



uki is one of Europe's largest suppliers of electrical insulation materials and flexible films

**UK Insulations**  
**Product Information**

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## 2mm 180 Nomex cable

Thermal Class F (155°C)  
Halogen and silicon free

Conductor	: Stranded E-Copper, bare or tin coated
Base cover	: 0.25... 2.50 mm <sup>2</sup> Acetate fibre
	: 4.00... 10.00 mm <sup>2</sup> without Base cover
Insulation	: 1 layer Polyester film
	: 1 layer Aramid paper NOMEX®, wound in opposing directions
Braid	: Polyester fibre
Varnish	: Polyurethane
Standard colours	: white
Standard winding	0.25-1.50mm <sup>2</sup> - 200m coils
	2.50-4.00mm <sup>2</sup> - 100m coils
	6.00- 35.00mm <sup>2</sup> - 50m coils
	50.00-95.00mm <sup>2</sup> - 25m coils

**Nomex® is a registered trademark of DuPont**

### Mechanical properties

Hot pressure test (155°C/4h - DIN VDE 0472 part 609)	: ca. 20%
Temperature range	: -40...155°C
Bending radius	: $r \geq 4 \times$ Outer Diameter

### Electrical properties

Insulation resistance (DIN VDE 0472 part 502 test method D)	: $\geq 200 \text{ M}\Omega \times \text{km}$
Test voltage (DIN VDE 0472 part 509 test method B)	: 4.0kV (Sinus/50Hz/2 min)
Operating voltage	: max. 800 V



Nom. Cross Section (mm <sup>2</sup> )	Number and Dimensions of single wires	Outside $\varnothing$ nominal (mm <sup>2</sup> )	Tolerance (mm)	Weight of copper (kg/km)	Conductor resistance max at 20 °C ( $\Omega$ /km)	Open M/C (amps)	Closed M/C (amps)
0.25	14 x 0.15 mm	1.7	$\pm 0.10$	2.5	75.5	—	—
0.37	12 x 0.20mm	1.8	$\pm 0.10$	3.7	50.0	—	—
0.50	16 x 0.20mm	1.9	$\pm 0.10$	5.0	37.1	—	—
0.75	24 x 0.20mm	2.2	$\pm 0.10$	7.5	24.8	7	7
1.00	32 x 0.20mm	2.35	$\pm 0.10$	10.0	18.5	10	10
1.50	30 x 0.25mm	2.8	$\pm 0.10$	15.0	12.7	14	14
2.50	50 x 0.25mm	3.0	$\pm 0.10$	25.0	7.6	25	24
4.00	56 x 0.30mm	4.0	$\pm 0.15$	40.0	4.78	36	30
6.00	84 x 0.30mm	4.9	$\pm 0.20$	60.0	3.14	47	36
10.00	80 x 0.40mm	5.8	$\pm 0.20$	100.0	1.84	65	48
16.00	128 x 0.40mm	7.0	$\pm 0.20$	160.0	1.16	87	65
25.00	200 x 0.40mm	8.5	$\pm 0.25$	250.0	0.743	115	88
35.00	280 x 0.40mm	10.2	$\pm 0.25$	350.0	0.529	143	110
50.00	400 x 0.40mm	11.7	$\pm 0.30$	500.0	0.369	178	140
70.00	560 x 0.40mm	14.0	$\pm 0.40$	700.0	0.260	220	175

