

**RFS' HYBRIFLEX**<sup>™</sup> cabling solution for Remote Radio Unit (RRU) combines optical fiber and DC power in a single lightweight aluminum corrugated cable, making it the world's most innovative solution for RRU deployments. It was developed to reduce installation complexity and cost at Cellular sites.

**HYBRIFLEX**<sup>™</sup> cabling solutions allows mobile operators deploying RRU architecture to standardized installation process and eliminates the need for and the cost of cable grounding. The **HYBRIFLEX**<sup>™</sup> Power Connect cable **PW-S-03S2-J** consists of two unshielded pair DC wires protected by a corrugated Aluminum armor.

## FEATURES / BENEFITS

- UV resistant jacket
- Comply with IEC 60228
- Flexible

External Document Links

Notes

## Technical features

STRUCTURE			
Cable Type		HYBRIFLEX™ Power Cable	
Size		1/2	
Fire Performance		PE	
DC POWER CABLE SPECIFICATIONS			
Number of DC Pairs		2	
Maximum DC-Resistance Power Cable	Ω/km (Ω/kft)	5.68 (1.73)	
Cross Section of Power Cable	mm² (AWG)	3.3 (12)	
Shielding		Corrugated Aluminium Armor	
DC Wire Jacket Material		UV stable black PE	
DC Wire Jacket Thickness	mm (in)	0.7 (0.028)	
DC Cable Single Bending Radius	mm (in)	53 (2.1)	
DC Cable Diameter	mm (in)	4 (0.16)	
DC Cable Jacket		UV stable black MDPE	
DC Standards (Meets or Exceeds)		IEC 60228	
MECHANICAL SPECIFICATIONS			
Cable Weight	kg/m (lb/ft)	0.24 (0.013)	
Minimum Bending Radius, (Operating)	mm (in)	160 (6.3)	
Minimum Bending Radius, (Installation)	mm (in)	220 (8.66)	
Recommended / Maximum Clamp Spacing	m (ft)	0.8 / 1 (2 / 3.25)	
CABLE JACKET			
UV-Protection Individual and External Jacket		Yes	
Jacket Material		UV stable black PE	
Outer Diameter Nominal	mm (in)	15.8 (0.62)	
ARMOR SPECIFICATIONS			
Armor Type		Corrugated aluminium armor	

REV DATE : 13 Mar 2019

Jacket

3

4)

Al-mylar

Insulation

Conductor

Non-woven fabrics



F/O CABLE SPECIFICATIONS			
F/O Cable Type		HYBRIFLEX™ Power Cable	
Cable Diameter mm (in)		4 (0.16)	
TESTING AND ENVIRONMENTAL			
Storage Temperature	°C (°F)	-40 to 85 (-40 to 185 )	
Operation Temperature	°C (°F)	-40 to 85 (-40 to 185 )	
Installation Temperature	°C (°F)	-20 to 50 (-4 to 122 )	