



U3SP100WW# UHF SPLITTER 3 WAY

- Low Loss - Near Theoretical Insertion Loss to Main Arterial and Split-1
- 3A DC Power Through Feed Facility on All Ports
- Brass Block Custom Connection System Specifically for Radiating Cable Systems

FEATURES

Becker Mining Systems smartcom® UHF 3-Way Splitter is used to split the main arterial line into two separate Leaky Feeder Arterials. In doing so the RF power is divided equally between the two resultant arterials. The DC Power may also be routed in various directions by opening and closing the on board jumpers. DC injection screw terminals also allow this unit to be used as a make shift “Power Coupler”. Additional jumpers allow the technician to internally terminate the unused RF ports.

The RF and DC Signals present on the “Base Station” port are separated using a passive network. The 3dB SMD splitter and PCB transmission lines redirect the RF signals to the “Main Arterial” and the “Split1” ports with a minimum of loss. The DC portion is similarly split to the two ports through a set of 3 jumper terminals, one for each of the ports.

The “Main Arterial” and “Split-1” ports are driven by passive combiner networks used to re-combine the DC and RF signals. A local DC-Injection screw terminal is also included to act as a power coupler for any or all of the 3 ports simultaneously. The unit thereby takes the DC and RF signals present on the original arterial and repeats (-3dB RF + -3dB DC = max 6dB) copies on to two additional arterials.

MECHANICAL SPECIFICATIONS	
Dimensions (H x W x L)	61 x 75 x 160 mm 2.4 x 3.0 x 6.3 in
Weight	0.99 kg
Principal Materials	Enclosure: Glass Reinforced Polyester Resin Connectors: Electroplated Brass Thermoplastic polymer glass fiber
Finish	Black
Gasket	Silicon

TECHNICAL DATA

PERFORMANCE SPECIFICATIONS	
Frequency Band	200 MHz to 500 MHz
Impedance	50 Ω
Connectors	50 Ω Brass Blocks
Insertion loss	<6dB
VSWR	1.3:1 (200 MHz to 500 MHz)
Internal Port Termination jumper	Main Arterial & Split - 50R
Through current capacity	3.0A max.
DC Power Jumper Selections	Input to All
DC Power Jumper Selections	Input to Main, Individual or All
Power Requirement	None - Passive

ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature	-20 °C to +40 °C
Storage Temperature	-40 °C to +65 °C
Operating Altitude	Up to 5500m ASL
Operating Humidity	10% to 85% (Non Condensing)
Protection Class	IP68 according to EN60529
Impact Resistance	7Nm - Body Only - Not indicator lights
Flammability	UL94 V-0
Toxicity	Halogen and Cadmium Free
Electromagnetic Interference (EMI)	FCC Emissions Class A (Industrial) CE Emissions Class A (Industrial)

Technical data are limit values.

If the product is integrated into systems or operated in combination with other devices, its permissible operating values can deviate from these limit values. Subject to technical modifications without prior notice.

Rev. E

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