Profiles and Profiled Wires, bare and insulated for the Winding Technology

### Bare wires round and flat

**Dimensions:** Round wires from 0,30 to 15 mm diameter  
Flat wires up to max. 160 mm²  
**Conductor materials:** Alu 1370, Cu-ETP, Cu-OF, CuAg0.03  
Other alloys on demand  
Plating with tin or silver

### Insulated Stranded Wires, Round or Flat

**Stranded wires round**

**Dimensions:** Sections from 2 to 2'000 mm² Max. insulated diameter 60 mm  
Diameter of a single wire from 0,07 to 3,15 mm  
Thickness of insulation max. 20 mm  
**Conductor materials:** Al 1370, Cu-ETP, Cu-OF  
Other alloys on request

### Insulated Solid Wires, Round or Flat

**Dimensions:** Flat wires  
standard from 4 to 129 mm²  
on request 2,00 x 3,99 to 130 x 160 mm² (max. thickness of 30 mm)  
bundled insulated conductors up to max. 32 mm width  
**Conductor materials:** Alu 1370, Cu-ETP, Cu-OF, CuAg0.03  
Other alloys on request  
Plating with tin or silver  
**Insulating materials:** Kraft paper even or crêped (105°C)  
Polyester film (130°C) Mica/polyester (155°C) Mica/glass fabric (155°C)  
Aramid paper Nomex® 410 (180°C) Polyimide film (220°C)  
**Round wires**  
- from 0,71 to 20 mm diameter  
- other dimensions on request  
These materials also can be covered with a thermo-adherent coating.  
Cotton tape (90°C)  
Glass fabric tape (220°C)
Type of braids

- overlapped layers
- butt-lapped layers
- intercalated-overlapped layers
- intercalated-butt-lapped layers

Combination broadside horizontal

Combination broadside vertical

Combination narrow side

Combination 2 x 2 broadside / narrow side
**Shaped Stranded Wires**

- **Dimensions:** Sections up to max. 700 mm²
  - Max. profile size 40 x 25 mm
  - Diameter of a single wire from 0,07 to 3,15 mm
- **Conductor materials:** Metals: Al 1370, Cu-ETP, Cu-OF
  - Other alloys on request
- **Insulating materials**
  - Kraft paper even or crêped (105°C)
  - Polyester film (130°C)
  - Mica/polyester (155°C)
  - Mica/glass fabric (155°C)
  - Aramide paper Nomex® 410 (180°C)
  - Polyimide film (220°C)
  - These materials also can be covered with a thermo-adherent coating.
  - Cotton tape (90°C)
  - Glass fabric tape (220°C)
  - Covering with threads of cotton (90°C)

**Formed Conductors**

Ready-to-install formed conductors (coils, rotor bars, transformer connexions) can be delivered according to your dimensional drawings.

- **Dimensions:** according to customer specifications (see below)
- **Characteristics:**
  - Closely wound Extreme bending radii
  - Optimized design to facilitate fitting
- **Insulating materials**
  - Metals: Al 1370, Cu-ETP, Cu-OF, CuAg0.03
  - Other alloys on request Plating with tin or silver
  - According to the needs with VPI or Resin Rich Insulation System
  - Possibilities:
    - Min. stretched length of parts 230 mm
    - Max. stretched length of parts 1500 mm
    - Cord max. 700 mm
    - Max. possible profile 20 x 40 mm Angles from 0° to 120°