



20-40-73

Data Link Antenna

1295 to 1414 MHz

FEATURES

- **Covers Up and Down Data Link requirements**
- **Supplied with base spigot for mast head mount**
- **Ground Plane Independent**
- **Pattern optimized for highest gain at horizon**
- **Rugged design for all weather operation**
- **At least 50 Watts CW**
- **Approximately 5.5 pounds weight**
- **Can be adapted for directional pattern with bolt-on reflector**

The 20-40-73 consists of a high strength, low loss cylindrical glass/epoxy radome containing a vertical array of four co-linearly stacked dipoles combined in such a way as to maximize radiation in the horizontal plane (0° elevation).

The array is centre-fed enabling the antenna to be ground-plane independent.

The entire assembly is foam filled for long term environmental protection. It has an N type (female) connector and a 1 inch diameter metal fitting to enable mast-head mounting.

The top of the antenna has a spigot to locate a reflector element (ordered separately) enabling the antenna to have directivity over a sector of approximately 60°.



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SPECIFICATIONS

Cooper Antennas Model 20-40-73 Data Link Antenna

ELECTRICAL

Frequency	1295 - 1414 MHz
Gain	+7 dBi average
VSWR	≤ 2.0:1
Impedance (nominal)	50 Ohms
Power	50 Watts CW
Polarization	Vertical
Radiation Pattern	Azimuth : omni directional Elevation : 3dB Beam Width 15° ±3°
RF Connector	N Female
Operational Temperature	-54°C to +70°C

MECHANICAL

Height	40 inches (1016mm)
Element Diameter	3 inches (79mm)
Diameter of Mounting Attachment	1 inches (25mm)
Weight (approx)	5.5 lbs (2.5 kg)

FINISH

Lustreless Grey Urethane

Other finish options are available.

Please specify finish required when ordering.

**Note: Cooper Antennas Ltd has a policy of continuous product improvement and data herein is therefore subject to change.
Please check with Cooper Antennas Ltd that this data sheet is at latest issue before initiating contract activity.**