

ORNG-115-3

Berg Orange Quality RG174 Ultrasonic Flaw Cable, Lemo-1 to Microdot, 3 ft



The ORNG-115-3 is a 3-foot, high-performance ultrasonic flaw detection cable built with RG-174 coaxial cable. It features a LEMO-1 straight connector to a Microdot male plug, designed for precision signal transmission in non-destructive testing environments. Its compact length and durable construction make it ideal for portable, bench, and field-based NDT systems.

Specifications

- **Part Number: ORNG-115-3**
- **Cable Type: RG-174 Coaxial Ultrasonic Flaw Detection Cable**
- **Length: 3 feet (0.91 meters)**
- **Color: Orange**
- **Connector A: LEMO Size 1 Straight Plug**
- **Connector B: Microdot Male (10-32 UNF)**

Features

- **LEMO-1 to Microdot connector pairing** provides secure and consistent signal transfer between transducers and flaw detectors, supporting a range of ultrasonic test setups.
- **Compact 3-foot length** is ideal for portable and benchtop NDT applications, helping reduce cable clutter and signal loss in close-range environments.
- **RG-174 coaxial cable construction** delivers dependable 50-ohm impedance and supports high-frequency performance for ultrasonic flaw detection.
- **EMI-shielded design with a braided shield** helps maintain signal clarity by protecting against external electrical interference during inspections.
- **Bright orange PVC jacket** improves visibility, reduces trip hazards, and resists abrasion, making the cable easy to manage in field or lab conditions.
- **Flexible and rugged build** allows repeated coiling and uncoiling without compromising cable integrity, supporting long-term reliability in active testing environments.

Applications

- **Flaw Detection:** Used in ultrasonic NDT systems to locate cracks, voids, or discontinuities in metals, composites, and welds.
- **Thickness Gauging:** Enables accurate measurement of material thickness in pipelines, tanks, and structural components.
- **Precision Lab Testing:** Supports high-resolution ultrasonic evaluations in laboratory environments where short cable lengths improve signal integrity.
- **Aerospace Inspection:** Utilized in aircraft maintenance and manufacturing to detect subsurface defects in critical components.
- **Field Service and Maintenance:** Ideal for compact, portable test equipment used in industrial site inspections and maintenance programs.
- **Medical and Biomedical Research:** Occasionally adapted for high-frequency transducer connections in experimental ultrasound systems.

