

Detectable Aluminum Foil Underground Warning Tape

Color-coded metallic-core marking tape for identification, protection and electronic location of buried utilities

PRODUCT OVERVIEW

VOLTA Detectable Warning Tape is a full-width aluminum-foil underground marking tape supplied in high-visibility, color-coded faces with a permanent black legend and the VOLTA brand mark. The metallic core allows the tape to be traced from the surface with a standard non-ferrous metal locator or cable locator before excavation. If a trench is opened, the printed face provides an immediate visual warning of the service buried below. One construction is used across five color and legend variants for electrical, fibre / telecom, potable water, storm-water and sewer applications.

KEY FEATURES

- Aluminum foil core — locatable before excavation
- Permanent black legend and VOLTA logo on every repeat
- High-visibility color face matched to the utility type
- 150 mm width for strong visual presence and locating mass
- 300 m rolls for long continuous runs with fewer joints
- Suitable for non-metallic services (PVC, HDPE, fibre ducts)
- Print intended for direct burial in typical soil conditions
- Five standard color / legend variants in one construction

STANDARD COLOR / LEGEND RANGE

Artwork shown from VOLTA print plates. English legends as specified for this series.

احذر: يوجد كابل كهربائي في الأسفل



CAUTION: BURIED ELECTRICAL CABLE BELOW

ELECTRICAL

Safety Red · Ref. VT03-R

CAUTION: BURIED ELECTRICAL CABLE BELOW

Electric power cables, conduit and lighting cables

احذر: خط انابيب تصريف سيول مغمور



CAUTION: BURIED STORM WATER LINE BELOW

STORM WATER

Green (storm) · Ref. VT03-G

CAUTION: BURIED STORM WATER LINE BELOW

Storm-water and surface-water drainage lines

تحذير: خط هاتف في الاسفل



CAUTION: BURIED FIBRE OPTIC/TELECOM LINE CABLE BELOW

FIBRE OPTIC / TELECOM

Yellow · Ref. VT03-Y

CAUTION: BURIED FIBRE OPTIC/TELECOM LINE CABLE BELOW

Fibre-optic and telecommunication cables

إحذر: خط أنابيب مياه مغمور



CAUTION: BURIED WATER LINE BELOW

WATER

Blue · Ref. VT03-B

CAUTION: BURIED WATER LINE BELOW

Potable water lines

احذر: خط انابيب صرف صحي مغمور



CAUTION: BURIED SEWER LINE BELOW

SEWER

Green (sewer) · Ref. VT03-GN

CAUTION: BURIED SEWER LINE BELOW

Sanitary sewer and wastewater lines



TECHNICAL SPECIFICATIONS

Values in this table are the supplied product configuration.

Product type	Detectable underground warning tape
Material	Aluminum foil (metallic-core marking tape)
Width	150 mm (15 cm / 5.9 in)
Length per roll	300 m (984 ft)
Overall thickness	0.115 mm (115 µm / approx. 4.5 mil)
Print repeat	300 mm (from artwork)
Print	Permanent black legend + VOLTA logo on each repeat
Legend language (this sheet)	English (print plates also carry Arabic)
Net weight	5.5 kg per roll
Packing	2 rolls per carton
Carton size	24 × 24 × 32 cm
Carton net weight	11.0 kg (2 × 5.5 kg)
Color / legend range	Five variants — see page 1

CONSTRUCTION

Industry-typical construction for this product class is a laminated sandwich: printed film / continuous aluminum foil core / protective backing.

The foil core is the detectable element. Laminated printing keeps the legend readable after burial. Physical test values (tensile, elongation, foil-core thickness) are available from factory QC reports on request.

APPLICATIONS

Municipal, industrial and infrastructure buried services:

Electrical distribution · Fibre-optic and telecom routes · Potable water
· Storm drainage · Sanitary sewer.

Use wherever a visual warning and an electronic locate path are required above a buried line, including non-metallic pipes and ducts.

INSTALLATION GUIDANCE

- Install the tape in the trench above the utility, centered on the service. Do not wrap the tape around the pipe or cable — it is a warning and locating ribbon, not a wrapping tape.
- Typical placement is approximately 200–300 mm below finished grade, or as required by the project specification / utility owner.
- Keep the tape continuous. If a join is unavoidable, overlap ends by at least one print repeat (300 mm) so the locate path is not broken.
- Backfill the first layer by hand. Avoid sharp aggregate directly against the tape.
- Detection range depends on locator type, soil conditions and burial depth. A 150 mm (6 in class) detectable tape is commonly specified where a stronger locate signal is required. Confirm with the locator manufacturer.

PACKAGING

Roll: 150 mm × 300 m
Net weight: 5.5 kg / roll
Carton: 2 rolls
Carton size: 24 × 24 × 32 cm
Carton net: 11.0 kg

STORAGE

Store indoors in the original carton.
Keep dry, cool and out of direct sun.
Support rolls to avoid telescoping or crushed edges.
Do not store under heavy loads.

COLOR REFERENCE

Colors follow the VOLTA print plates.
APWA (general reference only):
Red — electric power
Blue — potable water
Green — sewer and drain
Yellow on this series = fibre / telecom (customer specification; APWA typically uses orange for communications).