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Description

The SUBECHO-40 is recognized worldwide as the best GPR-antenna when maximum penetration is required. It is a UWB VHF GPR portable lightweight antenna with very high penetration. The SUBECHO-40 can be used in air-coupled and airborne applications. This antenna is fully compatible with GSSI plug-in electronics: 769DA2, 778 and 766DA allowing mono- and bi-static operation (two antennas).

Applications

- Deep geological and geo-technical surveys
- Embankment dam safety control, structure/voids
- Bedrock profile
- Glaciers studies and ground waves



Technical Data

Electrical	
Type of device	Resistively loaded butterfly folded dipole
Peak frequency ¹	60 MHz
Impedance at the peak frequency ¹	112 Ohms
Center frequency (BW _{10dB}) ³	64.75 MHz
10 dB bandwidth ³	85.2 %
DC resistance at antenna terminals	387 Ohms
Maximum applied power ²	1kW
Front to back ratio ³	0 dB
Gain ³	2 dB
Connector type	4597 COMPAR DZM-6 DREH
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)	2045 x 155 x 215 mm (80.51 x 6.1 x 8.46 inch.)
Weight	5 kg (11.02 pounds)
Material	ABS plastic, UV resistant up to 10 years

Notes: ¹ Dielectric constant = 4. ² Duty cycle below 1%. ³ Dielectric constant = 6