

ZKLN1545-2Z-XL

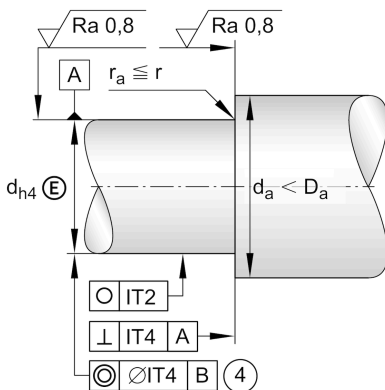
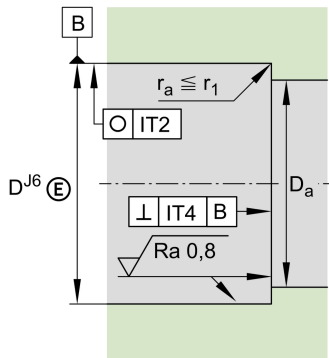
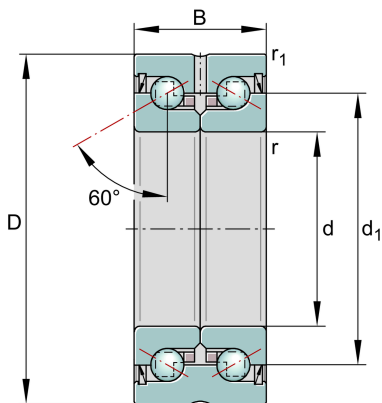
Axial angular contact ball bearing

Schaeffler ID:
0017778580000

Axial angular contact ball bearings
ZKLN..-2Z, double direction, gap seals on
both sides

X-life

Technical information



Main Dimensions & Performance Data

d	15 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0.005 mm	Bore diameter lower tolerance
D	45 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0.01 mm	Outside diameter lower tolerance
B	25 mm	Width
	0 mm	Width upper tolerance
	-0.25 mm	Width lower tolerance
C_a	19,800 N	Basic dynamic load rating, axial
C_{0a}	28,500 N	Basic static load rating, axial
C_{ua}	1,730 N	Fatigue load limit, axial
$n_{G \text{ Grease}}$	10,800 1/min	Limiting speed for grease lubrication
n_g	7,000 1/min	Thermally safe operating speed
M_R	0.1 Nm	Bearing frictional torque
$\approx m$	0.219 kg	Weight

Mounting dimensions

$D_{a \text{ max}}$	35 mm	Maximum diameter of housing
$d_{a \text{ min}}$	20 mm	Minimum diameter shaft

Dimensions

d_1	28 mm	Rib diameter inner ring
r_{min}	0.3 mm	Minimum chamfer dimension
$r_{1 \text{ min}}$	0.6 mm	Minimum chamfer dimension
α	60 °	Contact angle

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	120 °C	Operating temperature max.

Additional information

c_{aL}	400 N/ μm	Rigidity axial
c_{kL}	65 Nm/mrad	Tilting rigidity
M_m	0.102 kg*cm ²	Mass moment of inertia
	2 μm	Axial runout
	ZM15	Recommended INA precision locknut for radial locking
	AM15	Recommended INA precision locknut for axial locking
M_A	10 Nm	Tightening torque for the recommended INA precision locknut
	5,484 N	Required locknut force axial