

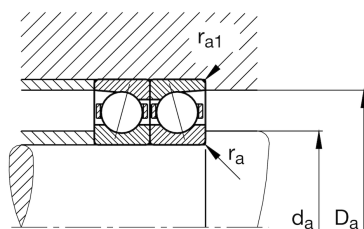
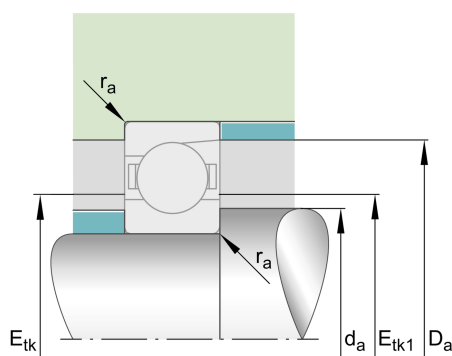
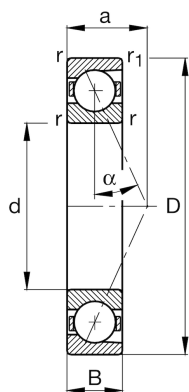
FAG

**B7004-E-T-P4S-UL**

Spindle bearing

Schaeffler ID:  
0191500910000Spindle bearings B70...-E, adjusted, in pairs or sets, contact angle  $\alpha = 25^\circ$ , restricted tolerances

## Technical information

**Main Dimensions & Performance Data**

d	20 mm	Bore diameter
D	42 mm	Outside diameter
B	12 mm	Width
$C_r$	9.800 N	Basic dynamic load rating, radial
$C_{0r}$	4.050 N	Basic static load rating, radial
$C_{ur}$	430 N	Fatigue load limit, radial
$n_{G \text{ Grease}}$	34.000 1/min	Limiting speed for grease lubrication
$n_{G \text{ Oil}}$	53.000 1/min	Limiting speed for oil lubrication
	0,07 kg	Weight

**Dimensions**

$r_{\min}$	0,6 mm	Minimum chamfer dimension
$r_{1 \min}$	0,6 mm	Minimum chamfer dimension
$\alpha$	$25^\circ$	Contact angle

**Mounting dimensions**

$d_a$	25 mm	Diameter shaft shoulder
$d_a$	h12	Diameter shaft shoulder clearance
$D_a$	37 mm	Shoulder diameter outer ring
$D_a$	H12	Shoulder diameter outer ring clearance
$r_{a \max}$	0,6 mm	Maximum recess radius
$r_{a1 \max}$	0,3 mm	Maximum recess radius
$E_{tk \min}$	27,8 mm	Minimum diameter injection pitch
$E_{tk \max}$	29,3 mm	Maximum diameter injection pitch
$E_{tk1 \min}$	27,8 mm	Minimum diameter injection pitch
$E_{tk1 \max}$	29,3 mm	Maximum diameter injection pitch
a	13,2 mm	Distance between the apexes of the pressure cones

**Additional information**

$F_{VL}$	71 N	Preload force light
$F_{VM}$	275 N	Preload force medium
$F_{VH}$	595 N	Preload force heavy
$K_{aEL}$	205 N	Lift-off force light
$K_{aEM}$	829 N	Lift-off force medium
$K_{aEH}$	1.857 N	Lift-off force heavy
$c_{aL}$	51,6 N/ $\mu\text{m}$	Axial rigidity light
$c_{aM}$	86,3 N/ $\mu\text{m}$	Axial rigidity medium
$c_{aH}$	119 N/ $\mu\text{m}$	Axial rigidity heavy