



**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.



# TELECOMMUNICATION AND NETWORKING CABLES

Natraj Industries offers a reliable range of telecommunication and networking cables engineered for high-speed data transmission, clear signal integrity, and long-term performance. Designed to meet the demands of modern communication infrastructure, our cables are suitable for telephone networks, LAN and Ethernet systems, data centers, CCTV installations, and industrial networking applications. Manufactured using high-quality conductors, superior insulation, and robust outer sheathing, Natraj Industries' cables ensure low signal loss, resistance to interference, and consistent performance, making them a dependable choice for residential, commercial, and industrial connectivity solutions.



# Co-Axial Cables

## Applications:

Used in cable TV operations, Computer net-working etc.

## Construction:

Solid annealed bare copper conductor polyethylene insulated shielded with polyester backed aluminium tape and additional shielding with fine aluminium braid protected with polyester tape wrapping and sheathed with PVC.



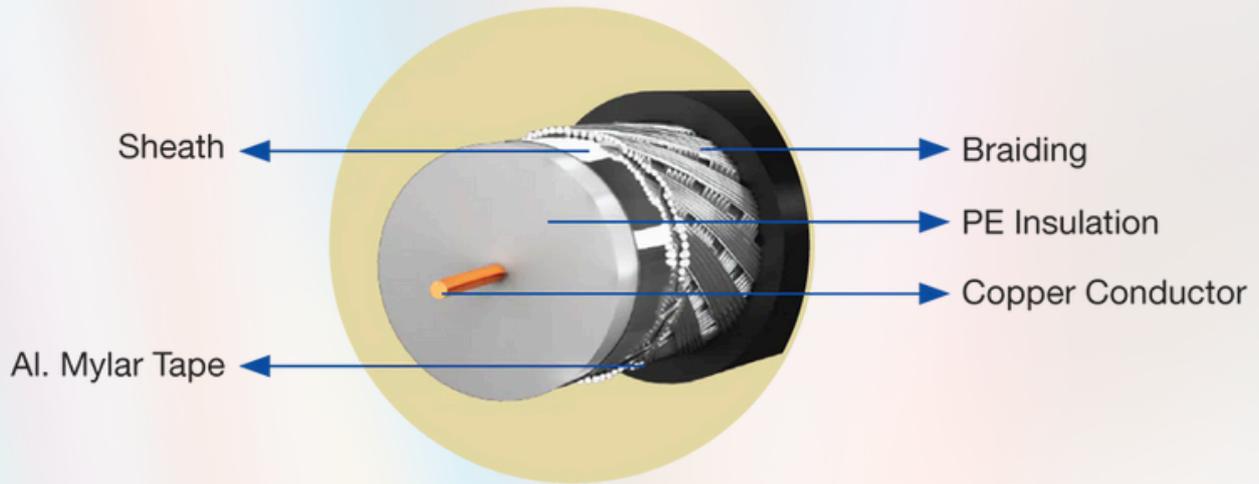
## Technical Data

S.No	Type	Properties
1	Size	RG-11, RG-59, RG-6
2	Inner Conductor	Solid Copper/CCS
3	Insulation	Gas Injected Physical Foamed Polyethylene
4	Outer Conductor Outer Jacket	Bonded polyaluminium Tape, Braided with Aluminium Alloy Wire
5	Marking	UV Resistant Black PVC Jacket
6		Progressive Sequential Length Marking on Every Metre

## Electrical Parameters

S.No	Type	RG- 11 Foam	RG-59 Foam	RG-6 Foam
1	Inner Conductor			
	Max. Resistance $\Omega$ /km (Ohm per kilometers) @ 20 °C	0.84 $\Omega$ /km	3.55 $\Omega$ /km	2.13 $\Omega$ /km
2	Inner Conductor			
	Loop Resistance $\Omega$ /km (Ohm per kilometers) @ 20 °C	1.66 $\Omega$ /km	4.64 $\Omega$ /km	2.78 $\Omega$ /km
3	Nominal Capacitance (pF/m)	53 pF/m	53 pF/m	53 pF/m
4	Nominal Impedance $\Omega$ (Ohm)	75 $\Omega$	75 $\Omega$	75 $\Omega$
5	Nominal Velocity Ratio (%)	85%	85%	85%
6	Nominal Attenuation @ 25 °C (dB/100 m)			
	@55 MHz			
	@83 MHz	2.82 dB	6.73 dB	1.95 dB
	@187 MHz	3.87 dB	8.04 dB	6.20 dB
	@211 MHz	5.74 dB	11.81 dB	9.15 dB
	@250 MHz	6.23 dB	12.47 dB	9.50 dB
	@300 MHz	6.72 dB	13.45 dB	10.50 dB
	@350 MHz	7.38 dB	14.60 dB	11.50 dB
	@400 MHz	7.94 dB	15.71 dB	12.45 dB
	@450 MHz	8.53 dB	16.73 dB	13.30 dB
	@500 MHz	9.02 dB	17.72 dB	14.35 dB
	@550 MHz	9.51 dB	18.70 dB	14.95 dB
	Structural Return Loss (dB/100 m)	9.92 dB	19.52 dB	15.70 dB
7	From 30 MHz to 300 MHz			
	From 300 MHz to 550 MHz	>26 dB	>30 dB	>28 dB
	Bending Radius, min (mm)	>24 dB	>24 dB	>22 dB
		75 mm	65 mm	65 mm

**Note:** RG 6 also available in CCS



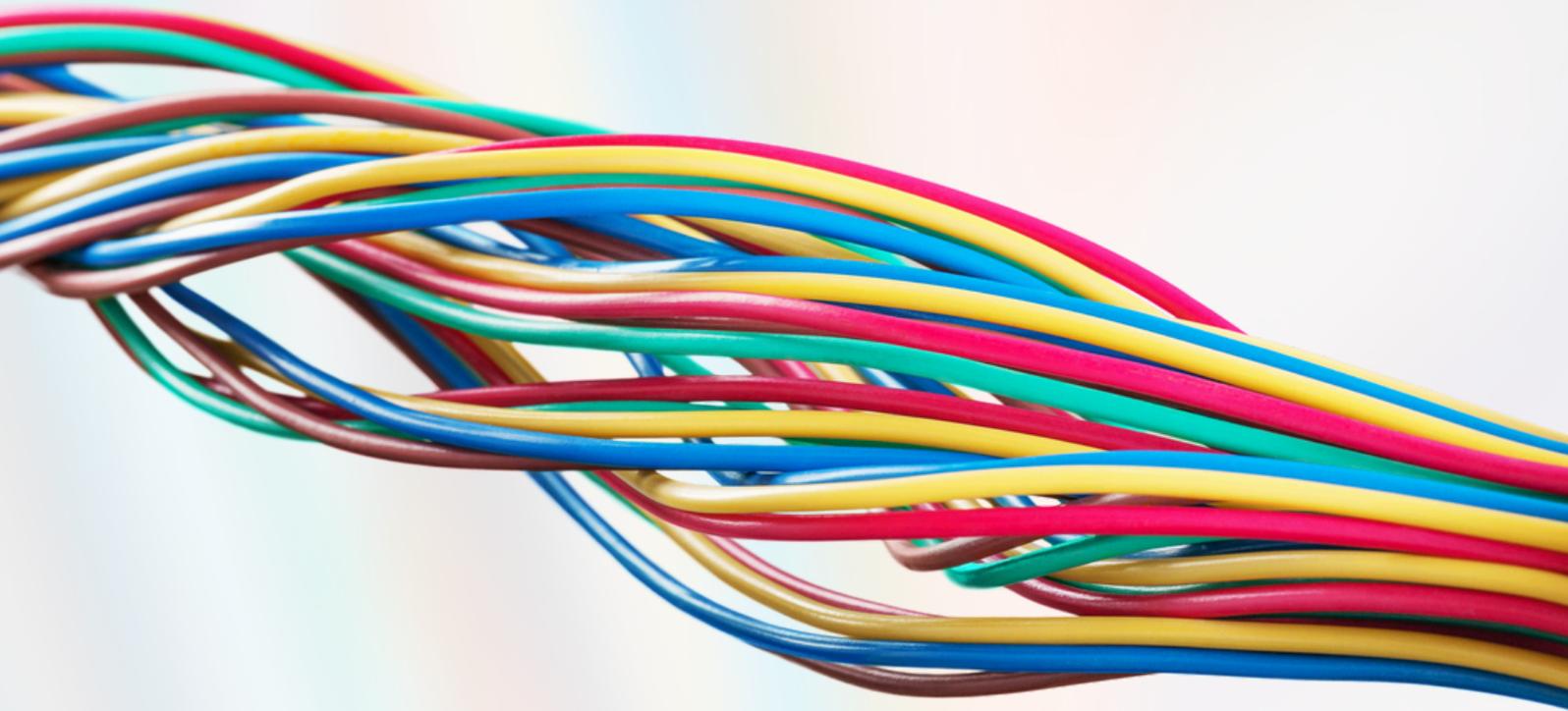
## CONSTRUCTION PARAMETERS

Type Foam	RG-11 Foam	RG-59 Foam	RG-6 Foam	RG 6 CCS Foam
Inner Conductor	Solid Bare Copper	Solid Bare Copper	Solid Bare Copper	Copper Coated Steel
Nominal Diameter (mm)	1.63 mm ± 0.03 mm	0.80 mm ± 0.03 mm	1.02 mm ± 0.03 mm	1.02 mm ± 0.03 mm Foam PE
Dielectric	Foam PE	Foam PE	Foam PE	
Nominal Diameter (mm) Outer Conductor - First	7.11 mm	3.55 mm	4.57 mm	4.57 mm
Outer Conductor - Second	Bonded AL Tape	Bonded AL Tape	Bonded AL Tape	Bonded AL Tape
Nominal Coverage (%)	AL Braid	AL Braid	AL Braid	AL Braid
Jacket	60%	60%	60%	60%
Nominal Diameter (mm)	PVC (Black)	PVC (Black)	PVC (Black)	PVC (Black)
	10.00 mm ± 0.20 mm	6.00 mm ± 0.10 mm	6.5 mm ± 0.10 mm	6.5 mm ± 0.10 mm

**Note:** Supplied in 90 m & 305 m project packaging.



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