MAT 2000 T

Cable holding device with electrical elevation system

The MAT2000T is used to determine the electrical cable resistance per 1000 m (US model per 1000 ft) of high- and mid- range power cables without cutting the cable. Using the 4 pole measuring technique according to Kelvin, all line resistances eliminated. The measuring current is established via pneumatically operated chuck jaws, measuring voltage is picked-up via spring-supported taps.

The current jaws and thus the current feeding points are arranged at a sufficient distance to the taps in accordance with DIN/IEC to ensure a constant and uniform distribution of the current across the actual measuring distance.

The MAT2000T is capable of measuring cables during manufacturing process by connecting the device directly to the cable where it is reeled up. The MAT2000T is then placed underneath the cable, the electrical elevation system lifts the holding device into the corresponding cable height and stops automatically. Furthermore, the holding device is swingable vertically to support different cable angles.

After closing the safety covers, the pneumatic chuck jaws are activated and the measurement can be started using the built in **Microohmmeter MR 302 C-A.**

The MAT2000T has a built in IR-temperature probe which determines the cable temperature during measurement. The Microohmmeter MR 302 C-A then recalculates the measuring result back to 20 °C. After that, the cable resistance per 1000 m (US model 1000 ft) is shown on the display.

Using a pneumatic controlled system the test object is fixed automatically inside the holding device. Three chuck jaws are used to maintain a tight fit and a stable contact during measurement.

For safety operation two covers are mounted on top of the holding device. The pneumatic chuck jaws are only operateable when these covers are closed. If one or both of the covers are opened during measurement, the pressure is released immediately.

A calibrated massive Cu testrod with known TK can be used to control measuring resolution including temperature measure-ment.



Technical Data:

Measuring length (internal) 1200 mm Test object length > 1200 mm Cable diameters 100 mm² - 800 mm²

Measuring current 20 A max.

Power supply 230 V AC or 115 V AC (MR302C-A)
Accumulator operation with built in loading

System (elevating system)

Pneumatic

Nominal pressure 8 bar

Test object fixing by switch (open / close)

Security Pressure release when opening covers

High precision holding devices

Pneumatic cable holding device



Features

- Portable system, can be used with any stranding machine.
- Features measurement during cable manufacturing process
- Supports different cable heights and angles
- Microohmmeter MR 302 C-A:
 High resolution Microohmmeter
 featuring IR temperature measurement and recalculation to 1000 m or 1000 ft.
- Software MR302C-A XFER sends measurement values to any Windows[©] application. Including special Excel[®] functions. For Windows[©] 95 / 98 / NT / ME / 2000.
- Cable 4pole, various lengths, banana plugs (4x, red, yellow, green, blue)
- **Testrod** calibrated by DKD (,Deutscher Kalibrierdienst')

Questions?

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