

ABOUT TIMES-7

Pushing the boundaries of RFID technology worldwide Times-7 are leaders in RFID antenna design and manufacture. Our patented award winning UHF antennas meet the needs of virtually any industry application; providing customers with fast accurate tracking of products, assets & people; empowering organizations to transform processes & reduce costs.

Our SlimLine range of antennas is unique in the RFID industry; offering high levels of performance & durability in an aesthetically superior form.

Proven in a diverse & growing range of markets, applications include: retail & customer interaction, conference & people tracking, race timing, baggage handling, and logistic & supply chain asset management.

Times-7 Research Ltd
29 Railway Avenue
Lower Hutt 5010
New Zealand

NEW ZEALAND
P: +64 4 974 6566

USA/CANADA
P: +1 408 769 5025

E: info@times-7.com

www.times-7.com

For best performance results, we supply a small range of low loss cable accessories. All our cables are equipped with SMA to RPTNC connectors.

We also customize cables to your specific requirements for length and connectors on request. For more information and pricing, please contact sales@times-7.com.

To make sure you select the right cable for your application...

...consider the following three important cable criteria:

- Cable loss:** How much power loss is acceptable before it significantly impacts the read performance?
- Bending radius of the cable:** How flexible must the cable be?
- Cable thickness:** Make sure that the cable or cable connector is not thicker than the antenna when flush mounting the antenna models A5010 and A5020.

More information for choosing the correct cable, please [click here](#).

Cable Loss

Cable Type	Cable Length	Approx. Losses (dB)
T-7 195	2 m	0.65
T-7 240	2 m	0.39
	4 m	0.78
	6 m	1.17
	8 m	1.56
T-7 400	2 m	0.26
	4 m	0.51
	6 m	0.77
	8 m	1.03

Order Information

Cable Accessories	Cable Type / Part No.		
	195	240	400
Cable 2 m, SMA to RPTNC	71436	71782	72042
Cable 4 m, SMA to RPTNC	N/A	71784	72043
Cable 6 m, SMA to RPTNC	N/A	71904	72044
Cable 8 m, SMA to RPTNC	N/A	71788	72045



Construction Specifications

	Material	Diameter		
		T-7 195	T-7 240	T-7 400
1. Inner Conductor	Solid Copper	0.94	1.42	2.74
2. Dielectric	Physical Foam Polyethylene	2.79	3.81	7.24
3. Outer Conductor	Bonded Aluminium Foil + Tinned Copper Braid	3.53	4.52	8.13
4. Jacket	Black PVC or Polyethylene	4.95	6.10	10.29

Electrical Specifications

Specifications	T-7 195	T-7 240	T-7 400
Capacitance (pF/m)	79.5	79.4	77.1
Impedance (ohm)	50		
Velocity (%)	80	84	85
Inner Conductor DC Resistance (Ω /km)	24.94	10.50	2.92
Outer Conductor DC Resistance (Ω /km)	16.08	12.76	5.41
Shielding Effectiveness (dB)	>90		
VSWR \leq (Return loss \geq dB)	1.10 (26)		

Mechanical and Environmental Specifications

Specifications	T-7 195	T-7 240	T-7 400
Min. Bend Radius	25 mm	30 mm	51 mm
Storage Temperature	-40 °C - + 80 °C -40 °F - + 112 °F		
Installation Temperature	-40 °C - + 80 °C -40 °F - + 112 °F		
Operating Temperature	-40 °C - + 80 °C -40 °F - + 112 °F		

Attenuation and Average Power (20 °C)

	T-7 195	T-7 240	T-7 400
Attenuation (\geq dB/100 m)	36.50	24.80	12.80
Average Power (kW)	0.14	0.23	0.50