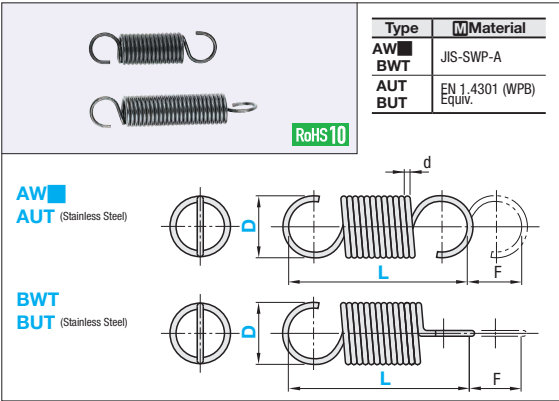


Tension Springs

Medium Heavy Load / Heavy Load Type



Medium Heavy Load Type

Part Number		Wire Dia. dmm	Dynamic Load Max. Deflection Fmax. mm	Max. Load N	Initial Tension N	(Spring Constant) N/mm	Unit Price
Type	D-L						
AWF	3-10	0.45	2.2	6.47	1.57	2.26	
	15		4.5			1.08	
	20		6.7			0.74	
	25		9.1			0.54	
	30		11.4			0.43	
AWF	4-15	0.55	4.5	8.43	1.86	1.47	
	20		7.1			0.93	
	25		10.0			0.66	
	30		12.6			0.52	
	35		15.2			0.43	
AWF	5-15	0.7	3.9	14.71	2.45	3.14	
	20		6.9			1.77	
	25		9.6			1.28	
	30		12.5			0.98	
	35		15.6			0.78	
AWF	6-20	0.9	3.9	23.54	5.88	4.51	
	25		6.0			2.94	
	30		7.8			2.26	
	35		10.0			1.77	
	40		12.0			1.47	
AWF	8-25	1.1	5.8	31.38	6.86	4.23	
	30		8.3			2.94	
	35		10.9			2.26	
	40		13.2			1.86	
	45		15.6			1.57	
AWF	10-30	1.4	6.5	49.03	12.75	5.58	
	35		8.7			4.17	
	40		10.7			3.39	
	45		12.9			2.81	
	50		15.2			2.39	
AWF	12-35	1.8	5.0	83.36	23.54	12.0	
	40		7.0			8.55	
	45		9.0			6.65	
	50		11.0			5.44	
	55		13.0			4.60	

Part Number
AWT10-50

Heavy Load Type * marked dimensions are for AWT and AUT only.

Part Number		Wire Dia. dmm	Dynamic Load Max. Deflection Fmax. mm	Max. Load N	Initial Tension N	(Spring Constant) N/mm	Unit Price	
Type	D-L						AWT BWT	AUT BUT
AWT AUT BWT BUT	3-10	0.5	2.0	8.8	2.16	3.24		
	15		3.7			1.77		
	20		5.2			1.27		
	25		6.8			0.98		
	*30		8.5			0.78		
AWT AUT BWT BUT	4-15	0.6	4.0	11.1	2.55	2.16		
	20		6.4			1.37		
	25		8.4			0.98		
	30		10.9			0.78		
	*35		12.4			0.69		
AWT AUT BWT BUT	5-15	0.8	2.9	20.79	5.1	5.39		
	20		4.6			3.43		
	25		6.4			2.45		
	30		8.4			1.86		
	*35		10.0			1.57		
AWT BWT AUT BUT	6-20	1.0	3.7	33.15	8.6	6.57		
	25		5.3			4.61		
	30		6.9			3.53		
	35		8.3			2.94		
	40		10.0			2.45		
AWT BWT AUT BUT	8-25	1.2	5.3	41.19	9.81	5.88		
	30		7.3			4.31		
	35		9.1			3.43		
	40		11.9			2.65		
	45		13.6			2.35		
AWT BWT AUT BUT	10-30	1.6	5.2	77.47	20.59	10.89		
	35		6.8			8.34		
	40		8.4			6.77		
	45		10.0			5.69		
	50		11.6			4.9		
AWT BWT AUT BUT	12-40	2.0	6.6	120.62	34.3	13.04		
	45		7.7			11.18		
	50		9.4			9.22		
	55		10.5			8.24		
	60		12.1			7.16		
AWT	14-40	2.3	5.8	154.95	45.11	19.02		
	45		7.0			15.99		
	50		8.4			13.14		
	55		9.6			11.47		
	60		10.9			10.1		
AWT	16-50	2.6	7.5	195.15	55.9	18.63		
	55		9.0			15.49		
	60		10.4			13.34		
	65		11.9			11.67		
	70		13.4			10.4		
AWT	18-55	2.9	8.3	236.34	68.65	20.1		
	60		10.0			16.67		
	65		11.6			14.71		
	70		12.5			13.44		
	75		14.1			11.77		
AWT	20-60	3.2	9.2	281.45	82.38	21.57		
	70		11.9			16.67		
	80		14.7			13.53		
	90		17.5			11.38		
	100		20.1			9.9		
AWT	24-80	4.0	11.7	430.51	123.6	26.48		
	90		13.7			22.46		
	100		16.6			18.63		
	125		22.5			13.63		
	150		28.5			10.79		

* Initial tension and spring constant are for reference only. Load (kgf) = Load N x 0.101972