

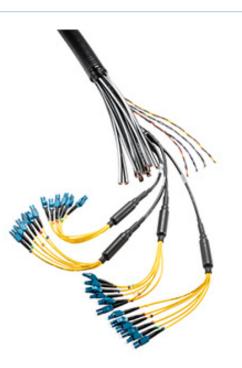
HYBRIFLEX® Hybrid Feeder Cabling Solution 12x24, 1-5/8", 12 pairs 6AWG, Low-Inductance Coaxial Power Wire, 24 pairs Single-Mode Fiber, DLC Connectors, 590 ft

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)	179.8 (590)		
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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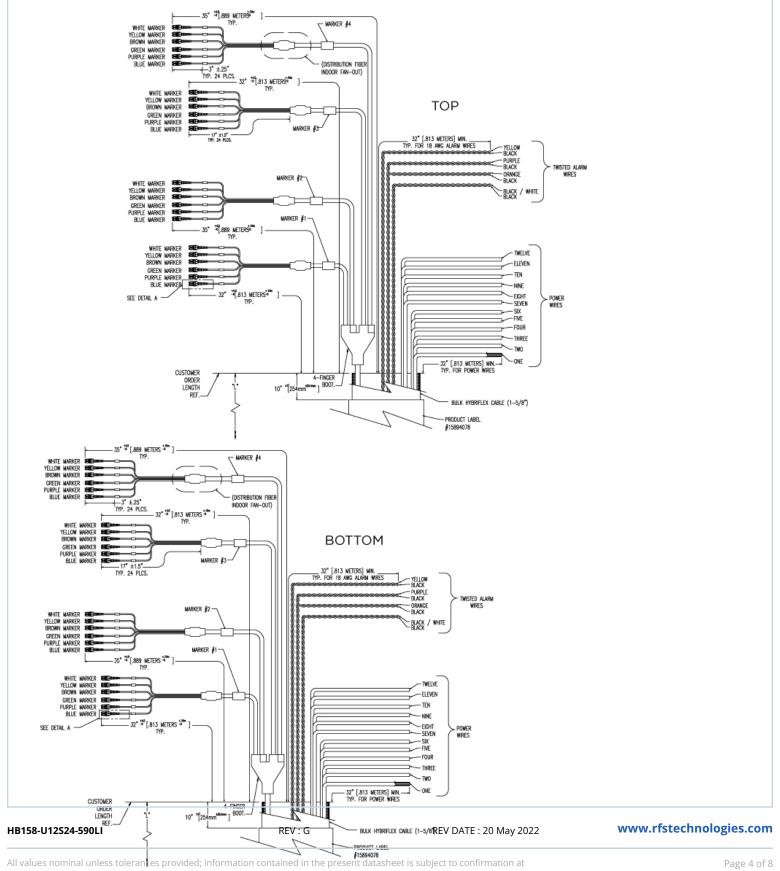
TESTING AND ENVIRONMENTAL			
Storage Temperature	°C (°F)	-40 to 70 (-40 to 158)	
Operation Temperature	°C (°F)	-40 to 65 (-40 to 149)	
Installation Temperature	°C (°F)	-20 to 65 (-4 to 149)	
Jacket Specifications		UL2882, UL Listed	

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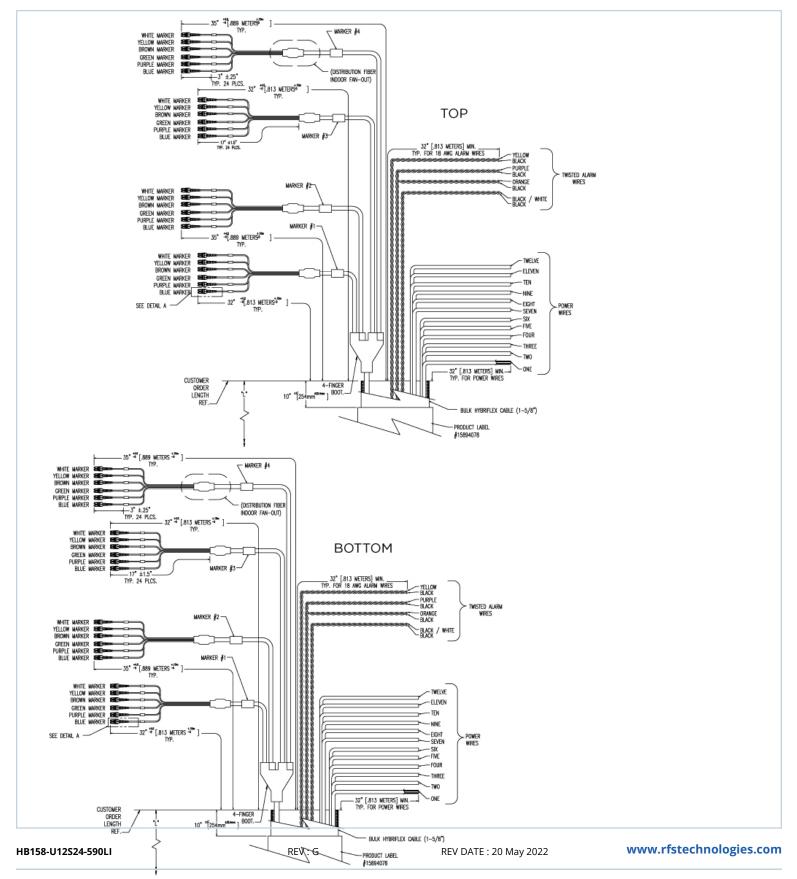


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HYBRIFLEX® Hybrid Feeder Cabling Solution 12x24, 1-5/8", 12 pairs 6AWG, Low-Inductance Coaxial Power Wire, 24 pairs Single-Mode Fiber, DLC Connectors, 590 ft

Length (ft) Model Number 10 HB158-U12S24-10-LI 20 HB158-U12S24-20-LI 30 HB158-U12S24-30-LI 40 HB158-U12S24-30-LI 50 HB158-U12S24-50-LI 60 HB158-U12S24-50-LI 60 HB158-U12S24-50-LI 60 HB158-U12S24-70-LI 80 HB158-U12S24-70-LI 100 HB158-U12S24-100LI 110 HB158-U12S24-100LI 120 HB158-U12S24-100LI 150 HB158-U12S24-100LI 160 HB158-U12S24-100LI 170 HB158-U12S24-100LI 180 HB158-U12S24-200LI 210 HB158-U12S24-200LI 220 HB158-U12S24-200LI 230 HB158-U12S24-200LI <t< th=""><th colspan="4">ADDITIONAL ASSEMBLY LENGTHS</th></t<>	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		
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70 HB158-U12S24-70-LI 80 HB158-U12S24-80-LI 90 HB158-U12S24-90-LI 100 HB158-U12S24-100LI 110 HB158-U12S24-10LI 120 HB158-U12S24-110LI 120 HB158-U12S24-120LI 130 HB158-U12S24-130LI 140 HB158-U12S24-130LI 150 HB158-U12S24-140LI 150 HB158-U12S24-140LI 160 HB158-U12S24-150LI 160 HB158-U12S24-160LI 170 HB158-U12S24-170LI 180 HB158-U12S24-170LI 180 HB158-U12S24-190LI 200 HB158-U12S24-190LI 210 HB158-U12S24-200LI 220 HB158-U12S24-20LI 230 HB158-U12S24-20LI 230 HB158-U12S24-20LI 250 HB158-U12S24-250LI 260 HB158-U12S24-250LI 270 HB158-U12S24-260LI 270 HB158-U12S24-260LI 270 HB158-U12S24-260LI 270 HB158-U12S24-20LI 280 HB158-U12S24-20LI 290	50	HB158-U12S24-50-LI		
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110 HB158-U12S24-110LI 120 HB158-U12S24-120LI 130 HB158-U12S24-130LI 140 HB158-U12S24-130LI 140 HB158-U12S24-140LI 150 HB158-U12S24-150LI 160 HB158-U12S24-160LI 170 HB158-U12S24-160LI 170 HB158-U12S24-170LI 180 HB158-U12S24-180LI 190 HB158-U12S24-190LI 200 HB158-U12S24-200LI 210 HB158-U12S24-200LI 220 HB158-U12S24-200LI 230 HB158-U12S24-200LI 230 HB158-U12S24-200LI 250 HB158-U12S24-200LI 270 HB158-U12S24-200LI 270 HB158-U12S24-200LI 280 HB158-U12S24-200LI <td< th=""><th>90</th><th>HB158-U12S24-90-LI</th></td<>	90	HB158-U12S24-90-LI		
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140 HB158-U12S24-140LI 150 HB158-U12S24-150LI 160 HB158-U12S24-160LI 170 HB158-U12S24-170LI 180 HB158-U12S24-180LI 190 HB158-U12S24-190LI 200 HB158-U12S24-200LI 210 HB158-U12S24-200LI 220 HB158-U12S24-200LI 230 HB158-U12S24-200LI 230 HB158-U12S24-200LI 250 HB158-U12S24-200LI 260 HB158-U12S24-200LI 270 HB158-U12S24-200LI 280 HB158-U12S24-200LI 290 HB158-U12S24-200LI 300 HB158-U12S24-300LI	120	HB158-U12S24-120LI		
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160 HB158-U12S24-160LI 170 HB158-U12S24-170LI 180 HB158-U12S24-180LI 190 HB158-U12S24-190LI 200 HB158-U12S24-200LI 210 HB158-U12S24-210LI 220 HB158-U12S24-210LI 230 HB158-U12S24-220LI 230 HB158-U12S24-230LI 240 HB158-U12S24-230LI 250 HB158-U12S24-250LI 260 HB158-U12S24-260LI 270 HB158-U12S24-270LI 280 HB158-U12S24-280LI 290 HB158-U12S24-290LI 300 HB158-U12S24-300LI	140	HB158-U12S24-140LI		
170 HB158-U12S24-170LI 180 HB158-U12S24-180LI 190 HB158-U12S24-190LI 200 HB158-U12S24-200LI 210 HB158-U12S24-210LI 220 HB158-U12S24-220LI 230 HB158-U12S24-220LI 230 HB158-U12S24-230LI 240 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	150	HB158-U12S24-150LI		
180 HB158-U12S24-180LI 190 HB158-U12S24-190LI 200 HB158-U12S24-200LI 210 HB158-U12S24-210LI 220 HB158-U12S24-210LI 230 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	160	HB158-U12S24-160LI		
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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		
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	290	HB158-U12S24-290LI		
310 HB158-U12S24-310LI	300	HB158-U12S24-300LI		
	310	HB158-U12S24-310LI		
320 HB158-U12524-320LI	320	HB158-U12S24-320LI		
330 HB158-U12S24-330LI	330	HB158-U12S24-330LI		
340 HB158-U12S24-340LI	340	HB158-U12S24-340LI		
350 HB158-U12S24-350LI	350	HB158-U12S24-350LI		

EXTERNAL DOCUMENT LINKS

HB158-U12S24-590LI

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

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		
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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

HB15	8-U12	S24-5	90LI

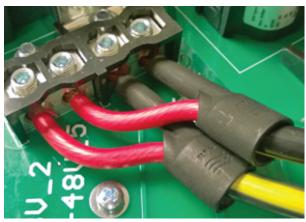
REV DATE : 20 May 2022



HYBRIFLEX® Hybrid Feeder Cabling Solution 12x24, 1-5/8", 12 pairs 6AWG, Low-Inductance Coaxial Power Wire, 24 pairs Single-Mode Fiber, DLC Connectors, 590 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	

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HB158-U12S24-590LI
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