

Description

The BTS-1000 is a small footprint UWB UHF GPR-antenna. The BTS-1000 is shielded and extremely well suited for concrete- and road structure inspections. This antenna offers excellent resolution while still maintaining relatively high penetration depth. This antenna is fully compatible with GSSI data acquisition systems: SIR-10, SIR-2, SIR-2000, SIR-20 and SIR-3000.



Applications

- Civil engineering inspections
- Structure mapping of base and sub-base layers
- Rebar location

Technical Data

Electrical	
Type of device	Bowtie shielded dielectrically loaded antenna
Peak frequency ¹	917 MHz
Center frequency (BW _{10dB}) ¹	958 MHz
10 dB bandwidth ¹	95.6 %
Distance between the TX/RX terminals	100 mm
Voltage applied to antenna terminals	24 V
E-field to H-field ratio	N/A
Front to back ratio ¹	-12 dB
Gain	N/A
Connector type	SOURIAU 85102E1811P50
Environmental	
Operating temperature	-30°C to 70°C (-22F to 158F)
Operating humidity (non condensing)	96% RH
Ingress protection	IP54
Mechanical	
Dimension (L x W x H)	265 x 225 x 95 mm (10.43 x 8.85 x 3.74 inch.)
Weight	1.85 kg (2.53 pounds)
Material	ABS plastic, UV resistant up to 10 years

Notes: ¹Dielectric constant = 4.

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