



Solution for the welding universe

UNIVERSAL WELDING CABLE DOUBLE INSULATED



WELDING CABLE APPLICATION

DOUBLE INSULATED NBR RUBBER EXTRA FLEXIBLE AND DURABLE

NBR cables are engineered for high-current secondary connections to both automatic and hand-held metal arc welding electrodes. Ideal for use in tough environments, they offer flexibility on assembly lines, conveyor systems, machine tools, as well as in automated line and spot-welding machinery.

Standard cable lengths are packed in coils of 100, 200, 300, and 500 meters, delivered on wooden reels for convenience.

WELDING CABLE FEATURES

1. Superior flexible welding lead with double insulation for high performance.
2. Enhanced flame-retardant characteristics for added safety.
3. Exceptional flexibility designed to withstand frequent bending, complying with CENELEC HD 22-6 31, VDE 0282, IEC 245-6, IS 473, and BS 638-4 standards.
4. Exceptional durability and toughness for demanding applications.
5. Strong resistance to cuts, tears, and abrasions.
6. Resilient against oil, solvents, and various chemicals.
7. Excellent resistance to ozone and harsh weather conditions.

TECHNICAL DATA TABLE

Current Rating: The maximum current ratings for flexible welding cables at different duty cycles are determined by an ambient air temperature of 25°C and a conductor temperature limit of 90°C. The duty cycles for various welding processes and applications are outlined below:

- **Automatic welding:** up to 100%
- **Semi-automatic welding:** 30% to 85%
- **Manual welding:** 0% to 60%
- **Very intermittent or occasional welding:** up to 20%

VOLTAGE DROP

When total cable length is over 15 mtrs., are involved, it may be necessary to use larger cross-section cables to ensure that the voltage drop is not excessive and welding currents are maintained at adequate levels.

TECHNICAL INFORMATION

Cross- Sectional Area	Copper Construction	Inner Dia	Outer Dia Appx.	Max. Conductor Resistance at 20°C	Current Rating					Non-Welding Application
					Welding Application					
					Duty Cycle					
					100%	85%	60%	30%	20%	
Sq.mm.	Nos./Dia.mm	mm	mm	Ω/km	amp	amp	amp	amp	amp	amp
10	322/0.20	6.30	9.90	1.910	105	115	135	190	235	110
16	511/0.20	8.00	10.70	1.210	135	145	175	245	302	138
25	798/0.20	9.50	12.10	0.780	180	195	230	330	402	187
35	1121/0.20	11.00	14.20	0.554	225	245	290	410	503	233
50	1596/0.20	12.30	16.30	0.386	285	310	370	520	637	295
70	2220/0.20	14.40	18.70	0.272	355	385	460	650	794	372
95	1349/0.30	16.60	20.80	0.206	430	470	560	790	961	449
120	608/0.50	18.20	23.00	0.161	500	540	650	910	1118	523
150	760/0.50	21.10	27.60	0.129	580	620	740	1040	1297	608
185	943/0.50	23.80	30.80	0.106	660	715	850	1200	1476	690
240	1225/0.50	26.80	34.00	0.0801	710	770	916	1296	1587	744
300	1498/0.50	30.30	37.50	0.0641	800	850	1035	1450	1790	840
400	2035/0.50	33.60	41.30	0.0486	925	1000	1195	1690	2070	970

Note: In view of continuous improvements in our design and process, the specifications given here are subject to change without notice.

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