



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.



SPEAKER CABLES

NATRAJ INDUSTRIES brand **“POLO Twin Parallel Speaker Cables”** are engineered using multi-strand, bright annealed, flexible bare electrolytic grade copper conductors. These are insulated with a specially formulated, transparent PVC compound that ensures superior flexibility, making installation easy—especially when pulling through conduits—without risk of damage.

For quick and convenient identification, one core is marked with a continuous red stripe along its length. The spacing between the two conductors is maintained uniformly to ensure consistent capacitance throughout the cable, minimizing signal distortion.

With their transparent insulation, the cables also offer an aesthetically pleasing appearance. These speaker cables are ideal for connecting audio systems, particularly in public address installations within large residential complexes, in line with modern Building Codes. They deliver crystal-clear sound quality with minimal dB loss.

Available in conductor sizes of 20, 19, 18, 16, 14, and 13 AWG, these cables come in 90-meter coil packs.



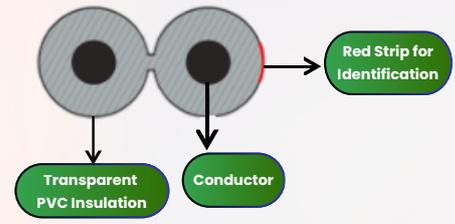
SPEAKER CABLES

Technical Details

Conductor			Approximate Overall Dimensions (mm)			
Size AWG	Nominal Area of Cond. (sq.mm)	Max. Conductor Resistance ohms/km 20°C	Max Width (mm)	Max Height (mm)	Thickness (mm)	Web Dims. W x H
20	0.5	39.0	4.45	2.00	0.6	0.5 x 0.4
19	0.75	26.00	5.45	2.50	0.6	0.5 x 0.4
18	1.0	21.4	6.05	2.80	0.7	0.5 x 0.4
16	1.5	13.3	6.25	2.90	0.7	0.5 x 0.4
14	2.0	9.00	7.00	3.30	0.75	0.5 x 0.4
13	2.5	7.98	7.4	3.45	0.75	0.5 x 0.4

CABLE SPEAKER SELECTION CHART

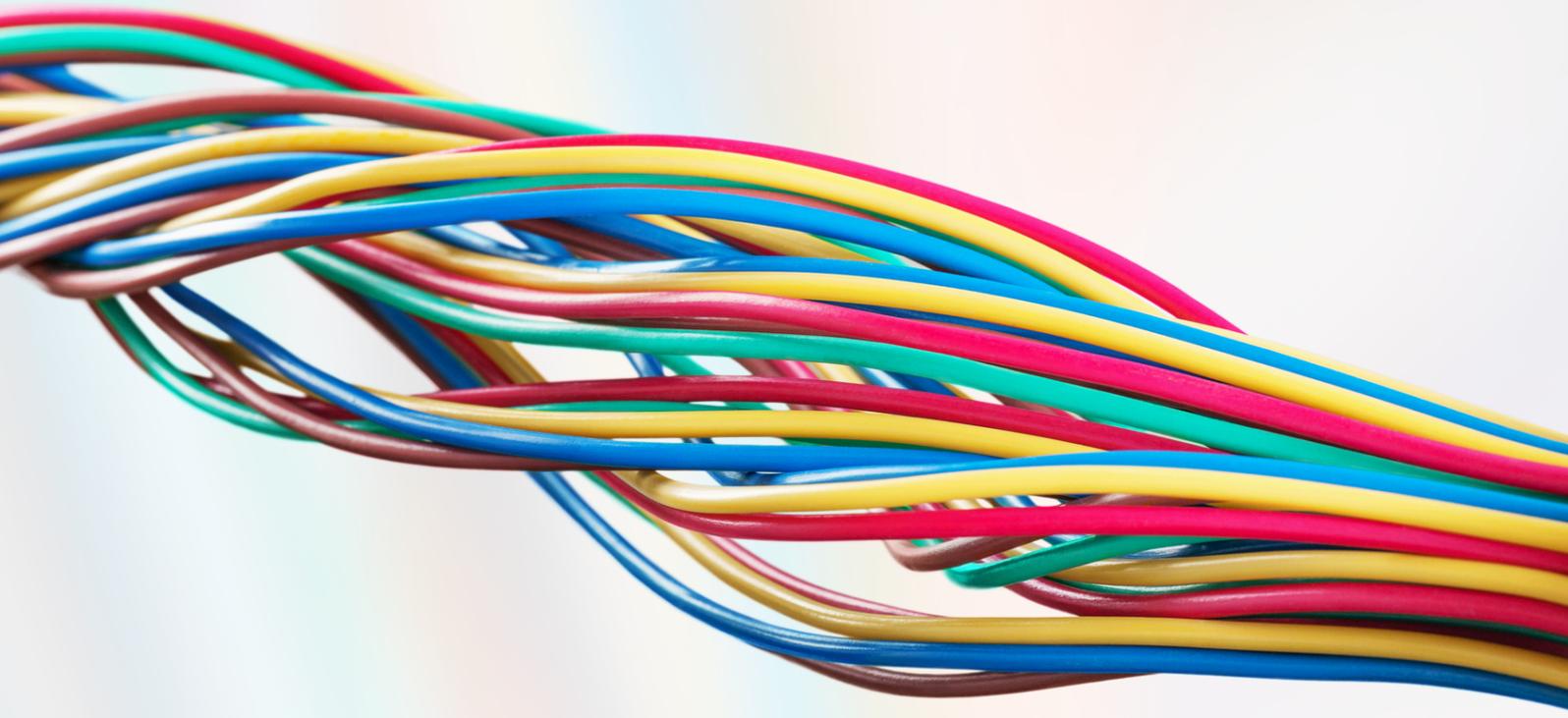
	4 Ohm Speaker			8 Ohm Speaker		
	Power loss in %	11	21	50	11	21
loss in db	0.5	1.0	3.0	0.5	1.0	3.0
Max. Distance in Mtrs.						
20 AWG	8	16	60	16	32	119
19 AWG	10	21	85	21	65	170
18 AWG	12	27	103	26	58	208
16 AWG	18	38	143	35	76	285
14 AWG	27	59	226	56	120	451
13 AWG	34	74	282	71	151	564



Note: We can use this table for the selection of the cable. An example is shown below: For 14 AWG cable in 8 Ohm speaker system with power loss of 21% (1.0db) maximum length will be 120 mtrs.



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