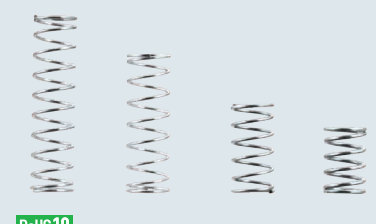


# Round Wire Springs

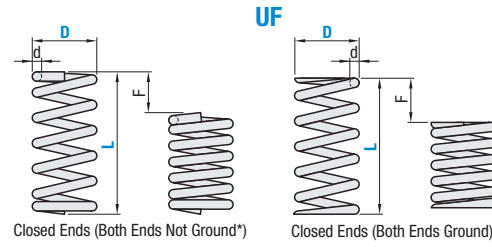
UV / UR / UY / UF: Outer Diameter Selectable, Stainless Steel

Round Wire Springs – Outer Diameter Selectable Stainless Steel



RoHS10

UV  
UY  
UR  
UF\*



Spring Constant  $\pm 10\%$   
Outer Diameter D  $\varnothing 10$  or less  $\varnothing 0.5\text{mm}$   
 $\varnothing 12$  or more  $\varnothing 0.8\text{mm}$   
Free length L 50 or less  $\pm 1.5\text{mm}$   
55 or more  $\pm 2.5\text{mm}$

Material: 304 Stainless Steel-WPB

UV: Fmax. (Allowable Deflection) = LxFa%

Part Number	Type	D - L	d	Solid Length	F max.	N (kgf) max.	Fa%
UV 3-5	UV	3-5	0.15	1.1	4	0.02 (0.0018)	
UV 10	UV	10	0.18	2.5	7	0.04 (0.0036)	
UV 15	UV	15	0.18	2.5	11	0.05 (0.0054)	
UV 20	UV	20	0.20	3.3	14	0.07 (0.0071)	
UV 25	UV	25	0.23	6.2	18	0.09 (0.0089)	
UV 30	UV	30	0.23	6.2	21	0.11 (0.0107)	
UV 4-5	UV	4-5	0.18	1.2	4	0.02 (0.0018)	
UV 10	UV	10	0.20	1.7	7	0.04 (0.0036)	
UV 15	UV	15	0.23	3.0	11	0.05 (0.0054)	
UV 20	UV	20	0.23	3.0	14	0.07 (0.0071)	
UV 25	UV	25	0.26	4.9	18	0.09 (0.0089)	
UV 30	UV	30	0.26	4.9	21	0.11 (0.0107)	
UV 5-5	UV	5-5	0.20	1.2	4	0.02 (0.0018)	
UV 10	UV	10	0.23	1.8	7	0.04 (0.0036)	
UV 15	UV	15	0.26	2.9	11	0.05 (0.0054)	
UV 20	UV	20	0.29	4.5	14	0.07 (0.0071)	
UV 25	UV	25	0.29	4.5	18	0.09 (0.0089)	
UV 30	UV	30	0.29	4.5	21	0.11 (0.0107)	
UV 6-10	UV	6-10	0.26	2.0	7	0.04 (0.0036)	
UV 15	UV	15	0.30	3.3	11	0.05 (0.0054)	
UV 20	UV	20	0.30	3.3	14	0.07 (0.0071)	
UV 25	UV	25	0.35	6.5	18	0.09 (0.0089)	
UV 30	UV	30	0.35	6.5	21	0.11 (0.0107)	
UV 35	UV	35	0.35	6.5	25	0.12 (0.0125)	
UV 40	UV	40	0.35	6.5	28	0.14 (0.0143)	
UV 8-10	UV	8-10	0.30	1.9	7	0.04 (0.0036)	
UV 15	UV	15	0.35	3.2	11	0.05 (0.0054)	
UV 20	UV	20	0.35	3.2	14	0.07 (0.0071)	
UV 25	UV	25	0.40	5.6	18	0.09 (0.0089)	
UV 30	UV	30	0.40	5.6	21	0.11 (0.0107)	
UV 35	UV	35	0.40	5.6	25	0.12 (0.0125)	
UV 40	UV	40	0.45	9.3	28	0.14 (0.0143)	
UV 45	UV	45	0.45	9.3	32	0.16 (0.0161)	
UV 50	UV	50	0.45	9.3	35	0.18 (0.0179)	

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UY: Fmax. (Allowable Deflection) = LxFa%

Part Number	Type	D - L	d	Solid Length	F max.	N (kgf) max.	Fa%
UY 2-5	UY	2-5	0.13	1.5	3	0.15 (0.015)	
UY 10	UY	10	0.13	1.5	6	0.29 (0.03)	
UY 15	UY	15	0.15	2.7	9	0.44 (0.045)	
UY 20	UY	20	0.15	2.7	12	0.59 (0.06)	
UY 25	UY	25	0.18	6.3	15	0.74 (0.075)	
UY 30	UY	30	0.18	6.3	18	0.88 (0.09)	
UY 3-5	UY	3-5	0.16	0.92	3.75	0.37 (0.0375)	
UY 10	UY	10	0.2	2	7.5	0.74 (0.075)	
UY 15	UY	15	0.23	3.45	11.25	1.10 (0.1125)	
UY 20	UY	20	0.23	3.45	15	1.47 (0.15)	
UY 25	UY	25	0.26	6.24	15	1.47 (0.15)	
UY 30	UY	30	0.26	6.24	18	1.77 (0.18)	
UY 4-5	UY	4-5	0.2	1.05	3.75	0.37 (0.0375)	
UY 10	UY	10	0.23	1.84	7.5	0.74 (0.075)	
UY 15	UY	15	0.26	2.86	11.25	1.10 (0.1125)	
UY 20	UY	20	0.29	4.64	15	1.47 (0.15)	
UY 25	UY	25	0.3	5.4	18.75	1.84 (0.1875)	
UY 30	UY	30	0.3	5.4	22.5	2.26 (0.23)	
UY 5-5	UY	5-5	0.23	1.15	3.75	0.37 (0.0375)	
UY 10	UY	10	0.26	1.82	7.5	0.74 (0.075)	
UY 15	UY	15	0.3	3.15	11.25	1.10 (0.1125)	
UY 20	UY	20	0.3	3.15	15	1.47 (0.15)	
UY 25	UY	25	0.32	4.16	18.75	1.84 (0.1875)	
UY 30	UY	30	0.32	4.16	22.5	2.26 (0.23)	
UY 35	UY	35	0.35	6	26.25	2.55 (0.26)	
UY 40	UY	40	0.35	6	30	2.94 (0.3)	

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UR: Fmax. (Allowable Deflection) = LxFa%

Part Number	Type	D - L	d	Solid Length	F max.	N (kgf) max.	Fa%
UR 2-5	UR	2-5	0.18	2.0	2.5	0.49 (0.05)	
UR 10	UR	10	0.18	2.0	5	0.98 (0.1)	
UR 15	UR	15	0.23	6.0	7.5	1.5 (0.15)	
UR 20	UR	20	0.23	6.0	10	2.0 (0.2)	
UR 25	UR	25	0.26	11.2	12.5	2.5 (0.25)	
UR 30	UR	30	0.26	11.2	15	2.9 (0.3)	
UR 3-5	UR	3-5	0.23	1.6	3	0.9 (0.09)	
UR 10	UR	10	0.25	2.1	6	1.8 (0.18)	
UR 15	UR	15	0.3	4.5	9	2.6 (0.27)	
UR 20	UR	20	0.3	4.5	12	3.5 (0.36)	
UR 25	UR	25	0.32	6.4	15	4.4 (0.45)	
UR 30	UR	30	0.32	6.4	18	5.3 (0.54)	
UR 35	UR	35	0.35	9.8	21	6.2 (0.63)	
UR 40	UR	40	0.35	9.8	24	7.1 (0.72)	
UR 4-5	UR	4-5	0.26	1.4	3	0.9 (0.09)	
UR 10	UR	10	0.29	2	6	1.8 (0.18)	
UR 15	UR	15	0.32	3	9	2.6 (0.27)	
UR 20	UR	20	0.38	6.1	12	3.5 (0.36)	
UR 25	UR	25	0.38	6.1	15	4.4 (0.45)	
UR 30	UR	30	0.40	8	18	5.3 (0.54)	
UR 35	UR	35	0.40	8	21	6.2 (0.63)	
UR 40	UR	40	0.45	14.4	24	7.1 (0.72)	
UR 45	UR	45	0.45	14.4	27	7.9 (0.81)	
UR 50	UR	50	0.45	14.4	30	8.8 (0.9)	
UR 6-5	UR	6-5	0.5	2.3	36	10.6 (1.08)	
UR 10	UR	10	0.3	1.65	3	0.9 (0.09)	
UR 15	UR	15	0.35	2.71	6	1.8 (0.18)	
UR 20	UR	20	0.38	3.61	9	2.6 (0.27)	
UR 25	UR	25	0.38	3.61	12	3.5 (0.36)	
UR 30	UR	30	0.45	7.43	15	4.4 (0.45)	
UR 35	UR	35	0.45	7.43	18	5.3 (0.54)	
UR 40	UR	40	0.5	12.25	21	6.2 (0.63)	
UR 45	UR	45	0.5	12.25	24	7.1 (0.72)	
UR 50	UR	50	0.5	12.25	27	7.9 (0.81)	
UR 60	UR	60	0.55	19.53	30	8.8 (0.9)	
UR 70	UR	70	0.55	19.53	36	10.6 (1.08)	
UR 80	UR	80	0.55	11	21	6.2 (0.63)	
UR 40	UR	40	0.55	11	24	7.1 (0.72)	
UR 45	UR	45	0.6	17.4	27	7.9 (0.81)	
UR 50	UR	50	0.6	17.4	30	8.8 (0.9)	
UR 60	UR	60	0.65	23.4	36	10.6 (1.08)	
UR 70	UR	70	0.65	23.4	42	12.4 (1.26)	
UR 8-10	UR	8-10	0.45	2.6	6	1.8 (0.18)	
UR 15	UR	15	0.5	3.6	9	2.6 (0.27)	
UR 20	UR	20	0.5	3.6	12	3.5 (0.36)	
UR 25	UR	25	0.55	5.9	15	4.4 (0.45)	
UR 30	UR	30	0.65	10.4	18	5.3 (0.54)	
UR 35	UR	35	0.65	10.4	21	6.2 (0.63)	
UR 40	UR	40	0.7	15.4	24	7.1 (0.72)	
UR 45	UR	45	0.75	21	22	6.3 (0.66)	
UR 50	UR	50	0.75	21	27	7.8 (0.81)	
UR 60	UR	60	0.8	27.6	31	8.9 (0.93)	
UR 70	UR	70	0.8	27.6	40	11.6 (1.20)	
UR 80	UR	80	0.8	27.6	48	14.1 (1.44)	

⊖ Both ends of UV, UY Type springs are not ground.  
⊖ The values of solid length are for reference only. There may be some variations depending on the lot.  
⊖ Operation Frequency: One million times

# Round Wire Springs

UV / UR / UY / UF: Outer Diameter Selectable, Stainless Steel, continued

UF: Fmax. (Allowable Deflection) = Lx45%

Part Number	Type	D - L	d	Solid Length	F max.	N (kgf) max.	Fa%
UF 2-5*	UF	2-5*	0.2	2.35	2.25	0.66 (0.068)	
UF 10*	UF	10*	0.2	2.35	4.5	1.3 (0.14)	
UF 15*	UF	15*	0.26	7.8	6.7	2.0 (0.20)	
UF 20*	UF	20*	0.26	7.8	9	2.7 (0.27)	
UF 25*	UF	25*	0.29	13.6	11.2	3.3 (0.34)	
UF 30*	UF	30*	0.29	13.6	13.5	4.0 (0.41)	
UF 3-5*	UF	3-5*	0.26	1.8	2.25	1.1 (0.11)	
UF 10*	UF	10*	0.32	3.5	4.5	2.2 (0.22)	
UF 15*	UF	15*	0.32	3.5	6.7	3.2 (0.33)	
UF 20*	UF	20*	0.35	6.3	9	4.4 (0.45)	
UF 25*	UF	25*	0.35	6.3	11.2	5.5 (0.56)	
UF 30*	UF	30*	0.4	12.4	13.5	6.6 (0.67)	
UF 35*	UF	35*	0.4	12.4	15.7	7.6 (0.78)	
UF 40*	UF	40*	0.4	12.4	18	8.8 (0.9)	
UF 4-5*	UF	4-5*	0.32	2	2.25	1.1 (0.11)	
UF 10*	UF	10*	0.35	3	4.5	2.2 (0.22)	
UF 15*	UF	15*	0.4	5.2	6.7	3.2 (0.33)	
UF 20*	UF	20*	0.4	5.2	9	4.4 (0.45)	
UF 25*	UF	25*	0.45	9.5	11.2	5.5 (0.56)	
UF 30*	UF	30*	0.45	9.5	13.5	6.6 (0.67)	
UF 35*	UF	35*	0.5	15.5	15.7	7.6 (0.78)	
UF 40*	UF	40*	0.5	15.5	18	8.8 (0.9)	
UF 45*	UF	45*	0.5	15.5	20	9.8 (1)	
UF 50*	UF	50*	0.5	15.5	22.5	10.8 (1.1)	
UF 60*	UF	60*	0.55	22.6	27	12.7 (1.3)	
UF 5-5*	UF	5-5*	0.35	2.01	2.25	1.1 (0.11)	
UF 10*	UF	10*	0.4	3.2	4.5	2.2 (0.23)	
UF 15*	UF	15*	0.4	3.2	6.75	3.3 (0.34)	
UF 20*	UF	20*	0.45	4.95	9	4.4 (0.45)	
UF 25*	UF	25*	0.45	4.95	11.25	5.5 (0.56)	
UF 30*	UF	30*	0.5	7.75	13.5	6.7 (0.68)	
UF 35*	UF	35*	0.5	7.75	15.75	7.7 (0.79)	
UF 40	UF	40	0.6	19.5	18	8.8 (0.9)	
UF 45	UF	45	0.6	19.5	20.25	10 (1.01)	
UF 50	UF	50	0.6	19.5	22.5	11.2 (1.13)	
UF 60	UF	60	0.65	27.95	27	13.4 (1.35)	
UF 6-5*	UF	6-5*	0.4	2.2	2.25	1.1 (0.11)	
UF 10*	UF	10*	0.5	5	4.5	2.2 (0.22)	
UF 15*	UF	15*	0.55	7.7	6.7	3.2 (0.33)	
UF 20*	UF	20*	0.55	7.7	9	4.4 (0.45)	
UF 25	UF	25	0.6	10.8	11.2	5.5 (0.56)	
UF 30	UF	30	0.65	15.6	13.5	6.6 (0.67)	