



Thermo-Couple Products Co.

www.tcproducts.com

a division of Marsh Bellofram
www.marshbellofram.com
1-800-727-5646

TYPE 21

Single Conductor Insulation

- Extruded FEP Teflon

Duplex Conductor Insulation

- Extruded FEP Teflon

Temperature Rating

- Continuous: 400°F (204°C)
- Single Reading: 500°F (260°C)

ANSI Color-Coded

- Yes

Physical Properties

- Abrasion Resistance - Good
- Moisture Resistance - Excellent
- Chemical Resistance - Good

Characteristics

- See page 129

Thermocouple Grade Wire								
Type	Catalog Number	Wire Gauge	Conductor size (in/mm)	Ohms /Dbl. Ft.	Nominal Overall size (in/mm)	Approx. Shipping Weight		
						(lb. /1000 ft)	(Kg/Km)	
21	20J21	20	.0320/.813	.357	.070 x .122/1.78 x 3.10	11	16.4	
21	20K21	20	.0320/.813	.590	.070 x .122/1.78 x 3.10	11	16.4	
21	20T21	20	.0320/.813	.298	.070 x .122/1.78 x 3.10	11	16.4	

TYPE 23

Single Conductor Insulation

- Extruded Polyvinyl (PVC)

Duplex Conductor Insulation

- Twisted; Extruded Polyvinyl (PCV) Overall

Temperature Rating

- Continuous: -20 to +221°F (-29 to 105°C)

ANSI Color-Coded

- Yes

Physical Properties

- Abrasion Resistance - Good
- Moisture Resistance - Excellent
- Chemical Resistance - Good

Note

- Aluminum/Mylar® shield with drain wire.

Characteristics

- See page 129

Thermocouple Grade Wire								
Type	Catalog Number	Wire Gauge	Conductor size (in/mm)	Ohms /Dbl. Ft.	Nominal Overall size (in/mm)	Approx. Shipping Weight		
						(lb. /1000 ft)	(Kg/Km)	
23	L20E23	20	.0320/.813	.704	.170/4.32	20	29.8	
23	L16J23	16	.0508/1.290	.137	.206/5.23	28	41.7	
23	L20J23	20	.0320/.813	.357	.170/4.32	20	29.8	
23	L16K23	16	.0508/1.290	.233	.206/5.23	28	41.7	
23	L20K23	20	.0320/.813	.590	.170/4.32	20	29.8	
23	L20T23	20	.0320/.813	.298	.170/4.32	20	29.8	

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TYPE 24

Single Conductor Insulation

- Fused Polyimide Tape

Duplex Conductor Insulation

- None - Twisted

Temperature Rating

- Continuous: 600°F (316°C)
- Single Reading: 800°F (427°C)

ANSI Color-Coded

- Both legs have Color-Coded Tracers

Physical Properties

- Abrasion Resistance - Excellent
- Moisture Resistance - Excellent
- Chemical Resistance - Excellent

Note

- FEP Teflon laminate melts at approximately 500°F (260°C)

Characteristics

- See page 129

Thermocouple Grade Wire								
Type	Catalog Number	Wire Gauge	Conductor size (in/mm)	Ohms /Dbl. Ft.	Nominal Overall size (in/mm)	Approx. Shipping Weight		
						(lb. /1000 ft)	(Kg/Km)	
24	20J24	20	.0320/.813	.357	.084/2.13	8	11.9	
24	24J24	24	.0201/.508	.877	.060/1.52	4	8.9	
24	20K24	20	.0320/.813	.590	.084/2.13	8	11.9	