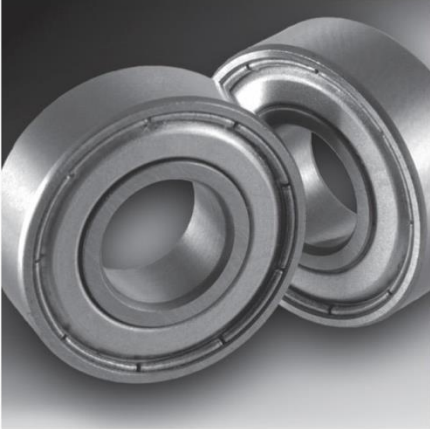
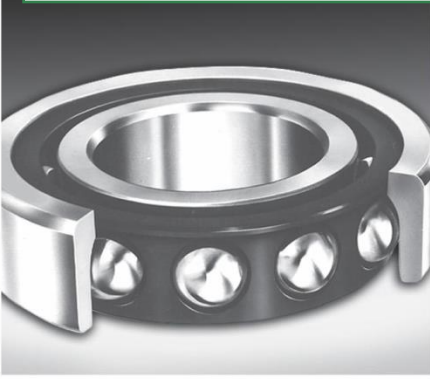


**AMERICAN NATIONAL STANDARD**

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## **Needle Roller Bearings Radial - Metric Design**

**Secretariat**

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Manufacturers Association**

**ANSI/ABMA 18.1: 1982**

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\*This standard contains only Metric Design Products. Inch Design Products will be found in Standard 18.2 (AFBMA Standard 18.2)

This is a preview of "ANSI/ABMA 18.1-1982 ...". [Click here to purchase the full version from the ANSI store.](#)

# Needle Roller Bearing Radial, Metric Design

## 1. SCOPE

This standard for Metric Design Industrial Radial Needle Roller Bearings and components includes:

- Identification Code
- Boundary Dimensions
- Bearing Tolerances
- Fitting and Mounting Practice

Airframe Needle Roller Bearings, Needle Roller Thrust Bearings, and bearings of other types are covered in separate AFBMA-ANSI Standards.

## 2. IDENTIFICATION CODE

**2.1 General.** This code identifies and, as far as possible, describes each needle roller bearing or component on the basis of complete dimensional and functional interchangeability. This code establishes a universal language for describing and identifying bearings and components in order to facilitate communications between the user and the manufacturer. The code is also intended to simplify the handling by user personnel of identical bearings made by different manufacturers, whose identification numbers may be different and difficult to interpret.

This code applies only to those radial needle roller bearings or components whose boundary dimensions and tolerances conform to this standard.

**2.2 Structure of Code.** As shown in the following table, Schematic Arrangement of a Complete Code Number, the code consists of three sections.

Section 1, called the Basic Number, includes a diameter symbol made up of a group of numerals, followed by a type symbol made up of a group of letters and finally by a dimension series symbol made up of a group of numerals. This Basic Number must always be used.

Sections 2 and 3 delineate modification of design and lubricants and, if required to complete the identification, consist of additional letters.

In the Schematic Arrangement Tables, "O" represents any code numeral and "A" represents any code letter.

### SCHEMATIC ARRANGEMENT OF A COMPLETE CODE NUMBER

Section 1, Basic Number			Section 2	Section 3
Diameter	Type	Dimension Series	Cage Material Or Integral Seals Or Crowned Outside Surface	Lubricant Or Preservative
000	AAAA	00	AAA	A