

STOCK PACKAGED ASSORTMENTS AND KITS

28 selections of the most-needed stock springs and stock washers.

- Belleville Spring Washers
- Curved Spring Washers
- Finger Spring Washers
- Wave Spring Washers
- Compression Springs
- Extension Springs
- Torsion Springs
- Constant-Force Springs
- Metric Compression Springs
- Metric Extension Springs

For experimental, development, prototype and maintenance work

Engineers, designers and specifiers of coiled springs and spring washers find these packaged assortments of Associated Spring Raymond items particularly convenient. Repair and maintenance personnel will also find our assortments ideally suited to the upkeep of industrial and production equipment.

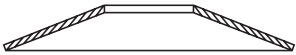
All our assortments are designed to combine our most-needed stock springs or washers in easy-to-use, yet economical kits.



The six-drawer metal chest shown above comes at no additional charge when you order any six assortments, listed on pages 162-170, at one time.

SPEC Assortments are packaged in compartmented metal drawers. Catalog part numbers of all included items are individually listed inside the hinged cover for easy identification and re-order.

Stock Packaged Assortments

STOCK BELLEVILLE SPRINGS WASHERS		STANDARD	ASSORTMENT NO. B-402-AS
Includes 75 items (150 pieces) from our line of SPEC stock Belleville spring washers. Designed to carry high loads in limited space, they can be used singly, in series, in parallel or in series-parallel. Offering good fatigue life, they are made of high-quality spring steel (the S suffix denotes stainless steel).			
			
Includes 2 pieces each of the following part numbers:			
B0187-007	B0375-015	B0562-028	B0875-045
B0187-007-S	B0375-015-S	B0625-022	B0937-045
B0187-010	B0375-018	B0625-022-S	B0937-045-S
B0187-010-S	B0375-019	B0625-032	B0950-047
B0250-009	B0375-020	B0625-032-S	B1000-035
B0250-009-S	B0375-020-S	B0625-047	B1000-035-S
B0250-013	B0437-016	B0625-047-S	B1000-043
B0250-013-S	B0437-020	B0637-032	B1000-050
B0281-010	B0437-022	B0687-034	B1000-050-S
B0281-013	B0437-023	B0750-028	B1000-073
B0281-015	B0499-025	B0750-028-S	B1000-073-S
B0281-015-S	B0500-018	B0750-034	B1125-038
B0312-011	B0500-018-S	B0750-036	B1125-038-S
B0312-011-S	B0500-022	B0750-040	B1125-053
B0312-017	B0500-022-S	B0750-040-S	B1125-053-S
B0312-017-S	B0500-025	B0750-052	B1125-056
B0343-013	B0500-025-S	B0750-056	B1125-056-S
B0343-016	B0500-038	B0750-056-S	B1125-078
B0343-019	B0500-038-S	B0875-031	

STOCK BELLEVILLE SPRINGS WASHERS

HEAVY

ASSORTMENT NO. B-401-AH

Contains 49 different items (98 pieces) of larger size Belleville Spring Washers.

Includes 2 pieces each of the following part numbers:

B1250-040	B1500-060	B1875-086-S	B2500-080
B1250-040-S	B1500-070	B1875-127	B2500-080-S
B1250-051	B1500-070-S	B2000-065	B2500-120
B1250-062	B1500-072	B2000-065-S	B2500-120-S
B1250-062-S	B1500-072-S	B2000-084	B2500-175
B1250-089	B1500-102	B2000-097	B2750-087
B1250-089-S	B1500-107	B2000-097-S	B2750-132
B1262-060	B1500-107-S	B2000-142	B3000-093
B1375-044	B1750-057	B2250-073	B3000-135
B1375-044-S	B1750-057-S	B2250-102	B3000-143
B1375-067	B1750-085	B2250-111	
B1500-045	B1750-085-S	B2250-150	
B1500-045-S	B1875-086	B2250-159	

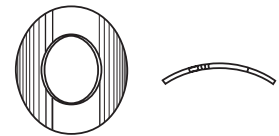
Numbers with suffix "S" are made of stainless steel.

See page 98 for complete information on our Belleville Spring Washers.

STOCK CURVED SPRING WASHERS

ASSORTMENT U-701-A

Combines 65 items (130 pieces). Precision engineered and made of high-quality spring steel (the S suffix denotes stainless steel), our SPEC curved spring washers may be pressed flat without losing free height.



Includes 2 pieces each of the following part numbers:

U093-0045-S	U190-0060-S	U312-0075-S	U437-0180
U093-0056-S	U190-0065-S	U312-0090-S	U437-0210
U125-0040-S	U190-0090-S	U312-0110	U500-0113
U125-0050-S	U190-0113	U312-0130	U500-0140
U125-0060-S	U190-0140	U312-0170	U500-0170
U125-0072-S	U216-0065-S	U312-0210	U500-0180
U125-0075-S	U216-0100-S	U343-0100-S	U500-0210
U125-0088-S	U216-0120	U343-0150	U500-0211
U138-0045-S	U216-0150	U375-0090-S	U562-0120-S
U138-0070-S	U250-0065-S	U375-0100-S	U562-0180
U138-0082-S	U250-0075-S	U375-0110	U625-0140
U138-0100-S	U250-0082-S	U375-0130	U625-0210
U164-0050-S	U250-0110	U375-0150	U750-0160
U164-0075-S	U250-0145	U375-0160	U750-0210
U164-0090-S	U250-0185	U437-0100-S	
U164-0113	U281-0085-S	U437-0120	
U190-0050-S	U281-0120	U437-0150	

Numbers with suffix "S" are made of stainless steel.

See page 110 for complete information on our Curved Spring Washers.

STOCK FINGER SPRING WASHERS

ASSORTMENT F-502-A

Contains 20 items (40 pieces) from our line of SPEC stock finger spring washers. They can be used as take up for large-tolerance variations, anti-rattle applications, end-play eliminators or cushioning devices. Made of high-quality spring steel, all these parts have a finger height of approximately 1/8 inch (3.2 mm).



Includes 2 pieces each of the following part numbers:

F0595-010	F0926-010	F1164-018	F1360-014
F0728-006	F1004-006	F1240-008	F1555-014
F0846-006	F1004-007	F1240-009	F1555-018
F0846-008	F1164-009	F1240-010	F1830-016
F0926-007	F1164-010	F1360-011	F2022-019

See page 118 for complete information on our Finger Spring Washers.

STOCK WAVE SPRING WASHERS

STANDARD

ASSORTMENT W-602-AS

Consists of 35 different items (70 pieces). These parts, made of high-quality spring steel are used where small deflections are needed and axial space is limited, such as ball bearing loading.



Includes 2 pieces each of the following part numbers:

W0183-004-S	W0618-008	W1080-012	W1819-020
W0242-006-S	W0618-008-S	W1102-012	W2028-022
W0305-007-S	W0731-009	W1159-013	W2132-023
W0367-006	W0734-009	W1235-014	W2420-025
W0367-006-S	W0734-009-S	W1351-015	W2645-028
W0484-009	W0855-010	W1543-017	W2816-030
W0492-007	W0855-010-S	W1543-020	W3118-035
W0492-007-S	W0925-010	W1593-018	W3328-036
W0608-008	W1004-011	W1621-019	

STOCK WAVE SPRING WASHERS

HEAVY

ASSORTMENT W-602-AH

Contains 11 different items (22 pieces) for larger applications.

Includes 2 pieces each of the following part numbers:

W3519-038	W4627-047	W5817-055	W6945-063
W3917-042	W4997-050	W6173-058	W7325-065
W4300-045	W5408-053	W6550-061	

Numbers with suffix "S" are made of stainless steel.

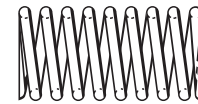
See page 112 for complete information on our Wave Spring Washers.

STOCK COMPRESSION SPRINGS

LIGHT

ASSORTMENT C-102-AL

Includes 84 different items (for a total of 168 pieces) of small compression springs, to be used in many light-duty applications. These parts are made of music wire (stainless steel assortments are available on request).



Includes 2 pieces each of the following part numbers:

C0180-016-0380	C0180-032-0500	C0240-029-0500	C0300-026-0750
C0180-016-0500	C0180-032-1000	C0240-029-1000	C0300-026-1250
C0180-016-0750	C0180-032-2000	C0240-029-2000	C0300-026-2000
C0180-018-0500	C0210-022-0500	C0240-032-0500	C0300-030-0750
C0180-018-0100	C0210-022-0880	C0240-032-1000	C0300-030-1250
C0180-018-1500	C0210-022-1500	C0240-032-2000	C0300-030-2000
C0180-020-0500	C0210-026-0500	C0240-035-0620	C0300-032-0750
C0180-020-1000	C0210-026-1000	C0240-035-1250	C0300-032-1250
C0180-020-1500	C0210-026-1500	C0240-035-2000	C0300-032-2000
C0180-022-0500	C0240-020-0500	C0240-038-0750	C0300-038-0750
C0180-022-1000	C0240-020-1000	C0240-038-1250	C0300-038-1500
C0180-022-1500	C0240-020-1750	C0240-038-2000	C0300-038-2000
C0180-024-0500	C0240-022-0500	C0240-040-0750	C0300-040-0750
C0180-024-1000	C0240-022-1000	C0240-040-1250	C0300-040-1500
C0180-024-1500	C0240-022-2000	C0240-040-2000	C0300-040-2000
C0180-026-0500	C0240-024-0500	C0240-042-0750	C0300-042-0750
C0180-026-1000	C0240-024-1000	C0240-042-1500	C0300-042-1500
C0180-026-1500	C0240-024-2000	C0240-042-2500	C0300-042-2250
C0180-029-0500	C0240-026-0500	C0300-022-0750	C0300-045-0750
C0180-029-1000	C0240-026-1000	C0300-022-1250	C0300-045-1500
C0180-029-1500	C0240-026-2000	C0300-022-2000	C0300-045-2250

STOCK COMPRESSION SPRINGS

MEDIUM

ASSORTMENT C-102-AM

Consists of 84 items (for a total of 168 pieces) of compression springs in popular sizes for medium-duty applications. These parts are made of music wire (stainless steel assortments are available on request).

Includes 2 pieces each of the following part numbers:

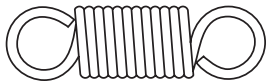
C0360-026-0750	C0360-032-1500	C0360-038-2000	C0360-045-0750
C0360-026-1500	C0360-032-2000	C0360-040-0750	C0360-045-1250
C0360-026-2000	C0360-035-0750	C0360-040-1500	C0360-045-2000
C0360-029-0500	C0360-035-1250	C0360-040-2000	C0390-043-0750
C0360-029-1250	C0360-035-2000	C0360-042-0750	C0390-043-1000
C0360-029-1750	C0360-038-0750	C0360-042-1250	C0390-043-1750
C0360-032-0750	C0360-038-1250	C0360-042-2000	C0390-047-0750



STOCK COMPRESSION SPRINGS		MEDIUM	ASSORTMENT C-102-AM
C0390-047-1000	C0455-039-0500	C0480-045-2000	C0600-045-1500
C0390-047-1750	C0455-039-1000	C0480-051-0750	C0600-045-2000
C0420-038-0750	C0455-039-1750	C0480-051-1250	C0600-049-1250
C0420-038-1000	C0455-046-0500	C0480-051-2000	C0600-049-2000
C0420-038-1750	C0455-046-1000	C0480-055-0750	C0600-049-2500
C0420-042-0750	C0455-046-1750	C0480-055-1250	C0600-055-1000
C0420-042-1000	C0480-038-0750	C0480-055-2000	C0600-055-1750
C0420-042-2000	C0480-038-1250	C0480-059-0750	C0600-055-2500
C0420-045-0500	C0480-038-2000	C0480-059-1250	C0600-059-1000
C0420-045-1000	C0480-042-0750	C0480-059-2000	C0600-059-2000
C0420-045-1500	C0480-042-1250	C0480-063-1000	C0600-059-2500
C0420-055-0500	C0480-042-2000	C0480-063-1500	C0600-063-1000
C0420-055-1000	C0480-045-0750	C0480-063-2000	C0600-063-2000
C0420-055-2000	C0480-045-1250	C0600-045-1000	C0600-063-2500

STOCK COMPRESSION SPRINGS		HEAVY	ASSORTMENT C-102-AH
Contains 61 different items (122 pieces) of compression springs designed for relatively heavy-duty applications. These parts are made of music wire (stainless steel assortments are available on request).			
Includes 2 pieces each of the following part numbers:			
C0600-067-1000	C0720-067-1500	C0850-085-2000	C1100-105-1500
C0600-067-1500	C0720-067-2000	C0975-074-1000	C1100-105-2000
C0600-067-2000	C0720-072-1000	C0975-074-1500	C1100-112-1000
C0600-072-1000	C0720-072-1500	C0975-074-2000	C1100-112-1500
C0600-072-1500	C0720-072-2000	C0975-085-1000	C1100-112-2000
C0600-072-2000	C0850-068-1000	C0975-085-1500	C1225-096-1000
C0720-055-1000	C0850-068-1500	C0975-085-2000	C1225-096-1500
C0720-055-1500	C0850-068-2000	C0975-092-1000	C1225-105-1000
C0720-055-2000	C0850-074-1000	C0975-092-1500	C1225-105-1500
C0720-063-1000	C0850-074-1500	C0975-092-2000	C1225-112-1000
C0720-063-1500	C0850-074-2000	C0975-096-1500	C1225-112-1500
C0720-063-2000	C0850-081-1000	C0975-096-2000	C1225-125-1000
C0720-065-1000	C0850-081-1500	C1100-085-1500	C1225-125-1500
C0720-065-1500	C0850-081-2000	C1100-085-2000	
C0720-065-2000	C0850-085-1000	C1100-096-1500	
C0720-067-1000	C0850-085-1500	C1100-096-2000	

See page 4 for complete information on our Compression Springs.

STOCK EXTENSION SPRINGS		LIGHT	ASSORTMENT E-202-AL
Contains 56 items (112 pieces) of small extension springs useful in most light-duty applications. These parts are made of music wire (stainless steel assortments are available on request).			
Includes 2 pieces each of the following part numbers:			
E0180-022-1000	E0240-029-2250	E0300-049-1500	E0360-045-1500
E0180-022-1370	E0240-031-1000	E0300-049-2500	E0360-045-2000
E0180-022-2000	E0240-031-1500	E0360-031-1000	E0360-045-3000
E0180-026-1000	E0240-031-2500	E0360-031-1250	E0360-045-4500
E0180-026-1370	E0240-034-1000	E0360-031-1750	E0360-049-1000
E0180-026-2000	E0240-034-1500	E0360-037-1000	E0360-049-2000
E0180-031-1000	E0240-034-2500	E0360-037-1500	E0360-049-3000
E0180-031-1500	E0240-037-1000	E0360-037-2500	E0360-049-4000
E0180-031-2500	E0240-037-1500	E0360-041-1000	E0360-049-5000
E0240-026-1000	E0240-037-2500	E0360-041-1500	E0360-055-1000
E0240-026-1500	E0300-037-1000	E0360-041-2000	E0360-055-2000
E0240-026-2500	E0300-037-1500	E0360-041-2500	E0360-055-3000
E0240-029-1000	E0300-037-2500	E0360-041-3000	E0360-055-4000
E0240-029-1500	E0300-049-1000	E0360-045-1000	E0360-055-5000

See page 64 for complete information on our Extension Springs.

STOCK EXTENSION SPRINGS**MEDIUM****ASSORTMENT E-202-AM**

Includes 43 different items (86 pieces) of extension springs designed for use in medium-duty applications. These parts are made of music wire (stainless steel assortments are available on request).

Includes 2 pieces each of the following part numbers:

E0420-037-1000	E0500-041-1250	E0500-063-2000	E0650-069-4000
E0420-037-1500	E0500-041-1500	E0500-063-3000	E0750-055-2000
E0420-037-2000	E0500-041-2250	E0500-063-4000	E0750-055-2500
E0420-037-3000	E0500-045-1500	E0650-055-2000	E0750-055-3500
E0420-055-1000	E0500-045-2000	E0650-055-3000	E0750-063-2000
E0420-055-1500	E0500-045-2500	E0650-055-4000	E0750-063-3000
E0420-055-2000	E0500-055-1500	E0650-063-2000	E0750-063-4000
E0420-055-3000	E0500-055-2000	E0650-063-3000	E0750-075-2000
E0500-037-1250	E0500-055-3000	E0650-063-4000	E0750-075-3000
E0500-037-1500	E0500-055-4000	E0650-069-2000	E0750-075-4000
E0500-037-2000	E0500-063-1500	E0650-069-3000	

STOCK EXTENSION SPRINGS**HEAVY****ASSORTMENT E-202-AH**

Consists of 28 different item (56 pieces) of extension springs in popular sizes for relatively heavy-duty applications. These parts are made of music wire (stainless steel assortments are available on request).

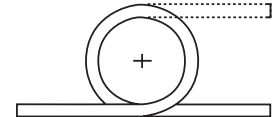
Includes 2 pieces each of the following part numbers:

E0850-055-2000	E0850-075-3000	E1000-063-3250	E1000-095-4000
E0850-055-2500	E0850-075-4000	E1000-075-2500	E1000-095-4500
E0850-055-2750	E0850-085-2500	E1000-075-3000	E1000-105-3000
E0850-063-2250	E0850-085-3000	E1000-075-4000	E1000-105-4000
E0850-063-2750	E0850-085-4000	E1000-085-3000	E1000-105-4500
E0850-063-3500	E1000-063-2500	E1000-085-4000	E1000-115-3000
E0850-075-2500	E1000-063-3000	E1000-095-3000	E1000-115-4000

See page 64 for complete information on our Extension Springs.

STOCK TORSION SPRINGS**ASSORTMENT T-301-A**

Made up of 41 items (164 pieces), this SPEC assortment contains 2 pieces each of left-hand wound and right-hand wound helix directions. All are made of stainless steel, and are particularly useful for experimental, development and replacement work, or relatively small production use.



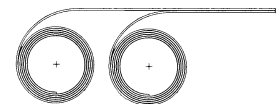
Includes 2 pieces each of the following part numbers:

T012-090-055	T020-180-140	T032-090-172	T048-360-406
T012-180-109	T021-270-109	T032-180-218	T051-090-234
T014-180-078	T021-360-187	T035-180-187	T051-360-406
T014-180-109	T023-270-109	T035-270-281	T054-090-296
T015-270-078	T023-360-172	T038-270-218	T059-360-459
T015-360-109	T025-090-140	T038-360-328	T063-360-516
T017-180-093	T025-180-203	T040-090-187	T070-270-531
T017-270-156	T028-180-140	T040-360-343	T078-360-578
T018-270-109	T028-270-203	T045-090-203	
T018-360-156	T030-270-172	T045-270-359	
T020-090-109	T030-360-250	T048-270-250	

See page 88 for complete information on our Torsion Springs.

STOCK CONSTANT-FORCE SPRINGS**ASSORTMENT CF-1101-A**

Contains 14 items (28 pieces) made of stainless steel.



Includes 2 pieces each of the following part numbers:

CF015-0050	CF030-0237	CF021-0025	CF042-0112
CF018-0075	CF034-0350	CF025-0037	CF048-0162
CF022-0112	CF038-0500	CF030-0050	
CF026-0162	CF043-0700	CF036-0075	

See page 143 for complete information on our Constant Force Springs.



STOCK CONTINUOUS LENGTH SPRINGS

COMPRESSION SPRINGS

ASSORTMENT A-10-R

Consists of 41 different, hard drawn wire compression springs in 10 inch (25 cm) lengths.
See page 96 for additional details.

STOCK CONTINUOUS LENGTH SPRINGS

COMPRESSION SPRINGS

ASSORTMENT A-18-R

Consists of 23 different, hard drawn wire compression springs in 18 inch (45 cm) lengths.
See page 96 for additional details.

STOCK CONTINUOUS LENGTH SPRINGS

EXTENSION SPRINGS

See page 97 for additional details on the following assortments.

- * E0125-E0250
- * E0375-E0625
- * E0625-E1125
- * E017-E120
- * E023-E105

Stock Metric Packaged Assortments

Stock Metric Compression and Extension Springs

We offer 14 selections of the most popular stock metric compression and extension springs, in either music wire (to DIM 17223C), or stainless steel (to DIN 17224).

Compression spring ends are squared and unground up to a .8mm wire diameter, and squared and ground over a 1.0 mm wire diameter. All dimensions and forces are to DIN 2097 (Grade 2).

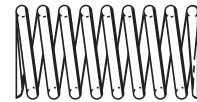
All our springs are coiled right hand, and plain finished with oil.

All these assortments are packaged in compartmented, easy-to-use metal drawers. The following tables indicate the range and number of parts in each drawer.

COMPRESSIONS SPRINGS

ASSORTMENT A58000 (MUSIC WIRE) & ASSORTMENT A68000 (STAINLESS STEEL)

Contains 30 different items (300 pieces)



Wire Size (mm)	Mean Coil Diameter (mm)	Spring Length (mm)	Spring Rate N/mm*	Quantity
0.40	2.00	3.5	9.31	10
0.40	2.00	7.0	3.83	10
0.40	3.20	5.6	2.28	10
0.40	3.20	25.5	0.43	10
0.40	5.00	24.0	0.25	10
0.40	5.00	53.0	0.11	10
0.50	2.50	4.4	11.58	10
0.50	2.50	8.7	4.80	10
0.50	2.50	17.5	2.21	10
0.50	4.00	7.0	2.83	10
0.50	4.00	15.0	1.17	10
0.50	4.00	31.0	0.54	10
0.50	5.00	9.4	1.46	10
0.50	5.00	20.5	0.61	10
0.50	5.00	44.5	0.27	10
0.50	5.00	13.5	0.73	10
0.50	6.30	30.0	0.30	10
0.50	6.30	65.0	0.14	10
0.63	3.20	5.5	14.02	10
0.63	3.20	11.0	5.77	10

TO ORDER: WWW.ASRAYMOND.COM OR SEE PHONE & FAX NUMBERS ON BACK COVER

SPEC

167

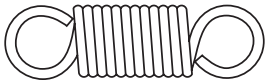
* For stainless steel, multiply by 0.833.

COMPRESSIONS SPRINGS		ASSORTMENT A58000 (MUSIC WIRE) & ASSORTMENT A68000 (STAINLESS STEEL)		
Wire Size (mm)	Mean Coil Diameter (mm)	Spring Length (mm)	Spring Rate N/mm*	Quantity
0.63	3.20	22.5	2.65	10
0.63	5.00	8.5	3.69	10
0.63	5.00	18.5	1.55	10
0.63	5.00	38.5	0.70	10
0.63	8.00	16.0	0.89	10
0.63	8.00	37.0	0.37	10
0.80	4.00	14.0	7.67	10
0.80	5.00	12.0	6.07	10
1.00	5.00	8.5	23.24	10
1.00	6.30	10.0	11.57	10

COMPRESSIONS SPRINGS		ASSORTMENT A58020 (MUSIC WIRE) & ASSORTMENT A68020 (STAINLESS STEEL)		
Contains 12 different items (120 pcs.)				
Wire Size (mm)	Mean Coil Diameter (mm)	Spring Length (mm)	Spring Rate N/mm*	Quantity
0.63	5.00	38.5	0.70	10
0.63	6.30	54.0	0.34	10
0.63	8.00	55.0	0.25	10
0.80	8.00	47.0	0.65	10
0.80	10.00	45.5	0.49	10
1.00	6.30	43.5	2.20	10
1.00	8.00	59.0	1.08	10
1.00	10.00	56.0	0.81	10
1.25	6.30	51.5	5.39	10
1.25	8.00	47.5	3.96	10
1.25	10.00	44.5	2.92	10
1.60	8.00	45.0	10.40	10

COMPRESSIONS SPRINGS		ASSORTMENT A58040 (MUSIC WIRE) & ASSORTMENT A68040 (STAINLESS STEEL)		
Contains 21 different items (200 pcs.)				
Wire Size (mm)	Mean Coil Diameter (mm)	Spring Length (mm)	Spring Rate N/mm*	Quantity
0.50	6.30	65.0	0.14	12
0.63	4.00	29.0	1.35	12
0.80	6.30	48.0	0.90	12
0.80	8.00	68.0	0.44	12
0.80	10.00	96.5	0.23	12
1.00	8.00	59.0	1.08	12
1.00	10.00	39.0	1.20	12
1.00	10.00	81.5	0.55	6
1.00	12.50	115.0	0.28	12
1.25	6.30	51.5	5.39	12
1.25	8.00	69.0	2.69	12
1.25	10.00	93.5	1.34	6
1.25	12.50	62.5	1.40	12
1.60	8.00	65.5	7.05	12
1.60	16.00	34.0	4.64	10
1.60	16.00	165.0	0.88	3
1.60	20.00	240.0	0.45	6
2.00	10.00	38.5	19.22	10
2.00	16.00	145.0	2.16	6
2.00	20.00	200.0	1.10	3
2.00	25.00	290.0	0.50	6

* For stainless steel, multiply by 0.833.

EXTENSION SPRINGS		ASSORTMENT A58010 (MUSIC WIRE) & ASSORTMENT A68010 (STAINLESS STEEL)			
Contains 30 different items (300 pieces)					
					
Wire Size (mm)	Mean Coil Diameter (mm)	Spring Length (mm)	Spring Rate N/mm*	Initial Tension Ref. N	Quantity
0.50	2.00	15.4	3.19	2.4	10
0.50	3.00	17.0	0.94	1.9	10
0.50	3.00	24.5	0.59	1.8	10
0.50	5.00	15.7	0.31	1.3	10



EXTENSION SPRINGS			ASSORTMENT A58010 (MUSIC WIRE) & ASSORTMENT A68010 (STAINLESS STEEL)		
Wire Size (mm)	Mean Coil Diameter (mm)	Spring Length (mm)	Spring Rate N/mm*	Initial Tension Ref. N	Quantity
0.50	5.00	27.7	0.13	1.0	10
0.50	5.00	37.7	0.09	0.7	10
0.55	2.25	12.1	5.11	2.8	10
0.55	2.25	17.0	3.27	2.8	10
0.55	2.95	13.2	2.27	2.3	10
0.55	2.95	26.4	0.90	2.5	10
0.55	5.45	17.2	0.36	1.4	10
0.55	5.45	30.4	0.15	1.1	10
0.63	2.37	13.5	7.51	4.0	10
0.63	2.37	19.2	4.81	4.0	10
0.63	3.87	15.9	1.73	2.7	10
0.63	3.87	31.0	0.70	2.5	10
0.63	6.37	25.6	0.25	1.8	10
0.70	4.30	24.0	1.23	6.4	10
0.70	6.80	21.7	0.49	2.2	10
0.70	6.80	38.5	0.20	1.9	10
0.80	3.20	17.4	8.00	5.8	10
0.80	4.70	19.8	2.50	4.7	10
0.80	4.70	27.0	1.60	4.6	10
0.80	4.70	39.0	1.00	4.6	10
0.80	8.20	32.6	0.30	3.0	10
0.80	8.20	60.6	0.13	2.4	10
0.90	3.60	19.6	8.69	7.4	10
0.90	5.40	30.6	1.70	5.5	10
1.00	4.00	21.8	9.90	9.3	10
1.00	6.00	25.0	2.94	6.8	10

EXTENSION SPRINGS **ASSORTMENT A58030 (MUSIC WIRE) & ASSORTMENT A68030 (STAINLESS STEEL)**

Contains 12 different items (120 pcs.)

Wire Size (mm)	Mean Coil Diameter (mm)	Spring Length (mm)	Spring Rate N/mm*	Initial Tension Ref. N	Quantity
0.63	6.37	47.6	0.11	1.2	10
0.70	6.80	52.5	0.13	2.3	10
0.80	4.70	27.0	1.60	4.6	10
0.80	8.20	44.6	0.19	2.7	10
0.80	8.20	60.6	0.13	2.4	10
0.90	9.10	28.4	0.55	3.7	10
1.00	10.00	55.4	0.26	3.9	10
1.20	7.30	59.0	1.35	9.3	10
1.20	11.80	48.2	0.51	6.6	10
1.40	5.60	43.1	8.91	16.9	10
1.40	8.60	35.3	3.83	12.7	10
1.60	6.40	49.3	10.20	21.6	10

EXTENSION SPRINGS **ASSORTMENT A58050 (MUSIC WIRE) & ASSORTMENT A68050 (STAINLESS STEEL)**

Contains 25 different items (200 pcs.)

Wire Size (mm)	Mean Coil Diameter (mm)	Spring Length (mm)	Spring Rate N/mm*	Initial Tension Ref. N	Quantity
0.70	4.30	34.5	0.77	3.9	12
0.80	4.70	39.0	1.00	4.6	12
0.80	4.70	290.0	0.11	5.5	12
0.80	8.20	60.6	0.13	2.4	12
0.90	9.10	68.0	0.15	3.3	3
1.00	6.00	49.0	1.18	6.7	12
1.00	6.00	290.0	0.18	5.7	6
1.00	10.00	75.4	0.17	4.3	12
1.10	10.90	44.3	0.46	5.4	12
1.20	7.30	59.0	1.35	9.3	12
1.20	7.30	290.0	0.24	6.8	3
1.20	11.80	66.2	0.32	6.4	12
1.20	11.80	90.2	0.21	6.9	6
1.40	8.60	68.9	1.54	12.4	12
1.40	8.60	290.0	0.32	13.2	3
1.40	13.60	43.3	0.97	8.6	9
1.60	9.40	54.1	3.22	16.7	3
1.60	9.40	78.1	2.01	17.0	12


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* For stainless steel, multiply by 0.833.

EXTENSION SPRINGS		ASSORTMENT A58050 (MUSIC WIRE) & ASSORTMENT A68050 (STAINLESS STEEL)			
Wire Size (mm)	Mean Coil Diameter (mm)	Spring Length (mm)	Spring Rate N/mm*	Initial Tension Ref. N	Quantity
1.60	15.40	87.7	0.46	11.0	6
1.80	10.20	290.0	0.68	22.0	3
1.80	18.20	56.8	1.11	12.6	2
2.00	12.00	50.0	5.88	25.2	6
2.00	12.00	98.0	2.35	25.4	6
2.50	25.50	139.0	0.60	23.8	6
3.20	18.80	156.0	4.02	57.0	6

* For stainless steel, multiply by 0.833.

COMPRESSION AND EXTENSION SPRINGS		ASSORTMENT A58060 (MUSIC WIRE) & ASSORTMENT A68060 (STAINLESS STEEL)			
Contains 41 different items (200 pieces)					
					
Wire Size (mm)	Mean Coil Diameter (mm)	Spring Length (mm)	Spring Rate N/mm*	Initial Tension Ref. N	Quantity
0.80	8.00	47.0	0.65	Compression	6
0.80	8.00	68.0	0.44	Compression	6
0.80	10.00	45.5	0.49	Compression	3
0.80	10.00	96.5	0.23	Compression	6
1.00	8.00	59.0	1.08	Compression	6
1.00	10.00	81.5	0.55	Compression	3
1.00	12.50	55.5	0.61	Compression	6
1.00	12.50	115.0	0.28	Compression	6
1.25	8.00	69.0	2.69	Compression	6
1.25	12.50	130.0	0.69	Compression	6
1.25	16.00	205.0	0.32	Compression	3
1.60	8.00	65.5	7.05	Compression	6
1.60	10.00	40.5	7.87	Compression	6
1.60	12.50	115.0	1.84	Compression	3
1.60	20.00	240.0	0.45	Compression	3
2.00	10.00	18.0	46.60	Compression	6
2.00	10.00	38.5	19.20	Compression	6
2.00	12.50	49.5	9.81	Compression	6
2.00	20.00	200.0	1.10	Compression	6
0.50	3.00	290.0	0.05	1.5	6
0.70	4.30	34.5	0.77	3.6	6
0.80	4.70	39.0	0.10	4.6	6
0.80	4.70	290.0	0.11	5.5	6
0.80	8.20	60.6	0.13	2.4	6
0.90	9.10	68.0	0.15	3.3	2
1.00	6.00	49.0	1.18	6.7	6
1.00	6.00	290.0	0.18	5.7	6
1.00	10.00	75.4	0.17	4.3	6
1.20	7.30	59.0	1.35	9.3	6
1.20	7.30	290.0	0.24	8.8	3
1.20	11.80	66.2	0.32	6.4	6
1.20	11.80	90.2	0.21	6.9	3
1.40	8.60	68.9	1.54	12.5	6
1.40	13.60	43.3	0.97	8.6	6
1.40	13.60	105.0	0.26	8.5	2
1.60	9.40	78.1	2.01	16.9	6
1.60	15.40	120.0	0.30	12.5	2
1.80	10.20	290.0	0.68	2.2	3
1.80	18.20	56.8	1.11	12.6	2
2.00	12.00	50.0	5.88	25.0	3
2.00	12.00	68.0	3.77	25.0	3

* For stainless steel, multiply by 0.833.