

Temperature-Current Characteristic

■ N C HW 1 dia · temp · current

[ampere]

diameter [mm]	Temperature [°C]									
	200	300	400	500	600	700	800	900	1000	1100
8.00	86	120	150	183	225	270	325	380	440	500
7.00	71	99	125	150	180	220	270	315	360	410
6.50	63	88	112	135	165	198	242	282	325	365
6.00	56	78	98	119	147	175	210	250	290	325
5.50	49	69	97	105	130	155	190	220	255	290
5.00	43	59	75	90	112	135	164	190	220	250
4.50	36	50	64	77	94	115	140	160	190	215
4.00	31	42	54	65	80	94	113	133	159	180
3.50	25	34	44	53	66	78	96	113	130	150
3.20	22	30	39	46	57	68	83	98	114	130
2.90	18.8	26	34	40	49	59	72	84	98	111
2.60	15.5	22	28	34	42	50	62	72	83	93
2.30	13.2	18.1	24	29	35	42	52	60	69	79
2.00	11.0	15.0	20	24	29	35	41	49	56	64
1.80	9.7	13.2	17.3	21	25	30	33	42	48	55
1.60	8.2	11.3	15.0	17.5	21	26	31	35	41	46
1.50	7.6	10.4	13.6	16.0	19.5	23	28	32	37	42
1.40	7.0	9.5	12.5	14.6	18.0	21	26	29	34	39
1.30	6.4	8.7	11.3	13.3	16.2	19.0	23	26	30	35
1.20	5.9	7.8	10.5	11.8	14.0	16.1	20	23	27	31
1.10	5.2	7.0	9.0	10.8	13.0	15.4	18.2	21	24	27
1.00	4.7	6.1	8.0	9.4	11.5	13.5	15.5	17.5	20	23
0.90	4.1	5.5	7.1	8.2	10.0	11.8	14.0	16.0	18.2	21
0.85	3.9	5.1	6.6	7.7	9.3	10.8	12.8	14.8	17.0	19.3
0.80	3.5	4.7	6.1	7.0	8.5	10.0	11.8	13.5	15.5	17.5
0.75	3.3	4.3	5.6	6.5	7.8	9.0	10.7	12.4	14.0	16.0
0.70	3.0	3.9	5.1	5.9	7.1	8.3	9.7	11.0	12.9	14.7
0.65	2.8	3.6	4.7	5.4	6.5	7.5	8.7	10.0	11.6	13.2
0.60	2.5	3.2	4.2	4.8	5.8	6.8	7.8	9.0	10.3	12.0
0.55	2.3	2.9	3.8	4.3	5.2	6.0	7.0	8.0	9.2	10.5
0.50	2.0	2.6	3.4	3.8	4.6	5.3	6.3	7.1	8.2	9.2
0.45	1.8	2.3	2.9	3.3	4.0	4.6	5.2	5.9	6.7	7.6
0.40	1.5	1.9	2.5	2.9	3.4	3.9	4.5	5.2	5.9	6.7

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[ampere]

dia [mm]	Temperature [°C]									
	200	300	400	500	600	700	800	900	1000	1100
0.35	1.26	1.60	2.1	2.5	2.9	3.3	3.7	4.3	4.8	5.5
0.32	1.13	1.45	1.86	2.2	2.6	2.9	3.4	3.9	4.4	4.9
0.29	1.00	1.30	1.65	1.90	2.3	2.6	3.0	3.4	3.8	4.3
0.26	0.88	1.13	1.45	1.70	2.0	2.3	2.6	2.9	3.3	3.7
0.23	0.76	1.00	1.25	1.45	1.70	1.90	2.2	2.5	2.8	3.2
0.20	0.64	0.84	1.05	1.21	1.42	1.63	1.85	2.1	2.4	2.6
0.18	0.56	0.74	0.92	1.06	1.25	1.42	1.62	1.85	2.0	2.3
0.16	0.49	0.64	0.79	0.91	1.06	1.23	1.40	1.60	1.79	1.98
0.15	0.45	0.59	0.73	0.84	0.98	1.12	1.30	1.46	1.63	1.80
0.14	0.42	0.55	0.67	0.78	0.90	1.05	1.20	1.34	1.50	1.65
0.13	0.38	0.50	0.61	0.71	0.82	0.95	1.09	1.22	1.38	1.50
0.12	0.35	0.46	0.56	0.64	0.74	0.86	1.00	1.10	1.23	1.35
0.11	0.31	0.42	0.50	0.58	0.67	0.77	0.88	1.00	1.10	1.20
0.10	0.28	0.37	0.45	0.52	0.59	0.68	0.78	0.88	0.98	1.07

Data based on straight line wire pulled horizontally in open air.

■ Conversion Table (with exception of NCHW1)

TYPE	Conversion Rate
NCHW2	0.96
FCHW1	0.76
FCHW2	0.88

- ※ Please refer to above conversion rate when obtaining current value
- ※ with exception of NCHW1.