Technical Data Sheet

KELMAPLAST No. 06 CU 2+1
detectable tape with three copper wires

description:
according to German spec. DIN 54841-3, co-extruded foil made of polyethylene, with two insulated and one non insulated (earth contacted) sinusoidal copper wires which can realize an elongation up to 10 %, laminated between two layers of polyethylene films => print is sealed with a clear and scratch-resistant film lamination and permanently legible, resistant to ageing and rot caused by heat, cold and humidity even in aggressive grounds, colourfast, free of PVC and heavy metals, the end of the rolls can be easy connected by the help of crimp connectors, standard tape colours: yellow, blue, green, red (other tape colours and measures upon request) The copper wires are prepared by *KELMAPLAST* for connecting the ends of the rolls.

type of testing	target/actual values
material	special polyethylene
thickness (according to DIN 53370)	150 µm ± 20 µm (acc. DIN point 5.2.2)
width	50 mm - 100 mm ± 2 %
length	250 m ± 0,5m
tape colours	standard: yellow, red, blue, green
printing ink	standard: black
diameter insulated copper wire	0,9mm
diameter non insulated copper wire	0,6mm
tensile strength – foil (acc. DIN EN ISO 527-1) test conditions: 100 mm / min ± 10 % 24 h at 23° C ±	≥ 20 N/mm² (foil)
temperature resistance	≥ -20°C till < +70°C (acc. DIN point 6.8.1 + 6.8.2)
linear resistor	< 0,10 Ω / m (acc. DIN point 5.5.1)
chemical resistance (acc. DIN ISO 175) after 24H storing no changing in colour	25% HNO_3 (acc. DIN point 6.1) 20% Na_2CO3 20% $(NH_4)_2S$
print	standard prints or specified by customer