

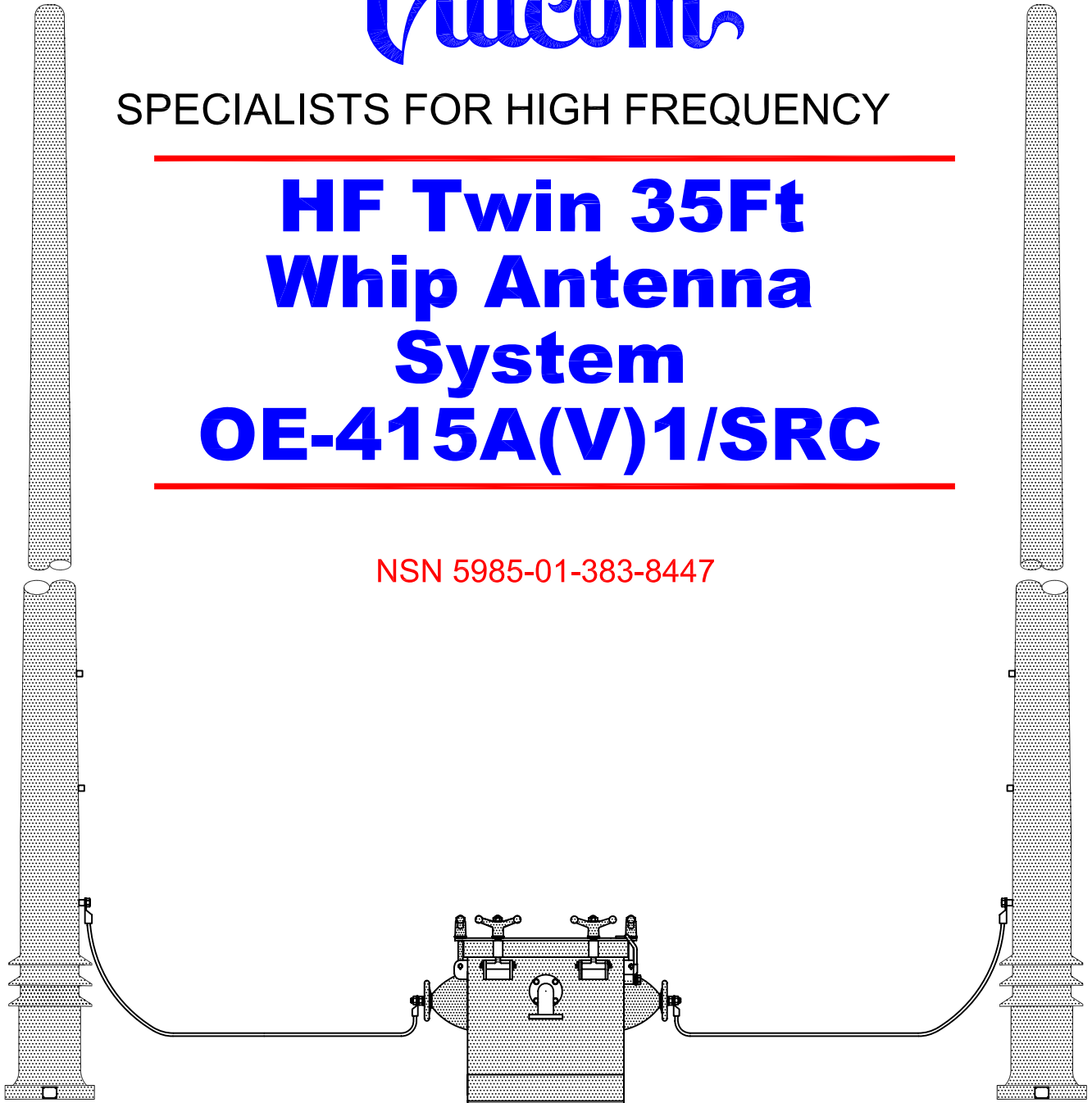
World's Leading Manufacturer Of Fibreglass Whip Antennas



SPECIALISTS FOR HIGH FREQUENCY

**HF Twin 35Ft
Whip Antenna
System
OE-415A(V)1/SRC**

NSN 5985-01-383-8447



FEATURES:

- **POWER HANDLING TO 10KW**
- **MINIMUM MAINTENANCE**
- **MEETS MIL-A-29519(EC)**
- **HIGH RELIABILITY**
- **SHIPBOARD APPLICATIONS**
- **BROADBAND**
- **WEATHERPROOF**

OE-415A(V)1/SRC

THE OE-415A(V)1/SRC ANTENNA GROUP IS A TWIN-WHIP ANTENNA SYSTEM WHICH PROVIDES BROADBAND COVERAGE IN THE 4-12 MHz FREQUENCY RANGE FOR SHIP-BOARD TRANSMITTING AND RECEIVING SYSTEMS.

THE ANTENNA SYSTEM CONSISTS OF TWO 35 FOOT SPUN ALUMINUM ANTENNAS, IMPEDANCE MATCHING NETWORK AND AN INTERCONNECTING WIRE-ROPE FEED ASSEMBLY.

THE SYSTEM IS INTENDED FOR USE ON EITHER THE CG OR DDG CLASS NAVAL VESSELS. FOR THE CG CLASS VESSELS, THE IMPEDANCE MATCHING NETWORK WOULD BE THE CU-2151C/SRC AND THE ANTENNA IS AN AS-3772B/U. FOR THE DDG CLASS VESSEL THE MATCHING NETWORK WOULD BE THE CU-2415A/SRC WITH THE ANTENNA AS-3772B/U.

THE ANTENNAS USED IN THE SYSTEM ARE SELF SUPPORTING TAPERED ALUMINUM TUBES WITH A FIBREGLASS INSULATOR AND MOUNTING BASE.

THE IMPEDANCE MATCHING NETWORK CONTAINS VARIABLE INDUCTOR/CAPACITOR TO ENABLE OPTIMAL VSWR CHARACTERISTICS OVER THE ENTIRE 4-12 MHz BAND. A VSWR OF 3:1 OR LESS ON 50 OHMS CAN BE ACHIEVED OVER THE ENTIRE FREQUENCY BAND.

THE SYSTEM HAS BEEN QUALIFIED TO MIL-S-901C FOR SHOCK, MIL-STD-167 FOR TYPE 1 VIBRATION AND ALL THE SERVICE CONDITIONS OF MIL-E-16400.

QUICK REFERENCE DATA

ELECTRICAL CHARACTERISTICS

FREQUENCY	4-12 MHz
IMPEDANCE	50 OHMS
INPUT CONNECTOR	1-5/8 EIA FLANGE (OR CUSTOMER ORDER)
OUTPUT	BOWL INSULATOR WITH 1/2-13 UNC-2A THREADED ROD
POLARIZATION	VERTICAL
VSWR	3:1 MAXIMUM FOR TYPICAL INSTALLATIONS
POWER HANDLING	10KW AVERAGE
AZIMUTH COVERAGE	OMNIDIRECTIONAL

MECHANICAL CHARACTERISTICS

ANTENNA OVERALL LENGTH	421 IN \pm 1 IN (1069.3 \pm 25.4 CM)
ANTENNA WEIGHT	195 LBS (88.4 KG)
MATCHING NETWORK ENCLOSURE	CG CLASS SHIP ENCLOSURE-29 IN (73.6 CM) LG 25 IN (63.5 CM) HIGH, 24 IN (60.9 CM) WIDE 140 LBS (63.5 KG) DDG CLASS SHIP ENCLOSURE-30 IN (76.2 CM) LG 13 IN (33 CM) HIGH, 13 IN (33 CM) WIDE 80 LBS (36.2 KG)
MOUNTING (EACH ANTENNA)	BASE FLANGE WITH 8 HOLES .690 IN (1.75 CM) DIAMETER EQUALLY SPACED ON A 10.750 (27.30 CM) DIA BOLT CIRCLE
MOUNTING (MATCHING NETWORK)	CG CLASS SHIP ENCLOSURE- TOP FLANGE WELDED TO UNDERSIDE OF CUSTOMER FURNISHED MOUN- TING PLATFORM DDG CLASS SHIP ENCLOSURE- 6 MOUNTING HOLES .53 IN (1.34 CM) DIAMETER
SYSTEM CONFIGURATION	ANTENNAS SPACED 10 FT (3.04 M) APART WITH MATCHING NETWORK IN THE CENTRE.

