

WELDING CABLE 90 C, 600 VOLTS

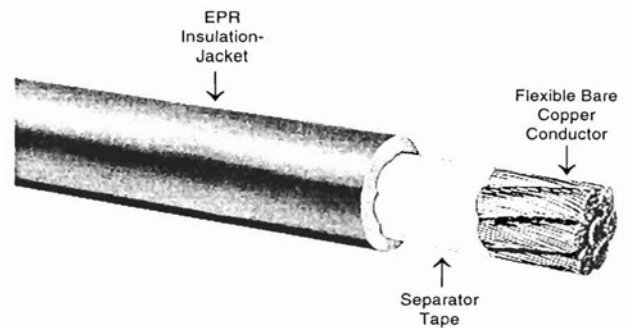
Class K (30 AWG) Stranding, EPR Insulation - Jacket

APPLICATION: As flexible welding leads connecting the electrode holder to the welding machine in the secondary circuit of electric arc welding systems.

FEATURES:

1. Class K 30 AWG flexible copper conductors.
2. Conforms to ICEA Welding Cable requirements.
3. Rated 600 volts.
4. Temperature ratings: +90°C , 40°C.
5. Passes VW-1 flame test.
6. Resistant to chemicals, oils, abrasion, heat and flame.

CONSTRUCTION: Flexible Class K rope strand soft bare copper conductor, paper separator, special EPR insulation-jacket, surface printed.



USAWC Part #	Size		No. of Strands	Conductor O.D.		Cable O.D.		Weight	
	AWG or kcmil	mm ²		In.	mm	In.	mm	Net lbs/1000 ft	Copper lbs/1000 ft
6-01WELD	6	13	259	.202	5.13	.370	9.40	124	79
4-01WELD	4	21	420	.257	6.53	.420	10.7	180	128
3-01WELD	3	27	532	.293	7.44	.450	11.4	219	166
2-01WELD	2	34	665	.328	8.33	.490	12.5	268	201
1-01WELD	1	42	836	.367	9.32	.525	13.3	319	247
1/0-01WELD	1/0	54	1045	.411	10.4	.585	14.9	415	250
2/0-01WELD	2/0	67	1330	.463	11.8	.640	16.3	508	412
3/0-01WELD	3/0	85	1672	.519	13.2	.700	17.8	628	528
4/0-01WELD	4/0	107	2107	.630	16.0	.810	20.7	775	672
250-01WELD	250	127	2499	.680	17.3	.880	22.4	934	780
350-01WELD	350	177	3458	.810	20.6	1.01	25.6	1267	1092
500-01WELD	500	253	5054	.980	24.9	1.18	30.0	1801	1562

Specification

WELDING CABLE 90C, 600 VOLTS

Class K (30 AWG) Stranding, EPR Insulation - Jacket

1. SCOPE
 - 1.1 This specification describes a single conductor portable electrode holder or trailing cable with an EPR insulation - jacket intended for use in the secondary circuit of portable and stationary arc welding machines. Cable is suitable for use at an operating temperature of 90°C and for low temperature applications down to minus 40. The cable is 600 volt rated in accordance with ICEA standards.
2. STANDARDS
 - 2.1 The following standard shall form a part of this specification to the extent specified herein:
 - 2.1.1 ICEA S-75-381/NEMA WC58 for Portable and Power Feeder Cables for use in Mines and Similar Applications.
3. CONDUCTORS
 - 3.1 Conductors shall be Class K stranded bare soft copper per Part 2 of ICEA.
4. SEPARATOR
 - 4.1 A suitable separator tape shall be applied over the conductor.
5. INSULATION - JACKET
 - 5.1 An integral insulation - jacket of EPR compound shall be extruded over the conductor. The insulation - jacket compound when tested in accordance with applicable test procedures in Part 6 of the ICEA standards, shall demonstrate suitability for a 90°C rated 600 volt cable having outstanding physicals, agings, tear strength, oil and moisture resistance and flame retardant properties.
6. IDENTIFICATION
 - 6.1 Cable shall be surface printed with a legend indicating "Cable Size Welding Cable 90C 600 Volts".
7. TESTS
 - 7.1 Cable shall be tested in accordance with the requirements of this specification at a test frequency determined by the Cable Quality Department.