



# NNF 5018 ADA-2LSV Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

## Overview

### Dimensions

Bore diameter	90 mm
Outside diameter	140 mm
Width	67 mm

### Performance

Basic dynamic load rating	319 kN
Basic static load rating	550 kN
Limiting speed	900 r/min

### Properties

Bearing part	Complete bearing
Axial displacement capability	None
Number of rows	2
Locating feature, bearing outer ring	Snap ring groove
Bore type	Cylindrical
Cage	Without
Number of flanges, outer ring	1
Number of flanges, inner ring	2
Loose flange	None

Radial internal clearance	CN
Tolerance class	Normal
Coating	Without
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	With

## Technical Specification

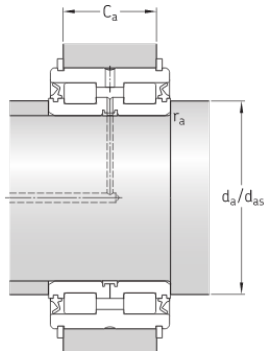


### Dimensions

d	90 mm	Bore diameter
D	140 mm	Outside diameter
B	67 mm	Width
C	66 mm	Outer ring width (sealed bearing)
$d_1$	$\approx$ 109.5 mm	Shoulder diameter inner ring
$D_3$	137 mm	Snap ring groove diameter at outer ring
E	127.5 mm	Raceway diameter outer ring
$C_1$	59.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance $C_1$
$C_2$	3.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	4.2 mm	Width snap ring groove outer ring
$b_1$	6 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
r	min. 1.5 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

### Abutment dimensions

$d_a$	min. 96 mm	Abutment diameter shaft
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$d_{as}$	106 mm	Abutment diameter shaft
$C_{a1}$	54 mm	Abutment width applying for SW snap rings (sealed brg.)
	- 0.2 mm	Tolerance for abutment $C_a$
$C_{a2}$	51 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	- 0.2 mm	Tolerance for abutment $C_a$
$r_a$	max. 1 mm	Fillet radius

## Calculation data

Basic dynamic load rating	C	319 kN
Basic static load rating	$C_0$	550 kN
Fatigue load limit	$P_u$	69.5 kN
Limiting speed		900 r/min
Minimum load factor	$k_f$	0.4

## Mass

Mass bearing	3.71 kg
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## Associated products

Snap ring Seeger	SW 140
Snap ring in accordance with DIN 471	140x4

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