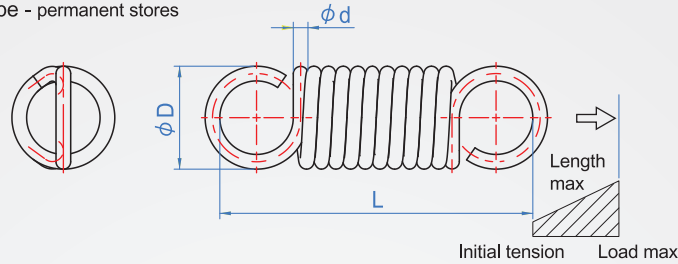
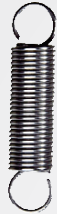


D 11、12、14  
**CA121**

A Type - permanent stores



| Material   | Curl Direction |
|------------|----------------|
| SUS304-WPB | Right          |

**How to order**

CA121 - 11 - 1.2 - 35 - 1.1

TYPE    D    L    d

- ◆D Tolerance value Minimum±0.2mm
- ◆Modulus of elasticity tolerance value Effective curl 3~10=±10%  
Effective curl 10~ =±8%
- ◆Length tolerance value Minimum±0.5mm (JIS 2)

| L                   | D<br>d     | 11   |      |      |      |      | 12    |       |       |       |        | 14   |       |       |       |   | Unit : mm |
|---------------------|------------|------|------|------|------|------|-------|-------|-------|-------|--------|------|-------|-------|-------|---|-----------|
|                     |            | 0.9  | 1    | 1.2  | 1.4  | 1.1  | 1.2   | 1.4   | 1.6   | 1.8   | 2      | 1.4  | 1.5   | 1.6   | 1.8   | 2 |           |
| 30                  | N          | 0.47 | 0.82 | 1.99 | 4.96 | 0.94 | 1.18  | 3.14  | 5.69  | -     | -      | -    | -     | -     | -     | - |           |
|                     | Length max | 28   | 22   | 14   | 8    | 18   | 22    | 12    | 8     | -     | -      | -    | -     | -     | -     | - |           |
| 35                  | N          | 0.33 | 0.59 | 1.51 | 3.24 | 0.67 | 0.93  | 2.35  | 4.12  | 8.55  | -      | -    | -     | -     | -     |   |           |
|                     | Length max | 39   | 30   | 19   | 13   | 25   | 28    | 16    | 12    | 7     | -      | -    | -     | -     | -     |   |           |
| 40                  | N          | 0.24 | 0.42 | 1.08 | 2.56 | 0.67 | 0.93  | 2.35  | 4.12  | 8.55  | 13.04  | 1.57 | 1.94  | 3.53  | 5.69  |   |           |
|                     | Length max | 54   | 43   | 26   | 16   | 25   | 28    | 16    | 12    | 7     | 7      | 23   | 12    | 13    | 10    |   |           |
| 45                  | N          | 0.2  | 0.35 | 0.89 | 2.16 | 0.56 | 0.71  | 1.86  | 3.33  | 6.65  | 11.18  | 1.22 | 1.42  | 2.7   | 4.41  |   |           |
|                     | Length max | 65   | 51   | 32   | 19   | 30   | 37    | 20    | 14    | 9     | 8      | 29   | 17    | 2     | 13    |   |           |
| 50                  | N          | 0.16 | 0.28 | 0.71 | 1.65 | 0.44 | 0.62  | 1.57  | 2.84  | 5.44  | 9.22   | 0.94 | 1.17  | 2.16  | 3.53  |   |           |
|                     | Length max | 81   | 64   | 40   | 25   | 38   | 42    | 24    | 17    | 11    | 9      | 38   | 20    | 21    | 16    |   |           |
| 55                  | N          | 0.14 | 0.25 | 0.63 | 1.52 | 0.37 | 0.52  | 1.27  | 2.45  | 4.6   | 8.24   | 0.79 | 0.97  | 1.77  | 2.94  |   |           |
|                     | Length max | 93   | 71   | 45   | 27   | 45   | 50    | 29    | 20    | 13    | 10     | 45   | 25    | 25    | 20    |   |           |
| 60                  | N          | 0.12 | 0.22 | 0.56 | 1.31 | 0.32 | 0.47  | 1.13  | 2.16  | 4.13  | 7.16   | 0.67 | 0.8   | 1.57  | 2.75  |   |           |
|                     | Length max | 108  | 81   | 50   | 31   | 52   | 55    | 33    | 22    | 14    | 12     | 53   | 30    | 29    | 21    |   |           |
| 65                  | N          | 0.11 | 0.19 | 0.49 | 1.14 | 0.26 | 0.37  | 0.88  | 1.77  | 3.36  | 5.79   | 0.58 | 0.69  | 1.37  | 2.35  |   |           |
|                     | Length max | 118  | 94   | 58   | 36   | 64   | 70    | 42    | 27    | 18    | 15     | 61   | 35    | 33    | 25    |   |           |
| 70                  | N          | 0.10 | 0.17 | 0.45 | 1.02 | 0.22 | 0.31  | 0.74  | 1.47  | 2.81  | 4.9    | 0.52 | 0.64  | 1.18  | 2.06  |   |           |
|                     | Length max | 130  | 105  | 63   | 40   | 76   | 84    | 50    | 33    | 21    | 18     | 68   | 37    | 38    | 28    |   |           |
| 80                  | N          | 0.08 | 0.14 | 0.37 | 0.86 | 0.18 | 0.29  | 0.64  | 1.35  | 2.44  | 4.52   | 0.42 | 0.51  | 0.98  | 1.77  |   |           |
|                     | Length max | 163  | 128  | 76   | 48   | 93   | 90    | 58    | 36    | 25    | 19     | 84   | 47    | 46    | 33    |   |           |
| 100                 | N          | 0.06 | 0.11 | 0.28 | 0.65 | 0.16 | 0.25  | 0.56  | 1.2   | 2.18  | 3.92   | 0.31 | 0.39  | 0.74  | 1.4   |   |           |
|                     | Length max | 217  | 162  | 101  | 63   | 104  | 104   | 66    | 40    | 27    | 22     | 114  | 61    | 61    | 41    |   |           |
| 120                 | N          | -    | -    | -    | -    | -    | -     | -     | -     | -     | -      | 0.24 | 0.35  | 0.55  | 1     |   |           |
|                     | Length max | -    | -    | -    | -    | -    | -     | -     | -     | -     | -      | 147  | 68    | 82    | 58    |   |           |
| Initial tension (N) |            | 1.39 | 2.65 | 4.68 | 10.6 | 2.94 | 5.39  | 10.49 | 14.71 | 23.54 | 34.3   | 6.03 | 8.43  | 13.73 | 16.67 |   |           |
| Load max (N)        |            | 14.4 | 20.5 | 32.9 | 51.7 | 19.6 | 31.37 | 47.7  | 62.76 | 83.36 | 120.62 | 41.4 | 32.24 | 58.84 | 74.53 |   |           |

※Load formula : Modulus of Elasticity(N/mm)xExtension(mm)+Initial tension(N)  
 ※Initial tension,the spring constant of the reference value.  
 ※Calculation of maximum tensile formula : (Load max-Initial tension)÷Spring constant  
 ※Force conversion formula : kgf=Nx0.102

Formula ex. : CA121-12-45-1.6-A  
 Length 45 (ex. tensile 10mm) to load 55  
 load =Modulus× Extension+ Initial tension  
 48.01N=3.33N/mm × 10mm + 14.71N

Kgf=Nx0.102