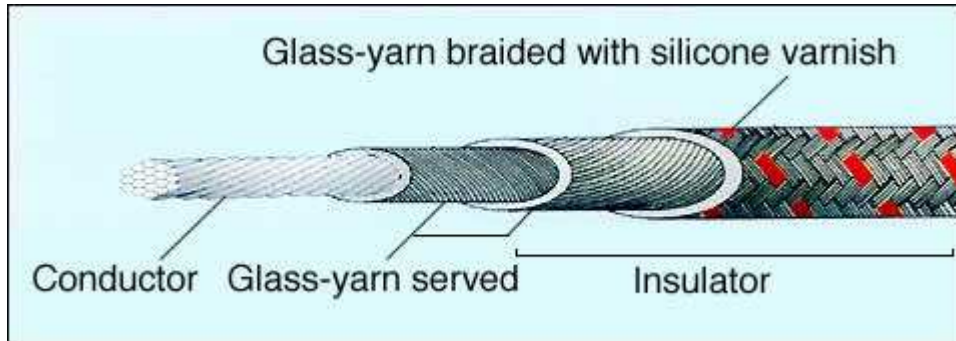


## Glass-insulated nickel-conductor heat-resistance wires (NI-GB)

Glass-insulated nickel-conductor heat-resistance wire (NI-GB) is made of nickel wires which are highly resistant to heat and corrosion, and covered with glass fiber.  
Maximum operating temperature of this series is 220°C.



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 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 glass-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 red-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			Served-wire shielding thickness	Braid 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						
	mm <sup>2</sup>	No. of wires/mm	mm						
	mm <sup>2</sup>	No. of wires/mm	mm	mm	mm	mm	Ω/Km	MΩ·Km	V
8351NG00N	0.5	20/0.18	1.0	0.15	0.3	1.9	190.2	1.0	600
8451NG00N	0.75	30/0.18	1.1	0.15	0.3	2.0	126.8	1.0	600
8551NG00N	1.25	50/0.18	1.5	0.15	0.35	2.5	76.0	1.0	600
8651NG00N	2.0	37/0.26	1.8	0.15	0.35	2.8	49.3	1.0	600
5651NG00N	3.5	66/0.26	2.4	0.15	0.35	3.4	27.7	1.0	600
8851NG00N	5.5	35/0.45	3.1	0.15	0.35	4.1	17.6	1.0	600
8951NG00N	8	50/0.45	3.7	-	0.6	4.9	12.3	1.0	600
9051NG00N	14	88/0.45	4.9	-	0.6	6.1	7.0	1.0	600
9151NG00N	22	7/20/0.45	7.0	-	0.6	8.2	4.4	1.0	600
9351NG00N	38	7/34/0.45	9.1	-	0.6	10.3	2.5	1.0	600