

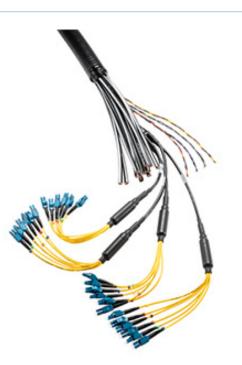
HYBRIFLEX® Hybrid Feeder Cabling Solution 12x24, 1-5/8", 12 pairs 6AWG, Low-Inductance Coaxial Power Wire, 24 pairs Single-Mode Fiber, DLC Connectors, 460 ft

RFS' HYBRIFLEX Remote Radio Head (RRH) hybrid feeder cabling solution combines optical fiber and DC power for RRHs in a single lightweight aluminum corrugated cable, making it the world's most innovative solution for RRH deployments. It was developed to reduce installation complexity and costs at Cellular sites.

HYBRIFLEX allows mobile operators deploying an RRH architecture to standardize the RRH installation process. HYBRIFLEX combines optical fiber (multi-mode or single-mode) and power in a single corrugated cable. It may eliminate the need for junction boxes as well as works in conjuction with and can connect multiple RRHs with a single feeder. Standard RFS CELLFLEX® accessories can be used with HYBRIFLEX cable. Both pre-connectorized and on-site options are available.

### **FEATURES / BENEFITS**

- Aluminum corrugated armor with outstanding bending characteristics Minimizes installation time and enables mechanical protection and shielding
- Same accessories as 1-5/8" coaxial cable
- Outer conductor grounding Utilizes same grounding methods as coaxial cable
- Lightweight solution and compact design Decreases tower loading
- Robust cabling Eliminates need for expensive cable trays and ducts
- Installation of tight bundled fiber optic cable pairs directly to the RRH Reduces CAPEX and wind load by eliminating need for interconnection
- Optical fiber and power cables housed in single corrugated cable Saves CAPEX by standardizing RRH cable installation and reducing installation requirements
- UL-Listed, flame-retardant jacket, UV protected assembles Allows both indoor and outdoor applications
- Maximum robustness Fully armored cable includes riser trunk and top outdoor breakout





### **TECHNICAL FEATURES**

#### STRUCTURE

STRUCTURE				
Cable Type		HYBRIFLEX® Low Inductance		
Fire Performance		Flame Retardant		
Size		1-5/8"		
Length	m (ft)	140.2 (460)		
MECHANICAL SPECIFICATIONS				
Outer Diameter Nominal	mm (in)	50.19 (1.976)		
Cable Weight	kg/m (lb/ft)	4.76 (3.2)		
Minimum Bending Radius, Single Bend	mm (in)	254 (10)		
Minimum Bending Radius, Multiple Bends	mm (in)	508 (20)		
Recommended / Maximum Clamp Spacing	m (ft)	1 / 1.2 (3.25 / 4)		

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ARMOR SPECIFICATIONS			
Armor Type		Corrugated Aluminum	
Maximum DC-Resistance of Armor	Ω/km (Ω/kft)	0.58 (0.178)	
Diameter Corrugated Armor	mm (in)	46.4 (1.83)	
CABLE JACKET			
UV-Protection Individual and External Jacket		Yes	
DC POWER CABLE SPECIFICATIONS			
Number of DC Pairs		12	
Maximum DC-Resistance Power Cable	Ω/km (Ω/kft)	1.4 (0.41)	
Cross Section of Power Cable	mm² (AWG)	13.3 (6)	
DC Wire Jacket Material		PVC	
DC Cable Single Bending Radius	mm (in)	137 (5.4)	
DC Cable Diameter	mm (in)	9.3 (0.365)	
DC Cable Jacket Material		PVC	
DC Standards (Meets or Exceeds)		For use in UL 2882, PVC, RoHS/REACH Compliant	
Break-out Length (Top)	mm (in)	812 (32)	
Break-out Length (Bottom)	mm (in)	812 (32)	
Alarm Wire		8 (4 twisted pairs), 0.8 mm2 (8), 18 AWG	
Alarm Wire Standards (Meets or Exceeds)		UL Standard 1063, 1581 VW-1, MTW Oil and Gasoline RES1 SUNRES (Cable meets UL requirements), RoHS/REACH Compliant	
F/O CABLE SPECIFICATIONS			
F/O Cable Type		G657-A1 Single Mode, Bend Tolerant	
Number of F/O Pairs		24	
Core/Clad	μm	9/125	
Secondary Protection Nominal	μm (in)	900 (0.035)	
Single Bending Radius	mm (in)	157 (6.2)	
Cable Diameter		5.512 (0.217)	
F/O Standards (Meets or Exceeds)		UL Listed Type OFNR (UL1666), RoHS Compliant	
Optical Loss	dB/Km	0.5 @ 1310 nm 0.5 @ 1550 nm	
Fiber Termination End 1		DLC connector	
Fiber Termination End 2		DLC connector	
FO Break-out Length (Top)	mm (in)	1524 (60)	
FO Break-out Length (Bottom)	mm (in)	1524 (60)	

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TESTING AND ENVIRONMENTAL			
Storage Temperature	°C (°F)	-40 to 70 (-40 to 158)	
Operation Temperature	°C (°F)	-40 to 65 (-40 to 149)	
Installation Temperature	°C (°F)	-20 to 65 (-4 to 149)	
Jacket Specifications		UL2882, UL Listed	

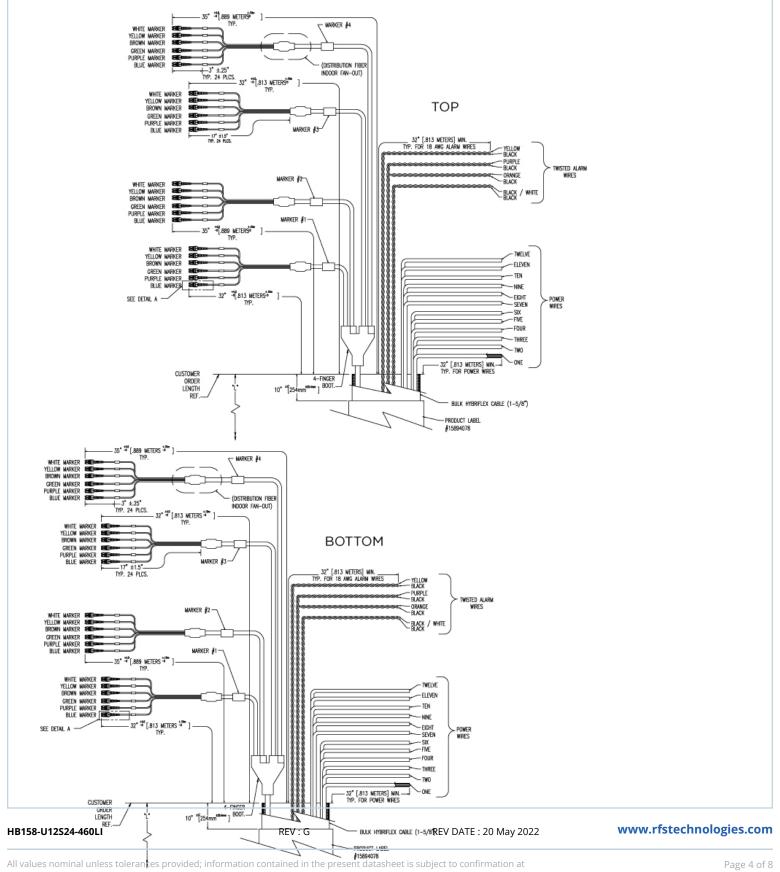
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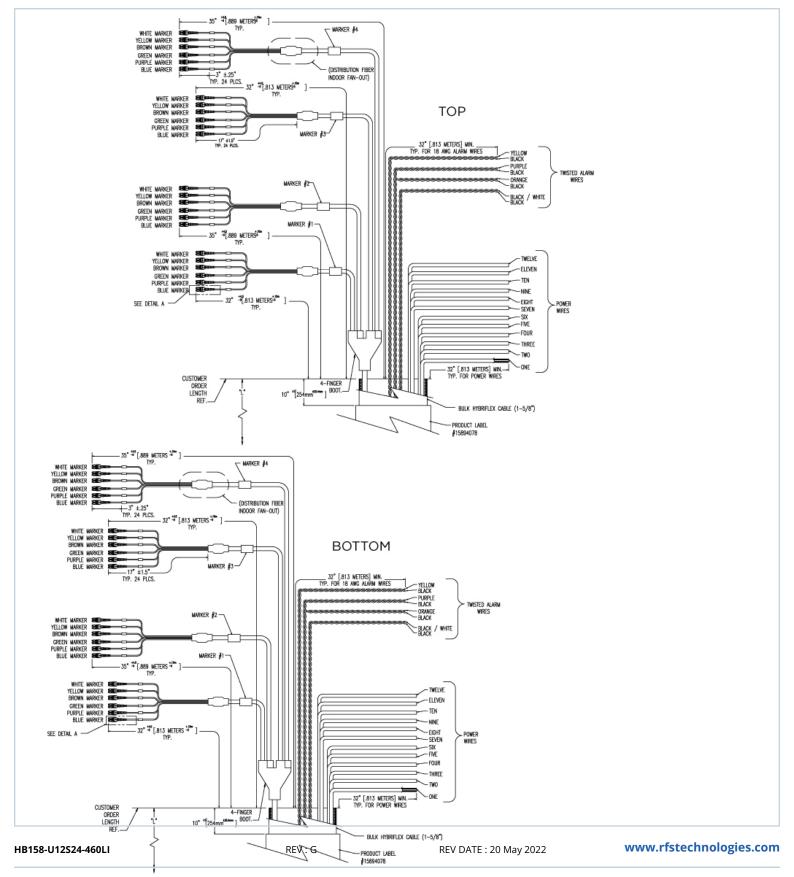
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time of ordering



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HYBRIFLEX® Hybrid Feeder Cabling Solution 12x24, 1-5/8", 12 pairs 6AWG, Low-Inductance Coaxial Power Wire, 24 pairs Single-Mode Fiber, DLC Connectors, 460 ft

Length (ft)Model Number10HB158-U12S24-10-LI20HB158-U12S24-20-LI30HB158-U12S24-30-LI40HB158-U12S24-30-LI40HB158-U12S24-50-LI50HB158-U12S24-50-LI60HB158-U12S24-60-LI70HB158-U12S24-70-LI80HB158-U12S24-70-LI90HB158-U12S24-70-LI100HB158-U12S24-100LI110HB158-U12S24-100LI120HB158-U12S24-100LI130HB158-U12S24-100LI140HB158-U12S24-130LI150HB158-U12S24-130LI160HB158-U12S24-130LI150HB158-U12S24-130LI160HB158-U12S24-130LI150HB158-U12S24-130LI150HB158-U12S24-130LI150HB158-U12S24-130LI150HB158-U12S24-130LI150HB158-U12S24-130LI150HB158-U12S24-130LI150HB158-U12S24-230LI200HB158-U12S24-230LI210HB158-U12S24-230LI220HB158-U12S24-230LI230HB158-U12S24-230LI240HB158-U12S24-230LI250HB158-U12S24-230LI250HB158-U12S24-230LI250HB158-U12S24-230LI250HB158-U12S24-230LI250HB158-U12S24-230LI250HB158-U12S24-230LI250HB158-U12S24-230LI250HB158-U12S24-230LI250HB158-U12S24-230LI250HB158-U12S24-230LI250HB158-U12S	ADDITIONAL ASSEMBLY LENGTHS			
20     HB158-U12S24-20-LI       30     HB158-U12S24-30-LI       40     HB158-U12S24-30-LI       50     HB158-U12S24-40-LI       50     HB158-U12S24-60-LI       60     HB158-U12S24-60-LI       70     HB158-U12S24-70-LI       80     HB158-U12S24-80-LI       90     HB158-U12S24-90-LI       100     HB158-U12S24-100LI       110     HB158-U12S24-100LI       110     HB158-U12S24-100LI       120     HB158-U12S24-100LI       130     HB158-U12S24-100LI       140     HB158-U12S24-100LI       150     HB158-U12S24-100LI       150     HB158-U12S24-100LI       160     HB158-U12S24-100LI       170     HB158-U12S24-100LI       180     HB158-U12S24-100LI       170     HB158-U12S24-100LI       180     HB158-U12S24-100LI       210     HB158-U12S24-200LI       220     HB158-U12S24-200LI       230     HB158-U12S24-200LI       240     HB158-U12S24-200LI       250     HB158-U12S24-200LI	Length (ft)	Model Number		
30     HB158-U12S24-30-LI       40     HB158-U12S24-30-LI       50     HB158-U12S24-40-LI       50     HB158-U12S24-50-LI       60     HB158-U12S24-60-LI       70     HB158-U12S24-70-LI       80     HB158-U12S24-80-LI       90     HB158-U12S24-90-LI       100     HB158-U12S24-10LI       110     HB158-U12S24-10LI       120     HB158-U12S24-10LI       130     HB158-U12S24-130LI       140     HB158-U12S24-130LI       150     HB158-U12S24-130LI       140     HB158-U12S24-130LI       150     HB158-U12S24-130LI       160     HB158-U12S24-130LI       170     HB158-U12S24-160LI       170     HB158-U12S24-160LI       170     HB158-U12S24-160LI       180     HB158-U12S24-100LI       220     HB158-U12S24-200LI       230     HB158-U12S24-200LI       230     HB158-U12S24-230LI       240     HB158-U12S24-230LI       250     HB158-U12S24-230LI       250     HB158-U12S24-230LI	10	HB158-U12S24-10-LI		
40     HB158-U12S24-40-LI       50     HB158-U12S24-50-LI       60     HB158-U12S24-60-LI       70     HB158-U12S24-80-LI       80     HB158-U12S24-90-LI       90     HB158-U12S24-100LI       110     HB158-U12S24-100LI       110     HB158-U12S24-100LI       110     HB158-U12S24-100LI       120     HB158-U12S24-100LI       130     HB158-U12S24-120LI       130     HB158-U12S24-130LI       140     HB158-U12S24-130LI       150     HB158-U12S24-140LI       150     HB158-U12S24-150LI       160     HB158-U12S24-150LI       170     HB158-U12S24-150LI       180     HB158-U12S24-180LI       190     HB158-U12S24-180LI       190     HB158-U12S24-200LI       210     HB158-U12S24-210LI       220     HB158-U12S24-220LI       230     HB158-U12S24-220LI       230     HB158-U12S24-230LI       240     HB158-U12S24-230LI       250     HB158-U12S24-230LI       250     HB158-U12S24-230LI <th>20</th> <th>HB158-U12S24-20-LI</th>	20	HB158-U12S24-20-LI		
S0     HB158-U12S24-50-LI       60     HB158-U12S24-60-LI       70     HB158-U12S24-70-LI       80     HB158-U12S24-70-LI       90     HB158-U12S24-90-LI       90     HB158-U12S24-100LI       110     HB158-U12S24-100LI       110     HB158-U12S24-100LI       110     HB158-U12S24-100LI       120     HB158-U12S24-100LI       130     HB158-U12S24-130LI       140     HB158-U12S24-130LI       150     HB158-U12S24-130LI       160     HB158-U12S24-160LI       170     HB158-U12S24-160LI       170     HB158-U12S24-160LI       170     HB158-U12S24-160LI       170     HB158-U12S24-160LI       170     HB158-U12S24-160LI       170     HB158-U12S24-160LI       180     HB158-U12S24-160LI       210     HB158-U12S24-20LI       220     HB158-U12S24-20LI       230     HB158-U12S24-20LI       230     HB158-U12S24-20LI       250     HB158-U12S24-260LI       250     HB158-U12S24-260LI	30	HB158-U12S24-30-LI		
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No. 100 C. 100	60	HB158-U12S24-60-LI		
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200   HB158-U12S24-200LI     210   HB158-U12S24-210LI     220   HB158-U12S24-220LI     230   HB158-U12S24-230LI     240   HB158-U12S24-230LI     250   HB158-U12S24-240LI     260   HB158-U12S24-250LI     260   HB158-U12S24-260LI     270   HB158-U12S24-270LI     280   HB158-U12S24-280LI     290   HB158-U12S24-290LI     300   HB158-U12S24-300LI	180	HB158-U12S24-180LI		
210   HB158-U12S24-210LI     220   HB158-U12S24-220LI     230   HB158-U12S24-230LI     240   HB158-U12S24-240LI     250   HB158-U12S24-240LI     250   HB158-U12S24-250LI     260   HB158-U12S24-260LI     270   HB158-U12S24-260LI     280   HB158-U12S24-280LI     290   HB158-U12S24-290LI     300   HB158-U12S24-300LI	190	HB158-U12S24-190LI		
220   HB158-U12S24-220LI     230   HB158-U12S24-230LI     240   HB158-U12S24-240LI     250   HB158-U12S24-250LI     260   HB158-U12S24-260LI     270   HB158-U12S24-270LI     280   HB158-U12S24-280LI     290   HB158-U12S24-290LI     300   HB158-U12S24-300LI	200	HB158-U12S24-200LI		
230   HB158-U12S24-230LI     240   HB158-U12S24-240LI     250   HB158-U12S24-250LI     260   HB158-U12S24-260LI     270   HB158-U12S24-270LI     280   HB158-U12S24-280LI     290   HB158-U12S24-290LI     300   HB158-U12S24-300LI	210	HB158-U12S24-210LI		
240   HB158-U12S24-240LI     250   HB158-U12S24-250LI     260   HB158-U12S24-260LI     270   HB158-U12S24-270LI     280   HB158-U12S24-280LI     290   HB158-U12S24-290LI     300   HB158-U12S24-300LI	220	HB158-U12S24-220LI		
250   HB158-U12S24-250LI     260   HB158-U12S24-260LI     270   HB158-U12S24-270LI     280   HB158-U12S24-280LI     290   HB158-U12S24-290LI     300   HB158-U12S24-300LI	230	HB158-U12S24-230LI		
260   HB158-U12S24-260LI     270   HB158-U12S24-270LI     280   HB158-U12S24-280LI     290   HB158-U12S24-290LI     300   HB158-U12S24-300LI	240	HB158-U12S24-240LI		
270     HB158-U12S24-270LI       280     HB158-U12S24-280LI       290     HB158-U12S24-290LI       300     HB158-U12S24-300LI	250	HB158-U12S24-250LI		
280     HB158-U12S24-280LI       290     HB158-U12S24-290LI       300     HB158-U12S24-300LI	260	HB158-U12S24-260LI		
290     HB158-U12S24-290LI       300     HB158-U12S24-300LI	270	HB158-U12S24-270LI		
<b>300</b> HB158-U12S24-300LI	280	HB158-U12S24-280LI		
	290	HB158-U12S24-290LI		
<b>310</b> HB158-U12S24-310LI	300	HB158-U12S24-300LI		
	310	HB158-U12S24-310LI		
320 HB158-U12S24-320LI	320	HB158-U12S24-320LI		
330 HB158-U12S24-330LI	330	HB158-U12S24-330LI		
340 HB158-U12S24-340LI	340	HB158-U12S24-340LI		
<b>350</b> HB158-U12S24-350LI	350	HB158-U12S24-350LI		

#### **EXTERNAL DOCUMENT LINKS**

#### HB158-U12S24-460LI

REV DATE : 20 May 2022



HYBRIFLEX® Hybrid Feeder Cabling Solution 12x24, 1-5/8", 12 pairs 6AWG, Low-Inductance Coaxial Power Wire, 24 pairs Single-Mode Fiber, DLC Connectors, 460 ft

Installation Guidelines: <u>Download</u> QuickShip 2.0 Program Information: <u>Download</u> On-line Factory Test Results: View

ADDITIONAL ASSEMBLY LENGTHS			
Length (ft)	Model Number		
360	HB158-U12S24-360LI		
370	HB158-U12S24-370LI		
380	HB158-U12S24-380LI		
390	HB158-U12S24-390LI		
400	HB158-U12S24-400LI		
410	HB158-U12S24-410LI		
420	HB158-U12S24-420LI		
430	HB158-U12S24-430LI		
440	HB158-U12S24-440LI		
450	HB158-U12S24-450LI		
460	HB158-U12S24-460LI		
470	HB158-U12S24-470LI		
480	HB158-U12S24-480LI		
490	HB158-U12S24-490LI		
500	HB158-U12S24-500LI		
510	HB158-U12S24-510LI		
520	HB158-U12S24-520LI		
530	HB158-U12S24-530LI		
540	HB158-U12S24-540LI		
550	HB158-U12S24-550LI		
560	HB158-U12S24-560LI		
570	HB158-U12S24-570LI		
580	HB158-U12S24-580LI		
590	HB158-U12S24-590LI		
600	HB158-U12S24-600LI		
610	HB158-U12S24-610LI		
620	HB158-U12S24-620LI		
640	HB158-U12S24-640LI		
700	HB158-U12S24-700LI		
720	HB158-U12S24-720LI		

### NOTES

Nominal length equals length of trunk not including top and bottom breakouts; breakout lengths add additionally to the total assembly length tip to tip.

Includes 4 pairs of wires used to carry alarm signals.

The package also includes a kit of special RFS-designed DC insulating boots, 1 per coaxial power wire, used to properly protect and insulate the

DC wires after stripping the jacket, avoiding possible short-circuits while

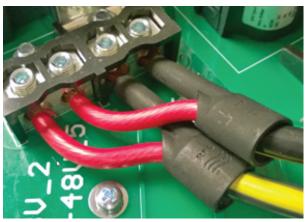
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HYBRIFLEX® Hybrid Feeder Cabling Solution 12x24, 1-5/8", 12 pairs 6AWG, Low-Inductance Coaxial Power Wire, 24 pairs Single-Mode Fiber, DLC Connectors, 460 ft

wiring it to the distribution boxes.

**DC INSULATING BOOT** 



### PRE-PACKED HYBRIFLEX KITS FOR EASY INTEGRATION INTO RAYCAP JUNCTION BOXES

RFS now offers Kitting options for most hybrid risers and jumpers that include both the cable assembly and the Raycap inserts. For reference, kits have a "K" as the third digit in the model number. HB158 does not require an additional gland/insert for proper installation and sealing into the Distribution Boxes.

Kit Model Prefix	Assembly Prefix	Assembly Qty	Raycap Insert Kit	Insert Kit Contents	Raycap Insert Kit Qty
HBK114	HB114	1	RFS-TRUNK-KIT	(2) 190 0620, Insert, M75, 1H, 40mm	
HBK058	HBF058		RFS-JUMP-KIT	(1) 190 0621, Insert, M75, 3H, 22mm, Split w/ plugs	1
HBK012	HBF012		RFS-JUMP-KIT-2	(1) 190 0903, Insert, M75, 2H, 15mm, Split w/ plugs	I
FRK-N	FR-N		RFS-FIBER-KIT	(1) 190 0657, Insert, M75, 6H, 6.1mm, Split w/ plugs	