

ニッケル・クロム一種

丸線の導体抵抗および重量

体積抵抗率 = $108 \pm 6 \mu\Omega \cdot \text{cm}$ 密度 = 8.41 g/cm^3 (20°C)

温度による電気抵抗の標準変化率

温度 (°C)	20	100	200	300	400	500	600	700	800	900	1.000	1.100	1.200
係 数	1.000	1.004	1.009	1.016	1.021	1.019	1.011	1.003	1.002	1.006	1.015	1.027	—

線 径 mm	線 径 差 許 容 mm	断 面 積 mm ²	長 さ m/kg	重 量 g/m	導 体 抵 抗 許 容 差 %	導 体 抵 抗 Ω / m		
						最 大	標 準	最 小
12.0	± 0.12	113.1	1.052	951	± 5.0	0.01003	0.00955	0.00908
11.0	± 0.11	95.03	1.252	799	"	0.01194	0.01136	0.01080
10.0	"	78.54	1.513	661	"	0.01444	0.01375	0.01306
9.0	± 0.10	63.62	1.869	535	"	0.01782	0.01698	0.01612
8.0	± 0.09	50.27	2.36	423	"	0.0225	0.0215	0.0205
7.0	± 0.08	38.48	3.09	324	"	0.0294	0.0281	0.0267
6.5	"	33.18	3.58	279	"	0.0341	0.0326	0.0310
6.0	"	28.27	4.20	238	"	0.0401	0.0382	0.0363
5.5	"	23.76	5.01	199.8	"	0.0477	0.0455	0.0432
5.0	± 0.07	19.64	6.05	165.2	"	0.0577	0.0550	0.0523
4.5	"	15.90	7.48	133.7	"	0.0713	0.0679	0.0646
4.0	± 0.06	12.57	9.46	105.7	"	0.0902	0.0859	0.0817
3.5	"	9.621	12.36	80.9	"	0.1179	0.1123	0.1067
3.2	± 0.05	8.042	14.79	67.6	"	0.1410	0.1343	0.1276
2.9	"	6.605	18.02	55.5	"	0.1717	0.1635	0.1553
2.6	"	5.309	22.4	44.6	"	0.213	0.203	0.1932
2.3	"	4.155	28.7	34.9	"	0.272	0.260	0.247
2.0	± 0.04	3.142	37.9	26.4	"	0.361	0.344	0.327
1.8	"	2.545	46.7	21.4	"	0.445	0.424	0.404
1.6	± 0.035	2.011	59.1	16.91	"	0.563	0.537	0.511
1.5	"	1.767	67.3	14.86	"	0.641	0.611	0.581
1.4	"	1.539	77.3	12.94	± 6.0	0.750	0.702	0.667
1.3	± 0.03	1.327	89.6	11.16	"	0.862	0.814	0.765
1.2	"	1.131	105.2	9.51	"	1.012	0.955	0.898
1.1	"	0.9503	125.2	7.99	"	1.205	1.136	1.069
1.0	± 0.025	0.7854	151.3	6.61	"	1.458	1.375	1.293
0.9	"	0.6362	186.9	5.35	"	1.799	1.698	1.595
0.85	"	0.5675	210	4.77	"	2.01	1.903	1.789
0.80	"	0.5027	236	4.23	"	2.27	2.15	2.02
0.75	"	0.4418	269	3.72	"	2.58	2.44	2.30
			m/g	g/km				
0.70	± 0.02	0.3848	0.309	3240	"	2.97	2.81	2.64
0.65	"	0.3318	0.358	2790	± 7.0	3.48	3.25	3.03
0.60	"	0.2827	0.420	2380	"	4.08	3.82	3.56
0.55	"	0.2376	0.501	1998	"	4.86	4.55	4.23
0.50	± 0.015	0.1964	0.605	1652	"	5.88	5.50	5.12
0.45	"	0.1590	0.748	1337	"	7.26	6.79	6.32
0.40	"	0.1257	0.946	1057	"	9.19	8.59	8.00
0.35	"	0.09621	1.236	809	± 8.0	12.13	11.23	10.33
0.32	"	0.08042	1.479	676	"	14.50	13.43	12.36
0.29	"	0.06605	1.802	555	"	17.66	16.35	15.04
0.26	± 0.01	0.05309	2.24	446	"	21.9	20.3	18.71
0.23	"	0.04155	2.87	349	"	28.0	26.0	24.0
0.20	"	0.03142	3.79	264	"	37.1	34.4	31.7
0.18	"	0.02545	4.67	214	± 9.0	46.2	42.4	38.7
0.16	± 0.008	0.02011	5.91	169.1	"	58.5	53.7	48.9
0.15	"	0.01767	6.73	148.6	"	66.2	61.1	55.7
0.14	"	0.01539	7.73	129.4	"	76.5	70.2	63.9
0.13	"	0.01327	8.96	111.6	"	88.6	81.4	74.1
0.12	± 0.006	0.01131	10.52	95.1	"	104.1	95.5	86.9
0.11	"	0.009503	12.52	79.9	± 10.0	125.1	113.6	103.5
0.10	"	0.007854	15.13	66.1	"	151.3	137.5	125.1
0.09	"	0.006362	18.69	53.5	"	186.7	169.8	154.4
0.08	"	0.005027	23.6	42.3	± 11.0	238.	215	191.2
0.07	± 0.005	0.003848	30.9	32.4	"	311.	281	251
0.06	± 0.004	0.002827	42.0	23.8	"	424.	382	340
0.05	"	0.001364	60.5	16.52	± 12.0	615	550	484