

鉄・クロム二種

丸線の導体抵抗および重量

体積抵抗率 = $123 \pm 6 \mu\Omega \cdot \text{cm}$ 密度 = 7.35 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	1.012	1.027	1.048	1.072	1.103	1.137	1.158	1.170	1.180	1.187	1.194	—

線 径 mm	線 許 容 差 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	1.203	831	± 5.0	0.01142	0.01088	0.01033
11.0	± 0.11	95.03	1.443	698	"	0.01359	0.01295	0.01230
10.0	"	78.54	1.733	577	"	0.01644	0.01566	0.01487
9.0	± 0.10	63.62	2.14	468	"	0.02030	0.01934	0.01837
8.0	± 0.09	50.27	2.71	369	"	0.0257	0.0245	0.0232
7.0	± 0.08	38.48	3.53	283	"	0.0336	0.0320	0.0304
6.5	"	33.18	4.10	244	"	0.0389	0.0371	0.0352
6.0	"	28.27	4.81	208	"	0.0457	0.0436	0.0414
5.5	"	23.76	5.73	174.6	"	0.0543	0.0518	0.0492
5.0	± 0.07	19.64	6.93	144.4	"	0.0657	0.0626	0.0594
4.5	"	15.90	8.55	116.9	"	0.0811	0.0773	0.0734
4.0	± 0.06	12.57	10.82	92.4	"	0.1027	0.0979	0.0930
3.5	"	9.621	14.14	70.7	"	0.1341	0.1278	0.1214
3.2	± 0.05	8.042	16.92	59.1	"	0.1605	0.1529	0.1452
2.9	"	6.605	20.6	48.5	"	0.1955	0.1862	0.1768
2.6	"	5.309	25.6	39.0	"	0.243	0.232	0.220
2.3	"	4.155	32.8	30.5	"	0.310	0.296	0.281
2.0	± 0.04	3.142	43.3	23.1	"	0.410	0.391	0.371
1.8	"	2.545	53.4	18.71	"	0.507	0.483	0.458
1.6	± 0.035	2.011	67.7	14.78	"	0.642	0.612	0.581
1.5	"	1.767	77.0	12.99	"	0.730	0.696	0.661
1.4	"	1.539	88.4	11.31	± 6.0	0.846	0.799	0.751
1.3	± 0.03	1.327	102.6	9.75	"	0.982	0.927	0.871
1.2	"	1.131	120.3	8.31	"	1.153	1.088	1.022
1.1	"	0.9503	143.3	6.98	"	1.372	1.295	1.217
1.0	± 0.025	0.7854	173.3	5.77	"	1.659	1.566	1.472
0.9	"	0.6362	214	4.68	"	2.050	1.934	1.817
0.85	"	0.5675	240	4.17	"	2.30	2.17	2.03
0.80	"	0.5027	271	3.69	"	2.59	2.45	2.30
0.75	"	0.4418	308	3.25	"	2.94	2.78	2.61
0.70	± 0.02	0.3848	m/g	g/km	"	3.39	3.20	3.00
0.65	"	0.3318	0.353	2830	± 7.0	3.96	3.71	3.45
0.60	"	0.2827	0.410	2440	"	4.66	4.36	4.05
0.55	"	0.2376	0.481	2080	"	5.54	5.18	4.81
0.50	± 0.015	0.1964	0.573	1746	"	6.69	6.26	5.82
0.45	"	0.1590	0.693	1444	"	8.27	7.73	7.18
0.40	"	0.1257	0.855	1169	"	10.47	9.79	9.10
0.35	"	0.09621	1.082	924	± 8.0	13.80	12.78	11.75
0.32	"	0.08042	1.414	707	"	16.51	15.29	14.05
0.29	"	0.06605	1.692	591	"	20.10	18.62	17.13
0.26	± 0.01	0.05309	2.062	485	"	25.0	23.2	21.34
0.23	"	0.04155	2.564	390	"	31.9	29.6	27.23
0.20	"	0.03142	3.279	305	"	42.2	39.1	35.9
0.18	"	0.02545	4.329	231	± 9.0	52.6	48.3	43.9
0.16	± 0.008	0.02011	5.348	187	"	66.7	61.2	55.6
0.15	"	0.01767	6.757	148	"	75.8	69.6	63.3
0.14	"	0.01539	7.692	130	"	87.0	79.9	72.7
0.13	"	0.01327	8.850	113	"	101.0	92.7	84.3
0.12	± 0.006	0.01131	10.26	97.5	"	118.5	108.8	99.0
0.11	"	0.009503	12.03	83.1	± 10.0	142.4	129.5	116.5
0.10	"	0.007854	14.33	69.8	"	172.2	156.6	140.9
0.09	"	0.006362	17.33	57.7	"	212.7	193.4	174.0
0.08	"	0.005027	21.37	46.8	± 11.0	271	245	218
0.07	± 0.003	0.003848	27.06	36.9	"	355	320	284
0.06	± 0.004	0.002827	35.34	28.3	"	483	436	388
0.05	"	0.001964	48.08	20.8	± 12.0	701	626	550