

# Thermocouple extension and compensating cables

## RT-2Y(St)Yv, RT-Y(St)Yv

Works Standard

Single pair, collective screen



Conductor diameter

0.8 mm  
1.02 mm  
1.13 mm  
1.29 mm  
1.38 mm

### Description:

- Solid conductor\* of thermocouple material to table page 48
- Insulation polyvinylchloride Y13 or polyethylene 2Y11 to DIN VDE 0207
- Cores twisted to form a pair
- Colour code: see table page 55
- Wrapping of polyester tapes
- Collective screen of plastic bonded aluminium tape with tinned drain wire 7 x 0.3 mm, approx. 25% overlap
- Outer sheath of polyvinylchloride YM1 to DIN VDE 0207, colour: see table page 55, for intrinsically safe systems: blue with identification stripe

### Abbreviations:

RT- thermocouple extension and compensating cable  
2Y insulation of polyethylene  
Y insulation of polyvinylchloride  
Yv thicker sheath of polyvinylchloride  
(St) collective screen

### Application:

for transmission of thermoelectric voltage from measuring junction to reference junction

### Use:

for indoor and outdoor installation and direct burial

### Temperature rating:

during operation: -30 °C up to +70 °C  
during installation: - 5 °C up to +50 °C

### Min. bending radius:

7,5 x d (d = overall diameter)

### Other properties:

flame retardant to DIN VDE 0472 part 804  
test method B

### Electrical properties at 20 °C\*\*

		Character	Unit	Conductor size				
				0.8 mm	1.02 mm	1.13 mm	1.29 mm	1.38 mm
Insulation resistance	PE-insulated	min.	MΩ x km	5000				
	PVC-insulated			100				
Mutual capacitance at 800 Hz	PE-insulated	max.	nF/km	120				
	PVC-insulated			170				
Test voltage	U <sub>eff</sub>							
				Core: core	2000			
Core: screen				1000				
Operating voltage	U <sub>eff</sub>	max.	V	300				

\* conductor also available with 0.20 mm strands

\*\* for loop resistance and inductance please see tables on pages 55 and 57