

**JUMO GmbH & Co. KG**  
 Delivery address: Mackenrodtstraße 14  
 36039 Fulda, Germany  
 Postal address: 36035 Fulda, Germany  
 Phone: +49 661 6003-0  
 Fax: +49 661 6003-607  
 Email: mail@jumo.net  
 Internet: www.jumo.net

**JUMO UK LTD**  
 JUMO House  
 Temple Bank, Riverway  
 Harlow, Essex, CM20 2DY, UK  
 Phone: +44 1279 63 55 33  
 Fax: +44 1279 62 50 29  
 Email: sales@jumo.co.uk  
 Internet: www.jumo.co.uk

**JUMO Process Control, Inc.**  
 6724 Joy Road  
 East Syracuse, NY 13057, USA  
 Phone: +1 315 437 5866  
 Fax: +1 315 437 5860  
 Email: info.us@jumo.net  
 Internet: www.jumousa.com



# Connection types of RTD temperature probes and thermocouples

## Connection instructions

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

Connection type	RTD temperature probes				Thermocouples	
	2-wire	3-wire	4-wire	2× 2-wire	Single	Double
Standard LEMOSA connector						
Terminal blocks						
M12 plug connector						

## Marking of the stranded conductors on RTD temperature probes

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

2-wire	3-wire	4-wire	2× 3-wire	2× Pt	3× Pt

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**Color coding of the cables**

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

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

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

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

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