Open Linear Ball Bushings

Material
Hardened and ground body from bearing steel. Single body resin retainer (POM). Supplied with nitrile rubber (NBR) end-seals -UU as standard.

Technical notes
For use with hardened shafts only (see part nos. L1770 - L1772) - tolerance h6. Perpendicularity . A is better than 15µ.
Temperature range: -20°C to +80°C. Steel ball retainers can be supplied for higher temperature applications up to +120°C - with no end seals. Please advise at time of ordering if this is required.

Tips
\[ d_1 \] is the dimension before the bush has been slotted. Superball linear bearings are also available (3 x load rating of standard bushings and 27 x travel life see part nos. L1740 and L1742.)

Order No. | \( d_1 \) | \( d_2 \) | \( l_1 \) | \( d_3 \) | \( l_2 \) | \( l_3 \) | \( w \) | \( \alpha^{\circ} \) | No. of ball circuits | Max. dynamic load C N | Max. static load \( C_0 \) N | \( g \)
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
L1707.012 | 12 | 22 | 32 | 21,0 | 22,9 | 1,30 | 7,3 | 78\(^{\circ}\) | 3 | 410 | 590 | 41
L1707.016 | 16 | 26 | 36 | 24,9 | 24,9 | 1,30 | 10,0 | 78\(^{\circ}\) | 4 | 770 | 1170 | 57
L1707.020 | 20 | 32 | 45 | 30,3 | 31,5 | 1,60 | 10,0 | 60\(^{\circ}\) | 5 | 860 | 1370 | 91
L1707.025 | 25 | 40 | 58 | 37,5 | 44,1 | 1,85 | 12,5 | 60\(^{\circ}\) | 6 | 980 | 1560 | 215
L1707.030 | 30 | 47 | 68 | 44,5 | 52,1 | 1,85 | 12,5 | 50\(^{\circ}\) | 6 | 1560 | 2740 | 325
L1707.040 | 40 | 62 | 80 | 59,0 | 60,6 | 2,15 | 16,8 | 50\(^{\circ}\) | 6 | 2150 | 4010 | 705
L1707.050 | 50 | 75 | 100 | 72,0 | 77,6 | 2,65 | 21,0 | 50\(^{\circ}\) | 6 | 3820 | 7930 | 1130
L1707.060 | 60 | 90 | 125 | 86,5 | 101,7 | 3,15 | 27,2 | 54\(^{\circ}\) | 6 | 4700 | 9990 | 2220