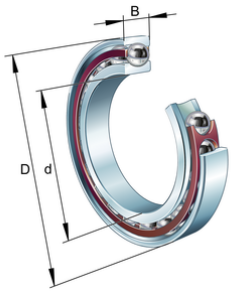
SCHAEFFLER



FAG

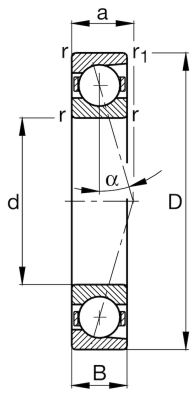
B7010-C-T-P4S-UL

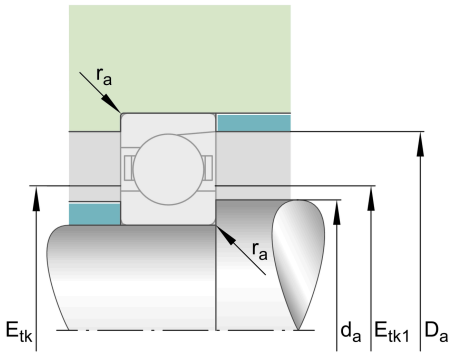
Spindle bearing

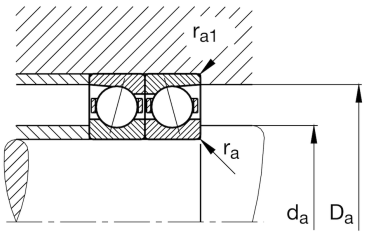
Schaeffler ID:
0190035600000

Spindle bearings B70..-C, adjusted, in pairs or sets, contact angle α = 15°, restricted tolerances

Technical information







Main Dimensions & Performance Data

d	50 mm	Bore diameter
D	80 mm	Outside diameter
B	16 mm	Width
C_r	29.000 N	Basic dynamic load rating, radial
C_{0r}	16.100 N	Basic static load rating, radial
C_{ur}	1.710 N	Fatigue load limit, radial
$n_{G\ Grease}$	18.000 1/min	Limiting speed for grease lubrication
$n_{G\ Oil}$	28.000 1/min	Limiting speed for oil lubrication
	250,25 g	Weight

Dimensions

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

Mounting dimensions

d_a	56 mm	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	74 mm	Shoulder diameter outer ring
D_a	H12	Shoulder diameter outer ring clearance
$r_{a\ max}$	1 mm	Maximum recess radius
$r_{a1\ max}$	0,3 mm	Maximum recess radius
$E_{tk\ min}$	59,3 mm	Minimum diameter injection pitch
$E_{tk\ max}$	62,3 mm	Maximum diameter injection pitch
$E_{tk1\ min}$	59,3 mm	Minimum diameter injection pitch
$E_{tk1\ max}$	62,3 mm	Maximum diameter injection pitch
a	16,7 mm	Distance between the apexes of the pressure cones

Additional information

$F_{V\,L}$	148 N	Preload force light
$F_{V\,M}$	493 N	Preload force medium
$F_{V\,H}$	994 N	Preload force heavy
$K_{aE\,L}$	459 N	Lift-off force light
$K_{aE\,M}$	1.659 N	Lift-off force medium
$K_{aE\,H}$	3.579 N	Lift-off force heavy
$c_{a\,L}$	52,3 N/µm	Axial rigidity light
$c_{a\,M}$	90,5 N/µm	Axial rigidity medium
$c_{a\,H}$	130 N/µm	Axial rigidity heavy

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	100 °C	Operating temperature max.