

# DIN EN 16812:2016-11 (E)

## Textiles and textile products - Electrically conductive textiles - Determination of the linear electrical resistance of conductive tracks

---

<b>Contents</b>		<b>Page</b>
European foreword .....		3
1	Scope .....	4
2	Normative references .....	4
3	Terms and definitions .....	4
4	Principle of test .....	5
5	Test equipment .....	5
6	Test specimens .....	6
6.1	Number of test specimens .....	6
6.2	Dimensions of specimens .....	6
6.3	Conditioning .....	6
6.4	Relaxation .....	6
7	Test set-up .....	6
7.1	General .....	6
7.2	Test set-up for a "four electrode - four wire method" .....	6
7.3	Test set-up for a "two electrode - four wire method" .....	7
8	Test procedure .....	8
8.1	General .....	8
8.2	Preparation of conductive track contact points .....	8
8.3	Tensioning .....	9
8.3.1	General .....	9
8.3.2	Yarns .....	9
8.3.3	Fabrics .....	9
8.4	Contacting/ clamping of the specimen .....	9
8.5	Modus operandi and calculation of results .....	10
8.5.1	"Four electrode - four wire method" .....	10
8.5.2	"Two electrode - four wire measurement" .....	10
9	Test report .....	11
Annex A (informative) Four point (wire) Kelvin method .....		13
A.1	"Four electrode - four wire method" .....	13
A.2	"Two electrode - four wire method" .....	14
Bibliography .....		15