



**Łukasiewicz**  
Instytut  
Elektrotechniki

## **FlexiWarm+ 20 heating cables**

### **Data sheet**



FlexiWarm+ 20 heating cables with carbon fibre conductor, with silicone elastomer insulation in copper wire braid, double-sided powered.

Heating cables are very versatile products due to their wide heating temperature range, high flexibility and light weight. The heating cables can be arranged in the form of lamellas with a large bending radius, coils and strands, as well as being formed into flexible heating mats or encapsulated into rigid panels. Such heating elements can be used in applications of various scales (without direct UV exposure). Only for use in concrete or adhesive mortar.

The braid of the FlexiWarm+ 20 heating element must be earthed in accordance with electrical installation regulations. For FlexiWarm+ 20 cables, it is recommended to protect the system with a residual current device (RCD) with a tripping current of 30 mA.

The heating cables should be supplied with a thermoregulator.

The bending radius of the heating cable should be at least six times its diameter in the case of FlexiWarm+ 20 braided cable.

FlexiWarm+ 20 heating cables comply with IEC 60800:2021.

#### Parameters of the cable

Supply voltage	up to 400 V
Resistance	$20 \begin{smallmatrix} +10\% \\ -5\% \end{smallmatrix} \Omega/m$
Cable diameter	$3,3_{-0,2} mm$
Insulation thickness	$1,14_{-15\%} mm$
Braid thickness	1,00 mm
Minimum section*	12,00 m
Mechanical class	M1
Maximum working temperature	150°C
Maximum temperature permitted in the short term (max 10 min)	200°C

\* The minimum section length is given for a 230 V cable.

