

Welding Cable 105°C 600V

APPLICATION:

Welding Cable is for use on connections from electrode holders and clamps to arc welders, bus welding box or transformers. For applications up to 600 volts and temperatures from -50°C to +105°C.

CONDUCTORS:

- Rope lay Class K flexible stranded bare copper conductor per ASTM B-172

SEPARATOR:

- Paper tape separator between the conductor and insulation

INSULATION:

- Thermoplastic Ethylene Propylene Rubber (EPR) insulation, which is highly resistant to flame, oil, grease, solvents, ozone and abrasion. Class 45 105 OC, Table 50.55 of UL 1581

COLOR CODE:

- Black: 6 AWG – 500 MCM
- Red: 6 AWG – 4/0 AWG
- Green: 6 AWG – 4/0 AWG



Welding Machine Rating	Length in Feet						
	100	150	200	250	300	350	400
Amps	AWG	AWG	AWG	AWG	AWG	AWG	AWG
100	4	4	2	2	1	1/0	1/0
150	4	2	1	1/0	2/0	3/0	3/0
200	2	1	1/0	2/0	3/0	4/0	4/0
250	1	1/0	2/0	3/0	4/0	-	-
300	1/0	2/0	3/0	4/0	-	-	-
350	1/0	3/0	4/0	-	-	-	-
400	2/0	3/0	-	-	-	-	-
450	2/0	4/0	-	-	-	-	-
500	3/0	4/0	-	-	-	-	-
550	3/0	4/0	-	-	-	-	-
600	4/0	-	-	-	-	-	-

Lengths are from power supply to electrode holder (one way)
Do not use this table for 600 Volt in-line applications

Part Number	Conductor Size	Conductor Stranding	Nominal Insulation Thickness		Nominal Overall Diameter		Approx. Weight	Maximum Direct Current Resistance	Ampacity* 90°C Ambient
	AWG	No./AWG	inches	mm	inches	mm	lbs/1000'	20°C Ω/km	
6WELD	6	253/30	0.060	1.52	0.315	8.00	114	1.380	133
4WELD	4	403/30	0.060	1.52	0.358	9.09	168	0.865	179
2WELD	2	636/30	0.060	1.52	0.422	10.72	249	0.549	237
1WELD	1	798/30	0.080	2.03	0.492	12.50	299	0.436	284
1/0WELD	1/0	1016/30	0.080	2.03	0.547	13.89	387	0.345	327
2/0WELD	2/0	1261/30	0.080	2.03	0.591	15.01	470	0.276	377
3/0WELD	3/0	1590/30	0.080	2.03	0.657	16.69	588	0.219	449
4/0WELD	4/0	2007/30	0.080	2.03	0.705	17.91	722	0.173	514
250WELD	250	2399/30	0.095	2.41	0.807	20.50	890	0.147	577
350WELD	350	3327/30	0.095	2.41	0.894	22.71	1193	0.106	719
500WELD	500	4746/30	0.095	2.41	1.122	28.50	1724	0.074	908

All values are nominal and subject to correction

*Ampacity - Free air measured. Based on continuous duty at 90°C conductor temperature

This cable is not intended for in line voltage use. Improper use could be hazardous to personnel and could damage equipment.



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