

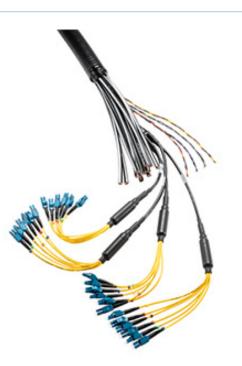
HYBRIFLEX® Hybrid Feeder Cabling Solution 12x24, 1-5/8", 12 pairs 6AWG, Low-Inductance Coaxial Power Wire, 24 pairs Single-Mode Fiber, DLC Connectors, 500 ft

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

SINCEFORE				
Cable Type		HYBRIFLEX® Low Inductance		
Fire Performance		Flame Retardant		
Size		1-5/8"		
Length	m (ft)	152.4 (500)		
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)		

HB158-U12S24-500LI

REV : G

REV DATE : 20 May 2022



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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	

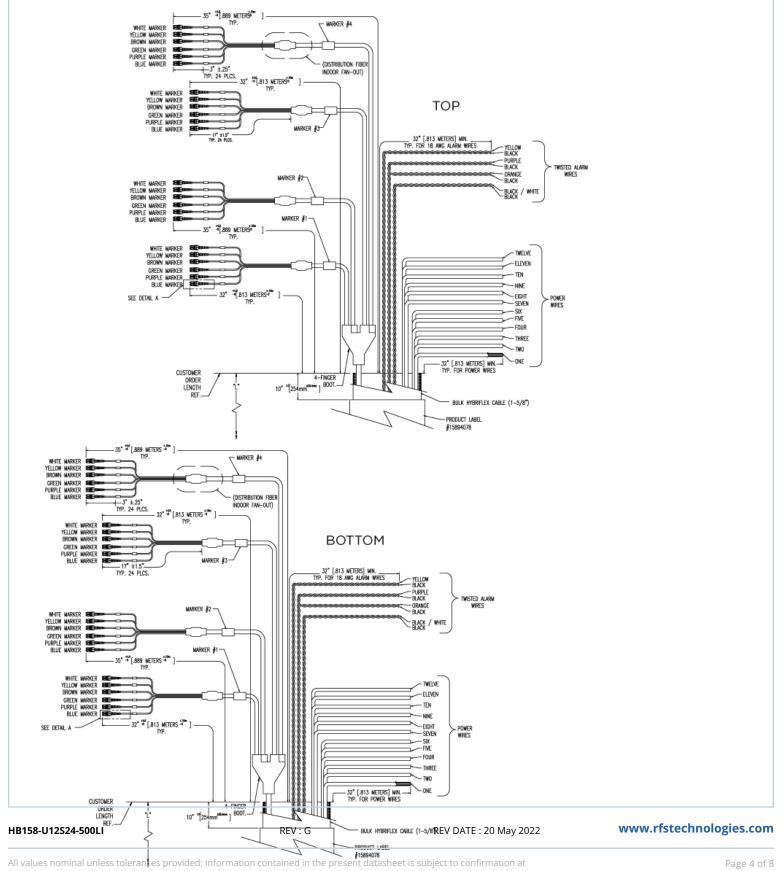
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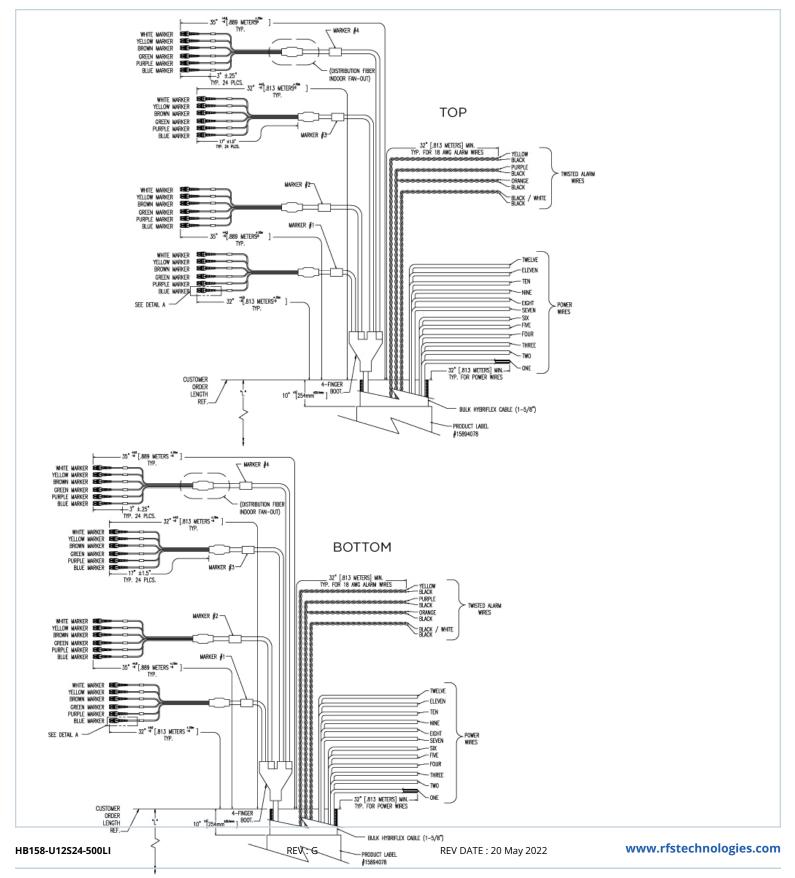


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Length (ft)Model Number10HB158-U12S24-10-LI20HB158-U12S24-20-LI30HB158-U12S24-30-LI40HB158-U12S24-30-LI40HB158-U12S24-50-LI50HB158-U12S24-50-LI60HB158-U12S24-60-LI70HB158-U12S24-70-LI80HB158-U12S24-70-LI90HB158-U12S24-70-LI100HB158-U12S24-100LI110HB158-U12S24-100LI120HB158-U12S24-100LI130HB158-U12S24-100LI140HB158-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-U12S24-10UI       220     HB158-U12S24-20UI       230     HB158-U12S24-20UI       230     HB158-U12S24-230LI       240     HB158-U12S24-230LI       250     HB158-U12S24-230LI       250     HB158-U12S24-230LI <t< th=""><th>10</th><th>HB158-U12S24-10-LI</th></t<>	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			
60   HB158-U12S24-60-LI     70   HB158-U12S24-60-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-U12S24-110LI     140   HB158-U12S24-130LI     150   HB158-U12S24-130LI     160   HB158-U12S24-140LI     170   HB158-U12S24-140LI     180   HB158-U12S24-140LI     190   HB158-U12S24-140LI     121   HB158-U12S24-140LI     122   HB158-U12S24-140LI     130   HB158-U12S24-160LI     170   HB158-U12S24-170LI     180   HB158-U12S24-190LI     200   HB158-U12S24-200LI     210   HB158-U12S24-200LI     220   HB158-U12S24-200LI     230   HB158-U12S24-200LI     250   HB158-U12S24-200LI     250   HB158-U12S24-200LI     250   HB158-U12S24-200LI     260   HB158-U12S24-200LI     270   HB158-U12S24-200LI     280 <th>40</th> <th>HB158-U12S24-40-LI</th>	40	HB158-U12S24-40-LI			
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No. 100 C. 100	60	HB158-U12S24-60-LI			
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100   HB158-U12S24-100LI     110   HB158-U12S24-100LI     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     180   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     250   HB158-U12S24-200LI     260   HB158-U12S24-200LI     270   HB158-U12S24-260LI     270   HB158-U12S24-260LI     270   HB158-U12S24-280LI     290   HB158-U12S24-290LI     300   HB158-U12S24-300LI	80	HB158-U12S24-80-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     250   HB158-U12S24-200LI     250   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			
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190   HB158-U12S24-190LI     200   HB158-U12S24-200LI     210   HB158-U12S24-210LI     220   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	170	HB158-U12S24-170LI			
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-U12S24-500LI

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, 500 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

HB158-U12S24-500LI
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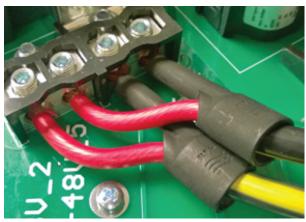
REV DATE : 20 May 2022



HYBRIFLEX® Hybrid Feeder Cabling Solution 12x24, 1-5/8", 12 pairs 6AWG, Low-Inductance Coaxial Power Wire, 24 pairs Single-Mode Fiber, DLC Connectors, 500 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	

REV DATE : 20 May 2022