

Design Data

Design name: RS COMPONENTS
Part number: T32560
Customer:
Design saved: 30/03/2026 13:21
Notes:

Input Data

| | |
|--------------------|------------------------|
| Spring Type | Round Wire Extension |
| Design Standard | Schneider Electric |
| Tolerance Standard | DIN 2097: 1973 |
| End Loop | Machine |
| Loop Diameter | Equal to body diameter |

Material Information

| | | |
|---------------------|------------------|--------------------|
| Material | EN 10270-1 Drawn | |
| Temperature | 20.00 | °C |
| Young's Modulus | 206000 | MPa |
| Rigidity Modulus | 81500 | MPa |
| Density | .00000785 | kg/mm ³ |
| Unprestressed range | 0 - 49 % | |

Design Information

| | | |
|------------------|-------|------|
| Wire diameter | 2.50 | mm |
| Outside diameter | 13.00 | mm |
| Loop diameter | 13.00 | mm |
| Total coils | 25.09 | |
| Spring rate | 13.70 | N/mm |
| Initial tension | 48.48 | N |
| Free length | 77.80 | mm |

Calculated Data

| | | |
|------------------------|--------|-----|
| Estimated free length | 81.23 | mm |
| Initial tension stress | 113 | MPa |
| Body length | 65.23 | mm |
| Body length (max) | 65.88 | mm |
| Correction factor | 1.36 | |
| Spring index | 4.20 | |
| Inside diameter | 8.00 | mm |
| Mean coil diameter | 10.50 | mm |
| Outside diameter | 13.00 | mm |
| Loop inside diameter | 8.00 | mm |
| Loop mean diameter | 10.50 | mm |
| Loop outside diameter | 13.00 | mm |
| Wire length | 876.13 | mm |
| Spring weight | 0.0338 | kg |
| Natural frequency | 19662 | RPM |
| Available deflection | 18.86 | mm |
| Available deflection | 22.39 | mm |
| Available deflection | 22.39 | mm |
| Available deflection | 25.61 | mm |
| Available deflection | 25.61 | mm |

Operating Data

| |
|-------------|
| Length |
| Load |
| Deflection |
| Travel |
| Stress |
| Loop stress |

Stress Data

| | Lower Tensile | % Tensile I.T. |
|----|---------------|----------------|
| SL | 1460 | 8 |
| SM | 1690 | 7 |
| DM | 1690 | 7 |
| SH | 1900 | 6 |
| DH | 1900 | 6 |

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Operating Data

Length
Load
Load tolerance

Spring Drawing

