



# WIRES YOU CAN TRUST, QUALITY YOU CAN COUNT ON

**STRONG WIRES. STRONGER BONDS.**





# NABL

Natraj Industries has set a benchmark in product quality by achieving NABL (National Accreditation Board for Testing and Calibration Laboratories) accreditation, showcasing its capability to conduct international-level quality evaluations for wires and cables. Additionally, the company has a DSIR-recognized technology center within its cable division, reinforcing its commitment to innovation and excellence. NABL, an autonomous body under the Department of Science and Industrial Research (Government of India), oversees this accreditation.

As the first private facility of its kind in India, the NABL-accredited laboratory is fully equipped to meet international standards for testing a wide range of cables, up to 220 KV grade, PVC cables, flexible cables and fire survival cables. The lab adheres to Indian Standards. It also conducts eight types of fire tests to evaluate and demonstrate the fire- retardant behavior of cables.



# LOW VOLTAGE UNARMoured CABLES

Natraj Industries' Low Voltage Unarmoured Cables are engineered to deliver efficient, safe, and reliable power transmission for a wide range of electrical applications.

Manufactured using high-purity copper or aluminum conductors and insulated with premium-grade PVC/XLPE, these cables ensure excellent electrical performance and long service life.

Designed for indoor and protected installations, unarmoured construction offers greater flexibility, easier handling, and faster installation. With superior insulation and stringent quality control, Natraj LV Unarmoured Cables provide consistent performance, reduced power loss, and enhanced operational safety.

## Premium Advantages

- ⚡ High-Efficiency Conductors
- 🏗️ Flexible & Lightweight Construction
- 🛡️ Premium PVC / XLPE Insulation
- 🔥 Safe & Reliable Operation
- 🏭 Versatile Applications



# ABOUT THE COMPANY

## NATRAJ INDUSTRIES

Natraj Industries, a distinguished name in the cable manufacturing industry, is one of the oldest and most renowned manufacturers of electric wires, coaxial cables, submersible cables, XLPE insulated cables, and flexible cables in India.

Established in 1978 by its visionary founder, Shri Sudhir Kumar, the company has grown from humble beginnings to become a leader in its field. Shri Kumar's foresight, unwavering determination, and dedication, combined with the expertise of his professional team, state-of-the-art infrastructure, robust marketing network, and a commitment to customer satisfaction, have been the driving forces behind Natraj Industries' success. His focus on delivering consistent quality and economical solutions has elevated the business to remarkable heights.

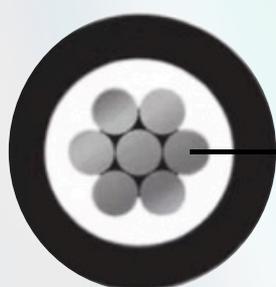
As Natraj Industries approaches its Golden Jubilee, completing 47 illustrious years in the industry, it takes immense pride in having illuminated countless homes and establishments across the nation.

The company's flagship brands, Magdolin and Polostar, have become synonymous with quality and reliability, earning the trust and confidence of customers nationwide. Through its commitment to excellence, Natraj Industries continues to contribute significantly to India's growth and development.



# SINGLE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMoured CABLE 1100 VOLT as per IS 7098- 1/1988

| Nominal Size of Conductor | Form of Conductor Circular | Nominal Thickness of XLPE Insulation for U/A | Minimum Thickness of PVC Inner Sheath | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable |
|---------------------------|----------------------------|--|---------------------------------------|---------------------------------------|-----------------------------------|-------------------------|
| (Sq.mm)                   |                            | (mm)   | (mm)                                  | (mm)                                  | (mm)                              | (Kgs./Km)               |
| 4                         | Solid                      | 0.7  | -NA-                                  | 1.8                                   | 7.5                               | 60                      |
| 4                         | Stranded                   | 0.7  | -NA-                                  | 1.8                                   | 8.0                               | 65                      |
| 6                         | Solid                      | 0.7  | -NA-                                  | 1.8                                   | 8.0                               | 70                      |
| 6                         | Stranded                   | 0.7  | -NA-                                  | 1.8                                   | 8.5                               | 75                      |
| 10                        | Solid                      | 0.7  | -NA-                                  | 1.8                                   | 9.0                               | 80                      |
| 10                        | Stranded                   | 0.7  | -NA-                                  | 1.8                                   | 9.5                               | 90                      |
| 16                        | Stranded                   | 0.7  | -NA-                                  | 1.8                                   | 10.0                              | 115                     |
| 25                        | Stranded                   | 0.9  | -NA-                                  | 1.8                                   | 12.0                              | 155                     |
| 35                        | Stranded                   | 0.9  | -NA-                                  | 1.8                                   | 13.0                              | 180                     |
| 50                        | Stranded                   | 1.0  | -NA-                                  | 1.8                                   | 14.0                              | 240                     |
| 70                        | Stranded                   | 1.1  | -NA-                                  | 1.8                                   | 16.0                              | 310                     |
| 95                        | Stranded                   | 1.1  | -NA-                                  | 1.8                                   | 17.5                              | 385                     |
| 120                       | Stranded                   | 1.2  | -NA-                                  | 1.8                                   | 19.0                              | 470                     |
| 150                       | Stranded                   | 1.4  | -NA-                                  | 2.0                                   | 21.5                              | 600                     |
| 185                       | Stranded                   | 1.6  | -NA-                                  | 2.0                                   | 23.5                              | 710                     |
| 240                       | Stranded                   | 1.7  | -NA-                                  | 2.0                                   | 26.0                              | 900                     |
| 300                       | Stranded                   | 1.8  | -NA-                                  | 2.0                                   | 28.5                              | 1075                    |
| 400                       | Stranded                   | 2.0  | -NA-                                  | 2.2                                   | 33.0                              | 1385                    |



Aluminium  
Conductor



## NOTE:

The above data is approximate and subject to manufacturing tolerance.

\*Delivery length tolerance is  $\pm 5\%$ . Length more than normal as per the customer request.

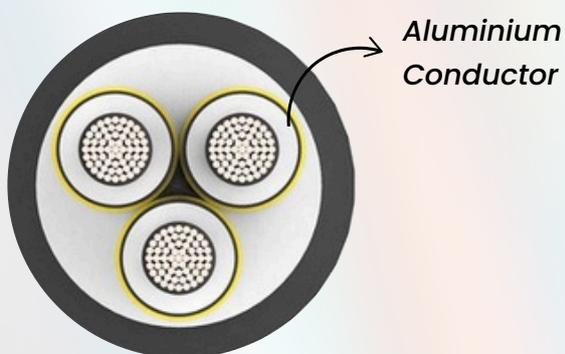
## TWO CORE ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMoured CABLE 1100 VOLT as per IS 7098- 1/1988

| Nominal Size of Conductor<br>(Sq.mm) | Form of Conductor<br>Circular Shaped | Nominal Thickness of XLPE Insulation<br>(mm) | Minimum Thickness of PVC Inner Sheath<br>(mm) | Nominal Thickness of PVC Outer Sheath<br>(mm) | Approx. Overall Diameter of Cable<br>(mm) | Approx. Weight of Cable<br>(Kgs./Km) |
|--------------------------------------|--------------------------------------|--|---|---|---|--------------------------------------|
| 4                                    | Solid                                | 0.7  | 0.3   | 1.8   | 12.5                                      | 140                                  |
| 4                                    | Stranded                             | 0.7  | 0.3   | 1.8   | 13.0                                      | 150                                  |
| 6                                    | Solid                                | 0.7  | 0.3   | 1.8   | 13.5                                      | 170                                  |
| 6                                    | Stranded                             | 0.7  | 0.3   | 1.8   | 14.0                                      | 180                                  |
| 10                                   | Solid                                | 0.7  | 0.3   | 1.8   | 15.0                                      | 205                                  |
| 10                                   | Stranded                             | 0.7  | 0.3   | 1.8   | 16.0                                      | 225                                  |
| 16                                   | Stranded                             | 0.7  | 0.3   | 1.8   | 17.0                                      | 225                                  |
| 25                                   | Stranded                             | 0.9  | 0.3   | 2.0   | 19.0                                      | 330                                  |
| 35                                   | Stranded                             | 0.9  | 0.3   | 2.0   | 21.0                                      | 410                                  |
| 50                                   | Stranded                             | 1.0  | 0.3   | 2.0   | 23.0                                      | 510                                  |
| 70                                   | Stranded                             | 1.1  | 0.3   | 2.0   | 26.5                                      | 675                                  |
| 95                                   | Stranded                             | 1.1  | 0.4   | 2.2   | 28.5                                      | 900                                  |
| 120                                  | Stranded                             | 1.2  | 0.4   | 2.2   | 32.0                                      | 1050                                 |
| 150                                  | Stranded                             | 1.4  | 0.4   | 2.2   |   | 1215                                 |



## THREE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMoured CABLE 1100 VOLT as per 7098- 1/1988

| Nominal Size of Conductor<br>(Sq.mm) | Form of Conductor Circular Shaped | Nominal Thickness of XLPE Insulation (mm) | Minimum Thickness of PVC Inner Sheath (mm) | Nominal Thickness of PVC Outer Sheath (mm) | Approx. Overall Diameter of Cable (mm) | Approx. Weight of Cable (Kgs./Km) |
|--------------------------------------|-----------------------------------|---|--|--|--|-----------------------------------|
| 4                                    | Solid                             | 0.7                                       | 0.3  | 1.8  | 14.0                                   | 140                               |
| 4                                    | Stranded                          | 0.7                                       | 0.3  | 1.8  | 15.5                                   | 160                               |
| 6                                    | Solid                             | 0.7                                       | 0.3  | 1.8  | 16.0                                   | 170                               |
| 6                                    | Stranded                          | 0.7                                       | 0.3  | 1.8  | 17.0                                   | 190                               |
| 10                                   | Solid                             | 0.7                                       | 0.3  | 1.8  | 18.0                                   | 220                               |
| 10                                   | Stranded                          | 0.7                                       | 0.3  | 1.8  | 18.0                                   | 230                               |
| 16                                   | Stranded                          | 0.9                                       | 0.3  | 2.0  | 20.0                                   | 310                               |
| 25                                   | Stranded                          | 0.9                                       | 0.3  | 2.0  | 21.5                                   | 460                               |
| 35                                   | Stranded                          | 1.0                                       | 0.3  | 2.0  | 24.5                                   | 575                               |
| 50                                   | Stranded                          | 1.1                                       | 0.4  | 2.2  | 29.0                                   | 700                               |
| 70                                   | Stranded                          | 1.1                                       | 0.4  | 2.2  | 32.5                                   | 990                               |
| 95                                   | Stranded                          |   |  |  |  | 1250                              |



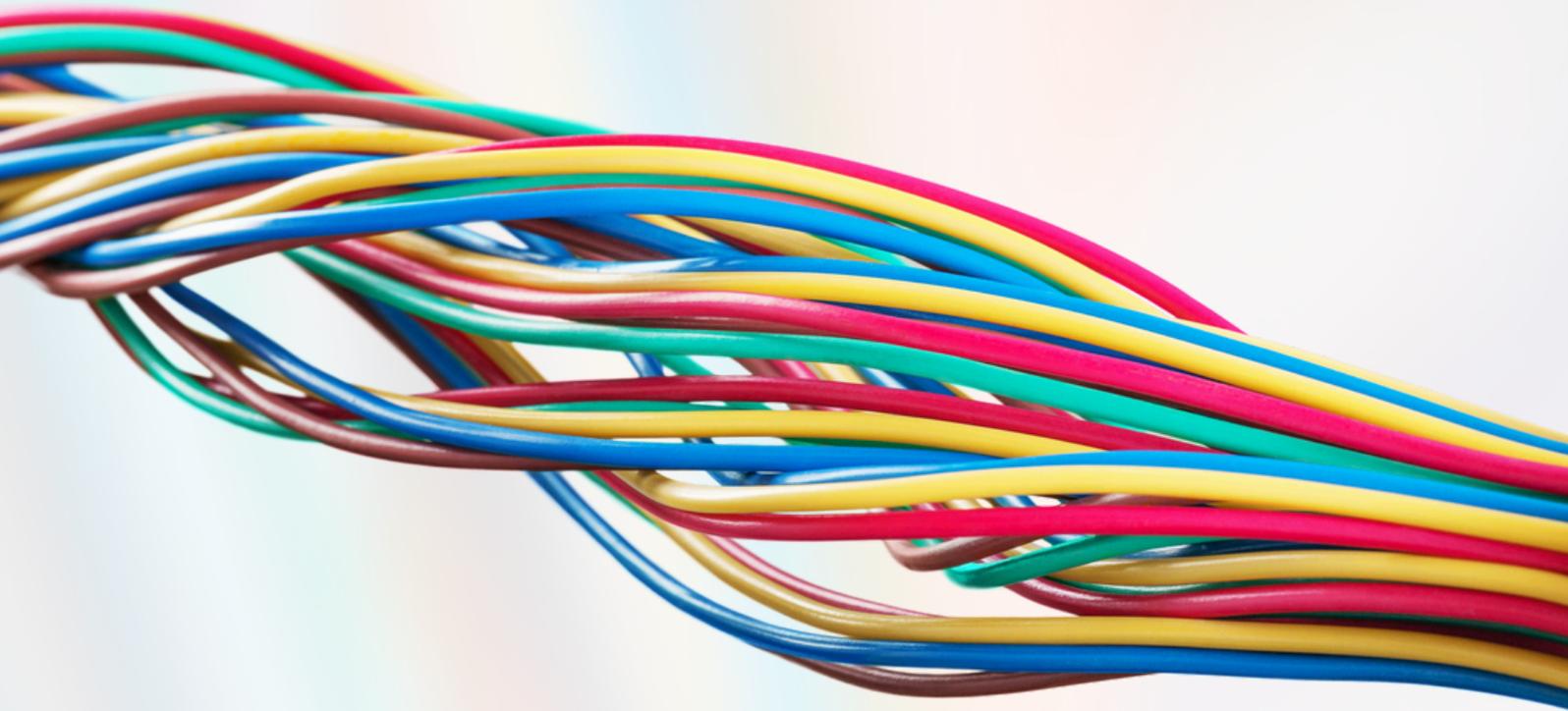
## FOUR CORE ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMoured CABLE 1100 VOLT as per IS 7098- 1/1988

| Nominal Size of Conductor | Form of Conductor Circular Shaped | Nominal Thickness of XLPE Insulation (mm) | Minimum Thickness of PVC Inner Sheath (mm) | Nominal Thickness of PVC Outer Sheath (mm) | Approx. Overall Diameter of Cable (mm) | Approx. Weight of Cable (Kgs./Km) |
|---------------------------|-----------------------------------|---|--|--|--|-----------------------------------|
| (Sq.mm)                   |                                   |   |  |  |  |                                   |
| 4                         | Solid                             | 0.7                                       | 0.3  | 1.8  | 15.0                                   | 160                               |
| 4                         | Stranded                          | 0.7                                       | 0.3  | 1.8  | 16.0                                   | 180                               |
| 6                         | Solid                             | 0.7                                       | 0.3  | 1.8  | 16.5                                   | 200                               |
| 6                         | Stranded                          | 0.7                                       | 0.3  | 1.8  | 17.5                                   | 215                               |
| 10                        | Solid                             | 0.7                                       | 0.3  | 1.8  | 18.0                                   | 250                               |
| 10                        | Stranded                          | 0.7                                       | 0.3  | 1.8  | 18.5                                   | 260                               |
| 16                        | Stranded                          | 0.7                                       | 0.3  | 1.8  | 17.5                                   | 350                               |
| 25                        | Stranded                          | 0.9                                       | 0.3  | 2.0  | 21.0                                   | 550                               |
| 35                        | Stranded                          | 0.9                                       | 0.3  | 2.0  | 23.5                                   | 680                               |
| 50                        | Stranded                          | 1.0                                       | 0.3  | 2.0  | 26.0                                   | 875                               |
| 70                        | Stranded                          | 1.1                                       | 0.4  | 2.2  | 30.5                                   | 1200                              |





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