



DATA SHEETS



PRODUCT NAME:

ESB ELECTRIC WARNING TAPE

PRODUCT CODE/S:

WT14: 250MM X 200MTR ESB ELECTRIC WARNING TAPE
WT15: 500MM X 200MTR ESB ELECTRIC WARNING TAPE

KEY FEATURES:

This specification is designed to comply with the Energ Networks Tecnical Specification (ENATS) 12-23, Issue 2: 2024. The Protection tape is used to warn for the persence of and to protect underground utility services (11kv and under).

The Protection tape is made up of a 250mm or 500mm wide warning tape (made from 100% virgin polyethylene) which is then laminated to the surface of the base material (made from reconstituted polyethylene to which is added only to those additives required to facilitate the required finish, strenght, durability, color and opacity

TEST VERIFICATION OF CONFORMITY

Property	Specification	Test method / Compliance
Length.	As specified (+ / - 1m)	Tape measure
Width - warning tape (pre-lamination)	150mm (+ / - 2mm)	Tape measure
Width - protection tape (post-lamination)	As specified (+ / - 2mm)	Tape measure
Thickness - warning tape	0.1mm (+ / - 0.015mm)	Digital vernier
Thickness - protection tape	Minimum average of 2.5mm (min 2.35mm at any 1 point)	Digital vernier
Tensile Strength - warning tape	Minimum 15 MN/m ²	BS EN ISO 527: 1996.
Tensile Strength - protection tape	Minimum 10 MN/m ²	
Elongation - warning tape	400%	BS EN ISO 527: 1996.
Elongation - protection tape	300%	(specimen type 1A)
Density (warning & protection tapes)	910 to 935 kg/m ³ @ 20oC	BS EN ISO 1183: 2004.
Melt Flow Index - warning tape	1.0 - 3.0 g/10mins (2.16kg)	BS EN ISO 1133: 2005.
Melt Flow Index - protection tape	0.3 - 4.0 g/10mins (2.16kg)	
Colour.	Red base, yellow tape and black lettering.	ENATS 12-23, Issue 2:2004, Section 9
Written word and layout.	See Figure 1	ENATS 12-23, Issue 2:2004, Section 10
Adhesion of printing	Printing durability - abrasion test. Quality of printing - using Scotch tape no. 850 PUA	ENATS 12-23, Issue 2:2004, Section 11.2

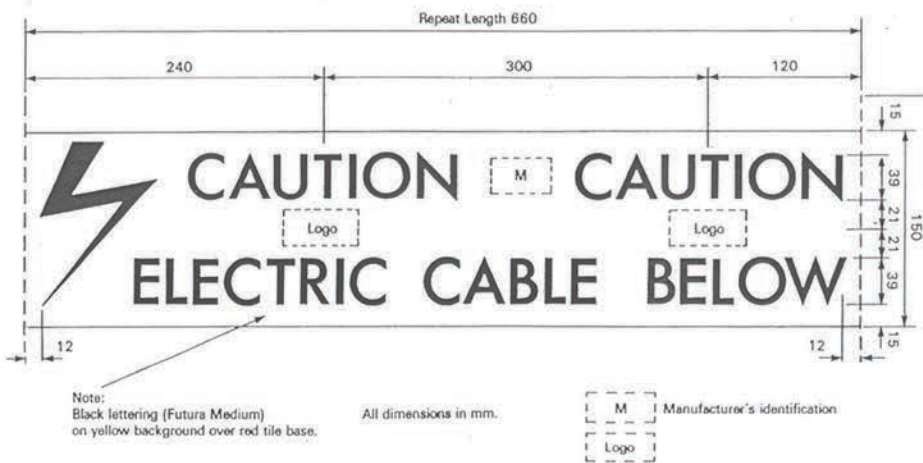
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Chemical Tests. Background discolouration - stay within colour range. ENATS 12-23, Issue 2:2004, Section 12.2.2
Adhesion of Printing - No significant change.
No delamination between warning tape and base material.

Packaging - protection tape. Coiled to suitable diameter and taped (printing on inside), ENATS 12-23, Issue 2:2004, Section 13
Weight of individual rolls are < 25kg,
Covered in black polyethylene film (for UV protection in storage).
Pallet amounts and dimensions determined by roll size.

Figure 1.



Manufacturers notes:
ESBN UG Networks are satisfied as of todays date 4th April 2018, that ABC Abrasives are hereby an approved supplier of ESB Networks underground cable protection and warning tapes only as per current specification, "16001:Plastic Warning and Protection Tapes, Strips, Tiles and Concrete Marker Posts for HV, MV and LV Underground Cables and plastic cover for LV earth-wire".

The information given in this leaflet is true to the best of our knowledge and given in good faith. Users however must establish for themselves that the material is suitable for their specific purpose. No liability will be accepted for any loss or injury resulting from its use. The manufacturer's policy is one of continuous improvement and development. We reserve the right to change the specification without notice and at any time.

STORAGE

STORE UNDER NORMAL CONDITIONS OF 70°F (21°C) AND 50% R.H. IN THE ORIGINAL CARTON.