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Connection diagrams for RTD temperature probes and Thermocouples

To ensure uniform wiring of all temperature probes, JUMO manufactures RTD temperature probes and thermocouples according to the JUMO House Standard.

All wiring instructions required for installation are found in the chart below:

Connection diagrams	RTD temperature probes				Thermocouples	
	2-wire	3-wire	4-wire	2x Pt 100	single	double
Standard LEMOSA connectors						
Terminal blocks						

Marking of the stranded conductors on 3-wire and 4-wire RTD temperature probes and 2x Pt and 3x Pt

Generally the stranded conductor dimensions are distinguished by 50 mm and 40 mm length (60 mm for 3x Pt).

2-wire	3-wire	4-wire	2x 3-wire	2x Pt	3x Pt

Color coding on cables

		1x 3-wire	
3-wire cable	Color coding: (to DIN 47100) white, brown, green		
	Color coding: (to VDE 0293-0) black, blue, brown		
	Color coding: red, red/blue, white		
	Color coding: (to IEC 60751) red, red, white		

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Color coding on cables

		1x 3-wire	1x 4-wire	2x Pt
4-wire cable	Color coding: (to DIN 47100) white, brown, green, yellow			
	Color coding: (to VDE 0293-0) black, black, brown, blue			
	Color coding: red, red/blue, white/blue, white			
	Color coding: (to IEC 60751, not for 2x Pt) red, red, white, white			

		1x 3-wire	1x 4-wire	2x Pt
5-wire cable	Color coding: (to DIN 47100) white, brown, green, yellow, grey			

		2x 3-wire	3x Pt
6-wire cable	Color coding: (to DIN 47100) white, brown, green, yellow, grey, pink		
	Color coding: (to VDE 0293-0) black, black, black, red, blue, transparency		
	Color coding: red, red/blue, white/blue, white, blue, blue		

		1x 2-wire and 2x 3-wire	2x 4-wire
8-wire cable	Color coding: red, red/blue, white/blue white, blue, blue, nature, nature		
	Color coding: red, red, black, black yellow, yellow, white, white		