PRODUCT DATASHEET

HK078-06U4M8-LLBB0007-XXX

HYBRIFLEX™ STANDARD - Trunk cable assembly for four RRHs

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

HYBRIFLEX™ cabling solutions allows mobile operators deploying RRH architecture to standardize RRH installation process and eliminates the need for and the cost of cable grounding.

The **HYBRIFLEX™ STANDARD** Trunk assembly is part of the cabling solution for RRH's. It consists of an armored part of length YY, a top breakout part to the RFS Technologies Distribution Box DB-T1-4Z-8B-0Z-03 or DB-T1-8Z-16B-0Z-03 and a bottom breakout part to the Distribution Box near the BBU. The Trunk assembly can be ordered in lengths from 10 m to 170 m.

FEATURES / BENEFITS

- **One HYBRIFLEX™ cable, which can support 4 RRU and 4 pair of optical fibre for backup.**
- **Traditional feeder cable 7/8" clamp and grounding kit can be used for the cable.**
- **Solid mechanical protection for optical fiber and DC cables.**
- **Comply with EN 50083-1/VDE 0855 defining a min of 16 mm² Cu equivalent for lightning protection .**
- **A corrugated armor with excellent bending characteristics minimizes installation time and enables mechanical protection and EMC shielding**
- **DC current rating 40A (at ambient 40°C)**

Technical features

STRUCTURE

Cable Type		HYBRIFLEX™ Standard
Size		7/8

DC POWER CABLE SPECIFICATIONS

Number of DC Pairs		4
Maximum DC-Resistance Power Cable	Ω/km (Ω/kft)	3.3 (1)
Cross Section of Power Cable	mm² (AWG)	6 ()
DC Wire Jacket Material		Polyethylene, PE, Metalhydroxite filling
DC Wire Jacket Thickness	mm (in)	0.5 (0.02)
DC Cable Single Bending Radius	mm (in)	50 (1.97)
DC Cable Diameter	mm (in)	4.4 (0.17)
DC Cable Jacket		Polyethylene Gray / Blue (acc. BSI 7671 after September 2022 colors change to white and blue)
DC Standards (Meets or Exceeds)		IEC 60228

MECHANICAL SPECIFICATIONS

Cable Weight	kg/m (lb/ft)	0.75 (0.5)
Minimum Bending Radius, (Operating)	mm (in)	120 (5)
Minimum Bending Radius, (Installation)	mm (in)	250 (10)
Tensile Strength	N (lb)	700 (157)
Recommended / Maximum Clamp Spacing	m (ft)	0.8 / 1 (2.75 / 3.25)

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CABLE JACKET

Jacket Material		UV stable black JFN/LSZH, CPR rating Class F (other classes available on request)
Outer Diameter Nominal	mm (in)	27.8 (1.09)

ARMOR SPECIFICATIONS

Armor Type		Corrugated Aluminum tube
Maximum DC-Resistance of Armor	Ω/km (Ω/kft)	1.21 (0.37)
Copper Equivalent Cross Section of Armor	mm² (AWG)	28 ()
Diameter Corrugated Armor	mm (in)	25.2 (0.99)

F/O CABLE SPECIFICATIONS

F/O Cable Type		Tight-Buffer, Multi Mode OM4
Number of F/O Pairs		8
Core/Clad	µm	50 /125
Secondary Protection Nominal	µm (in)	900 (0.035)
Cable Diameter mm (in)		6.9 (0.27)
F/O Cable Jacket		UV stable black PE

TESTING AND ENVIRONMENTAL

Storage Temperature	°C (°F)	-40 to 75 (-40 to 167)
Operation Temperature	°C (°F)	-40 to 75 (-40 to 167)
Installation Temperature	°C (°F)	-20 to 50 (-4 to 122)

ADDITIONAL ASSEMBLIES

Length	Model name
10 m	HK078-06U4M8-LLBB0007-010
15 m	HK078-06U4M8-LLBB0007-015
20 m	HK078-06U4M8-LLBB0007-020
25 m	HK078-06U4M8-LLBB0007-025
30 m	HK078-06U4M8-LLBB0007-030
35 m	HK078-06U4M8-LLBB0007-035
40 m	HK078-06U4M8-LLBB0007-040
45 m	HK078-06U4M8-LLBB0007-045
50 m	HK078-06U4M8-LLBB0007-050
55m	HK078-06U4M8-LLBB0007-055
60 m	HK078-06U4M8-LLBB0007-060
65 m	HK078-06U4M8-LLBB0007-065
70 m	HK078-06U4M8-LLBB0007-070
75 m	HK078-06U4M8-LLBB0007-075

80 m	HK078-06U4M8-LLBB0007-080
85 m	HK078-06U4M8-LLBB0007-085
90 m	HK078-06U4M8-LLBB0007-090
95 m	HK078-06U4M8-LLBB0007-095
100 m	HK078-06U4M8-LLBB0007-100
110 m	HK078-06U4M8-LLBB0007-110
120 m	HK078-06U4M8-LLBB0007-120
130 m	HK078-06U4M8-LLBB0007-130
140 m	HK078-06U4M8-LLBB0007-140
150 m	HK078-06U4M8-LLBB0007-150
160 m	HK078-06U4M8-LLBB0007-160
170 m	HK078-06U4M8-LLBB0007-170
	Other length on request

External Document Links   Notes

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All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time   Page 3 of 3
of ordering