

Vertically Polarized, Log-Periodic HF Antennas

- 2.5-32 MHz Frequency Range
- Up to 10 kW Average, 20 kW Peak Power Rating
- Vertical Polarization
- 2.0:1 Maximum VSWR
- Long-Range HF Communications
- Minimum Tower Height
- Minimum Space Required

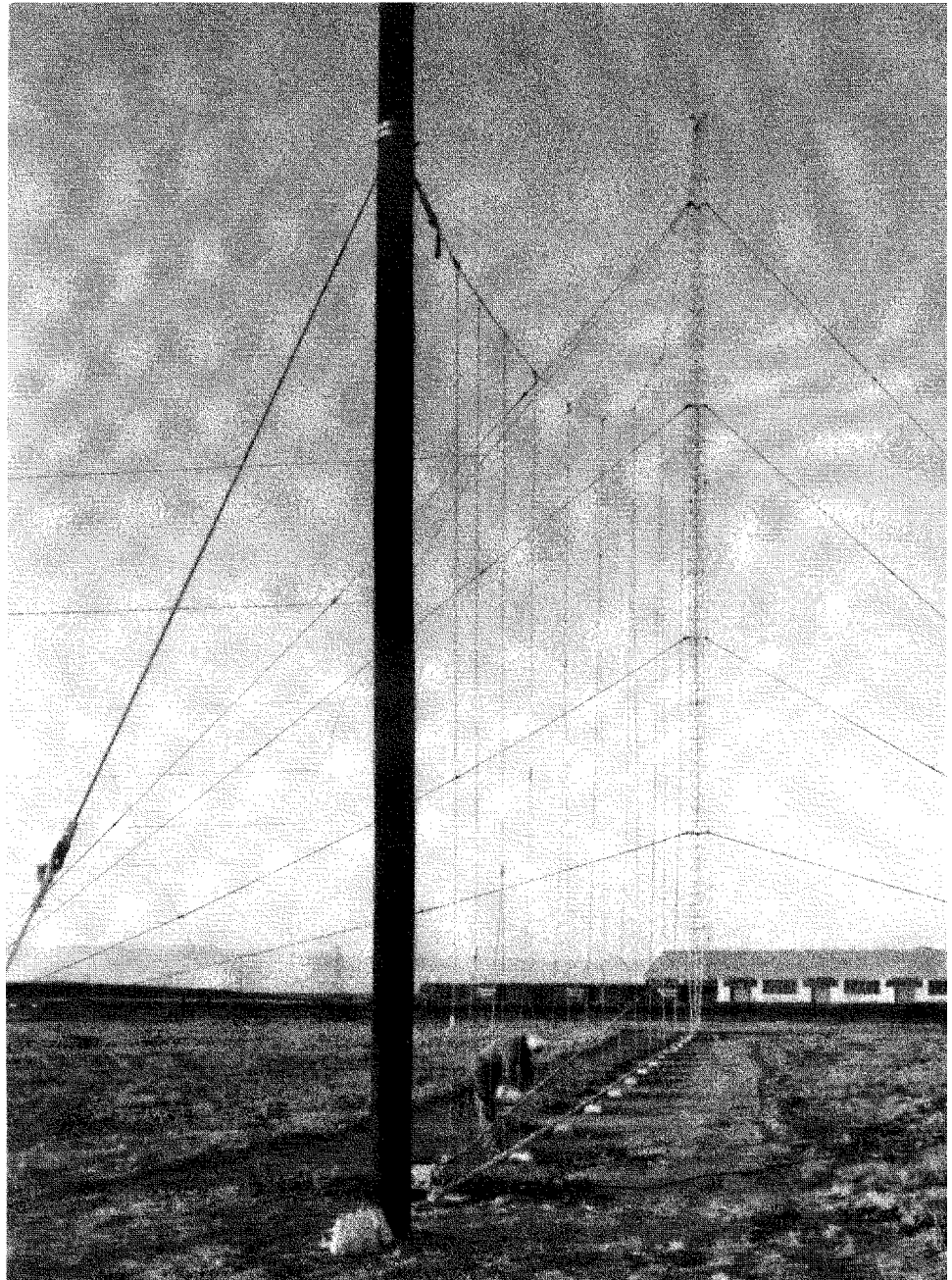
General Description

The 2726 Series is a family of monopole, log-periodic arrays, the most economic configuration which can efficiently radiate at broadband HF frequencies as low as 2.5 MHz. The antennas are intended for either point-to-point communications or sector broadcast.

Radiation patterns, characterized by a high-gain lobe directed close to the horizon, are nearly constant at all operating frequencies. The vertical beamwidth is sufficiently narrow to provide high directive gain, yet broad enough to encompass the range of take-off angles required by diverse ionospheric conditions. Side and back lobes are virtually absent, thereby minimizing off-path interference.

Features

Strength and Durability. The 2726 Series antennas have been carefully designed to create a light, strong, resilient structure and will operate for long periods in harsh environments. Radiators are high-strength bronze wire. The supporting catenary is fiberglass rod bonded to manganese-bronze end fittings. All materials have been selected for maximum resistance to corrosive environments, such as salt spray, tropical locations and industrial regions.

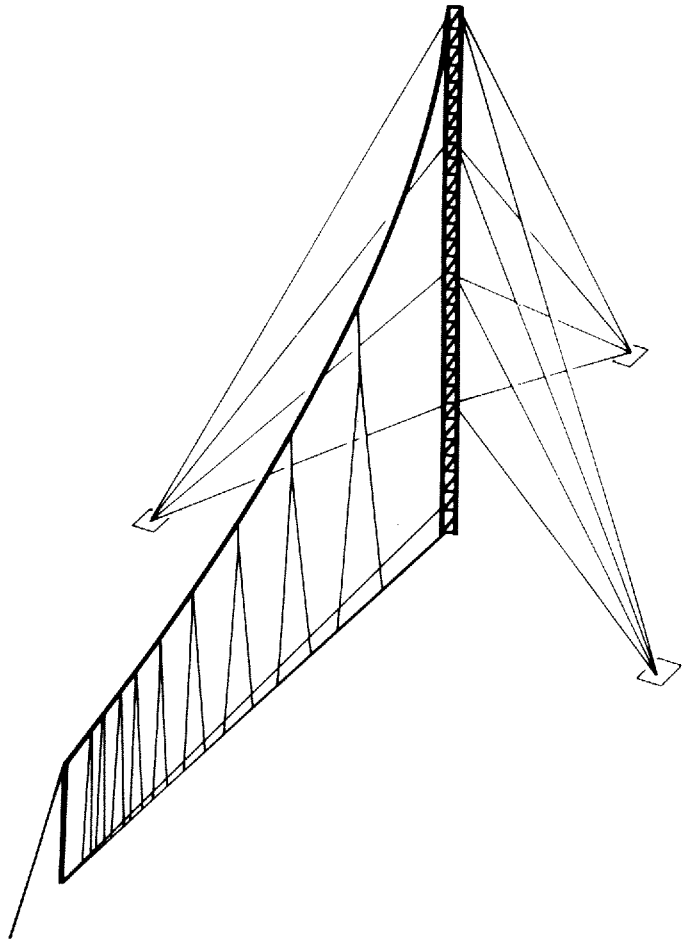


Ease of Assembly and Installation. Towers are shipped unassembled and are easily assembled in the field through interconnection of three vertical rails. All parts are supplied. Antennas can be erected without a crane, using an erection fix-

ture available as an option. Andrew offers field engineering services, including propagation analysis, antenna specification, manufacturing, installation and field tests, to facilitate siting and installation of antennas.

Accessories

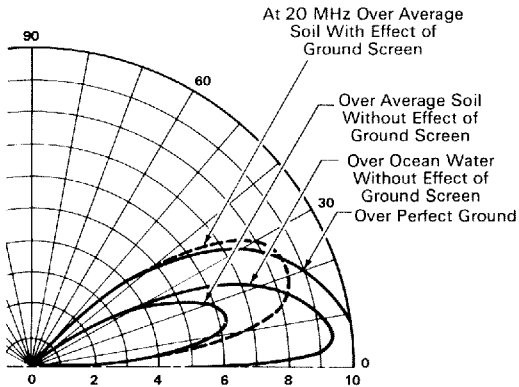
The following accessories are available for ease of installation and maintenance: tower lighting kit, erection kit, paint kit, tool kit, lightning rod kit, anti-climbing kit, and spares kit.



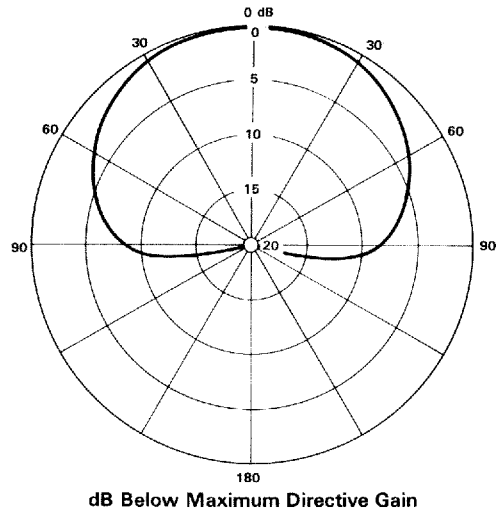
Characteristics

Type	HF Monopole log-periodic
Frequency Range, MHz	2.5-32 MHz
Power Rating, kW	Up to 10 average, 20 peak
Polarization	Vertical
VSWR	2.0:1 maximum
Gain, dBi	Greater than 10 over perfect ground
Wind Survival Rating, mph (km/h)	
Without Ice	120 (190)
With 0.5 in (12 mm) Radial Ice	100 (160)

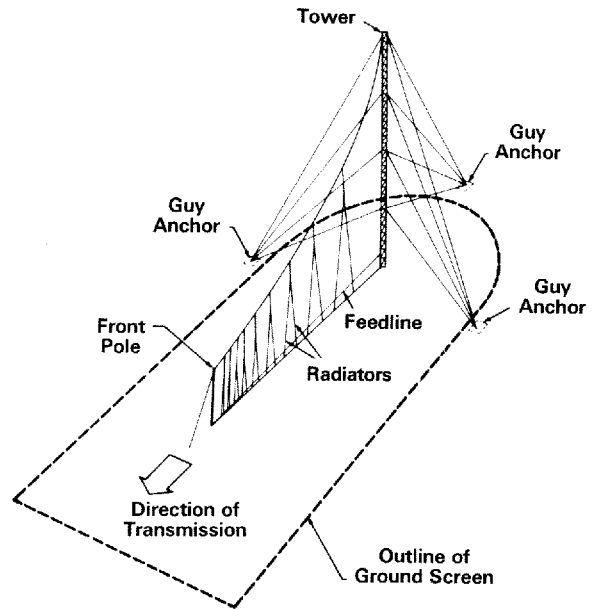
Elevation Plane Radiation Patterns



Azimuth Plane Radiation Pattern

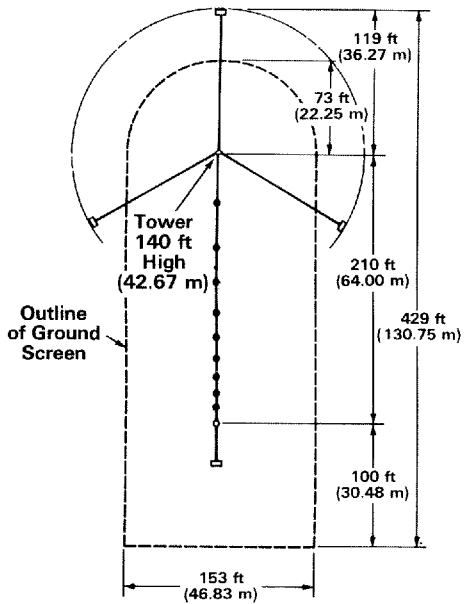


Configuration of All Series 2726 Antennas



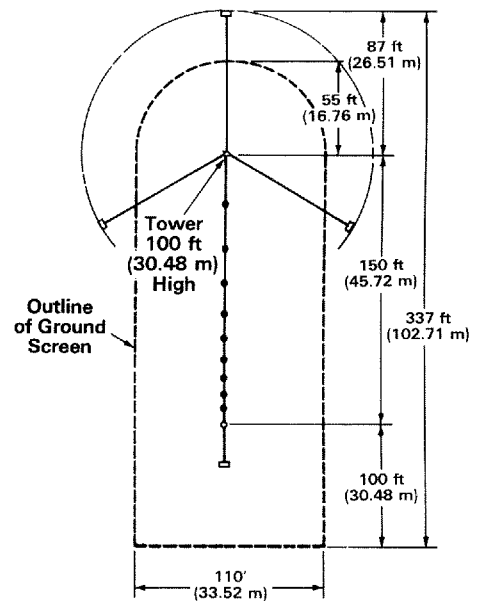
Antenna Dimensions 2.5 to 32 MHz

Models 2726-1 and 2726-2



Antenna Dimensions 3.5 to 32 MHz

Models 2726-3 and 2726-4



Ordering Information

Type No.	2726-1K	2726-2K	2726-3K	2726-4K
Frequency Range, MHz	2.5-32	2.5-32	3.5-32	3.5-32
Power Rating, kW	Receive only	10 Average, 20 Peak	Receive Only	10 Average, 20 Peak
Input Impedance, ohms*	50, coaxial	50, coaxial	50, coaxial	50, coaxial
Input Connector	Type N Female	1-5/8" EIA, female	Type N Female	1-5/8" EIA, female
Level of Largest Side or Back Lobe Relative to Main Lobe	-10 below 3.2 MHz -14 from 3.2 to 32 MHz	-10 below 3.2 MHz -14 from 3.2 to 32 MHz	-10 below 4.4 MHz -14 from 4.4 to 32 MHz	-10 below 4.4 MHz -14 from 4.4 to 32 MHz

*Optional 70-ohms input available

Note: Class 2, 3 or 4 Douglas Fir pole required (not furnished).
Required lengths are 35 ft (10.7 m) for Type Nos. 2726-1 and 2726-2;
and 25 ft (7.6 m) for Type Nos. 2726-3 and 2726-4.



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Andrew Corporation
10500 West 153rd St.
Orland Park, IL 60462
U.S.A.

From North America:
1-800-255-1479
Fax: 1-800-349-5444
Intl.: 708-873-2307
Fax: 708-349-5444

Andrew Canada, Inc.
606 Beech Street, West
Whitby, Ontario, Canada
L1N 5S2
Tel: 905-668-3348
Fax: 905-668-8590

Andrew Ltd.
Ilex Building, Mulberry
Business Park
Fishponds Road
Wokingham, Berkshire
England, United Kingdom
RG41 2GY
Tel: +44 118-936-6700
Fax: +44 118-936-6777

Fax-on-Demand
From North America:
1-800-861-1700
International:
708-873-3614

Visit us on the Internet at:
<http://www.andrew.com>