



Cobalt UHF™ Antennas

Industrial, High-Performance RFID

FEATURES and BENEFITS

Advanced antenna design with high gain for greater sensitivity.

High Front-to-Back Signal Ratio for performance where you need it.

Robust industrial design assures protection from moisture and dust in harsh environments.

Optional mounting kit for easy installation.

Smooth enclosure promotes ease of maintenance.

Lightweight design with low profile saves space.

Circular Polarization of the Antenna supports tag reading in many orientations.

CABLE SPECIFICATIONS

Not included; order separately.

Model: UHF CBL-03
P/N: 970106003

Length: 3 meters (10 feet).

Cable Type:
LMR® 195 Low-Loss Shielded Coax.

Connectors:
Controller End: TNC Reverse.
Antenna End: N Male.



Cobalt UHF Antenna



Antenna with Cobalt UHF Controller

Rugged, highly connected EMS Cobalt UHF™ RFID Antennas and Controllers bring fast and low cost RFID to the factory floor with the long-range advantage of UHF technology. The Cobalt series offers direct serial and network connectivity, as well as the convenience of the Subnet16™ architecture.

UHF operating frequency standards in North America, Europe and Asia are different; Datalogic Automation RFID offers a range of antenna products that cover these frequency bands.

Dust and moisture protection, and high temperature operation, are vital for industrial automation equipment. The Cobalt UHF antennas and controllers maintain the industrial performance standards that EMS RFID products are known for.

25+ years of experience with RFID systems for manufacturing are behind every EMS system, supported by Datalogic around the

ANTENNA MODELS

902-928MHz (FCC):
UHF-ANT-3030-01-91.
P/N 970665003

865-870 MHz (ETSI):
UHF-ANT-2626-01-86.
P/N 970669001

RFID AIR PROTOCOL
EPC Class 1, Gen 2.

COMPATIBLE TAGS
UHF-G2-525HT
UHF-G2-525 (2009)

All Class 1, Gen 2 Tags.

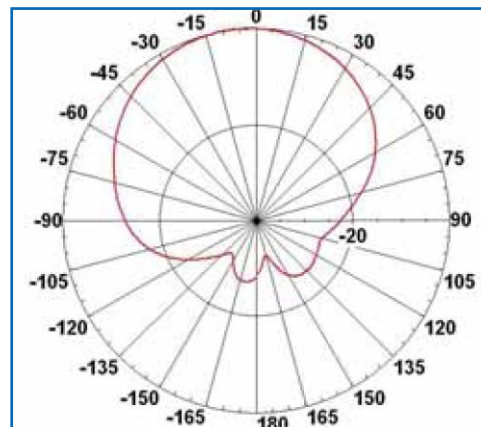
ACCESSORIES
Mounting Kit:
P/N: 970103035



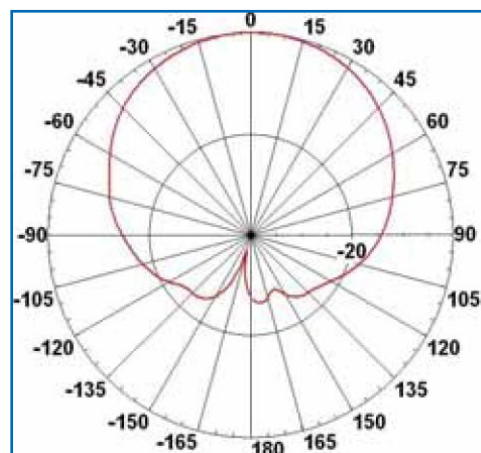
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SPECIFICATIONS

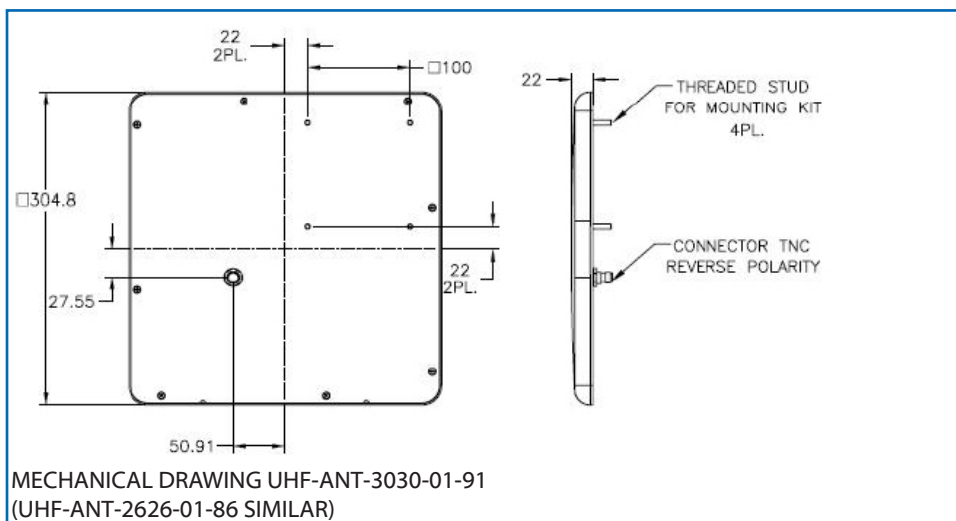
MODEL	UHF-ANT-3030-01-91	UHF-ANT-2626-01-86
FREQUENCY BAND:	902-928 MHz	865-870 MHz
DIMENSIONS:	305x305x25mm	260x260x30mm
WEIGHT:	1.2 Kg (2.6 Lbs)	1 Kg (2.2 Lbs)
ANTENNA GAIN:	9 dBic (Min)	8.5 dBic (Min)
POLARIZATION:	Circular	Circular
AZ/EL BW	63° / 63°	65° / 65°
Sidelobe Level	-16 dB	-12 dB
Axial Ratio Level	4 dB (Max)	2 dB (Max)
Front to Back Ratio	18 dB (Max)	18 dB (Max)
VSWR 50 Ohm:	1.3:1 (Max)	1.3:1 (Max)
READ RANGE:	Depends on Tag and Environment	
WRITE RANGE:	Approx. one-half of Read Range	
TEMPERATURE RANGE:	-55° to 71° C (-67° to 160°F) per IEC 68.	
TEMPERATURE SHOCK:	-40° to 71° C (-40° to 160°F) 3 cycles 30°C/mim	
HUMIDITY:	95% per ETSI EN300	
VIBRATION:	1g rms, 10-500 Hz (2 hrs/axis)	
SHOCK:	10g, 11msec half sine pulse	
DROP:	MIL-STD-810E 26 drop from height of 122 cm (4 feet)	
DUST AND WATER:	IP54	
SALT SPRAY:	500 hours per IEC 68	
FLAMMABILITY	Class HB per UL-94	



AZIMUTH RADIATION PATTERN, MIDBAND FREQ 915MHz (UHF-ANT-3030-01-91)



ELEVATION RADIATION PATTERN, MIDBAND FREQ 915MHz (UHF-ANT-3030-01-91)



MECHANICAL DRAWING UHF-ANT-3030-01-91 (UHF-ANT-2626-01-86 SIMILAR)



OPTIONAL MOUNTING KIT P/N 970103035

www.ems-rfid.com

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DATALOGIC AUTOMATION RFID BUSINESS UNIT PROUDLY OFFERS THE EMS LINE OF RFID TAGS, READERS, CONTROLLERS, ANTENNAS, AND COMMUNICATIONS GATEWAYS.

Rev 01 - Jan. 2009