SUPER VU-TRON WELDING CABLE

Flexible power leads for installation in conduit

PRODUCT CONSTRUCTION:

Conductor: 6 AWG through 4/0 AWG fully annealed stranded bare copper per ASTM B172 Class M

Jacket: Super Vu-Tron®, orange • Temperature range: -50°C to +90°C

Applications: Secondary voltage resistance welding leads • Power supply applications not exceeding 600 volts AC • Sizes 1/0 and larger for permanent wiring in conduit or tray of 600 V power supplies, hoists, cranes or other applications where flexible power leads must be installed in

conduit, raceways or trays

Features: Excellent flexibility to last longer in flex applications • Abrasion-resistant • Resists oils and solvents • Rated -50°C for use in cold environments • Weather-resistant • Ozone-resistant • Safety-colored for high visibility • Assured longer service life, saving money in replacement costs, maintenance cost and downtime • MSHA Approved for flame resistance • Sunlight-resistant

Industry Approvals: c(UL) Listed • CSA Certified for black only (not colors) • MSHA Approved • Meets UL Vertical Flame Test per UL 854 • RoHS Compliant

Packaging: 250' (76.2 m), 500' (152.4 m), and 1000' (304.8 m) reels • Other put-ups available on special order

Jacket Marking: Print type: Inkjet CAROLPRENE® (SIZE) 105°C WELDING CABLE 600 VOLT ORIGIN USA

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		

ELECTRICAL PROPERTIES

Part number	AWG / Kcmil	Conductor strand count	Nominal overall o.d.	Nominal outer diameter [mm]	Net weight	Put up	Colour outer sheath
01765.35.04	1	2090/34	0.53	13.46	331	250 FT Reel	Orange
01765.38.04	1	2090/34	0.53	13.46	331	500 FT Reel	Orange
01765.41.04	1	2090/34	0.53	13.46	331	1000 FT Reel	Orange
01765.XX.04	1	2090/34	0.53	13.46	331	Various Lengths	Orange
01766.35.04	2	1634/34	0.475	12.07	259	250 FT Reel	Orange
01766.38.04	2	1634/34	0.475	12.07	259	500 FT Reel	Orange
01766.41.04	2	1634/34	0.475	12.07	259	1000 FT Reel	Orange
01766.XX.04	2	1634/34	0.475	12.07	259	Various Lengths	Orange
01766.99.04	2	1634/34	0.475	12.07	259	Factory Reel	Orange
01766.44.01	2	1634/34	0.475	12.07	259	2500 FT Reel	Black
01766.46.01	2	1634/34	0.475	12.07	259	5000 FT Reel	Black
01766.XX.01	2	1634/34	0.475	12.07	259	Various Lengths	Black
01766.35.01	2	1634/34	0.475	12.07	259	250 FT Reel	Black
01766.99.01	2	1634/34	0.475	12.07	259	Factory Reel	Black
01767.35.04	4	1045/34	0.425	10.8	191	250 FT Reel	Orange
01767.38.04	4	1045/34	0.425	10.8	191	500 FT Reel	Orange
01767.41.04	4	1045/34	0.425	10.8	191	1000 FT Reel	Orange
01767.XX.04	4	1045/34	0.425	10.8	191	Various Lengths	Orange
01768.35.04	6	660/34	0.37	9.4	125	250 FT Reel	Orange
01768.38.04	6	660/34	0.37	9.4	125	500 FT Reel	Orange
01768.41.04	6	660/34	0.37	9.4	125	1000 FT Reel	Orange
01768.XX.04	6	660/34	0.37	9.4	125	Various Lengths	Orange
01764.35.01	1/0	2597/34	0.575	14.61	401	250 FT Reel	Black

ELECTRICAL PROPERTIES

Part number	AWG / Kcmil	Conductor strand count	Nominal overall o.d.	Nominal outer diameter [mm]	Net weight	Put up	Colour outer sheath
01764.35.04	1/0	2597/34	0.575	14.61	401	250 FT Reel	Orange
01764.38.04	1/0	2597/34	0.575	14.61	401	500 FT Reel	Orange
01764.41.04	1/0	2597/34	0.575	14.61	401	1000 FT Reel	Orange
01764.44.04	1/0	2597/34	0.575	14.61	401	2500 FT Reel	Orange
01764.XX.04	1/0	2597/34	0.575	14.61	401	Various Lengths	Orange
01763.35.04	2/0	3300/34	0.63	16	511	250 FT Reel	Orange
01763.38.04	2/0	3300/34	0.63	16	511	500 FT Reel	Orange
01763.41.04	2/0	3300/34	0.63	16	511	1000 FT Reel	Orange
01763.44.04	2/0	3300/34	0.63	16	511	2500 FT Reel	Orange
01763.99.04	2/0	3300/34	0.63	16	511	Factory Reel	Orange
01763.35.01	2/0	3300/34	0.63	16	511	250 FT Reel	Black
01762.35.04	3/0	4214/34	0.7	17.78	615	250 FT Reel	Orange
01762.38.04	3/0	4214/34	0.7	17.78	615	500 FT Reel	Orange
01762.99.04	3/0	4214/34	0.7	17.78	615	Factory Reel	Orange
01761.35.04	4/0	5225/34	0.8	20.32	844	250 FT Reel	Orange
01761.38.04	4/0	5225/34	0.8	20.32	844	500 FT Reel	Orange
01761.41.04	4/0	5225/34	0.8	20.32	844	1000 FT Reel	Orange
01761.44.04	4/0	5225/34	0.8	20.32	844	2500 FT Reel	Orange
01761.XX.04	4/0	5225/34	0.8	20.32	844	Various Lengths	Orange
01761.99.04	4/0	5225/34	0.8	20.32	844	Factory Reel	Orange
01761.41.01	4/0	5225/34	0.8	20.32	844	1000 FT Reel	Black
01761.44.01	4/0	5225/34	0.8	20.32	844	2500 FT Reel	Black
01761.35.01	4/0	5225/34	0.8	20.32	844	250 FT Reel	Black

ELECTRICAL PROPERTIES

Part number	AWG / Kcmil	Conductor strand count	Nominal overall o.d.	Nominal outer diameter [mm]	Net weight	Put up	Colour outer sheath
01761.38.01	4/0	5225/34	0.8	20.32	844	500 FT Reel	Black

WELDING CABLE AMPACITIES SINGLE CONDUCTOR

	length in feet for total circuit for secondary voltages only – do not use this table for 600 Volt in-line applications						
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					
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.