

CAROLPRENE WELDING CABLE

Flexible power leads for installation in conduit



PRODUCT CONSTRUCTION:

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

Insulation: Premium-grade, color-coded 90°C EPDM

Jacket: Premium-grade 105°C EPDM, black or red; Temperature range: -50°C to +105°C

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

Features: Good flexibility Abrasion-resistant Good color retention

STANDARDS AND APPROVALS



APPLICATION PROPERTIES

Conductor material	Copper	Oil resistant	Yes
Nominal voltage U [V]	600	Resistant to UV	Yes
Flame retardant	Yes	Outdoor installation	Yes
Halogen free	No	Underground installation	No
Low smoke	No		

We reserve the right to do changes as a result of running product development and/or changes in standards

ELECTRICAL PROPERTIES

Part number	AWG / Kcmil	Conductor strand count	Nominal overall o.d.	Nominal outer diameter [mm]	Net weight	Put up	Colour outer sheath
01775.99.03	1	812/30	0.495	12.57	317	Factory Reel	Red
01775.41.03	1	812/30	0.495	12.57	317	1000 FT Reel	Red
01775.41.01	1	812/30	0.495	12.57	317	1000 FT Reel	Black
01775.44.01	1	812/30	0.495	12.57	317	2500 FT Reel	Black
01775.XX.01	1	812/30	0.495	12.57	317	Various Lengths	Black
01775.35.01	1	812/30	0.495	12.57	317	250 FT Reel	Black
01775.38.01	1	812/30	0.495	12.57	317	500 FT Reel	Black
01775.38.01	1	812/30	0.495	12.57	317	500 FT Reel	Black
01776.99.03	2	646/30	0.465	11.81	260	Factory Reel	Red
01776.41.03	2	646/30	0.465	11.81	260	1000 FT Reel	Red
01776.44.03	2	646/30	0.465	11.81	260	2500 FT Reel	Red
01776.XX.03	2	646/30	0.465	11.81	260	Various Lengths	Red
01776.35.03	2	646/30	0.465	11.81	260	250 FT Reel	Red
01776.38.03	2	646/30	0.465	11.81	260	500 FT Reel	Red
01776.38.03	2	646/30	0.465	11.81	260	500 FT Reel	Red
01776.46.06	2	646/30	0.465	11.81	260	5000 FT Reel	Green
01776.41T.01	2	646/30	0.465	11.81	260	1000 FT Reel	Black
01776.44.01	2	646/30	0.465	11.81	260	2500 FT Reel	Black
01776.46.01	2	646/30	0.465	11.81	260	5000 FT Reel	Black
01776.XX.01	2	646/30	0.465	11.81	260	Various Lengths	Black
01776.35.01	2	646/30	0.465	11.81	260	250 FT Reel	Black
01776.38.01	2	646/30	0.465	11.81	260	500 FT Reel	Black
01777.99.06	4	406/30	0.375	9.53	172	Factory Reel	Green

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Part number	AWG / Kcmil	Conductor strand count	Nominal overall o.d.	Nominal outer diameter [mm]	Net weight	Put up	Colour outer sheath
01777.46.06	4	406/30	0.375	9.53	172	5000 FT Reel	Green
01777.44.01	4	406/30	0.375	9.53	172	2500 FT Reel	Black
01777.46.01	4	406/30	0.375	9.53	172	5000 FT Reel	Black
01777.XX.01	4	406/30	0.375	9.53	172	Various Lengths	Black
01777.35.01	4	406/30	0.375	9.53	172	250 FT Reel	Black
01777.38.01	4	406/30	0.375	9.53	172	500 FT Reel	Black
01777.38T.01	4	406/30	0.375	9.53	172	500 FT Reel	Black
01777.99.03	4	406/30	0.375	9.53	172	Factory Reel	Red
01777.41.03	4	406/30	0.375	9.53	172	1000 FT Reel	Red
01777.44.03	4	406/30	0.375	9.53	172	2500 FT Reel	Red
01777.46.03	4	406/30	0.375	9.53	172	5000 FT Reel	Red
01777.XX.03	4	406/30	0.375	9.53	172	Various Lengths	Red
01778.41.03	6	259/30	0.32	8.13	135	1000 FT Reel	Red
01778.XX.03	6	259/30	0.32	8.13	135	Various Lengths	Red
01778.35.03	6	259/30	0.32	8.13	135	250 FT Reel	Red
01778.38.03	6	259/30	0.32	8.13	135	500 FT Reel	Red
99432.99.01	350	3441/30	0.95	24.13	1,338	Factory Reel	Black
99432.XX.01	350	3441/30	0.95	24.13	1,338	Various Lengths	Black
01774.41.03	1/0	1025/30	0.56	14.22	400	1000 FT Reel	Red
01774.44.03	1/0	1025/30	0.56	14.22	400	2500 FT Reel	Red
01774.46.03	1/0	1025/30	0.56	14.22	400	5000 FT Reel	Red
01774.XX.03	1/0	1025/30	0.56	14.22	400	Various Lengths	Red
01774.38.03	1/0	1025/30	0.56	14.22	400	500 FT Reel	Red

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ELECTRICAL PROPERTIES

Part number	AWG / Kcmil	Conductor strand count	Nominal overall o.d.	Nominal outer diameter [mm]	Net weight	Put up	Colour outer sheath
01773.44.06	2/0	1274/30	0.615	15.62	487	2500 FT Reel	Green
01773.46.06	2/0	1274/30	0.615	15.62	487	5000 FT Reel	Green
01773.41.03	2/0	1274/30	0.615	15.62	487	1000 FT Reel	Red
01773.44.03	2/0	1274/30	0.615	15.62	487	2500 FT Reel	Red
01773.XX.03	2/0	1274/30	0.615	15.62	487	Various Lengths	Red
01773.35.03	2/0	1274/30	0.615	15.62	487	250 FT Reel	Red
01773.38.03	2/0	1274/30	0.615	15.62	487	500 FT Reel	Red
01773.38.03	2/0	1274/30	0.615	15.62	487	500 FT Reel	Red
01773.41.01	2/0	1274/30	0.615	15.62	487	1000 FT Reel	Black
01773.44.01	2/0	1274/30	0.615	15.62	487	2500 FT Reel	Black
01773.46.01	2/0	1274/30	0.615	15.62	487	5000 FT Reel	Black
01773.35.01	2/0	1274/30	0.615	15.62	487	250 FT Reel	Black
01773.38.01	2/0	1274/30	0.615	15.62	487	500 FT Reel	Black
01772.41.03	3/0	1613/30	0.67	17.02	605	1000 FT Reel	Red
01772.44.03	3/0	1613/30	0.67	17.02	605	2500 FT Reel	Red
01772.XX.03	3/0	1613/30	0.67	17.02	605	Various Lengths	Red
01772.35.03	3/0	1613/30	0.67	17.02	605	250 FT Reel	Red
01772.41.01	3/0	1613/30	0.67	17.02	605	1000 FT Reel	Black
01772.41.01	3/0	1613/30	0.67	17.02	605	1000 FT Reel	Black
01772.43.01	3/0	1613/30	0.67	17.02	605	2000 FT Reel	Black
01772.44.01	3/0	1613/30	0.67	17.02	605	2500 FT Reel	Black
01772.46.01	3/0	1613/30	0.67	17.02	605	5000 FT Reel	Black
01772.XX.01	3/0	1613/30	0.67	17.02	605	Various Lengths	Black

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ELECTRICAL PROPERTIES

Part number	AWG / Kcmil	Conductor strand count	Nominal overall o.d.	Nominal outer diameter [mm]	Net weight	Put up	Colour outer sheath
01772.35.01	3/0	1613/30	0.67	17.02	605	250 FT Reel	Black
01772.38.01	3/0	1613/30	0.67	17.02	605	500 FT Reel	Black
01772.38.01	3/0	1613/30	0.67	17.02	605	500 FT Reel	Black
01771.41.01	4/0	2029/30	0.75	19.05	827	1000 FT Reel	Black
01771.44.01	4/0	2029/30	0.75	19.05	827	2500 FT Reel	Black
01771.46.01	4/0	2029/30	0.75	19.05	827	5000 FT Reel	Black
01771.XX.01	4/0	2029/30	0.75	19.05	827	Various Lengths	Black
01771.35.01	4/0	2029/30	0.75	19.05	827	250 FT Reel	Black
01771.38.01	4/0	2029/30	0.75	19.05	827	500 FT Reel	Black

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WELDING CABLE AMPACITIES SINGLE CONDUCTOR

AMPS	length in feet for total circuit for secondary voltages only - do not use this table for 600 Volt in-line applications						
	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					
550	3/0	4/0					
600	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 capacity are 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.

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