

ENGLISH

Datasheet

Steel External Circlip, 3mm Shaft Diameter, 2.8mm **Groove Diameter**

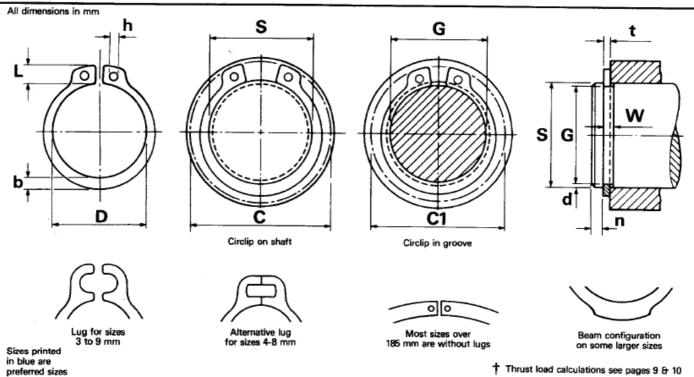
RS Stock number 289-180



STANDARD EXTERNAL CIRCLIPS EUROPEAN SPECIFICATIONS

D1400 INCORPORATING DIN 4718 BS3673 Pt.4







ENGLISH

Shaft	ft Groove (G)							Circlip (F)									TcT	Tg†
s	G	Tol.	w	Tol.	n (min)	٥ ~	t	Tol.	D	Tol.	С	C1	L (max)	ь ~	h (min)	Wt. (kg/k)	(N)	(N)
3 4 5 6 7	2.8 3.8 4.8 5.7 6.7	+0.00 -0.04 +0.00 -0.048 +0.00 -0.06	0.50 0.50 0.70 0.80 0.90		0.3 0.3 0.5 0.5	3 0.10 3 0.10 3 0.10 5 0.15 5 0.15	0.40 0.40 0.60 0.70 0.80	+ 0.00 - 0.05	2.7 3.7 4.7 5.6 6.5	+0.04 -0.15 +0.06	7.0 8.6 10.3 11.7 13.5	6.6 8.2 9.8 11.1 12.9	1.9 2.2 2.5 2.7 3.1	0.8 0.9 1.1 1.3 1.4	1.0 1.0 1.0 1.2 1.2	0.02 0.03 0.08 0.13 0.18	1170 1600 2900 4100 5500	110 150 190 340 400
9 10 11 12	8.6 9.6 10.5 11.5		1.10 1.10 1.10 1.10		0.6 0.6 0.6 0.8 0.8	0.20 0.20 0.20 0.25 0.25	0.80 1.00 1.00 1.00 1.00	.00 .00 .00 .00 .00 .00 .00 .00 .00 .00	7.4 8.4 9.3 10.2 11.0	9 +0.10 -0.36 7 7 +0.13	14.7 16.0 17.0 18.0 19.0	14.0 15.2 16.2 17.1 18.1	3.2 3.3 3.3 3.3 3.3	1.5 1.7 1.8 1.8 1.8	1.2 1.2 1.5 1.5 1.7	0.20 0.32 0.40 0.41 0.45	6200 8800 9700 10700 11700	600 680 750 1040 1130
13 14 15 16 17	12.4 13.4 14.3 15.2 16.2		1.10 1.10 1.10 1.10 1.10		0.9 0.9 1.1 1.2 1.2	0.30 0.30 0.35 0.40 0.40	1.00 1.00 1.00 1.00 1.00		11.9 12.9 13.8 14.7 15.7		20.2 21.4 22.6 23.8 25.0	19.2 20.4 21.5 22.6 23.8	3.4 3.5 3.6 3.7 3.8	2.0 2.1 2.2 2.2 2.3	1.7 1.7 1.7 1.7 1.7	0.52 0.56 0.62 0.69 0.77	12700 13600 14600 15600 16600	1470 1580 1980 2410 2560
18 19 20 21 22	17.0 18.0 19.0 20.0 21.0	+0.00 -0.13	1.30 1.30 1.30 1.30 1.30		1.5 1.5 1.5 1.5 1.5	0.50 0.50 0.50 0.50 0.50	1.20 1.20 1.20 1.20 1.20		16.5 17.5 18.5 19.5 20.5		26.2 27.2 28.4 29.6 30.8	24.8 25.8 27.0 28.2 29.4	3.9 3.9 4.0 4.1 4.2	2.4 2.5 2.6 2.7 2.8	2.0 2.0 2.0 2.0 2.0	0.99 1.10 1.18 1.26 1.39	21000 22200 23400 24500 25700	3390 3580 3770 3960 4150
23 24 25 26 27	22.0 22.9 23.9 24.9 25.6	+0.00	1.30 1.30 1.30 1.30 1.30	+0.14	1.5 1.7 1.7 1.7 2.1	0.50 0.55 0.55 0.55 0.70	1.20 1.20 1.20 1.20 1.20		21.5 22.2 23.2 24.2 24.9	+0.21 -0.42 +0.25 -0.50 +0.39 -0.90	32.0 33.2 34.2 35.5 36.7	30.6 31.7 32.7 33.9 34.8	4.3 4.4 4.4 4.5 4.6	2.9 3.0 3.0 3.1 3.1	2.0 2.0 2.0 2.0 2.0	1.54 1.52 1.70 1.75 1.89	26900 28000 29200 30400 31600	4340 4980 5180 5390 7130
28 29 30 32 33	26.6 27.6 28.6 30.3 31.3	+0.00	1.60 1.60 1.60 1.60 1.60	-0.00	2.1 2.1 2.1 2.6 2.6	0.70 0.70 0.70 0.85 0.85	1.50 1.50 1.50 1.50 1.50		25.9 26.9 27.9 29.6 30.5		37.9 39.1 40.5 43.0 44.0	36.0 37.2 38.6 40.7 41.7	4.7 4.8 5.0 5.2 5.2	3.2 3.4 3.5 3.6 3.7	2.0 2.0 2.0 2.5 2.5	2.47 2.75 2.93 3.02 3.30	40900 42400 43800 46700 48200	7390 7650 7920 10300 10600
34 35 36 38 40	32.3 33.0 34.0 36.0 37.5		1.60 1.60 1.85 1.85 1.85		2.6 3.0 3.0 3.0 3.0	0.85 1.00 1.00 1.00 1.25	1.50 1.50 1.75 1.75 1.75		31.5 32.2 33.2 35.2 36.5		45.4 46.8 47.8 50.2 52.6	43.1 44.2 45.2 47.6 49.5	5.4 5.6 5.6 5.8 6.0	3.8 3.9 4.0 4.2 5.0	2.5 2.5 2.5 2.5 2.5 2.5	3.72 3.78 4.55 5.08 5.54	49700 51100 51400 54800	10900 13200 13600 14300
42 45 46 47 48	39.5 42.5 43.5 44.5 45.5		1.85 1.85 1.85 1.85 1.85		3.8 3.8 3.8 3.8 3.8 3.8	1.25 1.25 1.25 1.25 1.25	1.75 1.75 1.75 1.75 1.75		38.5 41.5 42.5 43.5 44.5		55.7 59.1 60.1 61.3 62.5	52.5 55.9 56.9 58.1 59.3	6.5 6.7 6.7 6.8 6.9	5.0 5.0 5.0 5.0 5.0	2.5 2.5 2.5 2.5 2.5 2.5	5.99 6.75 7.24 7.30 7.51	56600 59500 63700 65100 66500 67900	19800 21200 21700 22100 22600
50 52 54 55 56	47.0 49.0 51.0 52.0 53.0	+ 0.00 - 0.30	2.15 2.15 2.15 2.15 2.15 2.15		4.5 4.5 4.5 4.5 4.5	1.50 1.50 1.50 1.50 1.50 1.50	2.00 2.00 2.00 2.00 2.00 2.00	+0.00	45.8 47.8 49.8 50.8 51.8	+0.46	64.5 66.7 69.0 70.2 71.6	60.8 63.0 65.2 66.4 67.6	6.9 7.0 7.1 7.2 7.3	5.5 5.5 5.5 5.5 5.5	2.5 2.5 2.5 2.5 2.5 2.5	9.88 9.53 10.30 10.41 10.50	80900 84100 87400 89000 90600	28300 29400 30500 31100 31700
58 60 62 63 65	55.0 57.0 59.0 60.0 62.0		2.15 2.15 2.15 2.15 2.65		4.5 4.5 4.5 4.5 4.5	1.50 1.50 1.50 1.50 1.50	2.00 2.00 2.00 2.00 2.50	- 0.07	53.8 55.8 57.8 58.8 60.8	-1.10	73.6 75.6 77.8 79.0 81.4	69.6 71.8 74.0 75.2 77.6	7.3 7.4 7.5 7.6 7.8	5.6 5.8 6.0 6.2 6.3	2.5 2.5 2.5 2.5 2.5	12.47 13.69 12.36 13.10 20.44	93800 97100 100000 102000 131000	32800 33900 35100 35600 36800



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Shaft	Groove (G)						Circlip (F)									Wt.	Tc†	Tg†
S	G	Tol.	W	Tol.	n (min)	d ~	t	Tol.	D	Tol.	С	C1	L (max)	۵ م	h (min)	(kg/k)	(N)	(N)
67 68 70 72 75	64.0 65.0 67.0 69.0 72.0	+0.00	2.65 2.65 2.65 2.65 2.65 2.65	+0.14	4.5 4.5 4.5 4.5 4.5 4.5	1.50 1.50 1.50 1.50 1.50 1.50	2.50 2.50 2.50 2.50 2.50 2.50	+0.00	62.5 63.5 65.5 67.5 70.5	+ 0.46 - 1.10	83.6 84.4 87.0 89.2 92.7	79.8 81.0 83.2 85.4 88.8	7.9 8.0 8.1 8.2 8.4	6.4 6.5 6.6 6.8 7.0	3.0 3.0 3.0 3.0 3.0 3.0	20.43 19.55 22.13 21.60 24.65 24.26	135000 138000 142000 146000 152000	37900 38500 39600 40700 42400
78 80 82 85	75.0 76.5 78.5 81.5		2.65 2.65 2.65 3.15		4.5 5.3 5.3 5.3	1.50 1.75 1.75 1.75	2.50 2.50 2.50 2.50 3.00		73.5 74.5 76.5 79.5		96.1 98.1 100.3 103.3	92.2 93.7 95.9 98.9	8.6 8.6 8.7 8.7	7.3 7.4 7.6 7.8	3.0 3.0 3.0 3.5	28.10 26.68 28.35 35.40	158000 162000 166000 206000	44100 52800 54100 56100
98 90 95 98 100	84.5 86.5 91.5 94.5 96.5	+ 0.00 - 0.35	3.15 3.15 3.15 3.15 3.15 3.15		5.3 5.3 5.3 5.3 5.3	1.75 1.75 1.75 1.75 1.75	3.00 3.00 3.00 3.00 3.00	3.00 +0.00 -0.08 3.00 -0.08 3.00 -0.08 3.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00	82.5 84.5 89.5 91.5 94.5	+0.54 -1.30	106.5 108.5 114.8 118.6 120.2	102.0 104.0 111.0 114.0 116.0	8.8 8.8 9.4 9.8 9.6	8.0 8.2 8.6 9.0 9.0	3.5 3.5 3.5 3.5 3.5	39.85 38.89 42.39 54.00 48.86	214000 218000 231000 238000 243000	58100 59400 62700 64700 66000
102 105 108 110 115	98.0 101.0 104.0 106.0 111.0	+0.00 -0.54	4.15 4.15 4.15 4.15 4.15		6.0 6.0 6.0 6.0 6.0	2.00 2.00 2.00 2.00 2.00 2.00	4.00 4.00 4.00 4.00 4.00		95.0 98.0 100.0 103.0 108.0		122.4 126.2 129.0 131.2 137.3	118.0 122.0 124.0 127.0 133.0	9.7 10.1 10.0 10.1 10.6	9.2 9.3 9.5 9.6 9.8	3.5 3.5 3.5 3.5 3.5	68.73 73.16 83.45 75.24 78.65	330000 340000 349000 356000 327000	76900 79200 81400 82900 96700
120 125 130 135 140	116.0 121.0 126.0 131.0 136.0		4.15 4.15 4.15 4.15 4.15	6.0 2.00 6.0 2.00 6.0 2.00 6.0 2.00 6.0 2.00 7.5 2.50 7.5	6.0 6.0 6.0	2.00 2.00 2.00	4.00 4.00 4.00 4.00 4.00		113.0 118.0 123.0 128.0 133.0		143.1 149.0 154.4 159.8 165.2	138.0 144.0 150.0 155.0 160.0	11.0 11.4 11.6 11.8 12.0	10.2 10.4 10.7 11.0 11.2	3.5 4.0 4.0 4.0 4.0	85.58 99.62 98.10 113.40 119.18	388000 404000 421000 437000 453000	90500 94200 98000 102000 106000
145 150 155 160 165	141.0 145.0 150.0 155.0 160.0	+0.00	4.15 4.15 4.15 4.15 4.15		7.5 7.5 7.5	2.50 2.50 2.50	4.00 4.00 4.00 4.00 4.00			+ 0.63 - 1.50	170.6 177.3 182.3 188.0 193.4	166.0 171.0 176.0 182.0 187.0	12.2 13.0 13.0 13.3 13.5	11.5 11.8 12.0 12.2 12.5	4.0 4.0 4.0 4.0 4.0	128.53 132.80 136.06 137.50 151.96	470000 485000 501000 518000 534000	109000 141000 146000 151000 156000
170 175 180 185 190	165.0 170.0 175.0 180.0 188.0		4.15 4.15 4.15 4.15 4.15		7.5 7.5 7.5	2.50 2.50 2.50	4.00 4.00 4.00 4.00 4.00		160.5 165.5 170.5 175.5 180.5		198.4 203.4 210.0 215.2 220.0	192.0 197.0 204.0 209.0 214.0	13.5 13.5 14.2 14.3 14.2	12.9 12.9 13.5 13.5 14.0	4.0 4.0 4.0 4.0 4.0	169.00 173.70 188.00 193.00 203.00	550000 566000 582000 598000 615000	160000 165000 170000 174000 179000
195 200 205 210 220	190.0 195.0 199.0 204.0 214.0	+0.00	4.15 4.15 5.15 5.15 5.15		7.5 9.0 9.0	2.50 3.00 3.00	4.00 4.00 5.00 5.00 5.00	+0.00	185.5 190.5 193.0 198.0 208.0	+0.72	225.0 230.0 235.0 240.0 250.0	219.0 224.0 228.0 233.0 243.0	14.2 14.2 14.2 14.2 14.2	14.0 14.0 14.0 14.0 14.0	4.0 4.0 4.0 4.0 4.0	209.50 214.00 278.00 285.00 298.50	631000 647000 721000 739000 775000	184000 188000 232000 238000 249000
230 240 250 260 270	224.0 234.0 244.0 252.0 262.0		5.15 5.15 5.15 5.15 5.15 5.15		9.0 9.0 12.0	3.00 3.00 4.00	5.00 5.00 5.00 5.00 5.00		218.0 228.0 238.0 245.0 255.0		260.0 270.0 280.0 294.0 304.0	253.0 263.0 272.0 285.0 295.0	14.2 14.2 14.2 16.2 16.2	14.0 14.0 14.0 16.0 16.0	4.0 4.0 4.0 5.0 5.0	312.00 326.00 340.00 414.00 430.50	809000 844000 880000 915000 950000	260000 271000 283000 392000 407000
280 290 300 310 320	272.0 282.0 292.0 300.0 310.0	+ 0.00 - 0.81	5.15 5.15 5.15 6.20 6.20		4.00 4.00 4.00 5.00	5.00 5.00 5.00 6.00 6.00		265.0 275.0 285.0 293.0 303.0	0 -2.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	314.0 324.0 334.0 352.2 362.2	305.0 315.0 325.0 341.0 351.1	16.2 16.2 16.2 20.2 20.2	16.0 16.0 16.0 20.0 20.0	5.0 5.0 5.0 6.0 6.0	446.50 463.00 479.00 710.50 734.00	985000 1020000 1056000 1309000 1351000	422000 437000 452000 584000 603000	
330 340 350 360 370	320.0 330.0 340.0 350.0 360.0	+0.00		15.0 15.0 15.0 15.0 15.0	5.00 5.00 5.00 5.00 5.00	6.00 6.00 6.00 6.00 6.00	+0.00	313.0 323.0 333.0 343.0 353.0		372.2 382.2	361.0 371.0 381.0 391.0 401.0	20.2 20.2 20.2 20.2 20.2 20.2	20.0 20.0 20.0 20.0 20.0 20.0	6.0 6.0 6.0 6.0 6.0	757.00 780.00 805.00 827.00 850.00	1393000 1436000 1478000 1520000 1562000	622000 641000 660000 679000 697000	
380 390 400	370.0 380.0 390.0		6.20 6.20 6.20		15.0 15.0 15.0	5.00 5.00 5.00	6.00 6.00 6.00		363.0 373.0 383.0		422.2 432.2 442.2	411.0 421.0 431.0	20.2 20.2 20.2	20.0 20.0 20.0	6.0 6.0 6.0	873.00 896.00 919.00	1604000 1646000 1689000	716000 735000 754000

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