

Ground Specs for modeling

Type	Conductivity	Dielectric Constant
"Very Good"	0.0303 s/m	20
"Average"	0.005	13
"Poor"	0.002	13
"Very Poor"	0.001	5

Material	Dielectric Constant (-)	Propagation Velocity (m/ns)
Air	1	.30
Ice (Frozen soil)	4	.15
Granite	9	0.10
Limestone	6	0.12
Sandstone	4	0.15
Dry sand	4 to 6	0.12 to 0.15
Wet sand	30	0.055
Dry clay	8	0.11
Wet clay	33	0.052
Asphalt	3 to 6	0.12 to 0.17
Concrete	9 to 12	0.087 to 0.10
Water	81	0.033
Metal	∞	0