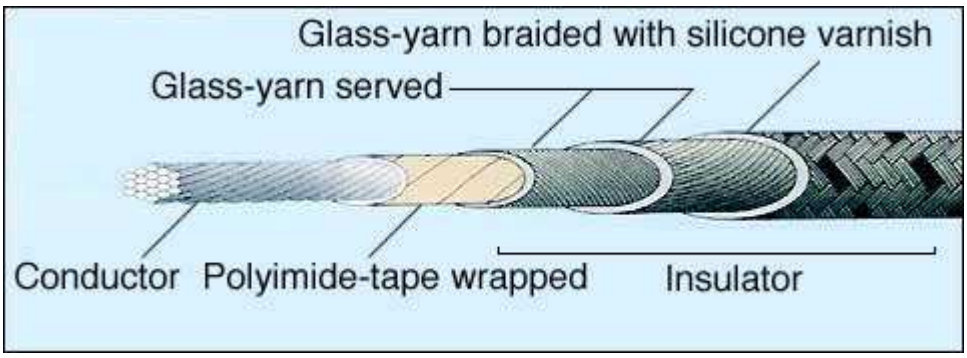
Polyimide-tape wrapped and glass-insulated nickel-conductor heat-resistant wires (KPGB)

Polyimide-tape wrapped and glass-insulated nickel-conductor heat-resistant wire (KPGB) is made of nickel wires which are highly resistant to heat and corrosion, wrapped with polyimide-tape and covered with glass fiber. Maximum operating temperature of this series is 220℃.



Construction	
Conductor	Basically conductor is a stranded wire made of several nickel elemental wires which correspond with JIS C 2532 (Electrical resistance wires, ribbons, and sheets for general use). Construction of the conductor is shown in below table. Nickel-coated annealed copper wire also can be a conductor.
Insulator	Conductor is double wrapped with polyimide-tape, double served with glass evenly, braided with glass-yarn, and baked with silicone varnish on the surface to make an insulator. If nominal sectional area of the conductor is 8.0 Sq. or more, it is double braided with grass-yarn instead of having the serving process.
Color	Color identification is made by coloring silicone varnish, and spiraling glass-yarn braid and colored glass fiber in stripes at the outermost. The standard is black-spiraled stripes on a white ground.
Application	Widely used as lead wires of electric heaters or wirings in high-temperature equipments where, especially resistance to heat and corrosion is required.

table

Parts No.	Conductor			Taping thickness	Served-wire shielding thickness	Braind shielding thickness	Finished OD	Conductor resistance	Insulation resistance	Test voltage (AC 1 min.)
	Sectional area mom.	Construction No. of wires/Dia. of elemental wire	OD							
	mm2	No. of wires/mm	mm	mm	mm	mm	mm	Ω/Km	MΩ・Km	V
8451NP00N	0.75	30/0.18	1.1	0.025	0.15	0.3	2.1	29.68	10	1,500
8551NP00N	1.25	50/0.18	1.5	0.025	0.15	0.35	2.6	27.80	10	1,500
8651NP00N	2.0	37/0.26	1.8	0.025	0.15	0.35	2.9	11.53	10	1,500
5651NP00N	3.5	66/0.26	2.4	0.025	0.15	0.35	3.5	6.335	10	1,500
8851NP00N	5.5	35/0.45	3.1	0.025	0.15	0.35	4.2	4.070	10	1,500
8951NP00N	8	50/0.45	3.7	0.025	–	0.6	5.0	2.846	10	1,500
9051NP00N	14	88/0.45	4.9	0.025	–	0.6	6.2	1.622	10	1,500