

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

EMCO

EMCO 7603 RF Biconical Antenna

EMCO ETS-Lindgren 7603 RF Biconical Antenna The EMC 7603 is a biconical EMC antenna in the EMC/ETS-Lindgren biconical family. OEM 7603 listings describe a broadband biconical element for radiated-emissions and immunity work in the VHF/UHF EMC bands, 50 ohm, with a balun feed and tripod/mast mount. Companion EMC 3104/3109/3110 biconicals cover overlapping 20-300 MHz class ranges; confirm the 7603 nameplate band. Used in OATS and chamber EMC tests. Radiated EMC emissions and immunity with a broadband biconical element. The EMC 7603 is a biconical EMC antenna in the EMC/ETS-Lindgren biconical family. OEM 7603 listings describe a broadband biconical element for radiated-emissions and immunity work in the VHF/UHF EMC bands, 50 ohm, with a balun feed and tripod/mast mount. Companion EMC 3104/3109/3110 biconicals cover overlapping 20-300 MHz class ranges; confirm the 7603 nameplate band. Used in OATS and chamber EMC tests. Radiated EMC emissions and immunity with a broadband biconical element. Instrument Type: RF biconical EMC antenna



MODEL

EMCO 7603

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

7603

LISTING

<https://aumictechlabs.com/products/7603-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The EMC 7603 is a magnetic field generating coil designed for facilitating magnetic susceptibility tests. It is engineered to comply with MIL-STD-461, Method RS01, ensuring rigorous adherence to specified standards for electromagnetic interference (EMI) testing. This accessory is

constructed with stable materials for longevity and is intended to enhance the capabilities of EMCO milling machines in specific testing environments. Technical Specifications * Function: Magnetic Field Emission Loop Generating Coil Compliance Standard: MIL-STD-461, Method RS01 Construction: * Coil: 10 turns of No. 16 insulated wire wound on a non-conducting form. * Materials: Constructed of stable materials for long life. Physical Dimensions: * Nominal Coil Diameter: 12 cm * Thickness of Coil: 0.3 cm * Weight: 1 lb Electrical Interface: * Connectors: 2 banana jacks spaced 0.75 inches apart. * Lead Recommendations: For maximum drive, No. 10 AWG wire is suggested. * Resistor Requirement (for MIL-STD-461, Method RS01): A 1 ohm +/-10%, 5-watt resistor should be connected in series with the current drive. This resistor is positioned for convenient connection of an EMI meter for monitoring drive current. Compatibility The EMCO 7603 can be used with EMCO milling machines and is specifically intended for use in conjunction with MIL-STD-461, Method RS01 testing protocols. Its integration aims to provide accurate and repeatable results for magnetic susceptibility tests. Why Choose Aumictech for EMCO 7603? At Aumictech, we specialize in supplying precision testing equipment. Whether you need to perform accurate magnetic susceptibility tests, ensure compliance with military standards, or enhance your EMI testing capabilities, our team ensures the EMCO 7603 delivers maximum performance for your application.

Features & description

From manufacturer datasheet

Polarization: linear (element orientation)

Brand Lineage: EMCO ETS-Lindgren Year Class: 7603 biconical Connector Class: N-type class balun output Band Class: VHF/UHF EMC (confirm nameplate) Related Horn: 3160-05 pyramidal horn Related Dipole: ETS-3121C dipole set Vswr Class: biconical match over the stated band Power Class: immunity drive per 7603 sheet Calibration Class: AF / gain calibration Sibling: EMCO 3104/3109/3110 biconical class Notes From EMCO 7603 biconical listings (50 ohm balun, tripod/mast, EMC VHF/UHF class). Exact MHz span, antenna factor, and VSWR are on the 7603 calibration; do not invent them.

7603 Characteristics / Specifications

PARAMETER	VALUE
Model	7603
Instrument Type	RF biconical EMC antenna
Element	biconical
Impedance	50 ohm
Feed	balun
Family	EMCO / ETS-Lindgren biconical
Manufacturer	EMCO / ETS-Lindgren
Literature	EMCO 7603 biconical listings
Form Factor	biconical on mast/tripod
Application Class	radiated EMC
System Role	broadband EMC antenna
Use Case	OATS and chamber emissions/immunity
Documentation Type	OEM 7603 listing
Mounting Class	tripod / mast
Polarization	linear (element orientation)
Brand Lineage	EMCO ETS-Lindgren
Year Class	7603 biconical
Connector Class	N-type class balun output
Band Class	VHF/UHF EMC (confirm nameplate)
Related Horn	3160-05 pyramidal horn
Related Dipole	ETS-3121C dipole set
Vswr Class	biconical match over the stated band
Power Class	immunity drive per 7603 sheet
Calibration Class	AF / gain calibration
Sibling	EMCO 3104/3109/3110 biconical class

7603 Specifications

PARAMETER	VALUE
Applications	Radiated EMC emissions and immunity with a broadband biconical element.
Key Features	Broadband biconical EMC antenna
Technical Specifications	Model: 7603

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes

From EMC0 7603 biconical listings (50 ohm balun, tripod/mast, EMC VHF/UHF class). Exact MHz span, antenna factor, and VSWR are on the 7603 calibration; do not invent them.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.