



UTRX100AUI UHF IS END OF LINE TERMINATION

- 50 Ohm Characteristics Impedance at UHF Frequencies Maintained Across the Leaky Feeder Band
- DC Current is Blocked in the Terminator so That No Load is Presented to the System

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 End of Line Terminator is used to prevent unwanted radio frequency reflections presenting themselves within the cable. These unwanted reflections cancel out the wanted signals and radically affect the “throw off the cable”. The unit terminates the radio signal in the characteristic impedance of the radiating cable, but does not present any DC current load to the system.

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	IP66 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

PERFORMANCE SPECIFICATIONS

Frequency Band	100 MHz to 500 MHz
Impedance	50 Ohm
Connectors	1 Brass Block connector
VSWR	1.4:1 (150 MHz to 175 MHz)
Power Requirement	None - Passive

MECHANICAL SPECIFICATIONS

Dimensions (H x W x L)	61 x 75 x 80 mm 2.4 x 3.0 x 3.1 in
Weight	0.46 kg
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, ITACS: IECEx ITA 11.0009X

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