



Welding Cables



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(AWG Size : North America) / Double Insulated

NBR RUBBER DOUBLE INSULATED EXTRA FLEXIBLE COPPER WELDING CABLE (AWG SIZE)

Welding Cable Structure

Conductor:

Welding Cable has a rope lay Class K stranded soft drawn bare copper conductor per ASTM B-172.

Separation:

Polyester tape (25 to 30) Micron

Outer Sheath:

NBR Rubber Double Sheath, black and oil resistant

*Any other Color on specific request can also be supplied

Welding Cable Technical Data

Fixed installation : (-22to194)°F / (-30to90)°C

Nominal voltage : 600 V

Test voltage : 3000 V

Mechanical properties : Tensile strength = 1450 psi (10 N/mm²) Min
Elongation = 300 Min.

Min. bending radius : 6x cable diameter

Flame propagation : Flame retardant test
as per IEC 60332-1

Welding Cable Features

- Ultra high performance flexible welding lead, double insulated for longer life and added safety
- Excellent flexibility to last longer in flex applications
- RoHS Compliant
- Outstanding toughness & durability
- High resistance to cuts, tears & abrasion
- Resistance to oil, solvents and chemicals
- Excellent ozone and weather resistant

Welding Cable Application

Welding Cable is for use on connections from electrode holders and clamps to arc welders, bus welding box or transformers. Welding cable is for applications up to 600 volts and temperatures from -30°C to +90°C.

Standard length cable packing:

Coils (328 , 656 , 984 , 1640)ft. (100 , 200 , 300 , 500)m



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TECHNICAL INFORMATION

Cross Sectional Area	Copper Construction	Inner Dia.	Outer Dia Appx.	Max. Conductor Resistance at 20 °C	Max. Current (Amb. Temp of 40 °C)
AWG	Nos. X Dia. mm	mm	mm	Ω/km	AMPS
6	273 X 0.254	8.00	10.70	1.39	115
4	427 X 0.254	9.50	12.10	0.873	150
2	651 X 0.254	11.00	14.20	0.554	205
1	817 X 0.254	11.70	15.40	0.44	240
1/0	1045 X 0.254	12.30	16.30	0.349	285
2/0	1330 X 0.254	14.40	18.70	0.276	325
3/0	1672 X 0.254	16.60	20.80	0.221	380
4/0	2146 X 0.254	18.20	23.00	0.175	440
250MCM	2508 X 0.254	21.10	27.60	0.149	495
350MCM	3496 X 0.254	20.80	30.80	0.106	680
500MCM	5013 X 0.254	26.80	34.00	0.0743	720

- The number of wires is approximate and wire diameter is nominal; they shall be such as to satisfy the requirements of conductor resistance of UL-83.
- In view of continuous improvements in our design and process, specifications given here in are subject change without notice.

- > All are flexible conductor
- > Insulation material is NBR
- > Sheath material is NBR

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.

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Nominal voltage : 600 V

Test voltage : 3000 V

Mechanical properties : Tensile strength = 1450 psi (10 N/mm²) Min
Elongation = 300 Min.

Min. bending radius : 4 x cable diameter

Flame propagation : Flame retardant test
as per IEC 60332-1

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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				
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600	4/0						

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