

Technical Description

Wireless Automation

Primary Loop Cable

WPC100



Primary Loop Cable

WPC100

Technical description

Please note the following

Target group

This description is intended for the use of trained specialists in electrical installation and control and automation engineering, who are familiar with the applicable national standards.

Safety requirements

The responsible staff must ensure that the application or use of the products described satisfy all the requirements for safety, including all the relevant laws, regulations, guidelines and standards.

Liability

The documentation has been prepared with care. The products described are, however, constantly under development. For that reason the documentation is not in every case checked for consistency with performance data, standards or other characteristics, and does not represent an assurance of characteristics in the sense of § 459, Para. 2 of the German Civil Code. In the event that it contains technical or editorial errors, we retain the right to make alterations at any time and without warning.

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Primary Loop Cable

WPC100

Technical description

WPC100: Ready-made cables



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Primary Loop Cable

WPC100

Technical description

Purpose and short description

By means of the connected power supplies WPU100, the WPC100 primary loop cables emit a weak 120 kHz electromagnetic field for the supply of wireless devices. Installation in double pairs generates a two-dimensional rotating electromagnetic field in a larger volume.



The cables used for the WPC100-loops are specially designed high-frequency litz wires with double insulation.

Do not use other cables for the loops!

Technical data

Nominal voltage	1000 V AC, suitable for installation according to VDE0100-520
Total diameter	9.4 ± 0.5 mm
Total conductor cross section	6.6 mm ²
Properties	halogen-free, biodiesel-resistant, UV-resistant
Temperature range	-50°C ... +90°C
Current rating	24 A at 120 kHz
Conductor insulation	TPE/U (thermoplastic polyurethane) wall thickness: 1.3 mm color: red
Outer insulation	TPE/U (thermoplastic polyurethane) wall thickness: 1.3 mm color: RAL7000 (gray)
Connection	Ring cable lugs on both sides (x 10 mm, M5 stud)
Bending radius	50 mm (single bend) 150 mm (multiple bend)
Available types	Ready-made cables for connection to the power supplies for wireless position sensors.

Primary Loop Cable

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Technical description

Ordering data

Silicon-free primary loop cable for wireless devices (Wireless-POWER)

Type	Length/m	Weight/kg	Ordering number	EAN number
WPC100-N10	10	1.280	1SAF900800R2100	4013614378089
WPC100-N11	11	1.410	1SAF900800R2110	4013614378614
WPC100-N12	12	1.535	1SAF900800R2120	4013614378638
WPC100-N13	13	1.665	1SAF900800R2130	4013614378652
WPC100-N14	14	1.790	1SAF900800R2140	4013614378683
WPC100-N15	15	1.920	1SAF900800R2150	4013614378690
WPC100-N16	16	2.050	1SAF900800R2160	4013614378706
WPC100-N17	17	2.175	1SAF900800R2170	4013614378713
WPC100-N18	18	2.305	1SAF900800R2180	4013614378720
WPC100-N19	19	2.430	1SAF900800R2190	4013614378737
WPC100-N20	20	2.550	1SAF900800R2200	4013614378744
WPC100-N21	21	2.690	1SAF900800R2210	4013614378751
WPC100-N22	22	2.815	1SAF900800R2220	4013614378768
WPC100-N23	23	2.945	1SAF900800R2230	4013614378775
WPC100-N24	24	3.070	1SAF900800R2240	4013614378782
WPC100-N25	25	3.200	1SAF900800R2250	4013614378799
WPC100-N26	26	3.330	1SAF900800R2260	4013614378805
WPC100-N27	27	3.455	1SAF900800R2270	4013614378812
WPC100-N28	28	3.585	1SAF900800R2280	4013614378829

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