



# 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.



# 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.



# MULTI CORE FLEXIBLE ROUND CABLES

Engineered for performance and built for durability, Natraj Industries' Multi Core Flexible Round Cables deliver dependable power transmission across demanding applications. Manufactured using high-purity electrolytic copper and premium-grade PVC insulation, these cables offer exceptional flexibility, safety, and long service life.

Designed to perform in both residential and industrial environments, the round cable construction ensures easy routing, superior mechanical strength, and enhanced protection against heat, moisture, and everyday wear. With stringent quality control at every stage, Natraj Industries stands for trust, consistency, and uncompromised electrical safety.

## Premium Advantages

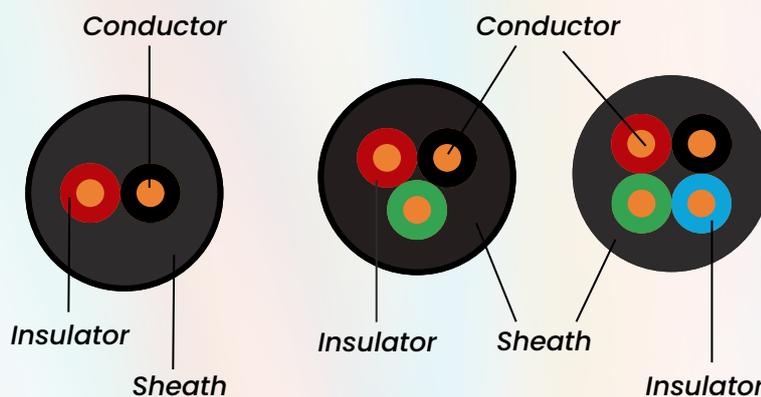
- ⚡ High-Conductivity Copper Conductors
- 🔥 Safe, Stable & Long-Lasting Performance
- 🏠 Versatile Usage
- 📏 Advanced Flexible Construction



# MULTICORE ROUND PVC INSULATED COPPER CONDUCTOR (SHEATHED) FLEXIBLE CABLES, 1100 VOLTS

Natraj Industries specializes in manufacturing and supplying premium-quality multicore flexible cables with copper conductors, designed for a wide range of industrial and domestic applications such as air conditioners, refrigerators, motors, and other electrically operated machines and equipment.

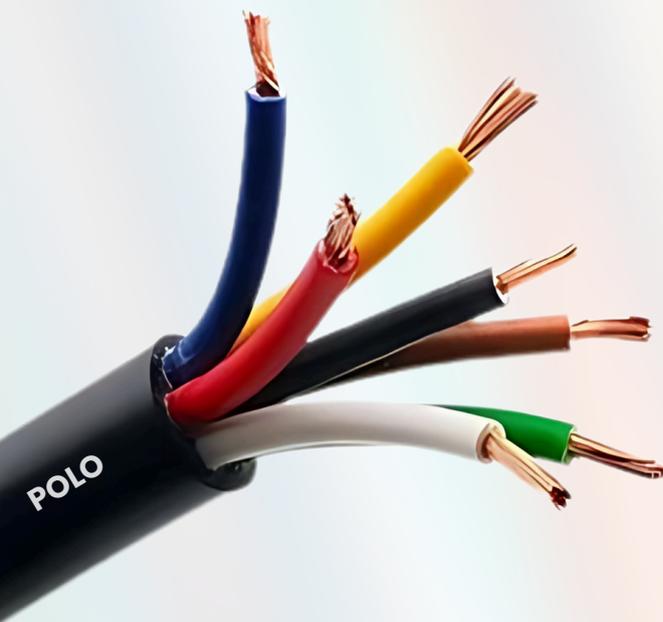
Area in (Sq.mm)	Construction No./Dia (mm)	Cond. Dia. (mm)	Max. DC resist- ance at 20°C ( $\Omega$ /km)	Insulation thickness nominal (mm)	Core dia. (mm)	Sheath thickness in mm nominal			Overall Diameter in mm approx.			Current Rating Amp. A
						2 core (mm)	3 core (mm)	4 core (mm)	2 core (mm)	3 core (mm)	4 core (mm)	
0.50	16/0.2	0.94	39.00	0.60	2.20	0.90	0.90	0.90	6.20	6.60	7.20	4
0.75	24/0.2	1.20	26.00	0.60	2.50	0.90	0.90	0.90	6.80	7.20	7.90	7
1.00	32/0.2	1.34	19.50	0.60	2.60	0.90	0.90	0.90	7.00	7.50	8.10	12
1.50	30/0.25	1.64	13.30	0.60	2.90	0.90	0.90	1.00	7.60	8.10	9.00	16
2.50	50/0.25	2.08	7.98	0.70	3.50	1.00	1.00	1.00	9.00	9.60	10.50	22
4.00	56/0.3	2.61	4.95	0.80	4.30	1.00	1.00	1.00	10.60	11.30	12.40	29



Our cables feature specially formulated Polyvinyl Chloride (PVC) insulation and sheathing, ensuring excellent flexibility and durability. The sheathing material is engineered to resist oil, moisture, and provide superior mechanical strength, all while maintaining flexibility. Additionally, cables can be customized with Fire Retardant (FR) or Fire-Retardant Low Smoke & Halogen (FR-LSH) compounds upon request.

## MULTICORE ROUND FLEXIBLE CABLE

Area in	Construc- tion No./Dia	Cond. Dia.	Max. DC resist- ance at 20°C	Insulation thickness nominal	Core dia.	Sheath thickness in mm nominal			Overall Diameter in mm approx.			Current Rating Amp.
						2 core	3 core	4 core	2 core	3 core	4 core	
(Sq.mm)	(mm)	(mm)	( $\Omega$ /km)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	A
6	84/0.3	3.50	3.30	0.80	5.10	1.15	1.15	1.40	12.60	13.40	15.20	37
10	140/0.3	4.60	1.91	1.00	6.60	1.40	1.40	1.40	16.00	17.00	18.80	51
16	126/0.4	6.00	1.21	1.00	8.00	1.40	1.40	1.40	18.80	20.10	22.20	68
25	196/0.4	7.60	0.780	1.20	10.00	2.00	2.00	2.00	24.00	25.60	28.20	86
35	276/0.4	8.70	0.554	1.20	11.10	2.00	2.00	2.00	26.30	28.00	31.00	110
50	396/0.4	10.60	0.386	1.40	13.40	2.00	2.00	2.00	30.90	33.00	36.50	145
70	360/0.5	12.30	0.272	1.40	15.10	2.00	2.20	2.40	34.20	37.00	41.00	215



## MULTICORE ROUND CONTROL CABLE (6 CORES TO 30 CORES)

Area Sq. mm		0.50	0.75	1.00	1.50	2.50	4.00
General construction no./dia		16/0.2	24/0.2	32/0.2	30/0.25	50/0.25	56/0.3
Conductor Dia. In (mm)		0.94	1.20	1.34	1.64	2.08	2.61
Avg. Insu. Thickness in mm		0.60	0.60	0.60	0.60	0.70	0.80
Core Diameter in mm		2.20	2.50	2.60	2.90	3.50	4.30
No. of cores							
6	Avg. Sheath thickness (mm)	0.90	1.00	1.00	1.00	1.10	1.20
	App. Overall Dia (mm)	8.50	9.50	9.80	10.70	12.70	15.30
7	Avg. Sheath thickness (mm)	0.90	1.00	1.00	1.00	1.10	1.20
	App. Overall Dia (mm)	8.50	9.50	9.80	10.70	12.70	15.30
8	Avg. Sheath thickness (mm)	1.00	1.00	1.00	1.10	1.20	1.30
	App. Overall Dia(mm)	9.30	10.40	10.70	11.90	14.10	16.90
10	Avg. Sheath thickness (mm)	1.00	1.10	1.10	1.10	1.30	1.40
	App. Overall Dia (mm)	10.80	12.20	12.60	13.80	16.60	20.00
12	Avg. Sheath thickness (mm)	1.00	1.10	1.10	1.10	1.30	1.40
	App. Overall Dia (mm)	11.20	12.60	13.00	14.30	17.20	20.70



## MULTICORE ROUND CONTROL CABLE (6 CORES TO 30 CORES)

Area Sq. mm		0.50	0.75	1.00	1.50	2.50	4.00
General construction no./dia		16/0.2	24/0.2	32/0.2	30/0.25	50/0.25	56/0.3
Conductor Dia. In (mm)		0.94	1.20	1.34	1.64	2.08	2.61
Avg. Insu. Thickness in mm		0.60	0.60	0.60	0.60	0.70	0.80
Core Diameter in mm		2.20	2.50	2.60	2.90	3.50	4.30
No. of cores							
14	Avg. Sheath thickness (mm)	1.10	1.10	1.10	1.20	1.30	1.40
	App. Overall Dia (mm)	12.00	13.30	13.70	15.20	18.10	21.80
16	Avg. Sheath thickness (mm)	1.10	1.20	1.20	1.20	1.40	1.50
	App. Overall Dia (mm)	12.60	14.20	14.60	16.00	19.30	23.20
19	Avg. Sheath thickness (mm)	1.10	1.20	1.30	1.30	1.40	1.50
	App. Overall Dia (mm)	13.20	14.90	15.60	17.10	20.30	24.50
24	Avg. Sheath thickness (mm)	1.20	1.30	1.30	1.40	1.40	1.50
	App. Overall Dia (mm)	15.60	17.60	18.20	20.20	23.80	28.80
30	Avg. Sheath thickness (mm)	1.30	1.30	1.30	1.40	1.40	1.50
	App. Overall Dia (mm)	16.80	18.70	19.30	21.50	25.70	30.60
	Max. conductor Resistance in Ohm/km at 20 deg. C	39.00	26.00	19.50	13.30	7.98	4.95
	Recommended Current Rating in AMP	4	7	12	16	22	29

### NOTE:

Available in 100 meter length with black outer sheath & in customize packing on request. Any colour on specific request can be supplied, in economical run.

\* The number and diameter of conductor strands are for reference only. Conductor resistance as per IS 8130 is the governing criteria.

Conductor shall be of Class-V as per IS 8130

Progressive sequential length marking on every meter above 6.00 sq. mm.

\* Available in FR and FR-LSH outer sheathing on Request.

### CORE IDENTIFICATION:

**2 CORE :** Red & Black

**3 CORE :** Red, Black & Yellow-Green

**4 CORE :** Red, Yellow, Blue & Yellow-Green

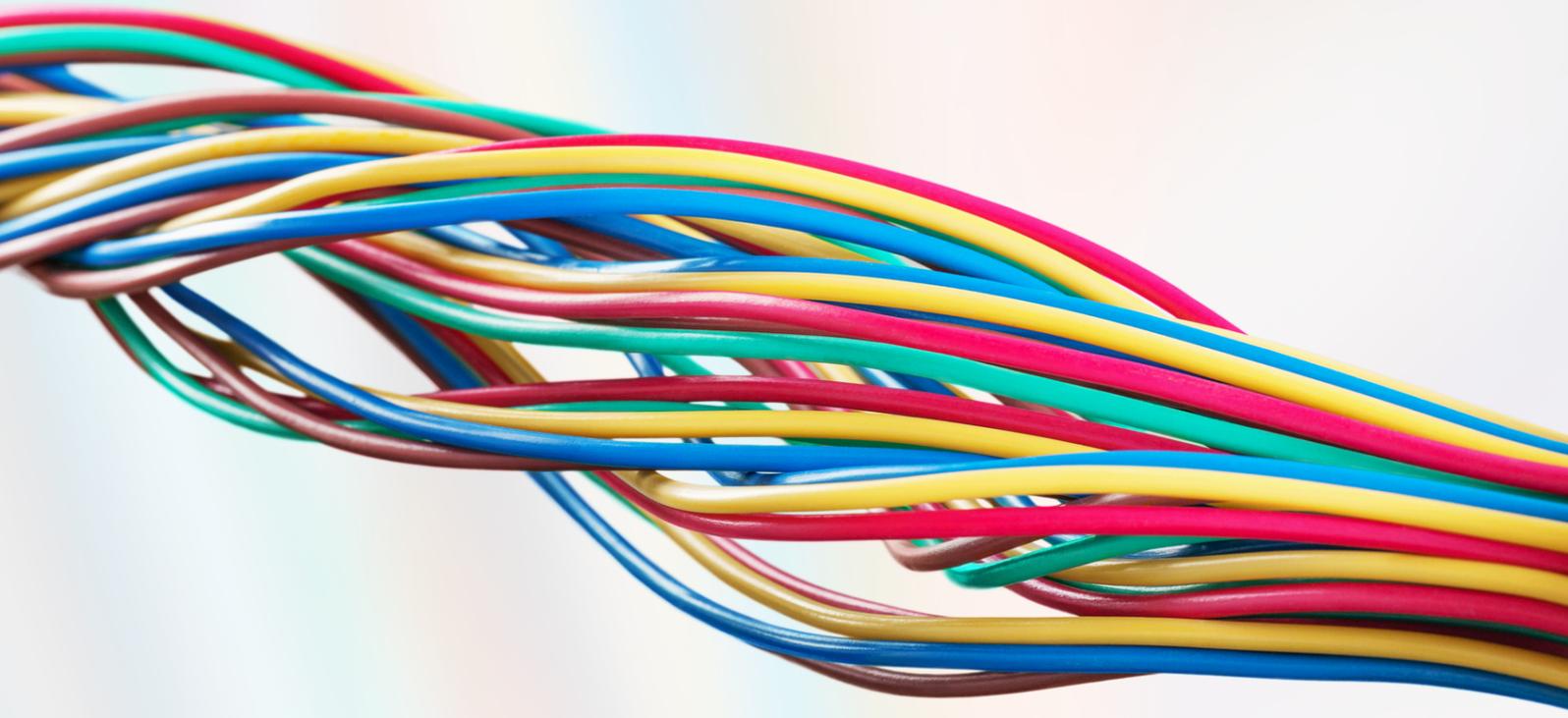
**5 CORE :** Red, Yellow, Blue, Black & Grey

**6 CORE :** Red, Yellow, Blue, Green, White & Yellow-Green

**7 CORE & Above :** Number printing on each core / Colour code as specified in IS:694



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