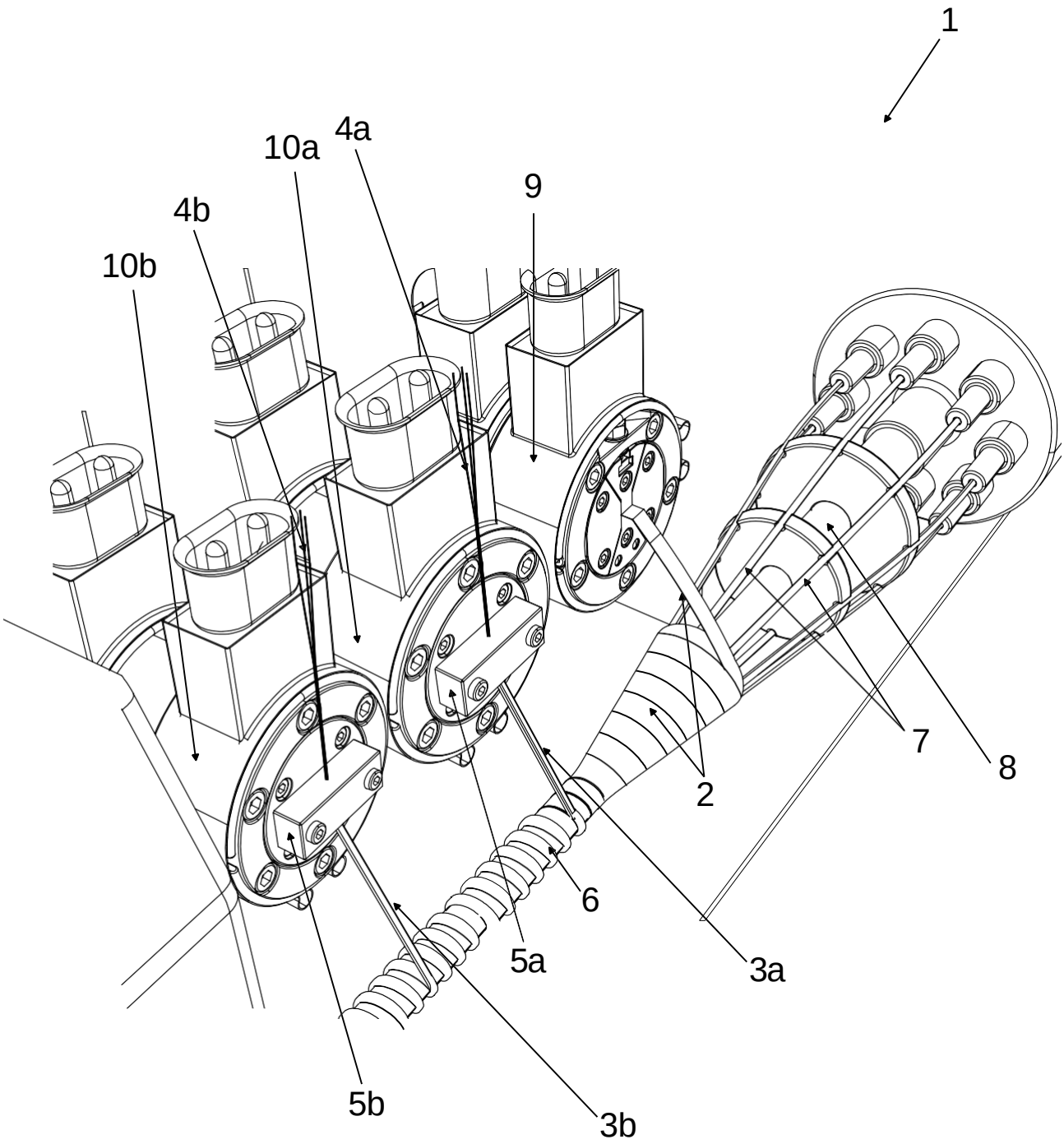


FIGURE 1

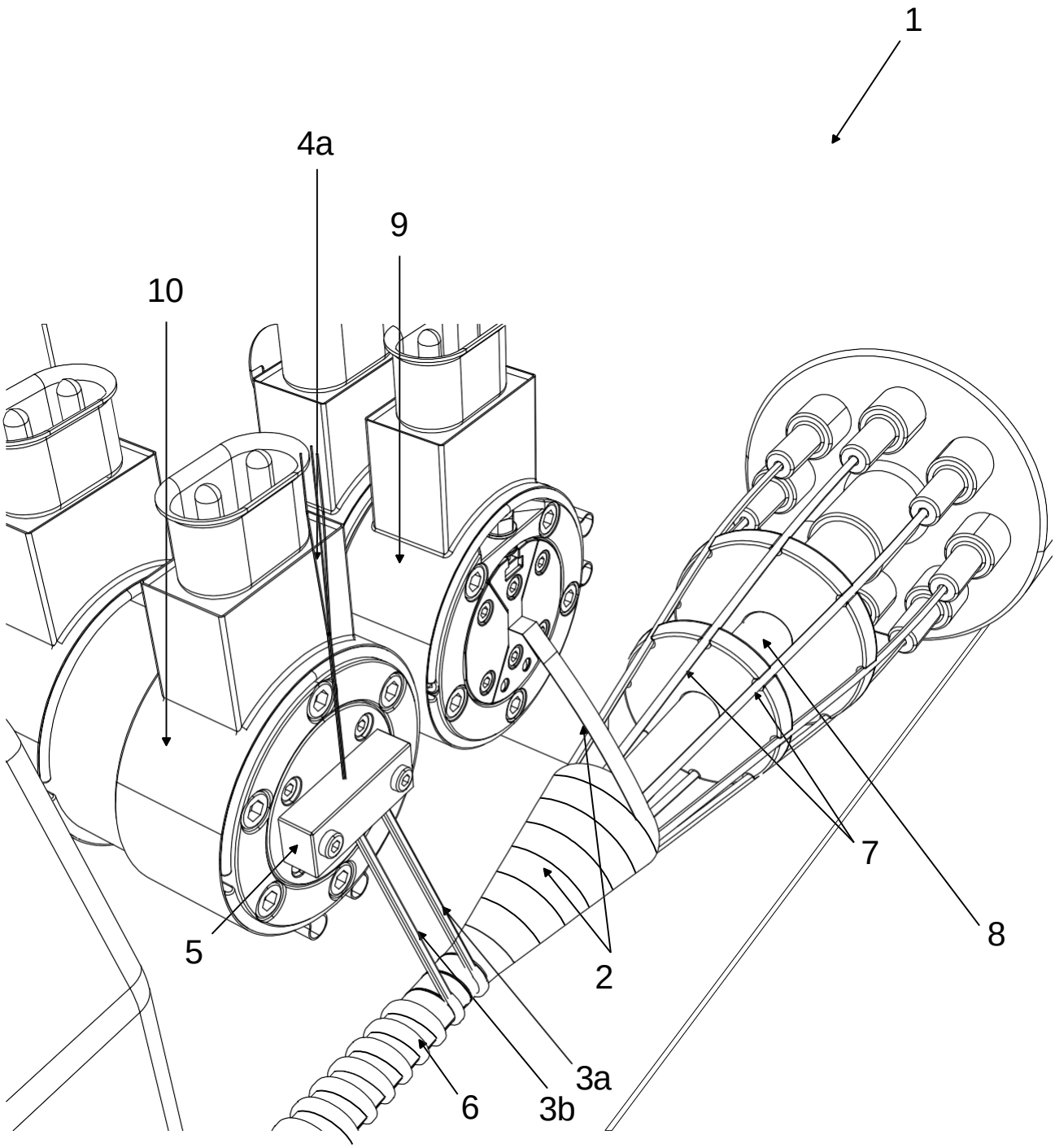


FIGURE 2

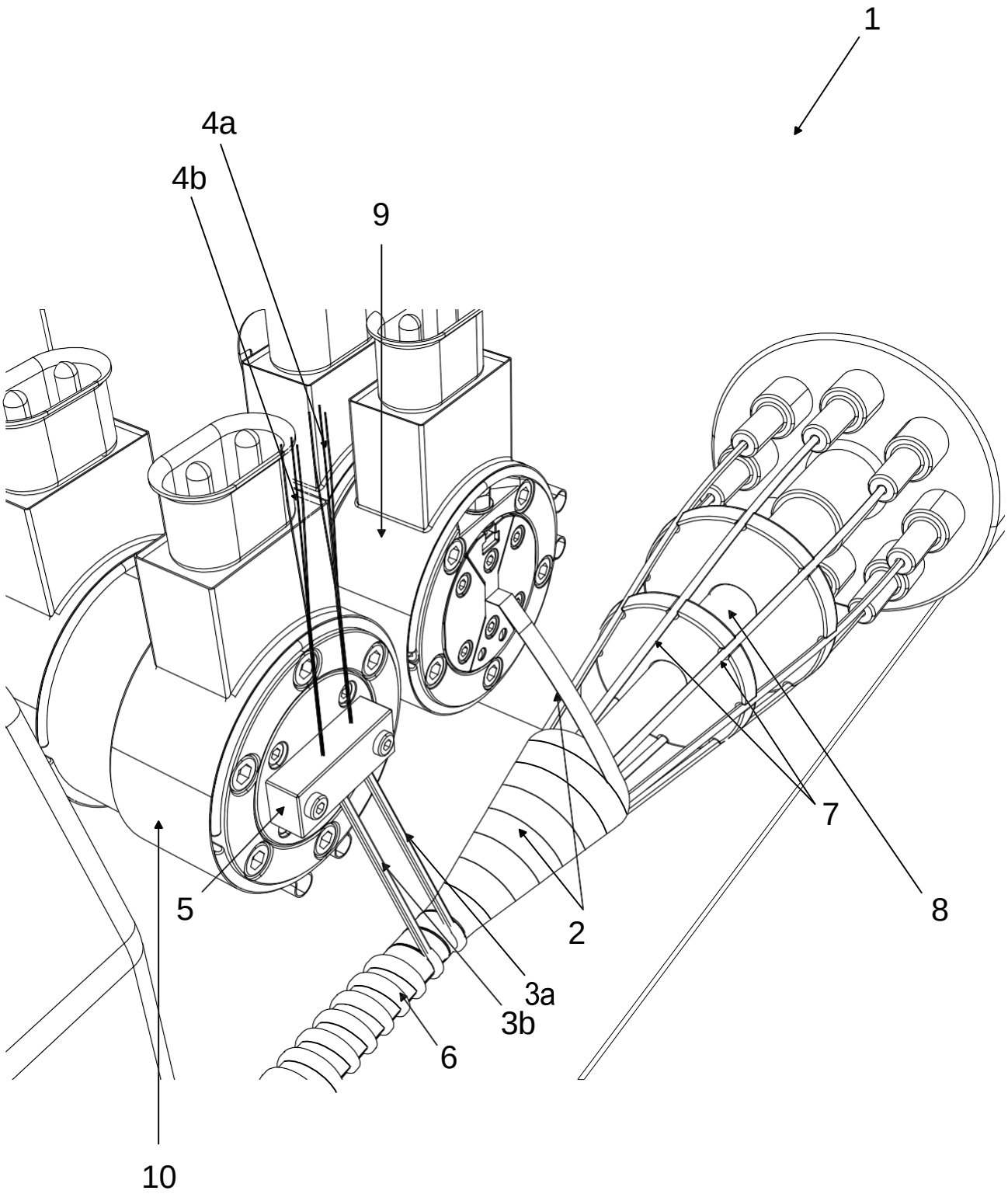


FIGURE 3

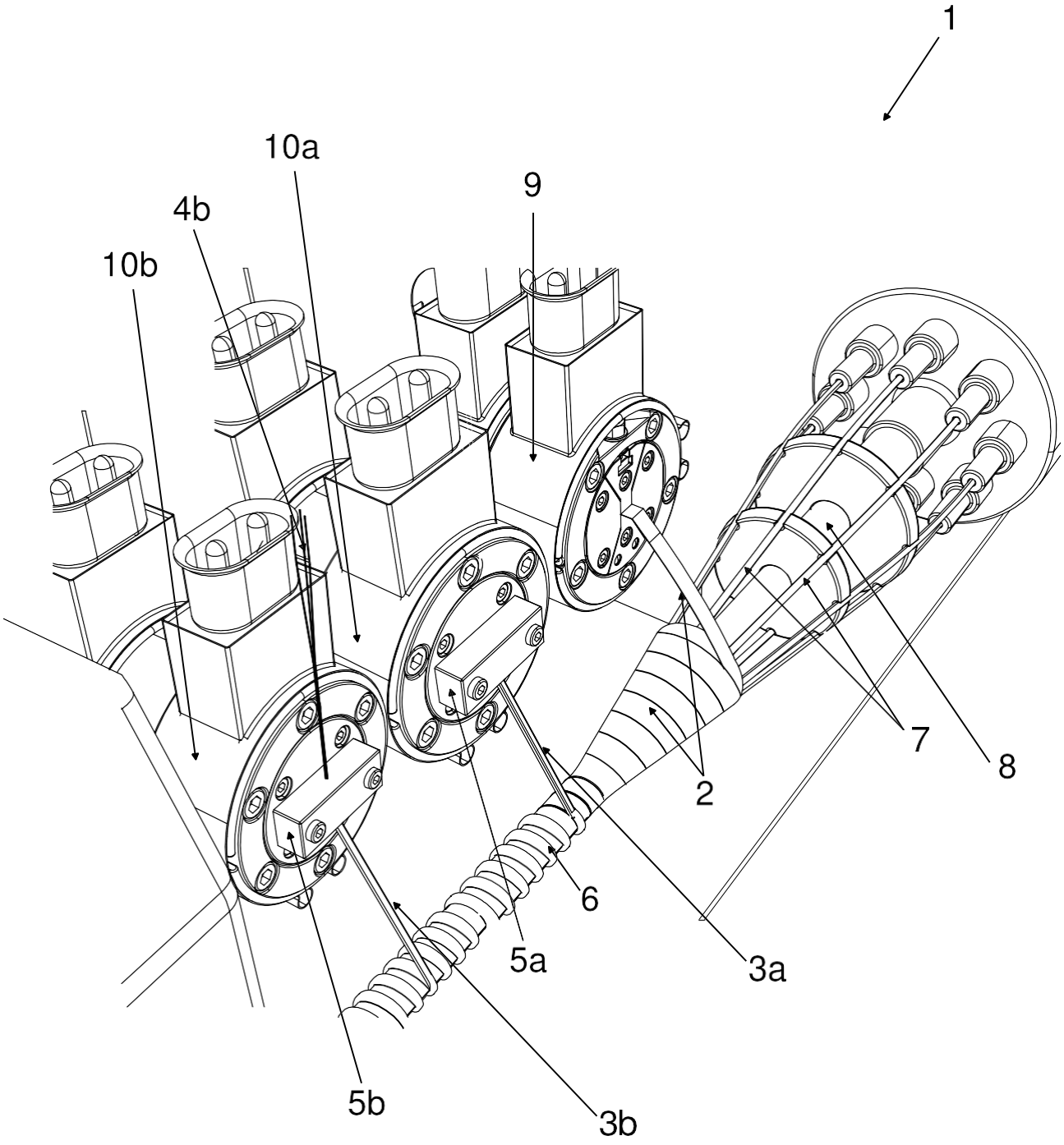


FIGURE 4

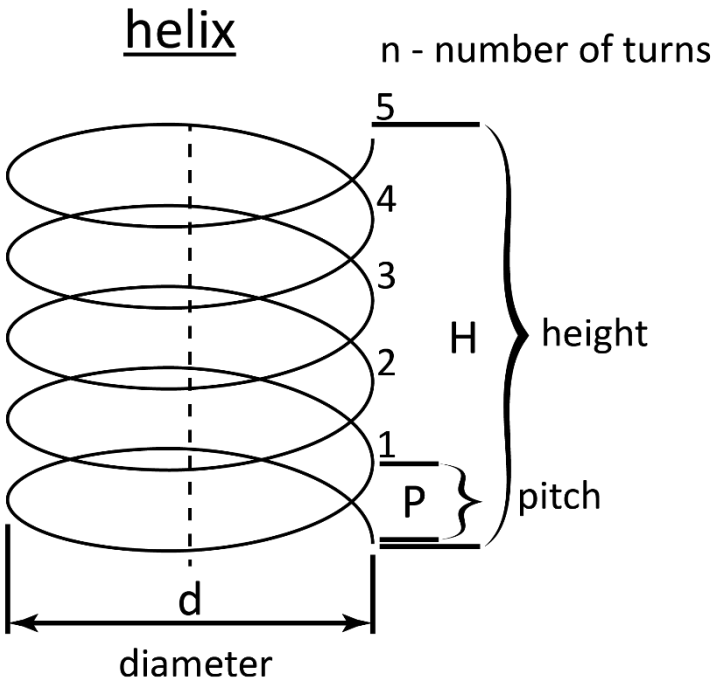
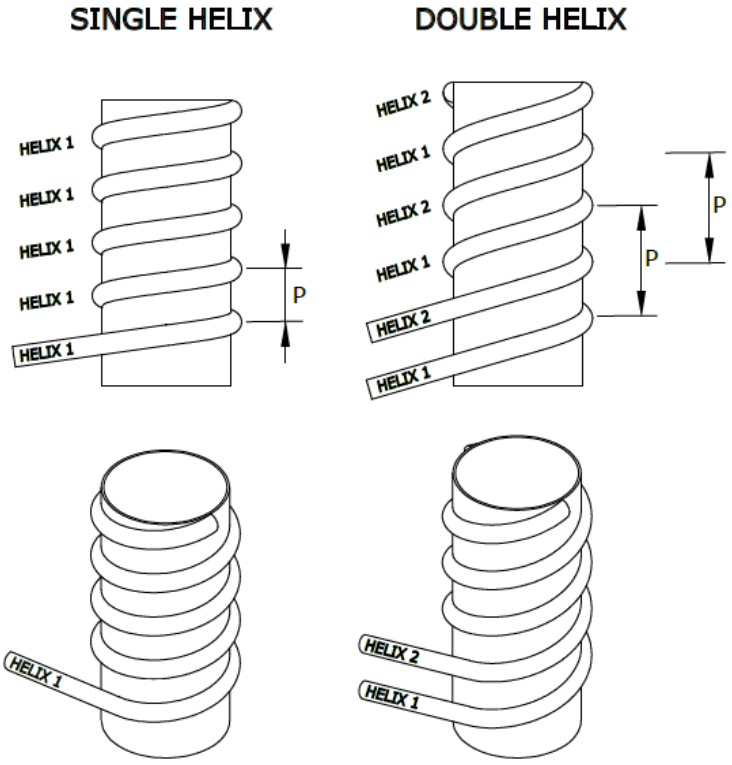


FIGURE 5



Height (H) =	1800mm
Pitch (P) =	5mm
Diameter (D) =	12mm
Helix Length (L) =	**13691mm**

Height (H) =	1800mm
Pitch (P) =	10mm
Diameter (D) =	12mm
Helix Length (L) =	**7021mm**

Saving in conductive wire length	**6670mm**	**49%**

Height (H) =	1800mm
Pitch (P) =	5mm
Diameter (D) =	15mm
Helix Length (L) =	**17060mm**

Height (H) =	1800mm
Pitch (P) =	10mm
Diameter (D) =	15mm
Helix Length (L) =	**8671mm**

Saving in conductive wire length	**8389mm**	**49%**

FIGURE 6

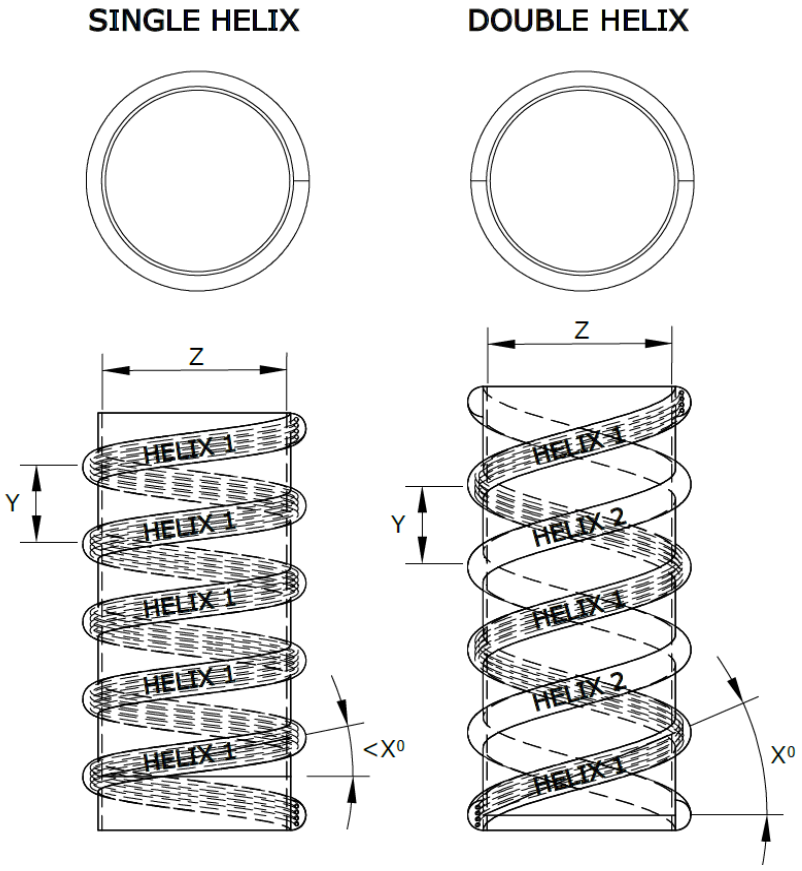
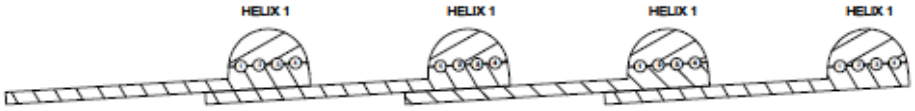
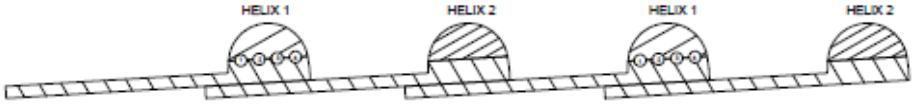

SINGLE HELIX
DOUBLE HELIX
Z
Y
HELIX 1
HELIX 1
HELIX 1
HELIX 1
HELIX 1
<X⁰
Z
Y
HELIX 1
HELIX 2
HELIX 1
HELIX 2
HELIX 1
X⁰

FIGURE 7

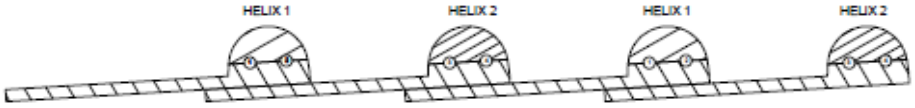
1. Current Single Helix - enamel insulation coated copper wire(s).



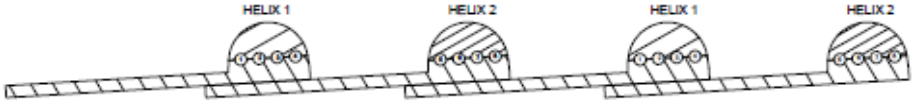
2. Double Helix Baseline Embodiment.



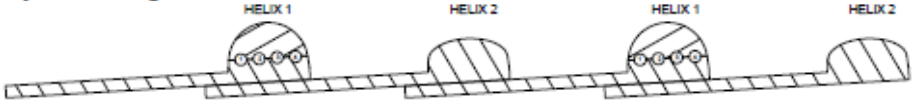
3. Double Helix Alternate Embodiment - copper wire enamel insulation not required.



4. Double Helix Alternate Embodiment - additional wire(s) / circuit(s) for sensors, etc.



5. Double Helix Alternate Embodiment - minimal second helix profile for improved flexibility and drag resistance.



6. Double Helix Alternate Embodiment - hollow helix supported by a central rib / wall for carrying supplemental gas.



FIGURE 8