

WELDING CABLE

CONSTRUCTION:

CONDUCTOR FLEXIBLE SOFT DRAWN BARE COPPER (CLASS K STRANDING).

INSULATION *BLACK HEAVY DUTY EP RUBBER WITH RESISTANCE TO ABRASION, CUTTING, TEARING, MOISTURE, AND CHEMICALS.

Charlotte Wire Part#	Size AWG	Number of Strands	Conductor Diameter (in.)	Overall Diameter (in.)	Approx. Net Wt. (Lbs/Mft)
CW03349	8	168	.17"	.31"	85
CW03350	6	259	.21"	.34"	125
CW03351	4	413	.27"	.39"	180
CW03361	3	476	.29"	.43"	227
CW03352	2	665	.34"	.45"	270
CW03353	1	836	.38"	.52"	320
CW03354	1/0	1045	.43"	.57"	410
CW03355	2/0	1330	.48"	.62"	485
CW03356	3/0	1672	.54"	.67"	610
CW03357	4/0	2107	.68"	.73"	770
CW03358	250MCM	2527	.75"	.89"	970
CW03359	350MCM	3458	.88"	.97"	1300
CW03360	500MCM	5054	1.07"	1.15"	1880

*To specify red (or other color), add color to Part Number (ex. 4/0 Red would be CW03357-Red).

APPLICATION:

Used in secondary voltage resistance welding leads, as well as connections to bus, transformer, and some other portable applications where very flexible cable is needed. Some continuous duty applications per NEC may not be suitable for welding cable as it is designed for intermittent use.

AMPACITIES FOR SINGLE CONDUCTOR WELDING CABLE APPLICATION

AMPS	100FT	150FT	200FT	250FT	300FT	350FT	400FT		
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	LENGTH IN FEET FOR TOTAL CIRCUIT FOR SECONDARY VOLTAGES ONLY. NO TO BE USED FOR 600VOLT IN-LINE APPLICATIONS.						
550	3/0	4/0							
600	4/0		REQUIRED AWG SIZE SHOWN IN TABLE						

Ampacities based on 4Volt drop, 60% duty cycle, 60Deg C copper temperature, 40Deg C ambient temperature, and yield load factors from 20% to 35%.

SUGGESTED AMPACITIES

FOR 600VOLT IN-LINE USES (FOR PORTABLE CABLE CONTINUOUS DUTY, 40DEG C AMBIENT)*

Size AWG	Amps
6	75
4	100
2	140
1	160
1/0	190
2/0	223
3/0	265
4/0	310
250MCM	445
350MCM	552
500MCM	695

*May not be suitable for all Installations per NEC.