

HB158-U12S24-90-LI

HYBRIFLEX® Hybrid Feeder Cabling Solution 12x24, 1-5/8", 12 pairs 6AWG, Low-Inductance Coaxial Power Wire, 24 pairs Single-Mode Fiber, DLC Connectors, 90 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
- $\bullet \ \text{Maximum robustness} \text{Fully armored cable includes riser trunk and top outdoor breakout} \\$





TECHNICAL FEATURES

STRUCTURE

Cable Type		HYBRIFLEX® Low Inductance
Fire Performance		Flame Retardant
Size		1-5/8"
Length	m (ft)	27.4 (90)

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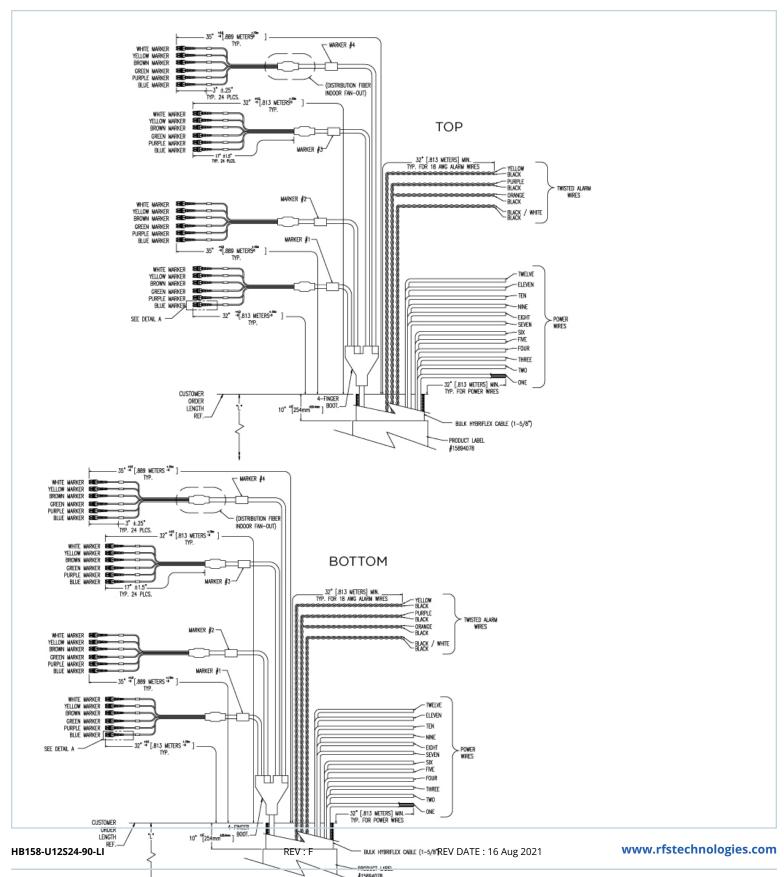
TESTING AND ENVIRONMENTAL				
Storage Temperature	°C (°F)	-40 to 70 (-40 to 158)		
Operation Temperature	°C (°F)	-40 to 65 (-40 to 149)		
Installation Temperature	°C (°F)	-20 to 65 (-4 to 149)		
Jacket Specifications		UL2882, UL Listed		

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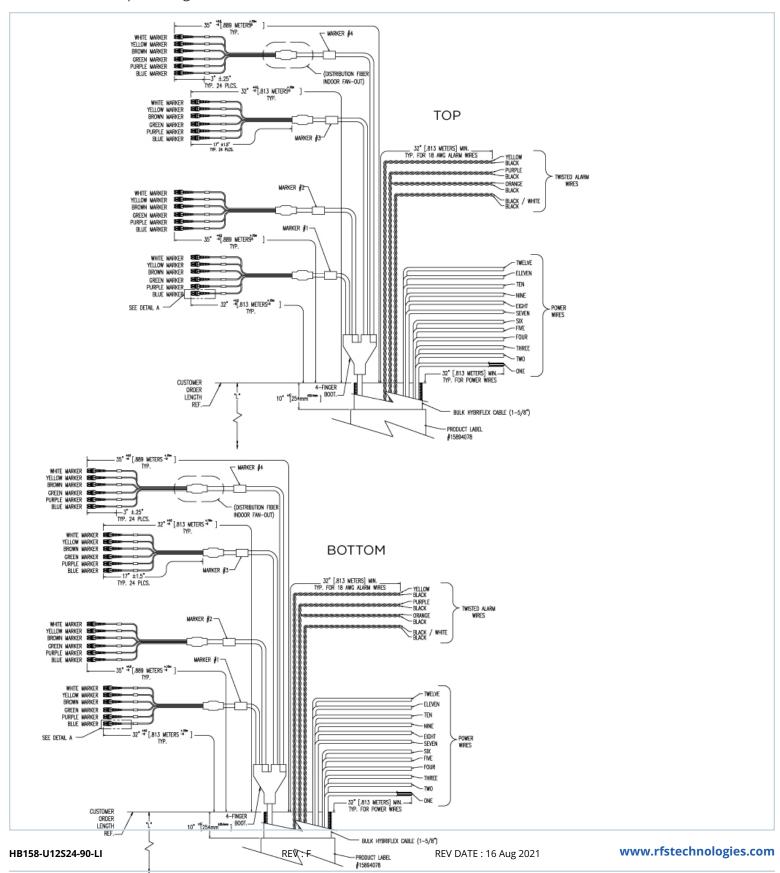
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ADDITIONAL ASSEMBLY LENGTHS

Length (ft) Model Number 10 HB158-U12S24-10-LI 20 HB158-U12S24-20-LI 30 HB158-U12S24-30-LI 40 HB158-U12S24-40-LI 50 HB158-U12S24-50-LI 60 HB158-U12S24-60-LI 70 HB158-U12S24-80-LI 90 HB158-U12S24-90-LI 100 HB158-U12S24-100LI 110 HB158-U12S24-110LI 120 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-U12S24-10LI 190 HB158-U12S24-190LI 200 HB158-U12S24-20LI 210 HB158-U12S24-20LI 220 HB158-U12S24-20LI 230 HB158-U12S24-20LI 240 HB158-U12S24-20LI 250 HB158-U12S24-20LI 260 HB158-U12S24-20LI 270 HB158-U12S24-20LI <tr< th=""><th colspan="5">ADDITIONAL ASSEMBLY LENGTHS</th></tr<>	ADDITIONAL ASSEMBLY LENGTHS				
20 HB158-U12S24-20-LI 30 HB158-U12S24-30-LI 40 HB158-U12S24-40-LI 50 HB158-U12S24-50-LI 60 HB158-U12S24-60-LI 70 HB158-U12S24-80-LI 80 HB158-U12S24-80-LI 90 HB158-U12S24-10-LI 110 HB158-U12S24-10-LI 120 HB158-U12S24-110-LI 130 HB158-U12S24-130-LI 140 HB158-U12S24-140-LI 150 HB158-U12S24-140-LI 150 HB158-U12S24-140-LI 150 HB158-U12S24-140-LI 160 HB158-U12S24-160-LI 170 HB158-U12S24-160-LI 170 HB158-U12S24-170-LI 180 HB158-U12S24-190-LI 200 HB158-U12S24-190-LI 200 HB158-U12S24-190-LI 210 HB158-U12S24-20-LI 220 HB158-U12S24-20-LI 230 HB158-U12S24-20-LI 250 HB158-U12S24-20-LI 250 HB158-U12S24-20-LI 260 HB158-U12S24-20-LI 270 HB158-U12S24-20-LI 280 HB158-U12S24-20-LI 290 HB158-U12S24-290-LI 290 HB158-U12S24-290-LI 290 HB158-U12S24-290-LI 290 HB158-U12S24-290-LI	Length (ft)	Model Number			
30 HB158-U12S24-30-LI 40 HB158-U12S24-40-LI 50 HB158-U12S24-50-LI 60 HB158-U12S24-60-LI 70 HB158-U12S24-60-LI 70 HB158-U12S24-80-LI 90 HB158-U12S24-90-LI 100 HB158-U12S24-100LI 110 HB158-U12S24-10LI 120 HB158-U12S24-120LI 130 HB158-U12S24-130LI 140 HB158-U12S24-140LI 150 HB158-U12S24-150LI 160 HB158-U12S24-170LI 180 HB158-U12S24-170LI 180 HB158-U12S24-170LI 180 HB158-U12S24-170LI 180 HB158-U12S24-190LI 200 HB158-U12S24-20LI 210 HB158-U12S24-20LI 220 HB158-U12S24-20LI 230 HB158-U12S24-20LI 250 HB158-U12S24-20LI 250 HB158-U12S24-240LI 250 HB158-U12S24-250LI 260 HB158-U12S24-260LI 270 HB158-U12S24-270LI 280 HB158-U12S24-280LI 290 HB158-U12S24-290LI	10	HB158-U12S24-10-LI			
40 HB158-U12S24-40-LI 50 HB158-U12S24-50-LI 60 HB158-U12S24-60-LI 70 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-U12S24-10LI 120 HB158-U12S24-120LI 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-U12S24-20LI 210 HB158-U12S24-20LI 220 HB158-U12S24-20LI 230 HB158-U12S24-20LI 250 HB158-U12S24-20LI 250 HB158-U12S24-20LI 260 HB158-U12S24-20LI 270 HB158-U12S24-270LI 280 HB158-U12S24-280LI 290 HB158-U12S24-290LI	20	HB158-U12S24-20-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-U12S24-100LI 110 HB158-U12S24-110LI 120 HB158-U12S24-120LI 130 HB158-U12S24-130LI 140 HB158-U12S24-140LI 150 HB158-U12S24-150LI 160 HB158-U12S24-170LI 180 HB158-U12S24-170LI 180 HB158-U12S24-190LI 200 HB158-U12S24-20LI 210 HB158-U12S24-20LI 220 HB158-U12S24-20LI 230 HB158-U12S24-20LI 240 HB158-U12S24-240LI 250 HB158-U12S24-250LI 260 HB158-U12S24-270LI 280 HB158-U12S24-280LI 290 HB158-U12S24-300LI	30	HB158-U12S24-30-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-U12S24-110LI 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-U12S24-170LI 180 HB158-U12S24-190LI 200 HB158-U12S24-20LI 210 HB158-U12S24-20LI 220 HB158-U12S24-20LI 230 HB158-U12S24-20LI 240 HB158-U12S24-20LI 250 HB158-U12S24-20LI 260 HB158-U12S24-260LI 270 HB158-U12S24-270LI 280 HB158-U12S24-280LI 290 HB158-U12S24-290LI	40	HB158-U12S24-40-LI			
70 HB158-U12S24-70-LI 80 HB158-U12S24-80-LI 90 HB158-U12S24-90-LI 100 HB158-U12S24-100LI 110 HB158-U12S24-110LI 120 HB158-U12S24-120LI 130 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-U12S24-20LI 210 HB158-U12S24-20LI 220 HB158-U12S24-20LI 230 HB158-U12S24-20LI 240 HB158-U12S24-20LI 250 HB158-U12S24-260LI 270 HB158-U12S24-260LI 270 HB158-U12S24-270LI 280 HB158-U12S24-280LI 290 HB158-U12S24-280LI	50	HB158-U12S24-50-LI			
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110 HB158-U12S24-110LI 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-U12S24-180LI 190 HB158-U12S24-190LI 200 HB158-U12S24-20LI 210 HB158-U12S24-20LI 220 HB158-U12S24-20LI 230 HB158-U12S24-20LI 240 HB158-U12S24-240LI 250 HB158-U12S24-240LI 250 HB158-U12S24-240LI 270 HB158-U12S24-260LI 270 HB158-U12S24-270LI 280 HB158-U12S24-280LI 290 HB158-U12S24-290LI 300 HB158-U12S24-290LI	90	HB158-U12S24-90-LI			
120 HB158-U12S24-12OLI 130 HB158-U12S24-13OLI 140 HB158-U12S24-14OLI 150 HB158-U12S24-15OLI 160 HB158-U12S24-16OLI 170 HB158-U12S24-17OLI 180 HB158-U12S24-18OLI 190 HB158-U12S24-19OLI 200 HB158-U12S24-2OLI 210 HB158-U12S24-2OLI 220 HB158-U12S24-2OLI 230 HB158-U12S24-2OLI 240 HB158-U12S24-2OLI 250 HB158-U12S24-2OLI 260 HB158-U12S24-2OLI 270 HB158-U12S24-2OLI 280 HB158-U12S24-2OLI 280 HB158-U12S24-2OLI 290 HB158-U12S24-2OLI	100	HB158-U12S24-100LI			
130 HB158-U12S24-130LI 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-U12S24-20LI 210 HB158-U12S24-20LI 220 HB158-U12S24-210LI 220 HB158-U12S24-220LI 230 HB158-U12S24-220LI 240 HB158-U12S24-250LI 250 HB158-U12S24-240LI 250 HB158-U12S24-240LI 270 HB158-U12S24-260LI 270 HB158-U12S24-270LI 280 HB158-U12S24-280LI 290 HB158-U12S24-290LI 300 HB158-U12S24-290LI	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-U12S24-20LI 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-U12S24-270LI 280 HB158-U12S24-280LI 290 HB158-U12S24-300LI 300 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-U12S24-210LI 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-U12S24-300LI	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-U12S24-210LI 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-U12S24-300LI 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 240 HB158-U12S24-240LI 250 HB158-U12S24-240LI 250 HB158-U12S24-260LI 270 HB158-U12S24-260LI 270 HB158-U12S24-270LI 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-U12S24-220LI 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-U12S24-300LI	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-U12S24-250LI 260 HB158-U12S24-260LI 270 HB158-U12S24-270LI 280 HB158-U12S24-280LI 290 HB158-U12S24-300LI 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-U12S24-240LI 250 HB158-U12S24-250LI 260 HB158-U12S24-250LI 270 HB158-U12S24-270LI 280 HB158-U12S24-270LI 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 260 HB158-U12S24-260LI 270 HB158-U12S24-270LI 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			
300 HB158-U12S24-300LI	280	HB158-U12S24-280LI			
	290	HB158-U12S24-290LI			
210 HD1E0 H12C24 210H	300	HB158-U12S24-300LI			
HB130-U12324-310L1	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			
350 HB158-U12S24-350LI	350	HB158-U12S24-350LI			

EXTERNAL DOCUMENT LINKS

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Installation Guidelines: **Download**

QuickShip 2.0 Program Information: Download

On-line Factory Test Results: <u>View</u>

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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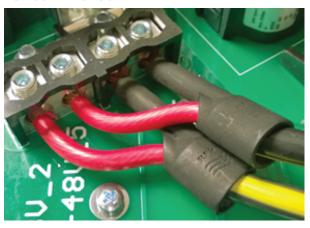


HB158-U12S24-90-LI

HYBRIFLEX® Hybrid Feeder Cabling Solution 12x24, 1-5/8", 12 pairs 6AWG, Low-Inductance Coaxial Power Wire, 24 pairs Single-Mode Fiber, DLC Connectors, 90 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	'
FRK-N	FR-N		RFS-FIBER-KIT	(1) 190 0657, Insert, M75, 6H, 6.1mm, Split w/ plugs	

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