

## WHY CHOOSE US ?

International Quality Standard Range

Well Equipped Manufacturing Facility

Expert Team Of Engineers And Other Supporting Staff

Adherence to Latest Technology

Ethical Business Policies

Spotlight on Continuous Improvements

Finest Quality

Timely & Prompt Deliveries

Competitive Prices

Customized Packaging

Complete Customer Support.



**NATIONAL  
CABLE & WIRE  
INDUSTRIES**

IS : 9857/90



CML/870072118



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**NBR  
DOUBLE INSULATION  
WELDING CABLE**





## ABOUT COMPANY

Established in the year 2006, at Uttar Pradesh (India), we, **“National Cable & Wire Industries”**, an **ISO 9001:2015 Certified Company** are highly engaged in manufacturing, exporting and supplying an exceptional assortment of Copper Welding Cables and Aluminum Welding Cables

As our products are fabricated from quality raw material and well-designed manufacturing process, these are in ample demand in the industry. Furthermore, our team of skilled professionals with their immense creativity and knowledge enhance the durability of our offered range. Our products are being valued for their durability, great quality, flawless perfection, high thermal resistance, optimum elasticity and smooth finishing. Keeping customer specification in mind, our clients avail our offered range as per their variegated needs. Customers can avail the offered range from us at market leading prices.

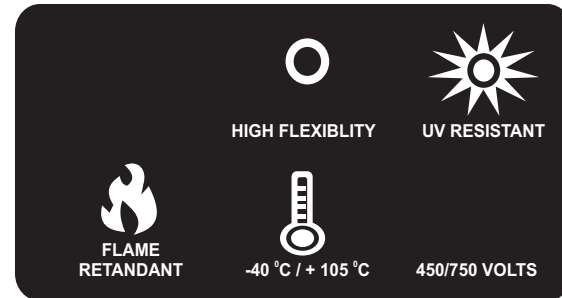
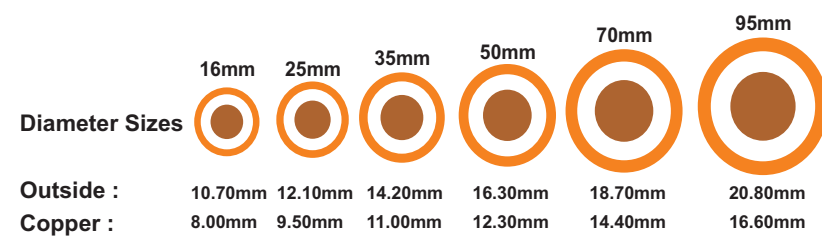
We have huge infrastructure that is well-equipped with the latest technology to manufacture a highly effective range of products. Our infrastructure is segmented into various units such as manufacturing, quality testing, research & development, sales & marketing, etc. that helps us in the production process with ease and in efficient manner. With advanced techniques deployed for the team, the production rate of our firm is enhanced and also the quality of the products. The high-end machinery enables us to meet the bulk requirements of the patrons. Our manufacturing unit is equipped with latest machinery and sufficient testing facilities. These installed machines are handled by our capable technical staff comprising trained technicians and engineers. Keeping in mind the ever changing technology and demands of the market, we have selected highly skilled team of professionals.

Our expert production team fabricates the entire range using high grade raw material that ensure us to offer the finest quality products to our esteemed clients. Under the supervision of our highly skilled team of quality controllers, these products are strictly tested on various parameters at par with the universal norms. Our team prefers to work in coordination with the clients to conceptualize their exact demands.



# Tuff weld

for tough welding



## TECHNICAL SPECIFICATIONS

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	No. X Dia.mm	mm	mm	Ω /km	amp	amp	amp	amp	amp	amp
10	322 X 0.20	6.30	9.90	1.910	105	115	135	190	235	110
16	511 X 0.20	8.00	10.70	1.210	135	145	175	245	302	138
25	798 X 0.20	9.50	12.10	0.780	180	195	230	330	402	187
35	1121 X 0.20	11.00	14.20	0.554	225	245	290	410	503	233
50	1596 X 0.20	12.30	16.30	0.386	285	310	370	520	637	295
70	2220 X 0.20	14.40	18.70	0.272	355	385	460	650	794	372
95	1349 X 0.30	16.60	20.80	0.206	430	470	560	790	961	449
120	608 X 0.50	18.20	23.00	0.161	500	540	650	910	1118	523
150	760 X 0.50	21.10	27.60	0.129	580	620	740	1040	1297	608
185	943 X 0.50	23.80	30.80	0.106	660	715	850	1200	1476	690
240	1225 X 0.50	26.80	34.00	0.0801	710	770	916	1296	1587	744
300	1498 X 0.50	30.30	37.50	0.0641	800	850	1035	1450	1790	840
400	2035 X 0.50	33.60	41.30	0.0486	925	1000	1195	1690	2070	970

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

❖ The number of wires is approximate and wire diameter is nominal; they shall be such as to satisfy the requirements of conductor resistance of IEC 60228 / DIN VDE 0295 / IS 8130 / BS 6360

Rating factors for variation in ambient temperature

Ambient temperature °C	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°
Rating Factor	1.04	1.00	0.96	0.91	0.87	0.82	0.76	0.69	0.64	0.57

### Voltage Drop :

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

### Current Rating :

The maximum current rating of flexible welding cables for different duty cycles are based on an ambient air temperature of 25°C and a maximum conductor temperature of 90°C. The percentage duty cycles for various processes and applications are as follows:

- ❖ Automobile Welding : up to 100%
- ❖ Very intermittent or Occasional Welding : up to 20%
- ❖ Semi-automatic Welding : 30% to 85%
- ❖ Manual Welding : 0% to 60%

## OUR VISION

As a quality conscious company, we are pledged to offer only quality products using the best grade raw material. These products are tested before being used at our quality control laboratory that is installed with various requisite machines. Once the production process is finished, the final product is checked again to ensure zero flaws. The quality like high corrosion & thermal resistance and sturdiness are tested over and over again. Also, the quality controllers of our team ensure the safe production and on-time delivery of the products.

## OUR MISSION

Being a client centric base, we believe in maintaining cordial relations with the customers to achieve the pinnacle of success. Because of their constant support and trust, our products have helped us to satisfy clients even more. Adopting ethical business policies and abiding by the firm's procedure, we have designed certain schemes to meet various requirements of customers. We have gained the full trust of our clients in terms of durability of products, low maintenance cost and superior quality.

## OUR BRAND

*Tuff weld*

for tough welding



## PRODUCTION UNIT

Our company possesses an enormous manufacturing facility that consists of various hi-end machines and advanced equipment. Different procedures are conducted efficiently to ensure economies of scale and quick delivery of finished products. Our manufacturing process is competently carried out by our highly skilled professionals. We have all the equipment that is required for manufacturing world-class range of products. Furthermore, our infrastructure is segmented into different departments such as production, R&D, quality control and sales & marketing to carry out the hassle free production process.



Factory Area	11000 Sq. Feet
Production Capacity	30000 Mtrs. Per Month



## WELDING CABLE

### NBR PREMIUM DOUBLE INSULATED EXTRA FLEXIBLE COPPER WELDING CABLE

#### Welding Cable Features :

- ❖ Resistance to oil, solvents and chemicals
- ❖ Excellent ozone and weather resistant
- ❖ Better flame retardant properties
- ❖ Excellent flexibility to last longer in flex applications Based on CENELEC HD 22-6 31, VDE 0282, IEC 245-6, IS 473, BS 638-4
- ❖ Highly flexible.
- ❖ Outstanding toughness & durability
- ❖ High resistance to cuts, tears & abrasion

#### Welding Cable Structure

Generally conforms to, based on CENELEC HD 22-6 31, VDE 0282, IEC 245-6, BS 6899, IS 6830/84

#### Colour Code :

Orange & Black Jacket  
\*Any other color on specific request can also be supplied

#### Double Insulation :

Insulation Material is NBR  
Sheath Material is NBR

#### Conductor :

High Conductivity, Bare Annealed Copper Flexible Conductor, EC Copper Class 5 And Class 6 Generally Conforms To IEC 60228, DIN VDE 0281

#### Welding Cable Application :

NBR/NBR  
Designed for the secondary (high current) connection to automatic or hand – held metal arc welding electrodes. It is suitable for flexible use under rugged conditions, on assembly lines and conveyor systems, in machine tool and automatically operated line and spot welding machines.

#### Welding Cable Technical Data

**Fixed installation** : -30°C to max.+ 90°C

**Nominal voltage** : 600 V

**Test voltage** : 2500 V

**Mechanical properties** : Tensile strength = 10 N/mm<sup>2</sup>  
Min. Elongation = 300 Min.

**Min. bending radius** : 6 x cable diameter

**Flame propagation** : Flame retardant test as per IEC 60332

#### Cable Packing:

Coils : 100, 200 & 300 Mtrs.

Wooden Spools : 500 Mtrs. and above