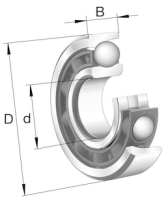
SCHAEFFLER



FAG

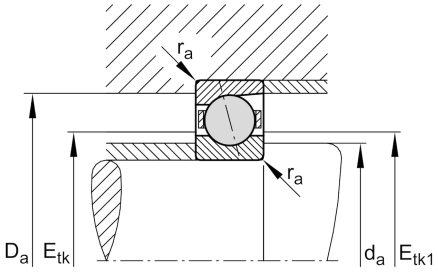
HCB7012-C-T-P4S-UL

Spindle bearing

Schaeffler ID:
0388703800000

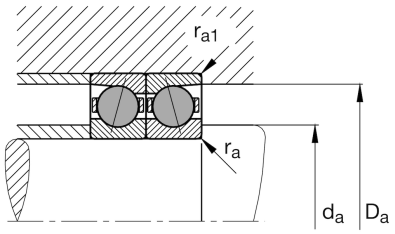
Spindle bearings HCB70..-C, adjusted, in pairs or sets, contact angle α = 15°, with ceramic balls, restricted tolerances

Technical information



Main Dimensions & Performance Data

d	60 mm	Bore diameter
D	95 mm	Outside diameter
B	18 mm	Width
C_r	40.000 N	Basic dynamic load rating, radial
C_{0r}	22.700 N	Basic static load rating, radial
C_{ur}	1.830 N	Fatigue load limit, radial
$n_{G\ Grease}$	20.000 1/min	Limiting speed for grease lubrication
$n_{G\ Oil}$	32.000 1/min	Limiting speed for oil lubrication
	0,335 kg	Weight

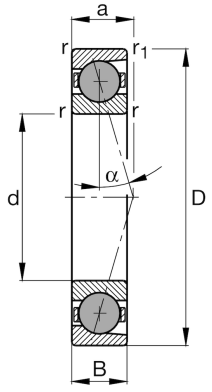


Dimensions

r_{min}	1,1 mm	Minimum chamfer dimension
$r_{1\ min}$	1,1 mm	Minimum chamfer dimension
α	15 °	Contact angle

Mounting dimensions

d_a	67 mm	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	88 mm	Shoulder diameter outer ring
D_a	H12	Shoulder diameter outer ring clearance
$r_{a\ max}$	1 mm	Maximum recess radius
$r_{a1\ max}$	0,6 mm	Maximum recess radius
$E_{tk\ min}$	70,9 mm	Minimum diameter injection pitch
$E_{tk\ max}$	74,5 mm	Maximum diameter injection pitch
$E_{tk1\ min}$	70,9 mm	Minimum diameter injection pitch
$E_{tk1\ max}$	74,5 mm	Maximum diameter injection pitch
a	19,4 mm	Distance between the apexes of the pressure cones



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Additional information

$F_{V\,L}$	106 N	Preload force light
$F_{V\,M}$	379 N	Preload force medium
$F_{V\,H}$	794 N	Preload force heavy
$K_{aE\,L}$	315 N	Lift-off force light
$K_{aE\,M}$	1.198 N	Lift-off force medium
$K_{aE\,H}$	2.651 N	Lift-off force heavy
$c_{a\,L}$	54,4 N/µm	Axial rigidity light
$c_{a\,M}$	92,2 N/µm	Axial rigidity medium
$c_{a\,H}$	130 N/µm	Axial rigidity heavy