Thermocouple extension and compensating cables RT-2Y(St)Yv, RT-Y(St)Yv

Works Standard

Multipairs, layers, 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 55
- Insulation polyvinylchloride YI3 or polyethylene 2YI1 to DIN VDE 0207
- Cores twisted to form pairs, pairs twisted in concentric layers
- 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, polyester tape(s), 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 polyethyleneY 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 PVC-insulated	min.	$M\Omega$ x km	5000 100				
Mutual capacitance at 800 Hz***	PE-insulated PVC-insulated	max.	nF/km	80 120				
Test voltage Core: core Core: screen	U _{eff}		V	2000 1000				
Operating voltage	U _{ett}	max.	٧	300				

^{*} conductor also available with 0.20 mm strands

^{**} for loop resistance and inductance please see tables on pages 55 and 57

^{***} values can be exceeded by 20% on cables up to 4 pairs

Data sheet (geometrical): solid conductors

Dimension	Conductor	Thickness of insulation (nominal)	Thickness of outer sheath (nominal)	Overall diameter (approx.)	Cable weigh (approx.) kgs/km	
	n/mm	mm	mm	mm		
Conductor size (0.8 mm					
1 x 2 x 0.8	1/0.8	0.4	1.8	7.1	60	
Conductor size	1.O2 mm					
1 x 2 x 1.02	1/1.02	0.4	1.8	7.5	70	
Conductor size	1.13 mm					
1 x 2 x 1.13	1/1.13	0.4	1.8	7.9	80	
Conductor size	1.29 mm					
1 x 2 x 1.29	1/1.29	0.4	1.8	8.1	90	
Conductor size	1.38 mm					
1 x 2 x 1.38	1/1.38	0.5	1.8	8.7	100	