



kalTHERM 155-2 stranded hook-up wire, free from halogen and silicon



kalTHERM 155-2 connecting lead wires are heat resistant and are especially suitable for use in devices which are subject to a subsequent immersion process. They are resistant against common solvents and oils as well as common immersion paints and immersion resins.

Application:

Connecting leads for motors, transformers and other areas of application of the insulation class F (155°C) according to VDE 0530.

Design:

- Conductor:** tinned or bare copper wires
- Under spinning:** 0.25 – 2.5 mm² acetate silk; 4-95 mm² without base cover
- Wrapping:** 1 layer polyester foil
- Wrapping:** 1 layer Nomex®-Aramid paper wrapped in the opposite direction
- Plaiting:** polyester yarn
- Varnish:** polyurethane

Mechanical characteristics:

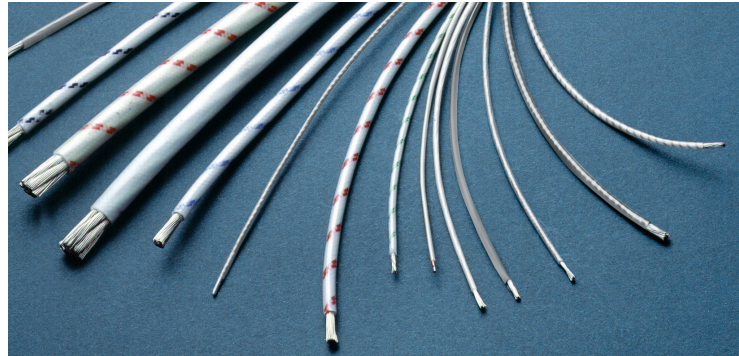
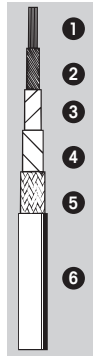
Heat pressure (155°C/4h – DIN VDE 0472 Part 609): approx. 20 %

Temperature range: - 40°C to +155°C

Bending radius: $r \pm 4 \times$ outer diameter

Electrical characteristics:

Insulation resistance: min. 200 MΩ x km according to VDE 0472 § 502.3. Type of checking



Nominal voltage: U₀/U 450/750 V

Operating voltage: max. 800 V

Check voltage: 4 kV bei 50 Hz/2 min according to VDE 0472, § 509 Absatz 1.2

Electric strength: > 8 kV

Colour code: Through supplementing with the number of the colour code, you receive the complete item number.

Standard colours:

0.25 – 6 mm² white or white with characteristic wires, as of 10.0 mm² white. Other colours upon request.

● white
white/black

XX = 05
XX = 21

white/blue XX = 22
white/brown XX = 23
white/red XX = 24
white/purple XX = 25
white/yellow XX = 28
white/green XX = 29
green/yellow XX = 00

kalTHERM 155-2 in the colour white is supplied by **kaltenbach** in the cross sections 0.5 to 2.5 mm² also with black printing (numbers 1-16); with a minimum production amount also other colours upon request.

● Rings = Standard delivery format
* Minimum production quantities upon request

Item number tinned	Item number bare *	Cross section mm ²	Delivery format	Running length approx m	Wire construction n x mm	Outer diameter mm	Conductive resistance at +20°C max Ohm/km	Copper number kg/1000 m
● 8209-XX 8210-XX 8211-XX	8309-XX 8310-XX 8311-XX	0,25	● Rings EB Spools K 250	200 3750 1800	14 x 0,15	1,70 ± 0,10	75,500	2,5
● 8213-XX 8214-XX 8215-XX	8313-XX 8314-XX 8315-XX	0,37	● Rings EB Spools K 250	200 2000 1650	12 x 0,20	1,80 ± 0,10	50,500	3,7
● 8217-XX 8218-XX 8219-XX	8317-XX 8318-XX 8319-XX	0,50	● Rings EB Spools K 250	200 2750 1500	16 x 0,20	1,90 ± 0,10	37,100	5,0
● 8221-XX 8222-XX 8223-XX	8321-XX 8322-XX 8323-XX	0,75	● Rings EB Spools K 250	200 2000 1250	24 x 0,20	2,20 ± 0,10	24,800	7,5
● 8225-XX 8226-XX 8227-XX	8325-XX 8326-XX 8327-XX	1,00	● Rings EB Spools K 250	200 1750 1000	32 x 0,20	2,35 ± 0,10	18,500	10,0
● 8229-XX 8230-XX 8231-XX	8329-XX 8330-XX 8331-XX	1,50	● Rings EB Spools K 250	200 1500 750	30 x 0,25	2,60 ± 0,10	12,700	15,0
● 8233-XX 8234-XX 8235-XX	8333-XX 8334-XX 8335-XX	2,50	● Rings EB Spools K 250	100 1000 500	50 x 0,25	3,00 ± 0,10	7,600	25,0
● 8237-XX 8241-XX 8245-XX	8337-XX 8341-XX 8345-XX	4,00 6,00 10,00	● Rings ● Rings ● Rings	100 50 50	56 x 0,30 84 x 0,30 80 x 0,40	4,00 ± 0,15 4,90 ± 0,20 5,80 ± 0,20	4,730 3,140 1,840	40,0 60,0 100,0
● 8249-XX 8253-XX 8257-XX	8349-XX 8353-XX 8357-XX	16,00 25,00 35,00	● Rings ● Rings ● Rings	50 50 50	128 x 0,40 200 x 0,40 280 x 0,40	7,00 ± 0,20 8,50 ± 0,25 10,20 ± 0,25	1,160 0,743 0,529	160,0 250,0 350,0
● 8261-XX 8265-XX 8269-XX	8361-XX 8365-XX 8369-XX	50,00 70,00 95,00	● Rings ● Rings ● Rings	25 25 25	400 x 0,40 560 x 0,40 485 x 0,40	11,70 ± 0,30 14,00 ± 0,40 16,00 ± 0,40	0,369 0,260 0,203	500,0 750,0 950,0

● Core assortment (DE: EB) Rings (DE: Ringe) Spools (DE: Spulen)

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