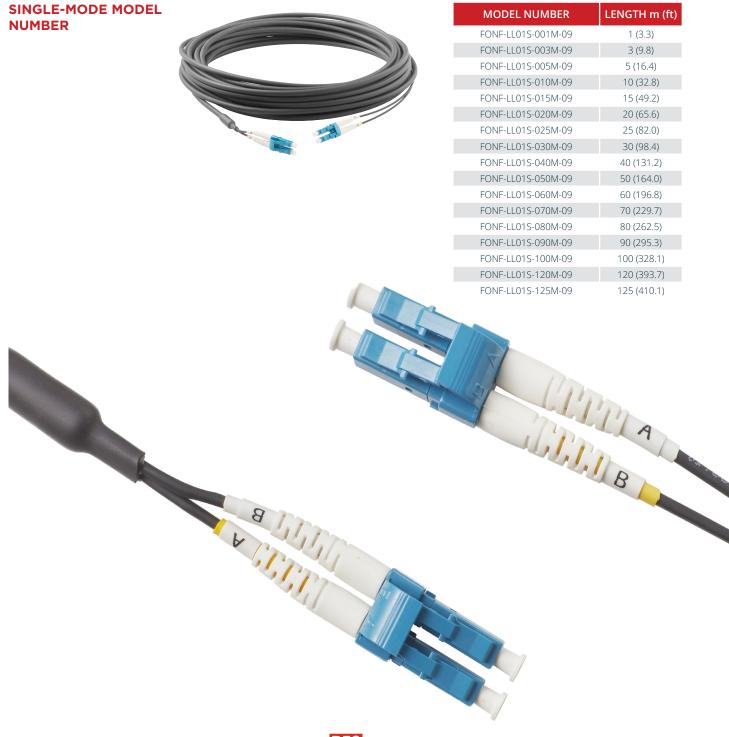
MODEL NUMBER

DB-T1-8Z-16B-0Z-03



STANDARD FIBER DIRECT CONNECTIONS BETWEEN BBU & RRU

Breakout length 75 mm on one side and 275 mm on the other side. Single Mode A2 cables are used for optimized handling in the field.





SHOP ONLINE

Cables | Connectors | Jumpers | Tools | Accessories

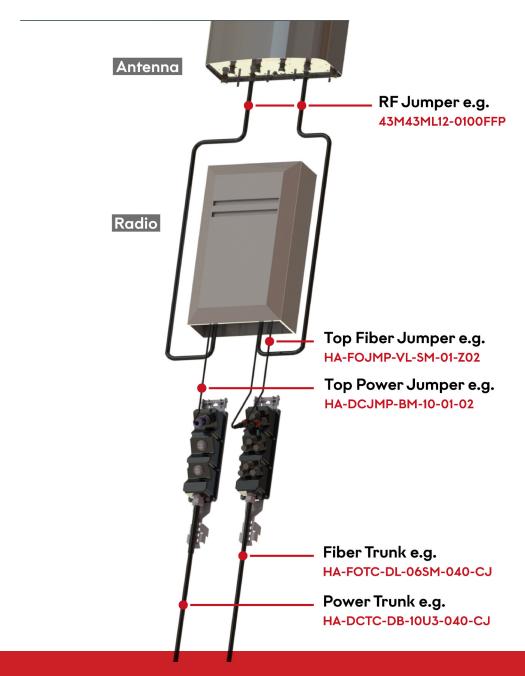


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FIBER/POWER CONNECT ASSEMBLIES

WITH COMPACT DISTRIBUTOR



The Fiber/Power Connect Assemblies with Compact Distributor is exactly the right application for easy installation.

Both the power and the fibre side have a separate box mounted directly on the trunk cable. This box can simply be pulled up the tower and mounted using the eyelet provided.

The box on the fibre side as well as the fibre jumpers are equipped with an ODVA connector, which makes a tool superfluous. The power side is also fitted with a simple hand-mountable plug.



FIBER/POWER CONNECT ASSEMBLIES

WITH COMPACT DISTRIBUTOR



3 DC pairs 10mm² unshielded, includes Compact distributor preassembled

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

MODEL NUMBER	LENGTH m (ft)
HA-DCTC-DB-10U3-010-CJ	10 (32.8)
HA-DCTC-DB-10U3-015-CJ	15 (49.2)
HA-DCTC-DB-10U3-020-CJ	20 (65.6)
HA-DCTC-DB-10U3-025-CJ	25 (82.0)
HA-DCTC-DB-10U3-030-CJ	30 (98.4)
HA-DCTC-DB-10U3-035-CJ	35 (114.8)
HA-DCTC-DB-10U3-040-CJ	40 (131.2)
HA-DCTC-DB-10U3-050-CJ	50 (164.0)
HA-DCTC-DB-10U3-060-CJ	60 (196.8)
HA-DCTC-DB-10U3-070-CJ	70 (229.7)

3 DC pairs 16mm² unshielded, includes Compact distributor preassembled

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

MODEL NUMBER	LENGTH m (ft)
HA-DCTC-DB-16U3-080-CJ	80 (262.5)
HA-DCTC-DB-16U3-090-CJ	90 (295.3)
HA-DCTC-DB-16U3-100-CJ	100 (328.1)





PowerConnect Rating: B2ca s1 d0



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

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

MODEL NUMBER	LENGTH m (ft)
HA-FOTC-DL-06SM-010-CJ	10 (32.8)
HA-FOTC-DL-06SM-015-CJ	15 (49.2)
HA-FOTC-DL-06SM-020-CJ	20 (65.6)
HA-FOTC-DL-06SM-025-CJ	25 (82.0)
HA-FOTC-DL-06SM-030-CJ	30 (98.4)
HA-FOTC-DL-06SM-035-CJ	35 (114.8)
HA-FOTC-DI -06SM-040-CI	40 (131.2)

MODEL NUMBER	LENGTH m (ft)
HA-FOTC-DL-06SM-050-CJ	50 (164.0)
HA-FOTC-DL-06SM-060-CJ	60 (196.8)
HA-FOTC-DL-06SM-070-CJ	70 (229.7)
HA-FOTC-DL-06SM-080-CJ	80 (262.5)
HA-FOTC-DL-06SM-090-CJ	90 (295.3)
HA-FOTC-DL-06SM-100-CJ	100 (328.1)





KiberConnect Rating: Cca s1 d1 a1



FIBER/POWER CONNECT ASSEMBLIES WITH COMPACT DISTRIBUTOR

1 DC pair 10mm² unshielded

POWER CONNECT POWER JUMPER FIXED LENGTH ASSEMBLIES, 1X0

MODEL NUMBER	LENGTH m (ft)
HA-DCJMP-BM-10-01-02	1 (3.3)
HA-DCJMP-BM-10-02-02	2 (6.6)

MODEL NUMBER	LENGTH m (ft)
HA-DCJMP-BM-10-03-02	3 (9.8)
HA-DCJMP-BM-10-05-02	5 (16.4)



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

FIBER CONNECT FIBER JUMPER FIXED LENGTH ASSEMBLIES, 0X1

MODEL NUMBER	LENGTH m (ft)
HA-FOJMP-VL-SM-01-Z01	1 (3.3)
HA-FOJMP-VL-SM-02-Z01	2 (6.6)

MODEL NUMBER	LENGTH m (ft)
HA-FOJMP-VL-SM-03-Z01	3 (9.8)
HA-FOJMP-VL-SM-05-Z01	5 (16.4)



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
- Tanananian manananananananananananananananananan	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





HYBRIFLEX® PLUG-AND-PLAY SOLUTION

FOR RAPID DEPLOYMENTS & HIGH-BANDWIDTH APPLICATIONS

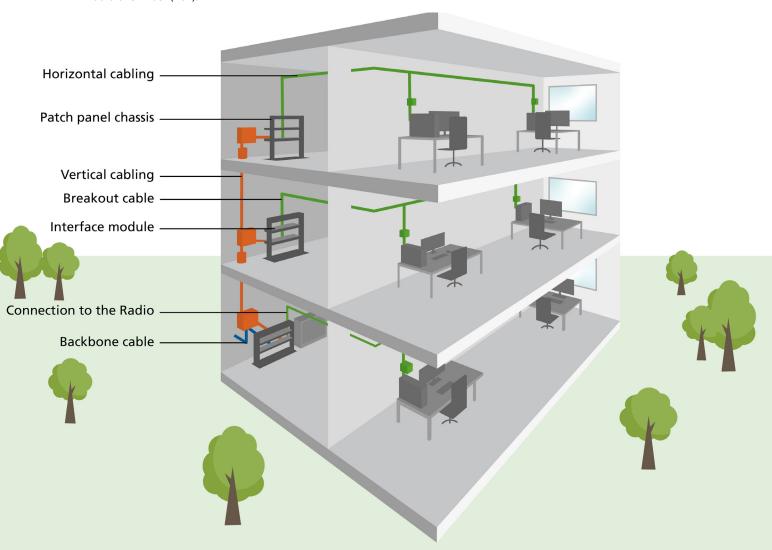
MINIMIZE THE TIME AND SKILLS REQUIRED TO INSTALL, TERMINATE AND TEST HIGH BANDWIDTH OPTICAL FIBER NETWORKS IN BUILDINGS

The HYBRIFLEX plug-and-play connectivity solution is based on a set of products which have been pre-terminated in our highly controlled factory environment. The necessary on-site installation skills and time required are significantly reduced due to the elimination of fusion splicing and testing.

The solution is based on the most future-proof optical fiber (single mode) which ensures that the most bandwidth intensive applications can be supported not only today but also into the future. The evolution from traditional two fiber transmission to single fiber Bi-directional (BiDi) and onwards to Dense Wavelength Division Multiplexing (DWDM) technology as bandwidth demands increase is fully supported.

The solution features factory installed, high-density Multi Fiber Push On (MPO) connectors that enable high density connections to be easily routed through confined ducts and cable routes within buildings.

All of the connections within the HYBRIFLEX plug-and-play solution are based on Angled Physical Contact (APC) interfaces which minimize back reflection and ensure very low losses to deliver in even the most technically challenging application, Radio over Fiber (RoF).





HYBRIFLEX PLUG-AND-PLAY SOLUTION

FOR RAPID DEPLOYMENTS & HIGH-BANDWIDTH APPLICATIONS

Fiber Optic Backbone Cable, 12 x single mode fibers, MTP12(f) to MTP12(f), indoor, LSZH

FIBER ASSEMBLIES, PRE-TERMINATED, MTP12 FEMALE CONNECTORS BOTH ENDS, INDOOR

MODEL NUMBER	LENGTH m (ft)
FONF-FF06S-010M	10 (32.8)
FONF-FF06S-020M	20 (65.6)
FONF-FF06S-030M	30 (98.4)
FONF-FF06S-040M	40 (131.2)
FONF-FF06S-050M	50 (164.0)
FONF-FF06S-060M	60 (196.8)
FONF-FF06S-070M	70 (229.7)
FONF-FF06S-080M	80 (262.5)
FONF-FF06S-090M	90 (295.3)
FONF-FF06S-100M	100 (328.1)

MODEL NUMBER	LENGTH m (ft)
FONF-FF06S-110M	110 (360.9)
FONF-FF06S-120M	120 (393.7)
FONF-FF06S-130M	130 (426.5)
FONF-FF06S-140M	140 (459.3)
FONF-FF06S-150M	150 (492.1)
FONF-FF06S-160M	160 (524.9)
FONF-FF06S-170M	170 (557.7)
FONF-FF06S-180M	180 (590.5)
FONF-FF06S-190M	190 (623.4)
FONF-FF06S-200M	200 (656.2)

Fiber Optic Backbone Cable, 24 x single mode fibers, 2 x MTP12(f) to 2 x MTP12(f), indoor, LSZH

FIBER ASSEMBLIES, PRE-TERMINATED, 2 X MTP12 FEMALE CONNECTORS BOTH ENDS, INDOOR

MODEL NUMBER	LENGTH m (ft)
FONF-FF12S-010M-01	10 (32.8)
FONF-FF12S-020M-01	20 (65.6)
FONF-FF12S-030M-01	30 (98.4)
FONF-FF12S-040M-01	40 (131.2)
FONF-FF12S-050M-01	50 (164.0)
FONF-FF12S-060M-01	60 (196.8)
FONF-FF12S-070M-01	70 (229.7)
FONF-FF12S-080M-01	80 (262.5)
FONF-FF12S-090M-01	90 (295.3)
FONF-FF12S-100M-01	100 (328.1)

MODEL NUMBER	LENGTH m (ft)
FONF-FF12S-110M-01	110 (360.9)
FONF-FF12S-120M-01	120 (393.7)
FONF-FF12S-130M-01	130 (426.5)
FONF-FF12S-140M-01	140 (459.3)
FONF-FF12S-150M-01	150 (492.1)
FONF-FF12S-160M-01	160 (524.9)
FONF-FF12S-170M-01	170 (557.7)
FONF-FF12S-180M-01	180 (590.5)
FONF-FF12S-190M-01	190 (623.4)
FONF-FF12S-200M-01	200 (656.2)

Fiber Optic Branch Cable, $12 \times \text{single mode fibers}$, MTP12(m) to MTP10(m) & $2 \times \text{SC/APC}$, indoor, LSZH

FIBER ASSEMBLIES, PRE-TERMINATED WITH MTP12 MALE TO MTP10 MALE AND 2 X SC/APC SIMPLEX CONNECTORS, INDOOR

MODEL NUMBER	LENGTH m (ft)
FONF-ME06S-001M	1 (3.3)
FONF-ME06S-002M	2 (6.6)
FONF-ME06S-003M	3 (9.8)
FONF-ME06S-004M	4 (13.1)
FONF-MF06S-005M	5 (16.4)

MODEL NUMBER	LENGTH m (ft)
FONF-ME06S-006M	6 (19.7)
FONF-ME06S-007M	7 (23.0)
FONF-ME06S-008M	8 (26.2)
FONF-ME06S-009M	9 (29.5)
FONF-ME06S-010M	10 (32.8)

Fiber Optic Span Connect Cable, 12 x single mode fibers, MTP12(m) to MTP12(m), indoor, LSZH

FIBER ASSEMBLIES, MTP12 MALE CONNEC-TORS BOTH ENDS, INDOOR

MODEL NUMBER	LENGTH m (ft)
FONF-MM06S-001M	1 (3.3)
FONF-MM06S-002M	2 (6.6)
FONF-MM06S-003M	3 (9.8)
FONF-MM06S-004M	4 (13.1)
FONF-MM06S-005M	5 (16.4)

MODEL NUMBER	LENGTH m (ft)
FONF-MM06S-006M	6 (19.7)
FONF-MM06S-007M	7 (23.0)
FONF-MM06S-008M	8 (26.2)
FONF-MM06S-009M	9 (29.5)
FONF-MM06S-010M	10 (32.8)



HYBRIFLEX PLUG-AND-PLAY SOLUTION

FOR RAPID DEPLOYMENTS & HIGH-BANDWIDTH APPLICATIONS

Fiber Optic Breakout Cable, 12 x single mode fibers, MTP12(m) to 12 x SC/APC, indoor, LSZH

FIBER ASSEMBLIES, MTP12 MALE CONNEC-TOR TO 12 X SC/APC CONNECTORS, INDOOR

MODEL NUMBER	LENGTH m (ft)
FONF-MU06S-001M	1 (3.3)
FONF-MU06S-002M	2 (6.6)
FONF-MU06S-003M	3 (9.8)
FONF-MU06S-004M	4 (13.1)
FONF-MU06S-005M	5 (16.4)

MODEL NUMBER	LENGTH m (ft)
FONF-MU06S-006M	6 (19.7)
FONF-MU06S-007M	7 (23.0)
FONF-MU06S-008M	8 (26.2)
FONF-MU06S-009M	9 (29.5)
FONE-MU06S-010M	10 (32 8)

Fiber Optic Patch Panel, 19", Rack Mounted, Pre-terminated

PATCH PANEL, 1U FOR PLUG & PLAY SOLUTION UP TO 96 LC/APC CONNECTORS

MODEL NUMBER	DESCRIPTION	
PPIF-0Z48Z-1U-YC	Chassis, Rack Mount G4-1U (19"), up to 4 MTP-LC Interface Modules	
PPIF-0Z12SL-MLAP-YC	Interface module, 2 x MTP12(m) to 24 x LC/APC, SMF	

Adapters

ADAPTERS FOR INDOOR PLUG & PLAY CONNECTIONS

MODEL NUMBER	TYPE	FIBERS	MOUNT
HA-AD-SASA-40	SC/APC	1	Snap fit
HA-AD-MM-40	MTP/MPO	Up to 12	Snap fit/loose

Fiber Wall Outlet, Indoor, Surface Mount Box Style

WALL OUTLET FOR INDOOR PLUG & PLAY CONNECTIONS

MODEL N	IUMBER	PORTS	ADAPTERS	INCLUDED
WOIF-0Z01S	S-APPD-YC	1	SC/APC	Adapters
WOIF-0Z02S	S-APPD-YC	2	SC/APC	Adapters

Fiber Optic Patch Cable, Simplex, 1 x single mode fiber, LC/APC to SC/APC, indoor, LSZH

FIBER ASSEMBLIES, PATCH CORDS, INDOOR

MODEL NUMBER	LENGTH m (ft)
FOPC-LU1SS-001M	1 (3.3)
FOPC-LU1SS-002M	2 (6.6)
FOPC-LU1SS-003M	3 (9.8)
FOPC-LU1SS-004M	4 (13.1)
FOPC-LU1SS-005M	5 (16.4)

MODEL NUMBER	LENGTH m (ft)
FOPC-LU1SS-006M	6 (19.7)
FOPC-LU1SS-007M	7 (23.0)
FOPC-LU1SS-008M	8 (26.2)
FOPC-LU1SS-009M	9 (29.5)
FOPC-LU1SS-010M	10 (32.8)

Fiber Optic Patch Cable, Simplex, 1 x single mode fiber, SC/APC to SC/APC, indoor, LSZH

FIBER ASSEMBLIES, PATCH CORDS, INDOOR

MODEL NUMBER	LENGTH m (ft)
FOPC-UU1SS-001M	1 (3.3)
FOPC-UU1SS-002M	2 (6.6)
FOPC-UU1SS-003M	3 (9.8)
FOPC-UU1SS-004M	4 (13.1)
FOPC-UU1SS-005M	5 (16.4)

MODEL NUMBER	LENGTH m (ft)
FOPC-UU1SS-006M	6 (19.7)
FOPC-UU1SS-007M	7 (23.0)
FOPC-UU1SS-008M	8 (26.2)
FOPC-UU1SS-009M	9 (29.5)
FOPC-UU1SS-010M	10 (32.8)



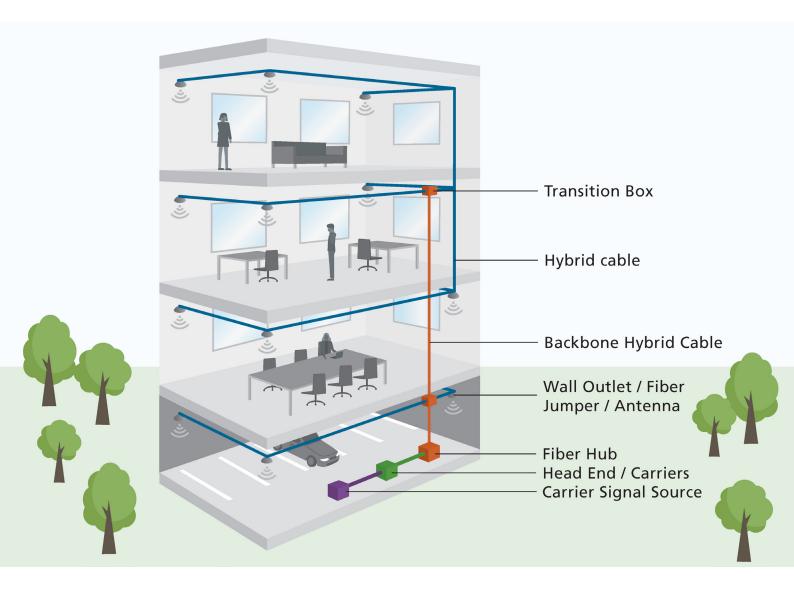
HYBRIFLEX HYBRID SOLUTION

FOR MISSION CRITICAL APPLICATIONS

DELIVER MISSION-CRITICAL WIRELESS SERVICES AS WELL AS TRADITIONAL ETHERNET SERVICES

The HYBRIFLEX mission-critical connectivity solution eliminates the need to deploy and maintain a separate in-building or cross-campus network to support your highest priority applications. The hybrid cables enable all remotely connected devices to be protected by a single uninterruptable power supply (UPS). This solution not only provides a highly reliable data connection but also secures the power needed by remote devices regardless if it is a mission-critical application or a traditional Ethernet services. The solution is designed around fully screened cables to allow their deployment in data or power cable ducts providing maximum system design flexibility and greater options to achieve full system redundancy through diverse routing.

The solution can be fusion-sliced on site, and is optimized to minimize the time, cost, and disruption required to bring fast, reliable connectivity to mission-critical applications, including those that rely on data from wireless access points, CCTV cameras, IP phones and other remote IoT devices.





HYBRIFLEX HYBRID SOLUTIONFOR MISSION CRITICAL APPLICATIONS

1 DC Pair, 12 F/O Pairs, 4mm², 1/2", Single Mode Loose Tube, LSZH

HYBRID, LSZH OUTER SHEATH AND DRY STRUCTURE, IN-BUILDING BACKBONE & OUTDOOR APPLICATIONS

MODEL NUMBER	SCREEN/SHIELD
HB012-S-04U1-S12F	Corrugated Steel Tape
HB012-B-04U1-S12F	None

1 DC Pair, 12 F/O Pairs, 1.5mm², 1/2", Single Mode Loose Tube, LSZH

HYBRID, LSZH OUTER SHEATH AND DRY STRUCTURE, IN-BUILDING HORIZONTAL & OUTDOOR APPLICATIONS

MODEL NUMBER	SCREEN/SHIELD
HB012-S-01U1-S12F	Corrugated Steel Tape
HB012-B-01U1-S12F	None

1 DC Pair, 1 F/O Pair, 1.5mm², 1/2", Single Mode Bow-Type, LSZH

HYBRID, LSZH OUTER SHEATH AND BOW-TYPE SIMPLEX FIBER WITH STEEL WIRE STRENGTH MEMBERS, IN-BUILDING HORIZONTAL & OUTDOOR APPLICATIONS

MODEL NUMBER	SCREEN/SHIELD
HB014-S-01U1-S1J	None



HYBRIFLEX CONVENTIONAL SOLUTION

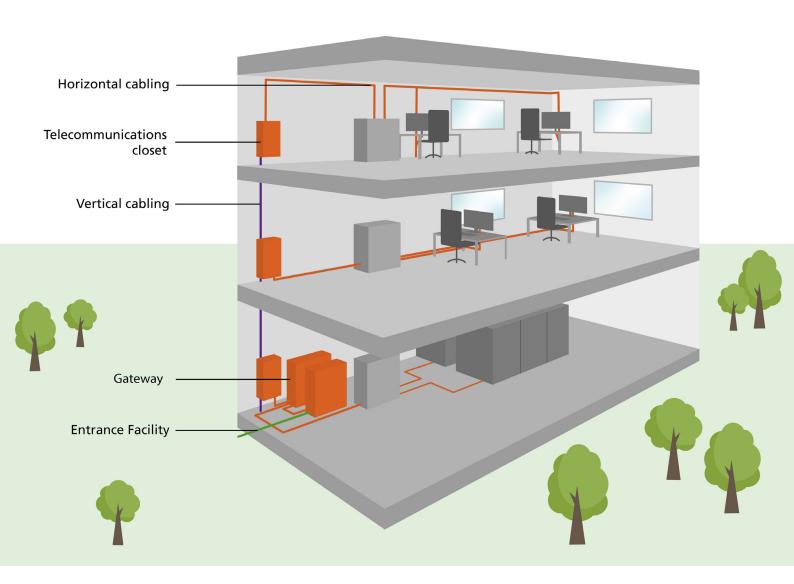
FOR HIGH BANDWIDTH FUTURE PROOF APPLICATIONS

EXTEND RELIABLE, HIGH-BANDWIDTH CONNECTIVITY

This solution is based on traditional fiber optic installation and testing practices. However, the individual elements have been chosen to ensure the most future-proof infrastructure is installed with the optimum performance and cost.

The solution is based on the most future-proof optical fiber (single mode) which ensures that the most bandwidth intensive applications can be supported not only today but also into the future. The evolution from traditional two fiber transmission to single fiber Bi-directional (BiDi) and onwards to Dense Wavelength Division Multiplexing (DWDM) technology as bandwidth demands increase is fully supported.

All of the connections within the HYBRIFLEX conventional solutions are based on Angled Physical Contact (APC) interfaces which minimize back reflection and ensure very low losses to deliver in even the most technically challenging application, Radio over Fiber (RoF).





HYBRIFLEX CONVENTIONAL SOLUTION

FOR HIGH BANDWIDTH FUTURE PROOF APPLICATIONS

Fiber Optic Cable, Single Mode Fibers, Indoor/Outdoor, LSZH

MULTI-PURPOSE TIGHT BUFFERED BACKBONE/ HORIZONTAL DISTRIBUTION CABLE

MODEL NUMBER	FIBERS	SUBUNITS	FIBER/SUBUNIT
FONT-12x01SA1-F00	12	0	12
FONT-24x01SA1-F00	24	0	24
FONT-04x12SA1-F00	48	4	12
FONT-08x12SA1-F00	96	8	12
FONT-12x12SA1-F00	144	12	12

Fiber Optic Drop Cable, Single Mode Fibers, LSZH

COMPACT DROP CABLES

MODEL NUMBER	FIBERS	TYPE
FOGT-01x02SA2-F04	2	Indoor
FOGT-01x02SA2-J00	2	Outdoor

Fiber Optic Patch Panel, 19", Rack Mounted, Fusion spliced

1U FOR FUSION SPLICING UP TO 24 SC/ APC CONNECTORS

MODEL NUMBER	INCLUDES
PPIF-0Z12SP-OS-YC	Splice trays & 24 x SC/APC adapters & pigtails

Fiber Optic Distribution Boxes, Indoor/Outdoor, Splice & Patch, inc. adapters & pigtails

SPLICE AND PATCH TERMINATION POINT FOR FIBER CABLES WHICH ARE FUSION SPLICED SITE

MODEL NUMBER	PORTS	CONNECTORS	INCLUDED
SBIF-0Z6SS-APAP-YC	12	SC/APC	Adapters & pigtails
SBIF-0Z12SS-APAP-YC	24	SC/APC	Adapters & pigtails
SBIF-0Z24SS-APAP-YC	48	SC/APC	Adapters & pigtails

Fiber Distribution Boxes, Indoor/Outdoor, Splice only

SPLICE ONLY
TERMINATION BOX

MODEL NUMBER	CORES
SBIF-0Z12Z-OS-YC	24

Fiber Wall Outlet, Indoor, Surface Mount Box Style

WALL OUTLET FOR FUSION SPLICED CONNECTIONS

MODEL NUMBER	PORTS	ADAPTERS	INCLUDED
WOIF-0Z02SS-APMW-YC	2	SC/APC	Adapters & pigtails
WOIF-0Z04SS-APMW-YC	4	SC/APC	Adapters & pigtails

Fiber Optic Pig Tail, 1 x Single Mode Fiber, SC/APC, 1m, LSZH

900um TIGHT BUFFERED FIBER WITH SC/APC CONNECTOR ON ONE END

MODEL NUMBER	LENGTH M (FT)
FOPC-U01SS-001M	1 (3.3)
FOPC-U01SS-002M	2 (6.6)
FOPC-U01SS-003M	3 (9.8)



IN-BUILDING APPLICATIONS **DISTRIBUTION AND ACCESSORIES**

IN-BUILDING ACCESSORY MATRIX

MODEL NUMBER	PLUG & PLAY	MISSION CRITICAL	CONVENT. SOLUTION	DESCRIPTION
PATCH PANELS				
PPIF-0Z48Z-1U-YC	Х			Patch panel chassis, 1U x 19" for 4 interface modules with p/c management
PPIF-0Z12L-MLAP-YC	Х			Interface module, 2 x MTP12(m) to 12 x DLC/APC, OS2
DISTRIBUTION BOXES	;			
SBOH-4Z12SL-OS-JH		Х		Transition box, 24 splice, 8 x DC
SBIF-0Z06Z-OS-YC		Х	X	Fiber dist. terminal, indoor, 12 fiber, splice only
SBIF-0Z12Z-OS-YC		Х	X	Fiber dist. terminal, indoor, 24 fiber, splice only
SBIF-0Z02SS-APAP-YC		Х	X	Fiber dist. box, indoor/outdoor, IP65, (ABS), 4 port with SC/APC adapters & pigtails
SBIF-0Z04SS-APAP-YC		Х	Х	Fiber dist. box, indoor/outdoor, IP65, (ABS), 8 port with SC/APC adapters & pigtails
SBIF-0Z06SS-APAP-YC	Х	Х	X	Fiber dist. box, indoor/outdoor, IP65, (ABS), 12 port with SC/APC adapters & pigtails
SBIF-0Z12SS-APAP-YC		Х	X	Fiber dist. box, indoor/outdoor, IP65, (ABS), 24 port with SC/APC adapters & pigtails
SBIF-0Z24SS-APAP-YC			X	Fiber dist. box, indoor/outdoor, IP65, (ABS), 48 port with SC/APC adapters & pigtails
SBIF-0Z06SS-APMP-YC		Х	X	Fiber dist. box, indoor/outdoor, IP65, (metal), 12 port with SC/APC adapters & pigtails
SBIF-0Z12SS-APMP-YC		Х	Х	Fiber dist. box, indoor/outdoor, IP65, (metal), 24 port with SC/APC adapters & pigtails
SBIF-0Z24SS-APMP-YC			Х	Fiber dist. box, indoor/outdoor, IP65, (metal), 48 port with SC/APC adapters & pigtails
SBIF-0Z36SS-APMP-YC			Х	Fiber dist. box, indoor/outdoor, IP65, (metal), 72 port with SC/APC adapters & pigtails
SBIF-0Z48SS-APMP-YC			Х	Fiber dist. box, indoor/outdoor, IP65, (metal), 96 port with SC/APC adapters & pigtails
WALL OUTLETS				
WOIF-0Z01SS-APC-YC		Х	Х	Wall outlet (flush mount), 1 port
WOIF-0Z01SS-APPD-YC	Х	Х	Х	Wall outlet (flush mount), 1 port with 1 x SC/APC adapter
WOIF-0Z02SS-APPD-YC	Х	Х	Х	Wall outlet (flush mount), 2 port with 2 x SC/APC adapter
WOIF-0Z02SS-APMW-YC		Х	Х	Wall outlet (surface mount), 2 port with SC/APC adapters & pigtails
WOIF-0Z04SS-APMW-YC		Х	Х	Wall outlet (surface mount), 4 port with SC/APC adapters & pigtails
ADAPTERS & TOOL				
HA-AD-SASA-40	Х	Х	X	Adapter, SC/APC, simplex
HA-AD-MM-40	Х			Adapter, MTP
TRIM-SET-H12-001		Х		Armor Removal Tool for HB012 1/2" cable



IN-BUILDING APPLICATIONS **DISTRIBUTION AND ACCESSORIES**

Fiber Distribution Boxes, Indoor, Metal

DISTRIBUTION BOX WITH ADAPTERS



MODEL NUMBER	PORTS	CONNECTORS	INCLUDED
SBIF-0Z06SS-APCM-YC	12	SC/APC	adapters
SBIF-0Z12SS-APCM-YC	24	SC/APC	adapters
SBIF-0Z24SS-APCM-YC	48	SC/APC	adapters
SBIF-0Z36SS-APCM-YC	72	SC/APC	adapters
SBIF-0Z48SS-APCM-YC	96	SC/APC	adapters

Fiber Distribution Boxes, Indoor, Metal

DISTRIBUTION BOX WITH ADAPTERS AND PIGTAILS

MODEL NUMBER	PORTS	CONNECTORS	INCLUDED
SBIF-0Z06SS-APMP-YC	12	SC/APC	adapters & pigtails
SBIF-0Z12SS-APMP-YC	24	SC/APC	adapters & pigtails
SBIF-0Z24SS-APMP-YC	48	SC/APC	adapters & pigtails
SBIF-0Z36SS-APMP-YC	72	SC/APC	adapters & pigtails
SBIF-0Z48SS-APMP-YC	96	SC/APC	adapters & pigtails

Fiber Distribution Boxes, Indoor, ABS Plastic

DISTRIBUTION BOX WITH ADAPTERS

MODEL NUMBER	PORTS	CONNECTORS	INCLUDED
SBIF-0Z02SS-APCA-YC	4	SC/APC	adapters
SBIF-0Z04SS-APCA-YC	8	SC/APC	adapters
SBIF-0Z06SS-APCA-YC	12	SC/APC	adapters
SBIF-0Z12SS-APCA-YC	24	SC/APC	adapters
SBIF-0Z24SS-APCA-YC	48	SC/APC	adapters





Fiber Distribution Boxes, Indoor, ABS Plastic

DISTRIBUTION BOX WITH ADAPTERS AND PIGTAILS

MODEL NUMBER	PORTS	CONNECTORS	INCLUDED
SBIF-0Z02SS-APAP-YC	4	SC/APC	adapters & pigtails
SBIF-0Z04SS-APAP-YC	8	SC/APC	adapters & pigtails
SBIF-0Z06SS-APAP-YC	12	SC/APC	adapters & pigtails
SBIF-0Z12SS-APAP-YC	24	SC/APC	adapters & pigtails
SBIF-0Z24SS-APAP-YC	48	SC/APC	adapters & pigtails







IN-BUILDING APPLICATIONS **DISTRIBUTION AND ACCESSORIES**

Fiber Distribution Boxes, Indoor, Polycarbonate

OPTICAL FIBER CABLE TERMINAL BOX, STACKED SPLICE TRAY, PIGTAIL TYPE

MODEL NUMBER	CORES
SBIF-0Z06Z-OS-YC	12
SBIF-0Z12Z-OS-YC	24



Fiber Wall Outlet, Indoor, Flush Mount

WALL OUTLET, SUITABLE FOR THE INDOOR CABLE TERMINATION, FIXING AND FIBER PIGTAIL SPLICING IN BUILDING

MODEL NUMBER	PORTS	ADAPTERS	INCLUDED
WOIF-0Z01SS-APC-YC	1	-	-
WOIF-0Z01SS-APPD-YC	1	SC/APC	Pigtail
WOIF-0Z02SS-APPD-YC	2	SC/APC	Pigtails

Fiber Wall Outlet, Indoor, Surface Mount Box Style

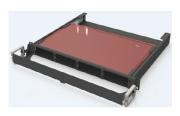
WALL OUTLET, SUITABLE FOR THE INDOOR CABLE TERMINATION, FIXING AND FIBER PIGTAIL SPLICING IN BUILDING

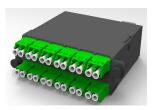
MODEL NUMBER	PORTS	ADAPTERS	INCLUDED
WOIF-0Z02SS-APMW-YC	2	SC/APC	Pigtails
WOIF-0Z04SS-APMW-YC	4	SC/APC	Pigtails

Patch Panels

UP TO FOUR MTP INTERFACE MODULES, 1U (19") RACK MOUNT, PATCH CORD MANAGEMENT, FULL DENSITY OF THE PATCHING FIELD (96 FIBERS IN 1U)

MODEL NUMBER	DESCRIPTION
PPIF-0Z48Z-1U-YC	Chassis, Rack Mount G4-1U (19"), up to 4 MTP-LC Interface Modules
PPIF-0Z12SL-MLAP-YC	Interface module, 2 x MTP12(m) to 24 x LC/APC, SMF





Adapters

HIGH PRECISION, LOW INSERTION LOSS, HIGH RETURN LOSS & EXCELLENT STABILITY FOR ROF (RADIO OVER FIBER) APPLICATIONS

MODEL NUMBER	TYPE	FIBERS	MATERIAL
HA-AD-SASA-40	SC/APC	1	Polyetherimide
HA-AD-MM-40	MTP/MPO	Up to 12	Polyetherimide





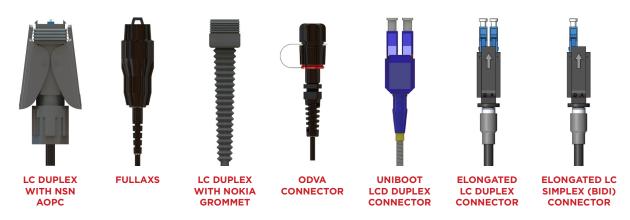


HYBRIFLEX® GENERAL CONNECTORS & ACCESSORIES

FIND A CONFIGURATION FOR EVERY APPLICACTION

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











HYBRIFLEX® GENERAL INSTALLATION TOOLS

ARMOR REMOVAL TOOLS

RFS Armor Removal Tools are designed to make a quick and safe circular cut on the top of the armor corrugation of HYBRIFLEX cables. They are quite useful for length adjustment and enable quick and easy jacket and armor cuts in just a few turns. The tools are designed to avoid cutting any internal cable elements. The long-lasting cutting blades are replaceable.

MODEL NUMBER	CABLE SIZE	DESCRIPTION
TRIM-SET-H12-001	1/2"	Armor Removal Tool for HB012
TRIM-SET-H58-001	5/8"	Armor Removal Tool for HB058
TRIM-SET-H78-001	7/8"	Armor Removal Tool for HB078
TRIM-SET-H114-001	1-1/4"	Armor Removal Tool for HB114
TRIM-B30	All	Spare Blades



TRIM-SET-H12-001



TRIM-SET-H58-001



TRIM-SET-H78-001



TRIM-SET-H114-001

JACKET STRIPPING TOOLS

RFS Jacket Stripping Tools are used for quick and easy removal of the cable jacket for installation of grounding kits. The heavy duty version with exchangeable blade is ideal for use on cable mounted close to structures and/or in multiple runs. Just clamp the JSTRIP tool around the cable and rotate. The standard version requires the use of a screwdriver as a handle.



JSTRIP-114-2



JSTRIP-12-3

MODEL NUMBER	CABLE SIZE / TYPE	REPLACEMENT BLADES
JSTRIP-12-3	1/2", Standard	N/A
JSTRIP-78-2	7/8", Standard	N/A
JSTRIP-114-2	1-1/4", Standard	N/A
JSTRIP-158-2	1-5/8", Standard	N/A

RIP TOOL

The RFS Rip Tool is designed to work in conjunction with an electric drill, to cut through armor by use of the rip cord that is integrated in the HYBRIFLEX cable.

MODEL NUMBER	CABLE SIZE	DESCRIPTION
HTRT-1-000	All	Rip Tool for HYBRIFLEX with Rip Cord



WIRE SIZE / GAUGE CROSS REFERENCE

AWG NUMBER	46	45	44	43	42	41	40	39	38	37	36	35	34
Diameter, in	0.0016	0.0018	0.002	0.0022	0.0024	0.0027	0.0031	0.0035	0.004	0.0045	0.005	0.0056	0.0063
Diameter (Ø), mm	0.04	0.05	0.05	0.06	0.06	0.07	0.08	0.09	0.1	0.11	0.13	0.14	0.16
Cross, mm ²	0.0013	0.0016	0.002	0.0025	0.0029	0.0037	0.0049	0.0062	0.0081	0.010	0.013	0.016	0.020
AWG NUMBER	33	32	31	30	29	28	27	26	25	24	23	22	21
Diameter, in	0.0071	0.0079	0.0089	0.01	0.0113	0.0126	0.0142	0.0159	0.0179	0.0201	0.0226	0.0253	0.0285
Diameter (Ø), mm	0.18	0.2	0.23	0.25	0.29	0.32	0.36	0.4	0.45	0.51	0.57	0.64	0.72
Cross, mm ²	0.026	0.032	0.04	0.051	0.065	0.08	0.1	0.13	0.16	0.2	0.26	0.32	0.41
AWG NUMBER	20	19	18	17	16	15	14	13	12	11	10	9	8
Diameter, in	0.0319	0.0359	0.0403	0.0453	0.0508	0.0571	0.0641	0.0719	0.0808	0.0907	0.1019	0.1144	0.1285
Diameter (Ø), mm	0.81	0.91	1.02	1.15	1.29	1.45	1.63	1.83	2.05	2.3	2.59	2.91	3.26
Cross, mm²	0.52	0.65	0.82	1	1.3	1.7	2.1	2.6	3.3	4.2	5.3	6.6	8.4
AWG NUMBER	7	6	5	4	3	2	1	0 (1/0) 0	0 (2/0) -1	0 (3/0) -2	0 (4/0) -3	0 (5/0) -4	0 (6/0) -5
Diameter, in	0.1443	0.162	0.1819	0.2043	0.2294	0.2576	0.2893	0.3249	0.3648	0.4096	0.46	0.5165	0.58
Diameter (Ø), mm	3.67	4.11	4.62	5.19	5.83	6.54	7.35	8.25	9.27	10.4	11.68	13.13	14.73
Cross, mm²	10.6	13.3	16.8	21.1	26.7	33.6	42.4	53.5	67.4	85	107.2	135.2	170.5

We have the expertise and agility to efficiently adapt our designs to DELIVER ANY COMBINATION



RADIO FREQUENCY SYSTEMS



TO SERVE YOU BETTER

Any questions comments or suggestions that would help us improve our products and services? Scan this QR code!