Extra Flexible Welding Cable

Premium Grade • Extra Hard Usage • Color Jacket
6 - 4/0 AWG • 600V • 105°C to -55°C

FEATURES

- Excellent flexibility to last longer in flex applications (Class M #34 Stranding)
- Abrasion resistant
- Resists oils, solvents and chemicals
- Flexible at -55°C for use in cold environments
- Ozone and weather resistant
- Orange jacket for high visibility
- Improved service life, saving money in replacement costs, maintenance costs and downtime
- Meets NEC flame requirement for welding cable
- Rated +105°C for overload, etc.

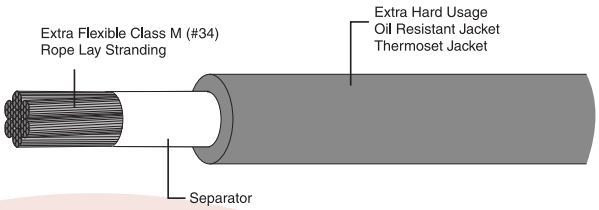
APPLICATIONS

Designed for welding cable use where exposed to temperature extremes, extra hard usage, and severe environmental extremes.

CONSTRUCTION

Conductors
Bare annealed copper per ASTM B-3.
34 AWG rope lay strand per ASTM B-172.

Jacket
Extra hard usage, oil resistant, thermoset (orange) CPE per ASTM D-4313.



Separator
A tape separator is applied between the conductor and insulation to facilitate stripping.

Cable Identification
Surface print on jacket:
"(size) AWG (or KCMIL) Extra Flexible Welding Cable -55°C to +105°C 600V Oil Resistant"

PART NUMBER	SIZE	STRANDING	NOMINAL O.D.	AMPS[1]	SHIP WT. LBS./M FT.
05-1119	6	665x34	.370	115	152
05-1121	4	1045x34	.420	150	211
05-1123	2	1650x34	.490	205	302
05-1125	1	2090x34	.530	240	364
05-1127	1/0	2640x34	.610	285	464
05-1129	2/0	3300x34	.650	325	549
05-1131	3/0	4180x34	.720	380	682
05-1133	4/0	5225x34	.830	440	871

[1]Ampacity ratings are based on continuous use at 105°C conductor temperature and 30°C ambient temperature. Ampacities will be greater when used for intermittent welding applications.

Welding Cable

Black Thermoset Jacket • 6 AWG • 500 MCM • 600 Volts • 90°C

FEATURES

- Good flexibility
- Abrasion-resistant
- Good color retention

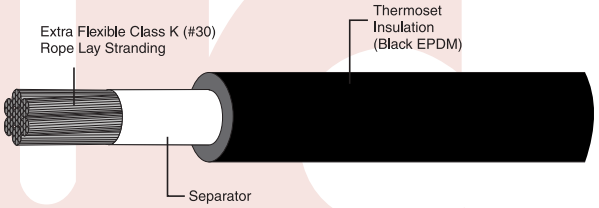
APPLICATIONS

Secondary voltage resistance welding leads
Power supply applications not exceeding 600 volts AC

CONSTRUCTION

Conductor
6 AWG through 500 kcmil fully annealed stranded bare copper Class K

Separator
A tape separator is applied between the conductor and insulation to facilitate stripping.



Jacket
Premium-grade 90°C EPDM, black or red
Temperature range: -40°C to +90°C
Jacket Marking
CAROLPRENE (SIZE) WELDING CABLE
600 VOLT MADE IN USA

INDUSTRY APPROVALS

RoHS Compliant

PART NUMBER	SIZE	STRANDING	NOMINAL O.D.	AMPS[1]	SHIP WT. LBS./M FT.
05-1135	6	259x30	.380	75	135
05-1137	4	374x30	.400	100	172
05-1139	2	625x30	.465	140	260
05-1141	1	778x30	.495	160	317
05-1143	1/0	990x30	.560	190	400
05-1145	2/0	1248x30	.615	223	487
05-1147	3/0	1586x30	.670	265	605
05-1149	4/0	2054x30	.750	310	827
05-1151	250	2496x30	.830	445	976
05-1153	350	3432x30	.960	552	1338
05-1155	500	5054x30	1.200	695	1995

[1]Ampacity ratings are based on continuous use. Ampacities will be greater when used for intermittent welding applications.

WELDING CABLE SIZE SELECTION GUIDE

	DISTANCE FROM WELDING EQUIPMENT						
AMPS	100'	150'	200'	250'	300'	350'	400'
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					
500	3/0	4/0					
550	4/0						

REQUIRED CABLE SIZES SHOWN IN AWG NUMBERS

The total circuit length includes both welding and ground leads (based on 4-volt drop) 60% duty cycle.

These values for current-carrying cpacity ar based on a copper temperature of 60°C (140°F), an ambient temperature of 40°C (104°F) and yield load factors from approximately 32% for the No. 2 AWG cable to approximately 23% for the No. 3/0 AWG cable, and higher for the smaller sizes. The sizes of cables generally used range from No. 2 AWG to No. 3/0 AWG. In actual service, the load factor may be much higher than indicated without overheating the cable, as the ambient temperature will generally be substantially lower than 40°C.