

# NTN CRI-1959LL tapered roller bearings

With over 10170 full-service stores, our NTN CRI-1959LL tapered roller bearings inventory is extensive and our parts are priced right. within 24 hours. This helps you maximize 55 Bore Diameter (mm) your productivity by saving time and your 55x90x18 Size (mm) hard-earned dollars.

Size (mm)	55x90x18
Bore Diameter (mm)	55
Outer Diameter (mm)	90
Width (mm)	18
d	55 mm
D	90 mm
B	18 mm
d1	65.8 mm
d2	65.8 mm
D1	79.2 mm
K	0.5 mm
C1	4.88 mm
r1,2 – min.	1.1 mm
r3,4 – min.	0.6 mm
a	26 mm
da – min.	61 mm
db – min.	61 mm
Da – max.	84 mm
Db – max.	86.8 mm
ra – max.	1 mm

rb – max.	0.6 mm
dn	68.1 mm
Basic dynamic load rating – C	37.1 kN
Basic static load rating – C0	31 kN
Fatigue load limit – Pu	1.3 kN
Limiting speed for grease lubrication	14000 r/min
Limiting speed for oil lubrication	22000 mm/min
Ball – Dw	11.112 mm
Ball – z	18
Gref	5.1 cm <sup>3</sup>
Calculation factor – e	0.68
Calculation factor – Y2	1.41
Calculation factor – Y0	0.76
Calculation factor – X2	0.67
Calculation factor – Y1	0.92
Preload class A – GA	230 N
Preload class B – GB	460 N
Preload class C – GC	920 N
Preload class D – GD	1840 N
Calculation factor – f	1.1
Calculation factor – f1	0.99
Calculation factor – f2A	1
Calculation factor – f2B	1.02
Calculation factor – f2C	1.05
Calculation factor – f2D	1.08
Calculation factor – fHC	1
Preload class A	159 N/micron
Preload class B	207 N/micron
Preload class C	275 N/micron

Preload class D	372 N/micron
r <sub>1,2</sub> min.	1.1 mm
r <sub>3,4</sub> min.	0.6 mm
d <sub>a</sub> min.	61 mm
d <sub>b</sub> min.	61 mm
D <sub>a</sub> max.	84 mm
D <sub>b</sub> max.	86.8 mm
r <sub>a</sub> max.	1 mm
r <sub>b</sub> max.	0.6 mm
Basic dynamic load rating C	37.1 kN
Basic static load rating C <sub>0</sub>	31 kN
Fatigue load limit P <sub>u</sub>	1.32 kN
Attainable speed for grease lubrication	14000 r/min
Attainable speed for oil-air lubrication	22000 r/min
Ball diameter D <sub>w</sub>	11.112 mm
Number of balls z	18
Reference grease quantity G <sub>ref</sub>	5.1 cm <sup>3</sup>
Preload class A G <sub>A</sub>	230 N
Static axial stiffness, preload class A	159 N/μm
Preload class B G <sub>B</sub>	460 N
Static axial stiffness, preload class B	207 N/μm
Preload class C G <sub>C</sub>	920 N
Static axial stiffness, preload class C	275 N/μm
Preload class D G <sub>D</sub>	1840 N
Static axial stiffness, preload class D	372 N/μm
Calculation factor f	1.1
Calculation factor f <sub>1</sub>	0.99
Calculation factor f <sub>2A</sub>	1
Calculation factor f <sub>2B</sub>	1.02

Calculation factor f2C	1.05
Calculation factor f2D	1.08
Calculation factor fHC	1
Calculation factor e	0.68
Calculation factor (single, tandem) Y2	0.87
Calculation factor (single, tandem) Y0	0.38
Calculation factor (single, tandem) X2	0.41
Calculation factor (back-to-back, face-to-face) Y1	0.92
Calculation factor (back-to-back, face-to-face) Y2	1.41
Calculation factor (back-to-back, face-to-face) Y0	0.76
Calculation factor (back-to-back, face-to-face) X2	0.67
Mass bearing	0.38 kg