


# Deep Groove Ball Bearings

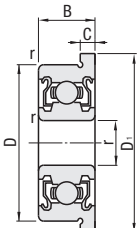
Small, Double Shielded with Flange

Deep Groove Ball Bearings – Small, Double Shielded with Flange

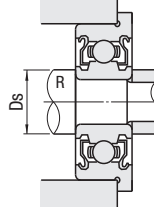


RoHS 10

**FL6\_ ZZ**  
**FL6\_ AZZ**  
**MFL1\_ ZZ**



Installation Diagram



**Material:** 52100 Bearing Steel  
Bearing Accuracy JIS B 1514 Class 0

Part Number	d	D	B	D <sub>1</sub>	C	r (min)	Basic Load Rating		Allowable Rotational Speed rpm (Reference)	Relative Dimensions		Mass (g) (Reference)
							Cr (Dynamic) N	Cor (Static) N		Ds (min)	R (max.)	
FL682ZZ	2	5	2.3	6.1	0.6	0.08	169	50	85000	2.7	0.08	0.22
FL692ZZ		6	3.0	7.5	0.8	0.15	330	98	75000	3.0	0.15	0.48
FL682AZZ	2.5	6	2.6	7.1	0.8	0.15	208	74	71000	3.7	0.08	0.36
FL692AZZ		7	3.5	8.5	0.9	0.15	385	127	63000	3.85	0.15	0.68
FL673ZZ	3	6	2.5	7.2	0.6	0.1	208	74	71000	3.6	0.08	0.33
FL683ZZ		7	3	8.1	0.8	0.1	390	130	63000	3.9	0.1	0.53
FL693ZZ	3	8	4	9.5	0.9	0.15	560	179	60000	4.2	0.15	0.97
FL603ZZ		9	5	10.5	1		570	187	56000			1.63
FL623ZZ	4	10	4	11.5	1	0.15	630	218	50000	5.6	0.2	1.86
FL674ZZ		7	2.5	8.2	0.6	0.1	222	88	60000			4.6
FL684ZZ	4	9	10.3	1	0.1	640	224	53000	5.0	0.1	1.14	
FL694ZZ		11	4	12.5	1	0.15	715	276	48000	5.2	0.15	1.96
FL604ZZ	12	5	13.5	0.2		957	345	48000	0.2	2.53		
FL624ZZ	5	13	5	15	0.6	0.1	1300	485	40000	6.2	0.15	3.53
FL675ZZ		8	2.5	9.2		0.1	217	91	53000			0.08
FL685ZZ	5	11	5	12.5	1	0.15	715	281	45000	6.6	0.2	2.18
FL695ZZ		13	4	15		0.2	1080	430	43000			0.2
FL605ZZ	5	14	5	16	0.3	0.3	1330	505	40000	7.7	0.3	3.85
FL625ZZ		16	5	18		0.1	1729	670	36000			0.1
FL676ZZ	6	10	3	11.2	1.1	0.15	465	196	45000	7.6	0.2	0.77
FL686ZZ		13	5	15		0.2	1080	440	40000			7.0
FL696ZZ	6	15	6	17	1.5	0.3	1350	530	40000	8	0.3	4.26
FL606ZZ		17	6	19		0.2	2190	835	38000			8
FL626ZZ	8	19	6	22	0.8	0.1	2336	885	32000	10	0.3	9.09
FL678ZZ		12	3.5	13.6		0.1	515	252	40000			8.8
FL688ZZ	8	16	5	18	1.1	0.2	1610	710	36000	9.6	0.2	4.47
FL698ZZ		19	6	22		0.3	1990	865	36000			10
FL608ZZ	10	22	7	25	0.8	0.15	3350	1400	34000	10.3	0.15	13
FL670ZZ		15	4	16.5		0.1	855	435	15000			10.3
FL680ZZ	10	19	5	21	1	0.3	1716	840	37000	12	0.3	6.1
FL690ZZ		22	6	25		0.2	2695	1273	34000			13.2
FL671ZZ	12	18	4	19.5	1.1	0.2	926	530	13000	12.4	0.2	3.4
FL681ZZ		21	5	23		0.3	1915	1041	33000			14
FL691ZZ	12	24	6	26.5	1.5	0.3	2886	1466	31000	14	0.3	13.2
FL672ZZ		21	4	22.5		0.2	937	582	11000			15.4
FL682ZZ	15	24	5	26	0.8	0.2	2073	1253	28000	17	0.3	8.3
FL692ZZ		28	7	30.5		0.1	4321	2259	26000			17
FL673ZZ	17	23	4	24.5	1.1	0.2	1000	658	9500	17.4	0.2	4.4
FL683ZZ		26	5	28		0.3	2233	1456	26000			19
FL693ZZ	17	30	7	32.5	1.5	0.3	4588	2565	23000	19	0.3	21.4
FL674ZZ		27	4	28.5		0.2	1041	729	8500			20.4
FL684ZZ	20	32	7	35	0.8	0.2	4015	2462	21000	22	0.3	19.8
FL694ZZ		37	9	40		0.1	6381	3682	19000			22
FL680ZZ	25	37	7	40	1.5	0.3	4303	2932	18000	27	0.3	26.1
FL695ZZ		42	9	45		0.2	7001	4540	16000			27

## Non-Standard Size

kgf=Nx0.101972


Part Number	d	D	B	D <sub>1</sub>	C	r (min)	Basic Load Rating		Allowable Rotational Speed rpm (Reference)	Relative Dimensions		Mass (g) (Reference)
							Cr (Dynamic) N	Cor (Static) N		Ds (min)	R (max.)	
MFL104ZZ	4	10	4	11.6	0.8	0.15	710	270	48000	5.9	0.2	1.5
MFL105ZZ	5	10	4	11.6	0.8	0.15	430	168	50000	6	0.15	1.38
MFL126ZZ	6	12	4	13.6	0.8	0.15	715	292	43000	7.2	0.15	1.86
MFL148ZZ	8	14	4	15.6	0.8	0.15	817	385	38000	9.26	0.15	2.42

Part Number Example: **FL606ZZ**, **FL6702ZZ**

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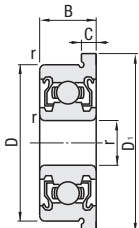
Small, Stainless Steel, Double Shielded with Flange

Deep Groove Ball Bearings – Small, Stainless Steel, Double Shielded with Flange

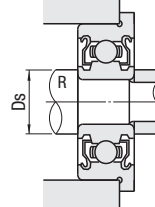


RoHS 10

**SFL6\_ ZZ**  
**SMFL1\_ ZZ**



Installation Diagram



**Material:** 440C Stainless Steel or Equivalent  
Bearing Accuracy JIS B 1514 Class 0

Part Number	d	D	B	D <sub>1</sub>	C	r (min)	Basic Load Rating		Allowable Rotational Speed rpm (Reference)	Relative Dimensions		Mass (g) (Reference)
							Cr (Dynamic) N	Cor (Static) N		Ds (min)	R (max.)	
SFL682ZZ	2	5	2.3	6.1	0.6	0.08	143	40	85000	2.7	0.08	0.22
SFL692ZZ		6	3.0	7.5	0.8	0.15	281	79	75000	3.0	0.15	0.48
SFL602ZZ	2.5	7	3.5	8.5	0.9	0.15	328	102	60000	3.2	0.15	0.71
SFL682AZZ		6	2.6	7.1	0.8	0.08	178	59	71000	3.7	0.08	0.36
SFL692AZZ	2.5	7	3.5	8.5	0.9	0.15	328	102	63000	3.85	0.15	0.68
SFL673ZZ		6	2.5	7.2	0.6	0.1	177	59	71000	3.6	0.08	0.33
SFL683ZZ	3	7	3	8.1	0.8	0.1	331	104	63000	3.9	0.1	0.53
SFL693ZZ		8	4	9.5	0.9	0.15	474	144	60000	4.2	0.15	0.97
SFL603ZZ	9	5	10.5	1	0.1	640	224	56000	1.63			
SFL623ZZ	4	10	4	11.5	1	0.15	536	175	50000	5.6	0.2	1.86
SFL674ZZ		7	2.5	8.2	0.6	0.1	217	86	60000			4.6
SFL684ZZ	4	9	10.3	1	0.1	544	179	53000	5.0	0.1	1.14	
SFL694ZZ		11	4	12.5	1	0.15	545	182	48000	5.2	0.15	1.96
SFL604ZZ	12	5	13.5	0.2		813	276	48000	0.2	2.53		
SFL624ZZ	5	13	5	15	0.6	0.1	1105	388	40000	6.2	0.2	3.53
SFL675ZZ		8	2.5	9.2		0.6	0.08	185	72			53000
SFL685ZZ	5	11	5	12.5	1.1	0.15	607	225	45000	6.6	0.2	2.18
SFL695ZZ		13	4	15		0.2	915	344	43000			6.6
SFL605ZZ	5	14	5	16	1.5	0.3	1105	404	40000	7.7	0.3	3.85
SFL625ZZ		16	5	18		0.1	1469	536	36000			7.7
SFL676ZZ	6	10	3	11.2	0.8	0.1	421	174	45000	9.6	0.2	0.77
SFL686ZZ		13	5	15		1.1	0.15	918	352			40000
SFL696ZZ	6	15	6	17	1.1	0.2	1139	418	40000	7.6	0.2	4.26
SFL606ZZ		17	6	19		1.2	1921	668	38000			8
SFL626ZZ	8	19	6	22	1.5	0.3	1985	708	32000	8	0.3	9.09
SFL678ZZ		12	3.5	13.6		0.8	0.1	462	219			40000
SFL688ZZ	8	16	5	18	1.1	0.2	1368	568	36000	9.6	0.2	4.47
SFL698ZZ		19	6	22		1.5	0.3	1901	728			36000
SFL608ZZ	10	22	7	25	0.8	0.15	2799	1103	34000	10.3	0.15	13
SFL670ZZ		15	4	16.5		0.1	855	435	15000			10.3
SFL680ZZ	10	19	5	21	1	0.3	1459	672	37000	12	0.3	6.1
SFL690ZZ		22	6	25		1.5	0.3	2156	1018			34000
SFL671ZZ	12	18	4	19.5	1.1	0.2	787	424	13000	12.4	0.2	3.4
SFL681ZZ		24	6	26.5		1.5	0.3	2453	1173			31000
SFL691ZZ	12	21	4	22.5	0.8	0.2	796	466	11000	15.4	0.2	3.9
SFL672ZZ		24	5	26		1.1	0.3	1762	1002			28000
SFL682ZZ	15	24	5	26	1.5	0.3	1762	1002	28000	17	0.3	8.3
SFL692ZZ		28	7	30.5		1.5	0.3	3672	1807			26000

## Non-Standard Size

kgf=Nx0.101972

Part Number	d	D	B	D <sub>1</sub>	C	r (min)	Basic Load Rating		Allowable Rotational Speed rpm (Reference)	Relative Dimensions		Mass (g) (Reference)
							Cr (Dynamic) N	Cor (Static) N		Ds (min)	R (max.)	
SMFL104ZZ	4	10	4	11.6	0.8	0.15	604	216	50000	5.9	0.2	1.5
SMFL105ZZ	5	10	4	11.6	0.8	0.15	366	135	50000	6	0.15	1.38
SMFL126ZZ	6	12	4	13.6	0.8	0.15	608	234	43000	7.2	0.15	1.86
SMFL148ZZ	8	14	4	15.6	0.8	0.15	694	308	38000	9.26	0.15	2.42

Part Number Example: **SFL606ZZ**, **SFL6702ZZ**