



# USIM100USM SPLICE BOX NO DC

- 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

## FEATURES

Becker Mining Systems smartcom® radiating “leaky” cable systems, in which radio signals are transmitted from a cable rather than from an aerial, 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 unit couples both the RF and DC signals seamlessly between the two joined sections.

### 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 D

## TECHNICAL DATA

### PERFORMANCE SPECIFICATIONS

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

### MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	61 x 75 x 110 mm 2.4 x 3.0 x 4.3 in
Weight	0.970kg
Principal Materials	Enclosure: Glass Reinforced Polyester GRP Connectors: Electroplated Brass Thermoplastic polymer glass fiber
Enclosure	Kestrel ‘KE’ & ‘POK’ glass reinforced polyester type
Finish	Black
Gasket	Silicon rubber
Mounting Options	4 Holes M6 directly

### APPROVALS

Approved Explosion Protection rating (ia)	Ex ia I Ma
Inspection Authority Certificate (ia)	Sira: IECEx SIR 10.0036X and ITACS: IECEx ITA 11.0009X
Certificate number	Baseefa 03ATEX0571X
Certificate held by	Weidmuller Interface GmbH & Co
Compliance	EN50014 : 1997 + Amendments 1 & 2 EN50019 : 2000

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