

# ニッケル・クロム二種

## 丸線の導体抵抗および重量

体積抵抗率=112±6 μΩ-cm      密度=8.25 g/cm<sup>3</sup> (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	1.012	1.027	1.042	1.056	1.067	1.071	1.074	1.079	1.089	1.102	—	—

線 径 mm	線 径 許 容 差 mm	断 面 積 mm <sup>2</sup>	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	1.072	933	± 5.0	0.01040	0.00990	0.00941
11.0	± 0.11	95.03	1.276	784	"	0.01238	0.01179	0.01120
10.0	"	78.54	1.543	648	"	0.01497	0.01426	0.01355
9.0	± 0.10	63.62	1.905	525	"	0.01848	0.01760	0.01672
8.0	± 0.09	50.27	2.41	415	"	0.0233	0.0223	0.0212
7.0	± 0.08	38.48	3.15	317	"	0.0305	0.0291	0.0277
6.5	"	33.18	3.65	274	"	0.0354	0.0338	0.0321
6.0	"	28.27	4.29	233	"	0.0416	0.0396	0.0377
5.5	"	23.76	5.10	196.0	"	0.0495	0.0471	0.0448
5.0	± 0.07	19.64	6.17	162.0	"	0.0598	0.0570	0.0542
4.5	"	15.90	7.62	131.2	"	0.0739	0.0704	0.0670
4.0	± 0.06	12.57	9.64	103.7	"	0.0935	0.0891	0.0847
3.5	"	9.621	12.59	79.4	"	0.1222	0.1164	0.1106
3.2	± 0.05	8.042	15.08	66.3	"	0.1463	0.1393	0.1323
2.9	"	6.605	18.35	54.5	"	0.1778	0.1696	0.1608
2.6	"	5.309	22.8	43.8	"	0.221	0.211	0.201
2.3	"	4.155	29.2	34.3	"	0.283	0.270	0.257
2.0	± 0.04	3.142	38.6	25.9	"	0.374	0.356	0.339
1.8	"	2.545	47.6	21.0	"	0.462	0.440	0.418
1.6	± 0.035	2.011	60.3	16.59	"	0.584	0.557	0.530
1.5	"	1.767	68.6	14.58	"	0.665	0.634	0.603
1.4	"	1.539	78.7	12.70	± 6.0	0.771	0.728	0.684
1.3	± 0.03	1.327	91.7	10.95	"	0.894	0.844	0.794
1.2	"	1.131	107.2	9.33	"	1.050	0.990	0.931
1.1	"	0.9503	127.6	7.84	"	1.250	1.179	1.108
1.0	± 0.025	0.7854	154.3	6.48	"	1.512	1.426	1.340
0.9	"	0.6362	190.5	5.25	"	1.866	1.760	1.654
0.85	"	0.5675	214	4.68	"	2.09	1.974	1.855
0.80	"	0.5027	241	4.15	"	2.36	2.23	2.10
0.75	"	0.4418	275	3.64	"	2.68	2.54	2.39
0.70	± 0.02	0.3848	m/g	g/km	"	3.08	2.91	2.74
0.65	"	0.3318	0.315	3170	± 7.0	3.59	3.38	3.14
0.60	"	0.2827	0.365	2740	"	4.24	3.96	3.69
0.55	"	0.2376	0.429	2330	"	5.04	4.71	4.39
0.50	± 0.015	0.1964	0.510	1960	"	6.10	5.70	5.31
0.45	"	0.1590	0.617	1620	"	7.53	7.04	6.56
0.40	"	0.1257	0.762	1312	"	9.53	8.91	8.29
0.35	"	0.09621	0.962	1037	± 8.0	12.57	11.64	10.71
0.32	"	0.08042	1.259	794	"	15.04	13.93	12.32
0.29	"	0.06605	1.508	663	"	18.31	16.96	15.61
0.26	± 0.01	0.05309	1.835	545	"	22.7	21.1	19.41
0.23	"	0.04155	2.28	438	"	29.1	27.0	24.8
0.20	"	0.03142	2.92	343	"	38.5	35.6	32.8
0.18	"	0.02545	3.86	259	± 9.0	47.9	44.0	40.1
0.16	± 0.008	0.02011	4.76	210	"	60.7	55.7	50.7
0.15	"	0.01767	6.03	165.9	"	69.1	63.4	57.7
0.14	"	0.01539	6.86	145.8	"	79.3	72.8	66.3
0.13	"	0.01327	7.87	127.0	"	91.9	84.4	76.8
0.12	± 0.006	0.01131	9.17	109.5	"	107.9	99.0	90.2
0.11	"	0.009503	10.72	93.3	± 10.0	129.7	117.9	106.1
0.10	"	0.007854	12.76	78.4	"	156.9	142.6	128.3
0.09	"	0.006362	15.43	64.8	"	193.6	176.0	158.4
0.08	"	0.005027	19.05	52.5	± 11.0	247	223.	198.3
0.07	± 0.005	0.003848	24.1	41.5	"	323	291.	260
0.06	± 0.004	0.002827	31.5	31.7	"	439	396.	353
0.05	"	0.001964	42.9	23.3	± 12.0	638	570.	502