



USBX100WW# UHF SPLICE

- High strength connection through the use of brass blocks and compression glands
- Brass block custom connection system specifically for radiating cable system
- Minimum RF loss through the splice point
- Up to 3A DC current is transferred through the unit

FEATURES

Becker Mining Systems smartcom® UHF Splice Box is used within UHF Leaky Feeder Systems, in which radio signals are transmitted from a cable rather than from an aerial and can provide two-way radio services in situations where conventional VHF and UHF communications from central areas are not practical.

The UHF Splice Box is utilized within the UHF Leaky Feeder System during installations, extensions or repairs in order to connect the two sections of radiating cable.

The Splice Box unit seamlessly couples both RF and DC signals between the two joined sections. The Splice Box can be seen used in Mining, Shipping, Tunnelling, Motorway and In-Building UHF Leaky Feeder Systems.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Limits	-20 °C to +40 °C
Storage Temperature Limits	-40 °C to +65 °C
Operating Altitude	Up to 5500 m ASL
Operating Humidity	10% to 85% (Non Condensing)
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

PERFORMANCE SPECIFICATIONS

Frequency Band	200 MHz - 500 MHz
Port Characteristic Impedance	50 Ω
Connectors	50 Ω Brass Block
Insertion Loss	<1.7dB
VSWR	1.4:1 (400 MHz to 500 MHz)
Through current capacity	3.0A (max)
Supply Voltage	None - Passive

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	110 x 75 x 61 mm (4.3 x 3 x 2.4 in)
Weight (nominal)	970 g
Principal Materials	Enclosure: Glass Reinforced Polyester (GRP) Connectors: Electroplated Brass Thermoplastic polymer glass fiber
Enclosure	Kestrel 'POK' glass reinforced polyester type
Finish	Natural Grey
Gasket	Silicone rubber
Mounting Options	4 Hole M6 directly

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.

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