

Technical Data Sheet

Wooden cable reel — Ø 1800 mm, ANIE format

The reel described in this data sheet is built in compliance with the **ANIE specification for the construction of wooden reels for electric cables** (Associazione Nazionale Industrie Elettriche ed Elettroniche, Cable Group), which sets out its technical/construction characteristics and acceptance tests.

General characteristics

- Spruce timber, quality grade III/IV (Scots pine or larch allowed only for flanges and drum).
- Timber moisture content not exceeding 20%, maximum specific weight 550–600 kg/m³.
- No varnishing or impregnation of the timber.
- Nailing evenly distributed around the flange circumferences, points clinched from the outside.
- Fire-branded manufacturer's mark and year of manufacture on the inner flange surface.

WOODEN CABLE REEL — Ø 1800 mm

Type 18 — large reel, cover disc mandatory

General data

Nominal flange diameter	1800 mm (tolerance +0 / -10 mm)
Maximum overall width	1316 mm
Estimated average weight (empty reel)	330 kg
Maximum cable load	4500 kg
Usable volume — without cover disc	1778 dm ³
Usable volume — with cover disc	1703 dm ³

Flange

Minimum average total thickness	74 mm
Half-flange thickness (inner/outer)	38 / 37 mm
Minimum width of central board	200 mm
Maximum number of boards	11
Flange nailing (size x length)	3.4 x 80 mm
Nominal nailing radii	R1 860 · R2 760 · R3 670 · R4 460 · R5 300 mm

Drum and counter-flanges

Outer diameter of drum seat	1120 mm
Inner diameter of drum seat	1026 mm
Depth of drum seat	10 mm
Nominal stave width	1140 mm (tolerance ±5 mm)
Minimum average stave thickness	47 mm
Stave width (min–max)	100–140 mm
Support counter-flanges	6 sectors, 160 mm height, 23 mm minimum thickness

Axial bore and hub holes

Axial bore diameter	90 mm (tolerance -0/+1 mm)
Hub hole diameter	65 mm
Nominal hub hole radii	E1 250 mm · E2 400 mm

Tie rods and cable closure

Number of tie rods	6
Tie rod bar	M16 x 1295 mm, with 12 M16 nuts
Cupped washers	12 pcs, Ø80 x 2.5 mm
Cover disc (mandatory from Ø1600 upward)	outer diameter 1560 mm, inner 1120 mm
Cover disc — height	220 mm
Cable-tie holes — bolt-circle diameter / hole diameter	1660 / 18 mm, 80 mm spacing
Bushing tube	Ø88.9 x 3.2 mm, 83 mm inner diameter, 80 mm length
Square plate	200 mm side, 4 mm thickness, 150 mm hole spacing
Plate fixing	8 M10x80 bolts with M10 self-locking nuts

Note: for reels of type 16 and above, the ANIE specification requires the use of the cover disc instead of the cable-entry hole.