

RRB ALP Technical Notes for Stage 2 CBT - Resistance Study Material as PDF!

The Railways RRB Computer-based Test for Assistant Loco Pilot & Technicians just took place. Now the next stage, i.e. the RRB ALP Stage 2, Technical Paper will soon be conducted. In this article, you will find RRB ALP Technical Notes for Wireman & Electrician. Find study material on Resistance as notes for RRB ALP Technical Exam. If you are wondering what Resistance is & what a Resistor is then, A resistor is a passive element. It is represented by 'R' and it is measured in ohms (Ω). Resistors are used to reduce current flow. Read more on the same, in the provided article & you can also download the PDF!

RRB ALP Technical Notes - Resistivity and Conductivity

The electrical resistance of a wire would be expected to be greater for a longer wire, less for a wire of larger cross-sectional area, and would be expected to depend upon the material out of which the wire is made. Experimentally, the dependence upon these properties is a straightforward one for a wide range of conditions, and the resistance of a wire can be expressed as

RRB ALP Technical Notes - Types of Resistor

- Carbon Composition Resistor – Made of carbon dust or graphite paste, low wattage values
- Film or Cermet Resistor – Made from conductive metal oxide paste, very low wattage values





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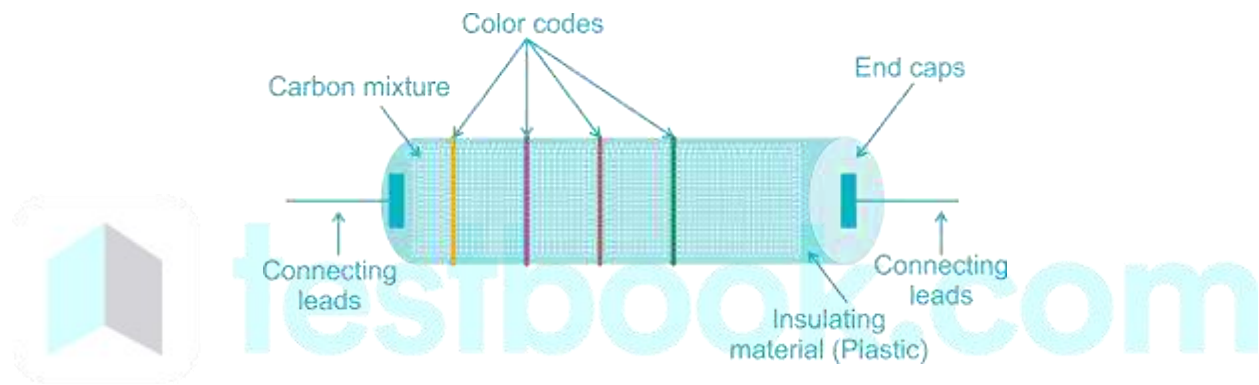
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- Wire-wound Resistor – Metallic bodies for heat sink mounting, very high wattage ratings
- Semiconductor Resistor – High frequency/precision surface-mount thin film technology

Carbon resistors are made in both composition and film type.

Carbon Composition Resistor –

- Made of carbon dust or graphite paste
- low to medium type power resistor
- suffer from noise and stability when hot



RRB ALP Technical Notes - Film Type Carbon Resistors

- It is made by placing the carbon film or carbon layer on a ceramic substrate
- It has much better temperature stability
- lower noise and are generally better for high frequency or radio frequency applications
- Carbon film resistors have high negative temperature coefficient of resistance



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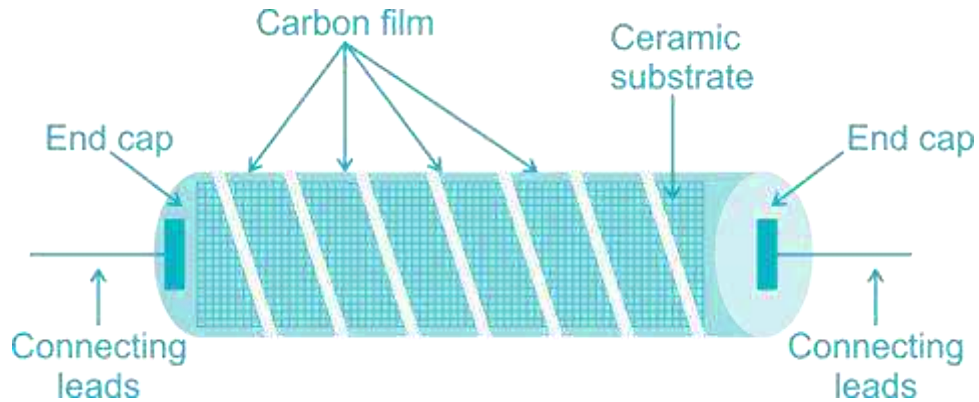
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RRB ALP Technical Notes - Standard Resistor Values and Color

Components and wires are coded with colours to identify their value and function.

Color	Digit	Multiplier	Tolerance (%)
Black	0	$10^0(1)$	
Brown	1	10^1	1
Red	3	10^2	2
Orange	3	10^3	
Yellow	4	10^4	
Green	6	10^5	0.5
Blue	7	10^6	0.25
Violet	8	10^7	0.1
Grey	9	10^8	
White		10^9	
Gold		10^{-1}	5
Silver		10^{-2}	10
(none)			20





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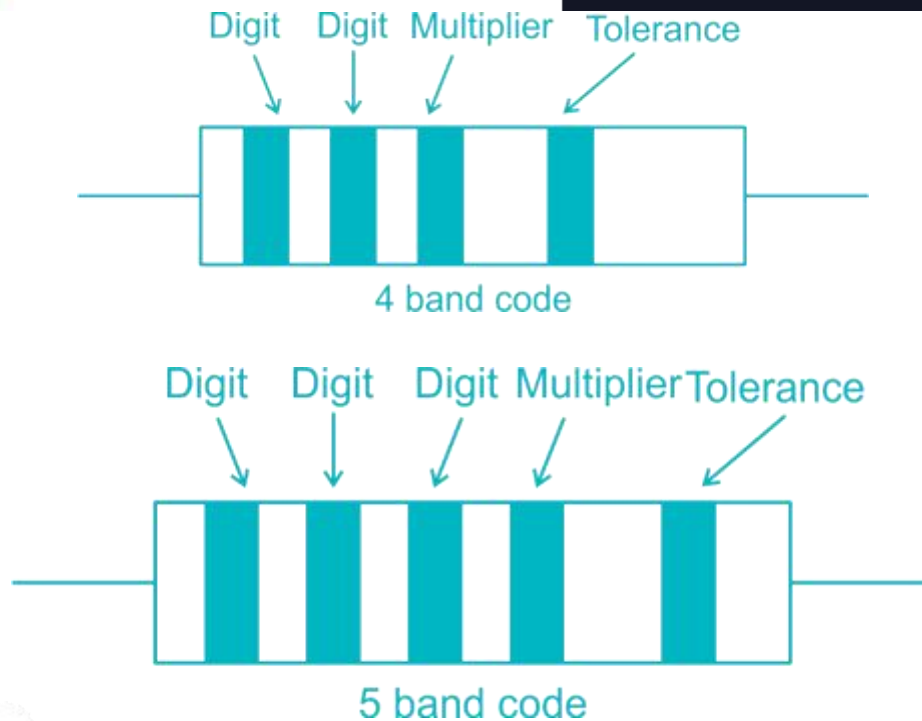
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So these were some important RRB ALP Technical Notes on Resistance for Electrician & Wiremen. You can know more about RRB ALP Recruitment by clicking on the links given below!

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[Detailed Syllabus for RRB ALP Computer-Based Test](#)

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