

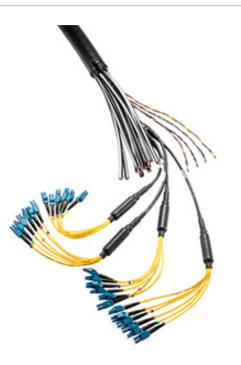
HYBRIFLEX® Hybrid Feeder Cabling Solution 12x24, 1-5/8", 12 pairs 6AWG, Low-Inductance Coaxial Power Wire, 24 pairs Single-Mode Fiber, DLC Connectors, 220 ft

RFS Technologies' 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 Technologies 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

Cable Type		HYBRIFLEX® Low Inductance		
Fire Performance		Flame Retardant		
Size		1-5/8"		
Length	m (ft)	67 (220)		
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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REV DATE : 20 May 2022



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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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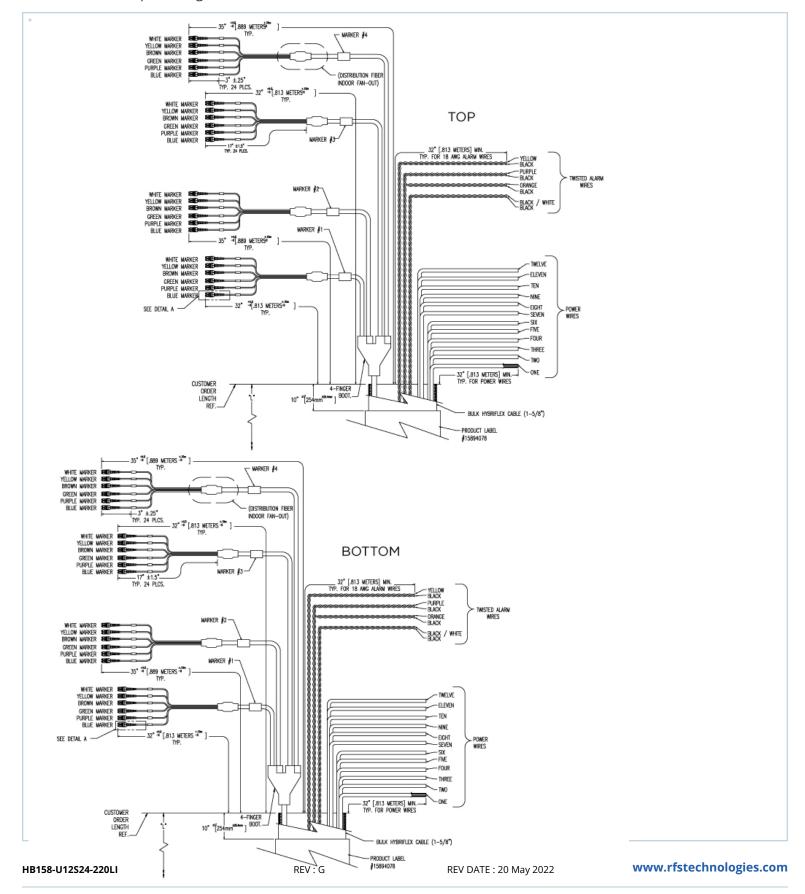


TESTING AND ENVIRONMENTAL		
Storage Temperature	°C (°F)	-40 to 70 (-40 to 158)
Operation Temperature	°C (°F)	-40 to 65 (-40 to 149)
Installation Temperature	°C (°F)	-20 to 65 (-4 to 149)
Jacket Specifications		UL2882, UL Listed











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Length (ft)Model Number10HB158-U12S24-10-LI20HB158-U12S24-20-LI30HB158-U12S24-30-LI40HB158-U12S24-40-LI50HB158-U12S24-50-LI60HB158-U12S24-60-LI70HB158-U12S24-80-LI80HB158-U12S24-90-LI100HB158-U12S24-10LI110HB158-U12S24-10LI111HB158-U12S24-10LI112HB158-U12S24-10LI113HB158-U12S24-10LI114HB158-U12S24-130LI115HB158-U12S24-130LI116HB158-U12S24-130LI117HB158-U12S24-130LI180HB158-U12S24-130LI190HB158-U12S24-130LI180HB158-U12S24-130LI190HB158-U12S24-130LI200HB158-U12S24-130LI210HB158-U12S24-20UI221HB158-U12S24-20UI230HB158-U12S24-20UI240HB158-U12S24-20UI250HB158-U12S24-20UI250HB158-U12S24-20UI260HB158-U12S24-20UI270HB158-U12S24-20UI280HB158-U12S24-20UI300HB158-U12S24-30UI310HB158-U12S24-30UI320HB158-U12S24-30UI330HB158-U12S24-30UI330HB158-U12S24-30UI330HB158-U12S24-30UI330HB158-U12S24-30UI330HB158-U12S24-30UI330HB158-U12S24-30UI330HB158-U12S24-30UI	ADDITIONAL ASSEMBLY LENGTHS				
Interference       20     HB158-U12S24-20-LI       30     HB158-U12S24-30-LI       40     HB158-U12S24-40-LI       50     HB158-U12S24-40-LI       60     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-U12S24-100LI       110     HB158-U12S24-100LI       120     HB158-U12S24-100LI       130     HB158-U12S24-130LI       140     HB158-U12S24-130LI       150     HB158-U12S24-130LI       160     HB158-U12S24-130LI       170     HB158-U12S24-130LI       180     HB158-U12S24-130LI       190     HB158-U12S24-130LI       190     HB158-U12S24-130LI       200     HB158-U12S24-230LI       210     HB158-U12S24-230LI       220     HB158-U12S24-230LI       230     HB158-U12S24-230LI       250     HB158-U12S24-230LI       250     HB158-U12S24-230LI       260 <th>Length (ft)</th> <th>Model Number</th>	Length (ft)	Model Number			
30     HB 158-U12S24-30-LI       40     HB 158-U12S24-40-LI       50     HB 158-U12S24-60-LI       60     HB 158-U12S24-60-LI       70     HB 158-U12S24-70-LI       80     HB 158-U12S24-80-LI       90     HB 158-U12S24-90-LI       100     HB 158-U12S24-90-LI       100     HB 158-U12S24-100LI       110     HB 158-U12S24-100LI       120     HB 158-U12S24-100LI       130     HB 158-U12S24-100LI       140     HB 158-U12S24-130LI       140     HB 158-U12S24-130LI       150     HB 158-U12S24-140LI       150     HB 158-U12S24-140LI       150     HB 158-U12S24-150LI       160     HB 158-U12S24-160LI       170     HB 158-U12S24-160LI       170     HB 158-U12S24-10LI       200     HB 158-U12S24-200LI       210     HB 158-U12S24-200LI       220     HB 158-U12S24-200LI       230     HB 158-U12S24-200LI       240     HB 158-U12S24-200LI       250     HB 158-U12S24-200LI       250     HB 158-U	10	HB158-U12S24-10-LI			
40     HB158-U12S24-40-LI       50     HB158-U12S24-50-LI       60     HB158-U12S24-50-LI       60     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       160     HB158-U12S24-100LI       170     HB158-U12S24-100LI       180     HB158-U12S24-100LI       170     HB158-U12S24-100LI       180     HB158-U12S24-100LI       190     HB158-U12S24-100LI       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 <th>20</th> <th>HB158-U12S24-20-LI</th>	20	HB158-U12S24-20-LI			
Number     Hubber       50     HB158-U12S24-50-LI       60     HB158-U12S24-60-LI       70     HB158-U12S24-70-LI       80     HB158-U12S24-90-LI       90     HB158-U12S24-90-LI       100     HB158-U12S24-100LI       110     HB158-U12S24-100LI       110     HB158-U12S24-100LI       120     HB158-U12S24-100LI       130     HB158-U12S24-130LI       140     HB158-U12S24-130LI       150     HB158-U12S24-130LI       160     HB158-U12S24-130LI       170     HB158-U12S24-130LI       180     HB158-U12S24-130LI       170     HB158-U12S24-130LI       180     HB158-U12S24-130LI       190     HB158-U12S24-200LI       210     HB158-U12S24-200LI       220     HB158-U12S24-200LI       230     HB158-U12S24-200LI       240     HB158-U12S24-200LI       250     HB158-U12S24-200LI       250     HB158-U12S24-200LI       250     HB158-U12S24-200LI       250     HB158-U12S24-200LI <t< th=""><th>30</th><th>HB158-U12S24-30-LI</th></t<>	30	HB158-U12S24-30-LI			
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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-U12S24-100LI       120     HB158-U12S24-110LI       130     HB158-U12S24-130LI       140     HB158-U12S24-130LI       150     HB158-U12S24-130LI       160     HB158-U12S24-140LI       170     HB158-U12S24-170LI       180     HB158-U12S24-170LI       180     HB158-U12S24-170LI       180     HB158-U12S24-170LI       180     HB158-U12S24-170LI       180     HB158-U12S24-170LI       180     HB158-U12S24-200LI       200     HB158-U12S24-200LI       210     HB158-U12S24-200LI       220     HB158-U12S24-200LI       230     HB158-U12S24-200LI       240     HB158-U12S24-200LI       250     HB158-U12S24-200LI       260     HB158-U12S24-200LI       270     HB158-U12S24-200LI       280     HB158-U12S24-200LI       300     HB158-U12S24-300LI <	50	HB158-U12S24-50-LI			
No. 1000     HB 158-U12S24-80-LI       90     HB 158-U12S24-90-LI       100     HB 158-U12S24-100LI       110     HB 158-U12S24-100LI       120     HB 158-U12S24-110LI       130     HB 158-U12S24-130LI       140     HB 158-U12S24-130LI       150     HB 158-U12S24-130LI       160     HB 158-U12S24-140LI       170     HB 158-U12S24-160LI       170     HB 158-U12S24-160LI       170     HB 158-U12S24-170LI       180     HB 158-U12S24-190LI       200     HB 158-U12S24-190LI       210     HB 158-U12S24-190LI       220     HB 158-U12S24-200LI       211     HB 158-U12S24-200LI       220     HB 158-U12S24-200LI       210     HB 158-U12S24-200LI       220     HB 158-U12S24-200LI       220     HB 158-U12S24-200LI       230     HB 158-U12S24-200LI       250     HB 158-U12S24-200LI       260     HB 158-U12S24-200LI       270     HB 158-U12S24-200LI       280     HB 158-U12S24-200LI       290	60	HB158-U12S24-60-LI			
90     HB158-U12S24-90-LI       100     HB158-U12S24-100LI       110     HB158-U12S24-110LI       120     HB158-U12S24-110LI       130     HB158-U12S24-120LI       130     HB158-U12S24-130LI       140     HB158-U12S24-140LI       150     HB158-U12S24-140LI       160     HB158-U12S24-150LI       160     HB158-U12S24-170LI       180     HB158-U12S24-170LI       180     HB158-U12S24-170LI       180     HB158-U12S24-170LI       180     HB158-U12S24-170LI       180     HB158-U12S24-170LI       180     HB158-U12S24-200LI       210     HB158-U12S24-200LI       220     HB158-U12S24-200LI       230     HB158-U12S24-200LI       240     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       310     HB158-U12S24-310LI	70	HB158-U12S24-70-LI			
100     HB158-U12S24-100LI       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-U12S24-170LI       180     HB158-U12S24-190LI       190     HB158-U12S24-190LI       200     HB158-U12S24-200LI       210     HB158-U12S24-200LI       220     HB158-U12S24-200LI       210     HB158-U12S24-200LI       220     HB158-U12S24-200LI       230     HB158-U12S24-200LI       240     HB158-U12S24-200LI       250     HB158-U12S24-200LI       260     HB158-U12S24-200LI       270     HB158-U12S24-200LI       280     HB158-U12S24-200LI       270     HB158-U12S24-200LI       300     HB158-U12S24-200LI       310     HB158-U12S24-200LI       320     HB158-U12S24-300LI       320     HB158-U12S24-300LI	80	HB158-U12S24-80-LI			
110   HB158-U12S24-110LI     120   HB158-U12S24-120LI     130   HB158-U12S24-130LI     140   HB158-U12S24-130LI     150   HB158-U12S24-140LI     150   HB158-U12S24-160LI     160   HB158-U12S24-160LI     170   HB158-U12S24-170LI     180   HB158-U12S24-190LI     200   HB158-U12S24-190LI     210   HB158-U12S24-200LI     220   HB158-U12S24-200LI     230   HB158-U12S24-200LI     250   HB158-U12S24-200LI     260   HB158-U12S24-200LI     270   HB158-U12S24-200LI     300   HB158-U12S24-200LI     310   HB158-U12S24-300LI     310   HB158-U12S24-300LI     320   HB158-U12S24-300LI     330   HB158-U12S24-300LI <td< th=""><th>90</th><th>HB158-U12S24-90-LI</th></td<>	90	HB158-U12S24-90-LI			
120   HB158-U12S24-120LI     130   HB158-U12S24-130LI     140   HB158-U12S24-140LI     150   HB158-U12S24-150LI     160   HB158-U12S24-160LI     170   HB158-U12S24-170LI     180   HB158-U12S24-190LI     190   HB158-U12S24-190LI     200   HB158-U12S24-200LI     210   HB158-U12S24-200LI     220   HB158-U12S24-200LI     230   HB158-U12S24-200LI     240   HB158-U12S24-200LI     250   HB158-U12S24-200LI     260   HB158-U12S24-200LI     270   HB158-U12S24-200LI     280   HB158-U12S24-200LI     300   HB158-U12S24-200LI     310   HB158-U12S24-200LI     330   HB158-U12S24-200LI     330   HB158-U12S24-200LI     330   HB158-U12S24-200LI     330   HB158-U12S24-300LI     330   HB158-U12S24-300LI     340   HB158-U12S24-300LI	100	HB158-U12S24-100LI			
130   HB158-U12S24-130LI     140   HB158-U12S24-130LI     150   HB158-U12S24-150LI     160   HB158-U12S24-160LI     170   HB158-U12S24-170LI     180   HB158-U12S24-170LI     180   HB158-U12S24-190LI     200   HB158-U12S24-190LI     200   HB158-U12S24-200LI     210   HB158-U12S24-20LI     220   HB158-U12S24-20LI     230   HB158-U12S24-20LI     240   HB158-U12S24-20LI     250   HB158-U12S24-20LI     260   HB158-U12S24-20LI     250   HB158-U12S24-20LI     250   HB158-U12S24-20LI     250   HB158-U12S24-20LI     260   HB158-U12S24-20LI     270   HB158-U12S24-20LI     280   HB158-U12S24-20LI     300   HB158-U12S24-300LI     310   HB158-U12S24-300LI     320   HB158-U12S24-300LI     330   HB158-U12S24-300LI     330   HB158-U12S24-300LI     340   HB158-U12S24-340LI	110	HB158-U12S24-110LI			
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     230   HB158-U12S24-200LI     230   HB158-U12S24-200LI     240   HB158-U12S24-200LI     250   HB158-U12S24-200LI     260   HB158-U12S24-200LI     270   HB158-U12S24-200LI     280   HB158-U12S24-200LI     300   HB158-U12S24-200LI     310   HB158-U12S24-300LI     320   HB158-U12S24-300LI     330   HB158-U12S24-300LI     330   HB158-U12S24-300LI     340   HB158-U12S24-300LI	120	HB158-U12S24-120LI			
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-U12S24-20LI     220   HB158-U12S24-20LI     230   HB158-U12S24-20LI     230   HB158-U12S24-20LI     230   HB158-U12S24-20LI     230   HB158-U12S24-20LI     230   HB158-U12S24-20LI     230   HB158-U12S24-20LI     240   HB158-U12S24-20LI     250   HB158-U12S24-20LI     260   HB158-U12S24-20LI     270   HB158-U12S24-20LI     280   HB158-U12S24-20LI     290   HB158-U12S24-20LI     300   HB158-U12S24-30LI     310   HB158-U12S24-30LI     320   HB158-U12S24-30LI     330   HB158-U12S24-30LI     340   HB158-U12S24-340LI	130	HB158-U12S24-130LI			
160   HB158-U12S24-160LI     170   HB158-U12S24-170LI     180   HB158-U12S24-180LI     190   HB158-U12S24-190LI     200   HB158-U12S24-200LI     210   HB158-U12S24-20LI     220   HB158-U12S24-20LI     230   HB158-U12S24-20LI     230   HB158-U12S24-20LI     230   HB158-U12S24-20LI     230   HB158-U12S24-20LI     240   HB158-U12S24-20LI     250   HB158-U12S24-20LI     260   HB158-U12S24-20LI     270   HB158-U12S24-20LI     280   HB158-U12S24-20LI     300   HB158-U12S24-20LI     310   HB158-U12S24-300LI     310   HB158-U12S24-300LI     320   HB158-U12S24-300LI     330   HB158-U12S24-300LI     340   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-U12S24-20LI     220   HB158-U12S24-20LI     230   HB158-U12S24-20LI     230   HB158-U12S24-20LI     230   HB158-U12S24-20LI     230   HB158-U12S24-20LI     240   HB158-U12S24-20LI     250   HB158-U12S24-20LI     260   HB158-U12S24-20LI     270   HB158-U12S24-20LI     280   HB158-U12S24-20LI     290   HB158-U12S24-20LI     300   HB158-U12S24-30LI     310   HB158-U12S24-30LI     320   HB158-U12S24-30LI     330   HB158-U12S24-30LI     340   HB158-U12S24-30LI	150	HB158-U12S24-150LI			
180   HB158-U12S24-180LI     190   HB158-U12S24-190LI     200   HB158-U12S24-200LI     210   HB158-U12S24-210LI     220   HB158-U12S24-220LI     230   HB158-U12S24-230LI     240   HB158-U12S24-230LI     250   HB158-U12S24-240LI     250   HB158-U12S24-260LI     260   HB158-U12S24-260LI     270   HB158-U12S24-260LI     280   HB158-U12S24-280LI     290   HB158-U12S24-280LI     300   HB158-U12S24-300LI     310   HB158-U12S24-300LI     320   HB158-U12S24-300LI     330   HB158-U12S24-30LI     340   HB158-U12S24-340LI	160	HB158-U12S24-160LI			
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-U12S24-240LI     260   HB158-U12S24-260LI     270   HB158-U12S24-260LI     280   HB158-U12S24-280LI     290   HB158-U12S24-280LI     300   HB158-U12S24-300LI     310   HB158-U12S24-300LI     320   HB158-U12S24-300LI     330   HB158-U12S24-30LI     340   HB158-U12S24-340LI	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-U12S24-260LI     260   HB158-U12S24-260LI     270   HB158-U12S24-270LI     280   HB158-U12S24-280LI     290   HB158-U12S24-290LI     300   HB158-U12S24-300LI     310   HB158-U12S24-310LI     320   HB158-U12S24-320LI     330   HB158-U12S24-330LI     340   HB158-U12S24-340LI	180	HB158-U12S24-180LI			
210   HB158-U12S24-210LI     220   HB158-U12S24-220LI     230   HB158-U12S24-230LI     240   HB158-U12S24-240LI     250   HB158-U12S24-240LI     260   HB158-U12S24-260LI     270   HB158-U12S24-260LI     280   HB158-U12S24-280LI     290   HB158-U12S24-290LI     300   HB158-U12S24-300LI     310   HB158-U12S24-300LI     320   HB158-U12S24-30LI     330   HB158-U12S24-30LI     340   HB158-U12S24-340LI	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     310   HB158-U12S24-310LI     320   HB158-U12S24-320LI     330   HB158-U12S24-330LI     340   HB158-U12S24-340LI	200	HB158-U12S24-200LI			
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     310   HB158-U12S24-30LI     320   HB158-U12S24-320LI     330   HB158-U12S24-320LI     340   HB158-U12S24-340LI	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     310   HB158-U12S24-310LI     320   HB158-U12S24-330LI     330   HB158-U12S24-340LI	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     310   HB158-U12S24-310LI     320   HB158-U12S24-320LI     330   HB158-U12S24-320LI     340   HB158-U12S24-340LI	230	HB158-U12S24-230LI			
260   HB158-U12S24-260LI     270   HB158-U12S24-270LI     280   HB158-U12S24-280LI     290   HB158-U12S24-290LI     300   HB158-U12S24-300LI     310   HB158-U12S24-310LI     320   HB158-U12S24-320LI     330   HB158-U12S24-330LI     340   HB158-U12S24-340LI	240	HB158-U12S24-240LI			
270   HB158-U12S24-270LI     280   HB158-U12S24-280LI     290   HB158-U12S24-290LI     300   HB158-U12S24-300LI     310   HB158-U12S24-310LI     320   HB158-U12S24-320LI     330   HB158-U12S24-320LI     340   HB158-U12S24-340LI	250	HB158-U12S24-250LI			
280   HB158-U12S24-280LI     290   HB158-U12S24-290LI     300   HB158-U12S24-300LI     310   HB158-U12S24-310LI     320   HB158-U12S24-320LI     330   HB158-U12S24-330LI     340   HB158-U12S24-340LI	260	HB158-U12S24-260LI			
290     HB158-U12S24-290LI       300     HB158-U12S24-300LI       310     HB158-U12S24-310LI       320     HB158-U12S24-320LI       330     HB158-U12S24-320LI       340     HB158-U12S24-340LI	270	HB158-U12S24-270LI			
300   HB158-U12S24-300LI     310   HB158-U12S24-310LI     320   HB158-U12S24-320LI     330   HB158-U12S24-330LI     340   HB158-U12S24-340LI	280	HB158-U12S24-280LI			
310   HB158-U12S24-310LI     320   HB158-U12S24-320LI     330   HB158-U12S24-330LI     340   HB158-U12S24-340LI	290	HB158-U12S24-290LI			
320     HB158-U12S24-320LI       330     HB158-U12S24-330LI       340     HB158-U12S24-340LI	300	HB158-U12S24-300LI			
330     HB158-U12S24-330LI       340     HB158-U12S24-340LI	310	HB158-U12S24-310LI			
<b>340</b> HB158-U12S24-340LI	320	HB158-U12S24-320LI			
	330	HB158-U12S24-330LI			
350 HB158-U12S24-350LI	340	HB158-U12S24-340LI			
	350	HB158-U12S24-350LI			

## EXTERNAL DOCUMENT LINKS

#### HB158-U12S24-220LI



HYBRIFLEX® Hybrid Feeder Cabling Solution 12x24, 1-5/8", 12 pairs 6AWG, Low-Inductance Coaxial Power Wire, 24 pairs Single-Mode Fiber, DLC Connectors, 220 ft

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

#### ADDITIONAL ASSEMBLY LENGTHS

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

#### HB158-U12S24-220LI

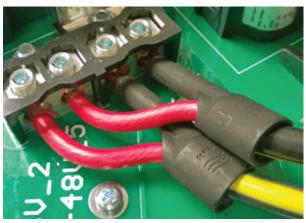
REV : G



HYBRIFLEX® Hybrid Feeder Cabling Solution 12x24, 1-5/8", 12 pairs 6AWG, Low-Inductance Coaxial Power Wire, 24 pairs Single-Mode Fiber, DLC Connectors, 220 ft

DC wires after stripping the jacket, avoiding possible short-circuits while wiring it to the distribution boxes.

**DC INSULATING BOOT** 



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

RFS Technologies 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 Technologies- TRUNK-KIT	(2) 190 0620, Insert, M75, 1H, 40mm	
HBK058	HBF058		RFS Technologies- JUMP-KIT	(1) 190 0621, Insert, M75, 3H, 22mm, Split w/ plugs	1
НВК012	HBF012		RFS Technologies- JUMP-KIT-2	(1) 190 0903, Insert, M75, 2H, 15mm, Split w/ plugs	1
FRK-N	FR-N		RFS Technologies- FIBER-KIT	(1) 190 0657, Insert, M75, 6H, 6.1mm, Split w/ plugs	