



UBPX100AUI UHF IS POWER COUPLER

- Feeds DC Power to IS UHF System
- LED Indicators Signify Power Present
- DC Range Between 5 and 17 Vdc
- Easy to Install
- Facilitates Brass Blocks & Compression Glands for High Straight Connections

FEATURES

Becker Mining Systems smartcom® 450IS Bi-Directional Power Coupler is used in the Leaky Feeder system to inject DC power from the system power supply into the coaxial radiating cable. This injected power is then used to power up all the active devices in the immediate vicinity of the power coupler.

The DC voltage is usually sourced from an AC-DC power supply with local battery back-up. The DC voltage range is 5 to 17 Vdc at a maximum current of 2 A.

The downlink & uplink radio signals already present on the radiating cable are passed transparently through the bi-directional power coupler.

Indicator LED's for power present on the Base Station and Tunnel ports are provided for in system fault finding. DC power may be directed in either direction by making connections to the screw terminals associated with the Base Station & Tunnel radiating cable connections. Alternately, power may be directed in both directions simultaneously by installing the bridge jumper.

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

TECHNICAL DATA

PERFORMANCE SPECIFICATIONS

Frequency Band	200 to 500 MHz
Impedance	50 Ω
Insertion Loss	< 2.5 dB
Input Voltage	5 - 17Vdc
Through Current Capacity	2.0 A (max)

MECHANICAL SPECIFICATIONS

Connectors	50 Ω Brass Blocks
Dimensions (H x W x L)	61 x 75 x 160 mm (2.4 x 3.0 x 6.3 in)
Weight	753.60 g (1.66 lbs)
Enclosure	Glass Reinforced Polyester Type
Finish	Black
Gasket	Silicone

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20 to +40 °C (-4 to +104 °F)
Storage Temperature	-40 to +65 °C (-40 to +149 °F)
Ingress Protection Rating	IP54

APPROVALS

Approved Explosion Protection Rating	Ex ia I Ma
Certificates	IECEX SIR 10.0036X IECEX ITA 11.0009X