# UTRM100USM TERMINATION END OF LINE

- IP66 Environmental Protection Enclosure
- High Strength Connection Through the Use of Brass Blocks and Compression Glands
- Ease of Installation in Comparison to Screw Terminal Alternatives 1451

smartcom®

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## 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.

## TECHNICAL DATA

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

| MECHANICAL SPECIFICATIONS | |
|---|---|
| Dimensions (L x W x H) | 61 x 75 x 80 mm 2.4 x 3.0 x 3.1 in |
| Weight | 0.46kg |
| 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 |
| Certificate number | Baseefa 03ATEX0571X |
| Certificate held by | Weidmuller Interface GmbH & Co |
| Compliance | EN50014 : 1997 + Amendments 1 & 2 EN50019 : 2000 |

| 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-O |
| 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. C

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