



Application & Description Brief

The Becker Splice Box is used in radiating-"leaky"-cable-systems, in which radio signals are transmitted from a cable rather than from an aerial. The Leaky Feeder System can provide two-way radio services in situations where conventional VHF and UHF communications from central areas are not practical. The radiating cable Splice Box is typically used in Mining, Shipping, Tunneling, Motorway and In-Building radiating cable systems. This unit is used to connect two sections of cable during installation, extensions or repairs to Leaky Feeder systems. The Splice Box couples both the RF and DC signals seamlessly between the two joined sections.

Purchase Contact Details

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DISCLAIMER
All information given in this datasheet is correct to the best of our knowledge, but the company reserves the right to make alterations and amendments to the detailed specification at its discretion.

Functional Features **Technical Features**

- IP68 Environmental protection enclosure.
- High strength connection through the use of brass blocks and compression glands.
- Ease of installation in comparison to screw terminal alternatives.
- Minimum RF loss through the splice point.
- DC current up to 3A is transferred through the unit.
- Brass Block custom connection system specifically for radiating cable system.
- 50 Ohm characteristics impedance at RF frequencies maintained through the splice.

Performance Specifications

Description	Spec / Range / Type
Frequency Band	200MHz - 500MHz
Impedance	50 Ω
Connectors	50 Ω - Brass Block
Insertion Loss	<1.7dB
VSWR	1.4:1 (400MHz to 500MHz)
Through current capacity	3.0A maximum
Power Requirement	None – Passive

UHF Splice Box USBX100WW#



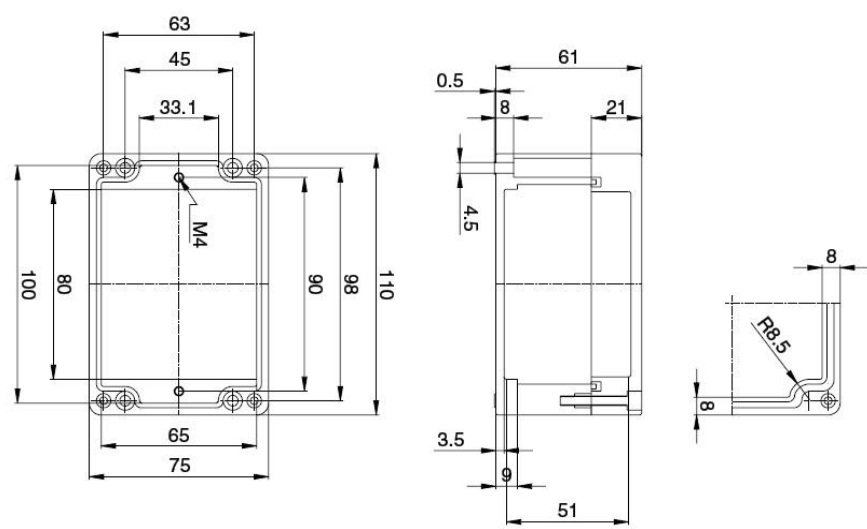
Environmental Specifications

Description	Spec / Range / Type
Operating Temperature Limits	-10°C to +40°C
Storage Temperature Limits	-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-O
Toxicity	Halogen and Cadmium Free
Electromagnetic Interference (EMI)	FCC Emissions Class A (Industrial) CE Emissions Class A (Industrial)

Mechanical Specifications

Description	Spec / Range / Type
Width (Excluding mounting brackets)	110mm
Height (Excluding mounting brackets)	75mm
Depth (Excluding mounting brackets)	61mm
Weight	0.970kg
Principal Materials	Enclosure: Glass Reinforced Polyester GRP Connectors: Electroplated Brass Thermoplastic polymer glass fiber
Finish	Natural Grey – (Similar to RAL7001)
Gasket	Silicon rubber
Mounting Options	4 Hole M6 directly

Mechanical Drawing & Internal View



Ordering Information

Description	What's In The Box
<p>NON-IA</p> <p>Part No: USBX100WW# – XXXXXX (Base Part No.) (Serial No)</p>	<ul style="list-style-type: none"> • UHF Splice Box • Datasheet • Test Results Sheet