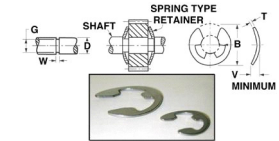




# MBA

## E-Clips - External Bowed



For end play take up.

Thickness tolerance +/- 0.025.

### E-Clips - External Bowed

Part Number	Rec. Shaft Diameter (D) mm	Groove Diameter (G) mm	Thickness (T) mm	Outside Diameter (B) mm	Groove Width (W) mm	Ring Width (X) mm	Force Required to Flatten kg	Material
	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>		
# ECB-02.39-CS	2.388	1.880	0.508	4.75	0.64	1.14	1.8	Carbon Spring Steel
	<i>0.094</i>	<i>0.074</i>	<i>0.020</i>	<i>0.187</i>	<i>0.025</i>	<i>0.045</i>		
# ECB-02.79-CS	2.794	2.007	0.381	9.53	0.51	0.89	2.2	Carbon Spring Steel
	<i>0.110</i>	<i>0.079</i>	<i>0.015</i>	<i>0.375</i>	<i>0.020</i>	<i>0.035</i>		
# ECB-03.18-CS	3.175	2.413	0.254	5.84	0.36	0.56	3.6	Carbon Spring Steel
	<i>0.125</i>	<i>0.095</i>	<i>0.010</i>	<i>0.230</i>	<i>0.014</i>	<i>0.022</i>		

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Part Number	Rec. Shaft Diameter (D) mm	Groove Diameter (G) mm	Thickness (T) mm	Outside Diameter (B) mm	Groove Width (W) mm	Ring Width (X) mm	Force Required to Flatten kg	Material
	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>		
# ECB-03.18-PH15-7	3.175 <i>0.125</i>	2.413 <i>0.095</i>	0.254 <i>0.010</i>	5.84 <i>0.230</i>	0.56 <i>0.022</i>	0.64 <i>0.025</i>	3.6	PH 15-7 Mo Stainless Steel
# ECB-03.56-CS	3.556 <i>0.140</i>	2.667 <i>0.105</i>	0.381 <i>0.015</i>	6.86 <i>0.270</i>	0.51 <i>0.020</i>	0.64 <i>0.025</i>	4.2	Carbon Spring Steel
# ECB-03.68-CS	3.683 <i>0.145</i>	2.591 <i>0.102</i>	0.254 <i>0.010</i>	5.16 <i>0.203</i>	0.36 <i>0.014</i>	0.48 <i>0.019</i>	3.8	Carbon Spring Steel
# ECB-03.96-CS	3.962 <i>0.156</i>	2.946 <i>0.116</i>	0.381 <i>0.015</i>	7.16 <i>0.282</i>	0.51 <i>0.020</i>	0.69 <i>0.027</i>	4.5	Carbon Spring Steel
# ECB-04.37-CS	4.369 <i>0.172</i>	3.226 <i>0.127</i>	0.381 <i>0.015</i>	7.92 <i>0.312</i>	0.51 <i>0.020</i>	0.74 <i>0.029</i>	4.9	Carbon Spring Steel
# ECB-04.78-CS	4.775 <i>0.188</i>	3.175 <i>0.125</i>	0.381 <i>0.015</i>	9.53 <i>0.375</i>	0.51 <i>0.020</i>	0.89 <i>0.035</i>	5.2	Carbon Spring Steel
# ECB-04.78H-CS	4.775 <i>0.188</i>	3.734 <i>0.147</i>	0.381 <i>0.015</i>	8.51 <i>0.335</i>	0.51 <i>0.020</i>	0.76 <i>0.030</i>	5.4	Carbon Spring Steel
# ECB-04.78-PH15-7	4.775 <i>0.188</i>	3.734 <i>0.147</i>	0.381 <i>0.015</i>	8.51 <i>0.335</i>	0.76 <i>0.030</i>	0.84 <i>0.033</i>	5.4	PH 15-7 Mo Stainless Steel

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Part Number	Rec. Shaft Diameter (D) mm	Groove Diameter (G) mm	Thickness (T) mm	Outside Diameter (B) mm	Groove Width (W) mm	Ring Width (X) mm	Force Required to Flatten kg	Material
	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>		
# ECB-05.56-CS	5.563	4.775	0.381	11.10	0.51	1.02	9.8	Carbon Spring Steel
	<i>0.219</i>	<i>0.188</i>	<i>0.015</i>	<i>0.437</i>	<i>0.020</i>	<i>0.040</i>		
# ECB-06.35-CS	6.350	5.334	0.635	13.39	0.81	1.24	15.6	Carbon Spring Steel
	<i>0.250</i>	<i>0.210</i>	<i>0.025</i>	<i>0.527</i>	<i>0.032</i>	<i>0.049</i>		
# ECB-06.35-PH15-7	6.350	5.334	0.635	13.39	1.19	1.27	15.6	PH 15-7 Mo Stainless Steel
	<i>0.250</i>	<i>0.210</i>	<i>0.025</i>	<i>0.527</i>	<i>0.047</i>	<i>0.050</i>		
# ECB-07.90-CS	7.899	6.350	0.635	12.70	0.81	1.19	13.4	Carbon Spring Steel
	<i>0.311</i>	<i>0.250</i>	<i>0.025</i>	<i>0.500</i>	<i>0.032</i>	<i>0.047</i>		
ECB-07.92-PH15-7	7.925	6.350	0.635	12.70	1.19	1.27	13.4	PH 15-7 Mo Stainless Steel
	<i>0.312</i>	<i>0.250</i>	<i>0.025</i>	<i>0.500</i>	<i>0.047</i>	<i>0.050</i>		
# ECB-09.50-CS	9.500	7.696	0.889	16.76	1.07	1.52	24.6	Carbon Spring Steel
	<i>0.374</i>	<i>0.303</i>	<i>0.035</i>	<i>0.660</i>	<i>0.042</i>	<i>0.060</i>		
ECB-09.53-PH15-7	9.525	7.696	0.889	16.76	1.52	1.52	24.6	PH 15-7 Mo Stainless Steel
	<i>0.375</i>	<i>0.303</i>	<i>0.035</i>	<i>0.660</i>	<i>0.060</i>	<i>0.060</i>		
# ECB-11.10-CS	11.100	8.712	0.889	17.45	1.07	1.52	22.3	Carbon Spring Steel
	<i>0.437</i>	<i>0.343</i>	<i>0.035</i>	<i>0.687</i>	<i>0.042</i>	<i>0.060</i>		

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Part Number	Rec. Shaft Diameter (D) mm	Groove Diameter (G) mm	Thickness (T) mm	Outside Diameter (B) mm	Groove Width (W) mm	Ring Width (X) mm	Force Required to Flatten kg	Material
	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>		
# ECB-11.10H-CS	11.100	9.652	0.889	15.24	1.07	1.45	22.3	Carbon Spring Steel
	<i>0.437</i>	<i>0.380</i>	<i>0.035</i>	<i>0.600</i>	<i>0.042</i>	<i>0.057</i>		
ECB-11.13-PH15-7	11.125	8.712	0.889	17.45	1.52	1.52	22.3	PH 15-7 Mo Stainless Steel
	<i>0.438</i>	<i>0.343</i>	<i>0.035</i>	<i>0.687</i>	<i>0.060</i>	<i>0.060</i>		
# ECB-12.70-CS	12.700	10.058	1.067	20.32	1.24	1.85	40.2	Carbon Spring Steel
	<i>0.500</i>	<i>0.396</i>	<i>0.042</i>	<i>0.800</i>	<i>0.049</i>	<i>0.073</i>		
# ECB-12.70-PH15-7	12.700	10.058	1.067	20.32	1.85	1.91	40.2	PH 15-7 Mo Stainless Steel
	<i>0.500</i>	<i>0.396</i>	<i>0.042</i>	<i>0.800</i>	<i>0.073</i>	<i>0.075</i>		
# ECB-15.88-CS	15.875	12.319	1.067	23.88	1.24	1.96	37.9	Carbon Spring Steel
	<i>0.625</i>	<i>0.485</i>	<i>0.042</i>	<i>0.940</i>	<i>0.049</i>	<i>0.077</i>		
# ECB-15.88-PH15-7	15.875	12.319	1.067	23.88	1.96	2.03	37.9	PH 15-7 Mo Stainless Steel
	<i>0.625</i>	<i>0.485</i>	<i>0.042</i>	<i>0.940</i>	<i>0.077</i>	<i>0.080</i>		
# ECB-18.90-CS	18.898	15.875	1.270	25.40	1.45	2.16	49.1	Carbon Spring Steel
	<i>0.744</i>	<i>0.625</i>	<i>0.050</i>	<i>1.000</i>	<i>0.057</i>	<i>0.085</i>		
# ECB-19.00-CS	18.999	14.732	1.270	28.45	1.45	2.16	49.1	Carbon Spring Steel
	<i>0.748</i>	<i>0.580</i>	<i>0.050</i>	<i>1.120</i>	<i>0.057</i>	<i>0.085</i>		

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Part Number	Rec. Shaft Diameter (D) mm	Groove Diameter (G) mm	Thickness (T) mm	Outside Diameter (B) mm	Groove Width (W) mm	Ring Width (X) mm	Force Required to Flatten kg	Material
	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>		
# ECB-19.05-PH15-7	19.050	14.732	1.270	28.45	2.16	2.29	49.1	PH 15-7 Mo Stainless Steel
	<i>0.750</i>	<i>0.580</i>	<i>0.050</i>	<i>1.120</i>	<i>0.085</i>	<i>0.090</i>		
# ECB-22.20-CS	22.200	17.145	1.270	33.02	1.45	2.16	53.6	Carbon Spring Steel
	<i>0.874</i>	<i>0.675</i>	<i>0.050</i>	<i>1.300</i>	<i>0.057</i>	<i>0.085</i>		
# ECB-22.23-PH15-7	22.225	17.145	1.270	33.02	2.16	2.29	53.6	PH 15-7 Mo Stainless Steel
	<i>0.875</i>	<i>0.675</i>	<i>0.050</i>	<i>1.300</i>	<i>0.085</i>	<i>0.090</i>		
# ECB-24.99-CS	24.994	21.209	1.270	38.10	1.45	2.16	58.8	Carbon Spring Steel
	<i>0.984</i>	<i>0.835</i>	<i>0.050</i>	<i>1.500</i>	<i>0.057</i>	<i>0.085</i>		
# ECB-30.18-CS	30.175	27.407	1.575	41.30	1.78	2.72	72.2	Carbon Spring Steel
	<i>1.188</i>	<i>1.079</i>	<i>0.062</i>	<i>1.626</i>	<i>0.070</i>	<i>0.107</i>		
# ECB-34.93-CS	34.925	31.242	1.575	47.63	1.78	2.72	72.2	Carbon Spring Steel
	<i>1.375</i>	<i>1.230</i>	<i>0.062</i>	<i>1.875</i>	<i>0.070</i>	<i>0.107</i>		

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