



19MCB204 - SOLID MECHANICS

close-coiled helical springs





close-coiled helical springs

A Closed Coiled Helical Springs: Designed to resist stretching and twisting, these springs are also known as tension/extension springs. These springs feature an eye or a hook at the end for attachment. These springs can endure stress caused by high torsion or bending







Formulae

HELICAL SPRINGS

- i) close-coiled.
- ii) open. coiled.

Shear Stress Z:

From Torsion Equation.

(ov)

$$T = C \times \frac{T}{16} \times d^3$$





<u>Formulae</u>

Detlection: 8: