



Duro-Sense Corporation



THERMOCOUPLE WIRE

THERMOCOUPLE EXTENSION WIRE

Polyvinyl Chloride (PVC) Suggested operating range: -15°F to 221°F (-26°C to 105°C) Also available: ♦ Shielded PVC	Flame retardant PVC insulation provides excellent chemical and abrasion resistance. PVC also has high dielectric strength as well as outstanding insulation resistance to ozone, acid, alkalis, alcohol, oil, gasoline, grease, wax, moisture and most solvents. The individual conductors and outer jacket are extruded.
Nylon Suggested operating range: -85°F to 250°F (-65°C to 121°C)	Nylon provides high tensile, impact and flexural resistance. It has excellent resistance to abrasion and is unaffected by most alkalis, oil, grease, dilute mineral acids and most organic acids. It is inert to most organic solvents including hydraulic fluid and aviation oil. The individual conductors and outer jacket are extruded.
Fluorinated Ethylene Propylene (FEP) Suggested operating range: -90°F to 400°F (-67°C to 204°C)	FEP retains useful strength and flexibility over broad ranges of environmental temperature or thermal aging. FEP is flame retardant and non-propagating in fire conditions. It is moisture and chemical resistant and accepted for use around food and pharmaceuticals. The individual conductors and outer jacket are extruded.
Perfluoroalkoxy (PFA) Suggested operating range: -328°F to 500°F (-200°C to 260°C)	Flame retardant PFA provides flexibility and toughness with stress crack resistance, resistance to weather, non-aging characteristics and a low coefficient of friction. PFA also provides outstanding electrical characteristics, as well as resistance to virtually all chemicals. The individual conductors and outer jacket are extruded.
Tetrafluoroethylene (TFE) Suggested operating range: -328°F to 500°F (-200°C to 260°C)	TFE is flame retardant (passes IEEE 383 & VW-1 flame tests) and has excellent solvent and abrasion resistance. TFE is unaffected by long term exposure to virtually all chemicals and solder iron temperatures. The individual conductors and outer jacket are insulated with TFE Tape.
Polymide Tape (Kapton) Suggested operating range: -400°F to 600°F (-240°C to 315°C)	Kapton is extremely tough. It has excellent abrasion, impact and cut through resistance, very high resistance to oxidative degradation, weathering, and all chemicals except strong bases. Kapton also offers high dielectric strength and insulation resistance. Kapton does not support combustion; even at extremely high temperatures, it decomposes slowly without visible burning. It is also resistant to radiation. The individual conductors and outer jacket are insulated with Kapton Tape.

THERMOCOUPLE WIRE

Nylon Suggested operating range: -85°F to 250°F (-65°C to 121°C)	Nylon provides high tensile, impact and flexural resistance. It has excellent resistance to abrasion and is unaffected by most alkalis, oil, grease, dilute mineral acids and most organic acids. It is inert to most organic solvents including hydraulic fluid and aviation oil. The individual conductors and outer jacket are extruded.
Fluorinated Ethylene Propylene (FEP) Suggested operating range: -90°F to 400°F (-67°C to 204°C) Also available: ♦ FEP Twisted Singles (No Outer Jacket) ♦ Shielded FEP	FEP retains useful strength and flexibility over broad ranges of environmental temperature or thermal aging. FEP is flame retardant and non-propagating in fire conditions. It is moisture and chemical resistant and accepted for use around food and pharmaceuticals. The individual conductors and outer jacket are extruded.
Perfluoroalkoxy (PFA) Suggested operating range: -328°F to 500°F (-200°C to 260°C)	Flame retardant PFA provides flexibility and toughness with stress crack resistance, resistance to weather, non-aging characteristics and a low coefficient of friction. PFA also provides outstanding electrical characteristics, as well as resistance to virtually all chemicals. The individual conductors and outer jacket are extruded.
Tetrafluoroethylene (TFE) Suggested operating range: -328°F to 500°F (-200°C to 260°C)	TFE is flame retardant (passes IEEE 383 & VW-1 flame tests) and has excellent solvent and abrasion resistance. TFE is unaffected by long term exposure to virtually all chemicals and solder iron temperatures. The individual conductors and outer jacket are insulated with TFE Tape.
Polymide Tape (Kapton) Suggested operating range: -400°F to 600°F (-240°C to 315°C)	Kapton is extremely tough. It has excellent abrasion, impact and cut through resistance, very high resistance to oxidative degradation, weathering, and all chemicals except strong bases. Kapton also offers high dielectric strength and insulation resistance. Kapton does not support combustion; even at extremely high temperatures, it decomposes slowly without visible burning. It is also resistant to radiation. The individual conductors and outer jacket are insulated with Kapton Tape.

THERMOCOUPLE WIRE

Fiberglass Suggested maximum operating temperature: 900°F (482°C) continuous 1000°F (538°C) single exposure {Impregnation maintained to 400°F (200°C)}	Fiberglass insulation, with the special binder impregnation, offers good moisture and chemical resistance, as well as good abrasion resistance. Typical applications include aerospace, foundries, heat treating, plastics industry and a wide variety of other uses.
Hi-Temp Fiberglass Suggested maximum operating temperature: 1300°F (704°C) continuous 1600°F (871°C) single exposure {Impregnation maintained to 400°F (200°C)} Also available: ♦ Twisted Singles (No Outer Jacket)	Hi-Temp fiberglass is used in applications where standard fiberglass won't stand up. With the special binder impregnation, Hi-Temp fiberglass offers good moisture and chemical resistance, as well as good abrasion resistance.
Vitreous Silica Fiber (Refrasil) Suggested maximum operating temperature: 1600°F (871°C) continuous 2000°F (1093°C) single exposure	Vitreous Silica Fiber is designed to be used at very high temperature. However, since no saturant is used, it is not recommended for use in abrasive applications without an additional metal covering. Vitreous Silica Fiber is typically used under conditions where beaded ceramic or sheathed thermocouples were previously necessary.
Ceramic Fiber Suggested maximum operating temperature: 2200°F (1204°C) continuous 2400°F (1316°C) single exposure	Ceramic Fiber is flexible and offers good abrasion and chemical resistance. It is supplied white, without saturant or colored tracers. Because the insulation retains its overall product integrity at elevated temperatures, serviceability is increased while reducing maintenance and replacement costs.

MULTIPAIR EXTENSION WIRE CONSTRUCTION

Polyvinyl Chloride (PVC) <i>Overall Shield Only</i> Suggested operating range: -15°F to 221°F (-26°C to 105°C)	Flame retardant PVC insulation provides excellent chemical and abrasion resistance. PVC also has high dielectric strength as well as outstanding insulation resistance to ozone, acid, alkalis, alcohol, oil, gasoline, grease, wax, moisture and most solvents. The individual conductors and outer jacket are extruded.
Polyvinyl Chloride (PVC) <i>Individual & Overall Shield</i> Suggested operating range: -15°F to 221°F (-26°C to 105°C)	Flame retardant PVC insulation provides excellent chemical and abrasion resistance. PVC also has high dielectric strength as well as outstanding insulation resistance to ozone, acid, alkalis, alcohol, oil, gasoline, grease, wax, moisture and most solvents. The individual conductors and outer jacket are extruded.

THERMOCOUPLE WIRE

PVC INSULATION 221°F(105°C)

Ordering Information:

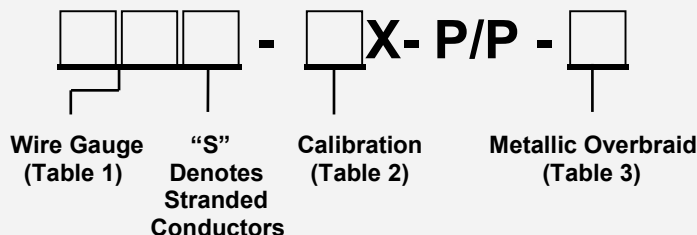


Table 1
Wire Gauge

14
16
20
24

Table 2
Calibration

Standard	Special
J	JJ
K	KK
T	TT
E	EE
N	NN
R	n/a
S	n/a
B	n/a
C	n/a

Table 3
Metallic Overbraid

SS	Stainless Steel
IB	Inconel
CB	Copper

NOTES:

The choices of gauge and calibration represent the most popular constructions of this product. However, additional wire gauges and alternate calibrations can be manufactured to meet specific applications. Consult factory for additional information.

Construction

- ◆ Parallel Conductors with Flame Retardant PVC Insulation

Product Characteristics

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

Applications

- ◆ Laboratories
- ◆ Industrial Equipment Testing
- ◆ Automotive

Wire Specifications

Gauge	Nominal Conductor Size		Nominal Insulation Thickness				Nominal Overall Diameter		Approximate Shipping Weight	
	in.	(mm)	Conductor		Overall		in.	(mm)	lbs/mft	kg/km
14	0.064	(1.628)	0.015	(0.381)	0.020	(0.508)	0.134 x 0.233	(3.404 x 5.918)	38	(57)
14S*	0.076	(1.865)	0.015	(0.381)	0.020	(0.508)	0.149 x 0.258	(3.785 x 6.553)	44	(66)
16	0.051	(1.290)	0.015	(0.381)	0.020	(0.508)	0.121 x 0.207	(3.073 x 5.258)	26	(39)
16S*	0.048	(1.495)	0.015	(0.381)	0.020	(0.508)	0.129 x 0.223	(3.277 x 5.664)	28	(42)
20	0.032	(0.813)	0.015	(0.381)	0.015	(0.381)	0.092 x 0.154	(2.337 x 3.912)	14	(21)
20S*	0.038	(0.965)	0.015	(0.381)	0.015	(0.381)	0.097 x 0.164	(2.464 x 4.166)	16	(24)
24	0.020	(0.508)	0.015	(0.381)	0.015	(0.381)	0.080 x 0.130	(2.032 x 3.302)	9	(14)
24S*	0.024	(0.610)	0.015	(0.381)	0.015	(0.381)	0.084 x 0.138	(2.134 x 3.505)	10	(15)

* "S" denotes stranded (7-strand) wire.

Tolerances

Due to allowances in manufacturing processes, Duro-Sense Corporation reserves the right to ship a variation of $\pm 10\%$ from the quantity of goods ordered. Physical specifications shown are nominal. Shipping weights are an average of all types of conductors and are listed for estimating purposes only. These weights can vary significantly due to different types of spools, reels and/or conductors.

The material contained in this document is presented in good faith and believed to be accurate and reliable. However, because testing conditions may vary and material quality or information provided, in whole or in part, by others may be beyond our control, no warranty, expressed or implied, is given and Duro-Sense Corporation assumes no liability for results obtained or damages incurred through the application of the data presented.

THERMOCOUPLE WIRE

SHIELDED PVC INSULATION 221°F(105°C)

Ordering Information:



Table 1
Wire Gauge

14
16
20
24

Table 2
Calibration

Standard	Special
J	JJ
K	KK
T	TT
E	EE
N	NN
R	n/a
S	n/a
B	n/a
C	n/a

Table 3
Metallic Overbraid

SS	Stainless Steel
IB	Inconel
CB	Copper

NOTES:

The choices of gauge and calibration represent the most popular constructions of this product. However, additional wire gauges and alternate calibrations can be manufactured to meet specific applications. Consult factory for additional information.

Construction

- ◆ Single Twisted Pair w/ Aluminum Mylar Shield & Copper Drain Wire & Flame Retardant PVC Insulation

Product Characteristics

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

Applications

- ◆ Signal transmission applications which are susceptible to electrostatic noise or interference
- ◆ Laboratories
- ◆ General Industry

Wire Specifications

Gauge	Nominal Conductor Size		Nominal Insulation Thickness				Nominal Overall Diameter		Approximate Shipping Weight	
	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	lbs/mft	kg/km
14	0.064	(1.628)	0.015	(0.381)	0.020	(0.508)	0.274	(7.0)	54	(80)
14S*	0.076	(1.865)	0.015	(0.381)	0.020	(0.508)	0.290	(7.4)	60	(89)
16	0.051	(1.290)	0.015	(0.381)	0.020	(0.508)	0.213	(5.4)	34	(51)
16S*	0.048	(1.495)	0.015	(0.381)	0.020	(0.508)	0.223	(5.7)	37	(56)
20	0.032	(0.813)	0.015	(0.381)	0.020	(0.508)	0.175	(4.5)	18	(27)
20S*	0.038	(0.965)	0.015	(0.381)	0.020	(0.508)	0.185	(4.7)	20	(30)
24	0.020	(0.508)	0.015	(0.381)	0.020	(0.508)	0.156	(4.0)	12	(18)
24S*	0.024	(0.610)	0.015	(0.381)	0.020	(0.508)	0.164	(4.1)	13	(19)

* "S" denotes stranded (7-strand) wire.

Tolerances

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THERMOCOUPLE WIRE

MULTI-PAIR SHIELDED PVC INSULATION 221°F(105°C)

Ordering Information:		-		-		X- P/TW/ALM/P -	
	Wire Gauge (Table 1)		Number of Conductors (2,4,8,12,16,24)		Calibration (Table 2)		Metallic Overbraid (Table 3)

Table 1
Wire Gauge

20

Table 2
Calibration

Standard	Special
J	JJ
K	KK
T	TT
E	EE
N	NN
R	n/a
S	n/a
B	n/a
C	n/a

Table 3
Metallic Overbraid

SS	Stainless Steel
IB	Inconel
CB	Copper

NOTES:

The choices of gauge and calibration represent the most popular constructions of this product. However, additional wire gauges and alternate calibrations can be manufactured to meet specific applications. Consult factory for additional information.

Construction

- ◆ Twisted Pairs w/ Aluminum Mylar Shield Overall & Copper Drain Wire & Flame Retardant PVC Insulation
- ◆ 300 V UL® Listed

Product Characteristics

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

Applications

- ◆ Signal transmission applications which are susceptible to electrostatic noise or interference
- ◆ General Use Extension Wire
- ◆ General Industry

Wire Specifications

# of Pairs	Gauge	Nominal Conductor Size		Nominal Insulation Thickness				Nominal Overall Diameter		Approximate Shipping Weight	
		in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	lbs/mft	kg/km
2	20	0.032	(0.813)	0.015	(0.381)	0.050	(1.27)	0.290	(7.37)	72	(107)
4	20	0.032	(0.813)	0.015	(0.381)	0.050	(1.27)	0.350	(8.89)	94	(140)
8	20	0.032	(0.813)	0.015	(0.381)	0.050	(1.27)	0.440	(11.18)	140	(209)
12	20	0.032	(0.813)	0.015	(0.381)	0.060	(1.52)	0.535	(13.59)	188	(280)
16	20	0.032	(0.813)	0.015	(0.381)	0.060	(1.52)	0.610	(15.49)	240	(358)
24	20	0.032	(0.813)	0.015	(0.381)	0.060	(1.52)	0.710	(18.03)	344	(513)

Tolerances

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THERMOCOUPLE WIRE

MULTI-PAIR SHIELDED PVC INSULATION 221°F(105°C)

Ordering Information:					
	Wire Gauge (Table 1)	Number of Conductors (2,4,8,12,16,24)	Calibration (Table 2)	X- P/ALM/TW/ALM/P -	Metallic Overbraid (Table 3)

Table 1 Wire Gauge 20	Table 2 Calibration <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Standard</th> <th style="text-align: left;">Special</th> </tr> <tr><td>J</td><td>JJ</td></tr> <tr><td>K</td><td>KK</td></tr> <tr><td>T</td><td>TT</td></tr> <tr><td>E</td><td>EE</td></tr> <tr><td>N</td><td>NN</td></tr> <tr><td>R</td><td>n/a</td></tr> <tr><td>S</td><td>n/a</td></tr> <tr><td>B</td><td>n/a</td></tr> <tr><td>C</td><td>n/a</td></tr> </table>	Standard	Special	J	JJ	K	KK	T	TT	E	EE	N	NN	R	n/a	S	n/a	B	n/a	C	n/a	Table 3 Metallic Overbraid <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">SS</th> <th style="text-align: left;">Stainless Steel</th> </tr> <tr> <td>IB</td> <td>Inconel</td> </tr> <tr> <td>CB</td> <td>Copper</td> </tr> </table>	SS	Stainless Steel	IB	Inconel	CB	Copper	NOTES: The choices of gauge and calibration represent the most popular constructions of this product. However, additional wire gauges and alternate calibrations can be manufactured to meet specific applications. Consult factory for additional information.
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CB	Copper																												

Construction

- ◆ Twisted Pairs w/ **Individual & Overall** Aluminum Mylar Shield & Copper Drain Wire & Flame Retardant PVC Insulation
- ◆ 300 V UL® Listed

Product Characteristics

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

Applications

- ◆ Signal transmission applications which are susceptible to electrostatic noise or interference
- ◆ General Use Extension Wire
- ◆ General Industry

Wire Specifications

# of Pairs	Gauge	Nominal Conductor Size		Nominal Insulation Thickness				Nominal Overall Diameter		Approximate Shipping Weight	
		in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	lbs/mft	kg/km
2	20	0.032	(0.813)	0.015	(0.381)	0.050	(1.27)	0.305	(7.75)	77	(115)
4	20	0.032	(0.813)	0.015	(0.381)	0.050	(1.27)	0.385	(9.78)	104	(155)
8	20	0.032	(0.813)	0.015	(0.381)	0.050	(1.27)	0.490	(12.45)	160	(238)
12	20	0.032	(0.813)	0.015	(0.381)	0.060	(1.52)	0.610	(15.49)	218	(325)
16	20	0.032	(0.813)	0.015	(0.381)	0.060	(1.52)	0.640	(16.26)	280	(417)
24	20	0.032	(0.813)	0.015	(0.381)	0.060	(1.52)	0.805	(20.45)	404	(602)

Tolerances

Due to allowances in manufacturing processes, Duro-Sense Corporation reserves the right to ship a variation of $\pm 10\%$ from the quantity of goods ordered. Physical specifications shown are nominal. Shipping weights are an average of all types of conductors and are listed for estimating purposes only. These weights can vary significantly due to different types of spools, reels and/or conductors.

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THERMOCOUPLE WIRE

NYLON INSULATION 248°F(120°C)

Ordering Information:

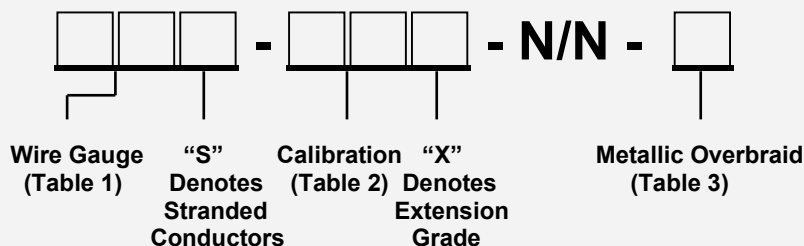


Table 1
Wire Gauge

20
24
30

Table 2
Calibration

Standard	Special
J	JJ
K	KK
T	TT
E	EE
N	NN
R	n/a
S	n/a
B	n/a
C	n/a

Table 3
Metallic Overbraid

SS	Stainless Steel
IB	Inconel
CB	Copper

NOTES:

The choices of gauge and calibration represent the most popular constructions of this product. However, additional wire gauges and alternate calibrations can be manufactured to meet specific applications. Consult factory for additional information.

Construction

- ◆ Parallel Conductors with Nylon Polyimide Resin Insulation

Product Characteristics

- ◆ Excellent Abrasion Resistance
- ◆ Good Chemical and Solvent Resistance
- ◆ Fair Moisture Resistance

Applications

- ◆ Laboratories
- ◆ Test Stands
- ◆ Food Processing

Wire Specifications

Gauge	Nominal Conductor Size		Nominal Insulation Thickness				Nominal Overall Diameter		Approximate Shipping Weight	
	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	lbs/mft	kg/km
20	0.032	(0.813)	0.006	(0.150)	0.008	(0.200)	0.058 x 0.100	(2.337 x 3.912)	8	(12)
20S*	0.038	(0.965)	0.006	(0.150)	0.008	(0.200)	0.062 x 0.108	(2.464 x 4.166)	9	(13)
24	0.020	(0.508)	0.006	(0.150)	0.006	(0.150)	0.042 x 0.072	(2.032 x 3.302)	3	(5)
24S*	0.024	(0.610)	0.006	(0.150)	0.006	(0.150)	0.046 x 0.080	(2.134 x 3.505)	4	(6)
30	0.010	(0.254)	0.005	(0.130)	0.005	(0.130)	0.030 x 0.050	(0.762 x 1.270)	3	(5)

* "S" denotes stranded (7-strand) wire.

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THERMOCOUPLE WIRE

FEP INSULATION 400°F(204°C)

Ordering Information:		
	Wire Gauge (Table 1) "S" Denotes Stranded Conductors Calibration (Table 2) "X" Denotes Extension Grade Metallic Overbraid (Table 3)	

Table 1 Wire Gauge <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>16</td></tr> <tr><td>20</td></tr> <tr><td>24</td></tr> <tr><td>30</td></tr> </table>	16	20	24	30	Table 2 Calibration <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Standard</th> <th>Special</th> </tr> <tr><td>J</td><td>JJ</td></tr> <tr><td>K</td><td>KK</td></tr> <tr><td>T</td><td>TT</td></tr> <tr><td>E</td><td>EE</td></tr> <tr><td>N</td><td>NN</td></tr> <tr><td>R</td><td>n/a</td></tr> <tr><td>S</td><td>n/a</td></tr> <tr><td>B</td><td>n/a</td></tr> <tr><td>C</td><td>n/a</td></tr> </table>	Standard	Special	J	JJ	K	KK	T	TT	E	EE	N	NN	R	n/a	S	n/a	B	n/a	C	n/a	Table 3 Metallic Overbraid <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>SS</th> <th>Stainless Steel</th> </tr> <tr> <td>IB</td> <td>Inconel</td> </tr> <tr> <td>CB</td> <td>Copper</td> </tr> </table>	SS	Stainless Steel	IB	Inconel	CB	Copper	NOTES: The choices of gauge and calibration represent the most popular constructions of this product. However, additional wire gauges and alternate calibrations can be manufactured to meet specific applications. Consult factory for additional information.
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Construction

- ◆ Parallel Conductors with Flame Retardant Extruded FEP Insulation

Product Characteristics

- ◆ Excellent Abrasion Resistance
- ◆ Excellent Chemical and Solvent Resistance
- ◆ Excellent Moisture Resistance

Applications

- ◆ Aerospace
- ◆ Industrial Equipment Testing
- ◆ Petrochemical Plants

Wire Specifications

Gauge	Nominal Conductor Size		Nominal Insulation Thickness				Nominal Overall Diameter		Approximate Shipping Weight	
	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	lbs/mft	kg/km
16	0.051	(1.290)	0.009	(0.230)	0.012	(0.305)	0.095 x 0.166	(2.410 x 4.220)	28	(42)
16S*	0.060	(1.520)	0.009	(0.230)	0.012	(0.305)	0.104 x 0.190	(2.640 x 4.830)	30	(45)
20	0.032	(0.813)	0.009	(0.230)	0.010	(0.254)	0.072 x 0.124	(2.337 x 3.912)	12	(18)
20S*	0.038	(0.965)	0.009	(0.230)	0.010	(0.254)	0.078 x 0.136	(2.464 x 4.166)	14	(21)
24	0.020	(0.508)	0.008	(0.200)	0.010	(0.254)	0.060 x 0.100	(2.032 x 3.302)	8	(12)
24S*	0.024	(0.610)	0.008	(0.200)	0.010	(0.254)	0.064 x 0.108	(2.134 x 3.505)	9	(13)
30	0.010	(0.254)	0.005	(0.130)	0.005	(0.130)	0.046 x 0.072	(1.200 x 1.800)	3	(5)

* "S" denotes stranded (7-strand) wire.

Tolerances

Due to allowances in manufacturing processes, Duro-Sense Corporation reserves the right to ship a variation of $\pm 10\%$ from the quantity of goods ordered. Physical specifications shown are nominal. Shipping weights are an average of all types of conductors and are listed for estimating purposes only. These weights can vary significantly due to different types of spools, reels and/or conductors.

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THERMOCOUPLE WIRE

SHIELDED FEP INSULATION 400°F(204°C)

Ordering Information: - -TEX/TW/ALM/TEX-

Wire Gauge
(Table 1)
“S”
Denotes
Stranded
Conductors
Calibration
(Table 2)
“X”
Denotes
Extension
Grade
Metallic Overbraid
(Table 3)

Table 1
Wire Gauge

16
20
24
30

Table 2
Calibration

Standard	Special
J	JJ
K	KK
T	TT
E	EE
N	NN
R	n/a
S	n/a
B	n/a
C	n/a

Table 3
Metallic Overbraid

SS	Stainless Steel
IB	Inconel
CB	Copper

NOTES:

The choices of gauge and calibration represent the most popular constructions of this product. However, additional wire gauges and alternate calibrations can be manufactured to meet specific applications. Consult factory for additional information.

Construction

- ◆ Single Twisted Pair w/ Aluminum Mylar Shield & Copper Drain Wire & Flame Retardant FEP Insulation

Product Characteristics

- ◆ Excellent Abrasion Resistance
- ◆ Excellent Chemical and Solvent Resistance
- ◆ Excellent Moisture Resistance

Applications

- ◆ Aerospace
- ◆ Industrial Equipment Testing
- ◆ Signal transmission applications which are susceptible to electrostatic noise or interference

Wire Specifications

Gauge	Nominal Conductor Size		Nominal Insulation Thickness				Nominal Overall Diameter		Approximate Shipping Weight	
	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	lbs/mft	kg/km
16	0.051	(1.290)	0.009	(0.230)	0.015	(0.305)	0.180	(4.57)	38	(57)
16S*	0.060	(1.520)	0.009	(0.230)	0.015	(0.305)	0.198	(5.03)	41	(61)
20	0.032	(0.813)	0.008	(0.200)	0.012	(0.254)	0.142	(3.61)	22	(33)
20S*	0.038	(0.965)	0.008	(0.200)	0.012	(0.254)	0.158	(3.91)	24	(36)

* “S” denotes stranded (7-strand) wire.

Tolerances

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THERMOCOUPLE WIRE

TWISTED FEP INSULATION 400°F(204°C)

Ordering Information:

-

-

TEX/TW

-

Wire Gauge
(Table 1)

"S"
Denotes
Stranded
Conductors

Calibration
(Table 2)

"X"
Denotes
Extension
Grade

Metallic Overbraid
(Table 3)

Table 1

Wire Gauge

16
20
24
30

Table 2

Calibration

Standard	Special
J	JJ
K	KK
T	TT
E	EE
N	NN
R	n/a
S	n/a
B	n/a
C	n/a

Table 3

Metallic Overbraid

SS	Stainless Steel
IB	Inconel
CB	Copper

NOTES:

The choices of gauge and calibration represent the most popular constructions of this product. However, additional wire gauges and alternate calibrations can be manufactured to meet specific applications. Consult factory for additional information.

Construction

- ◆ Twisted Conductors with Flame Retardant Extruded FEP Insulation & No Outer Jacket

Product Characteristics

- ◆ Excellent Abrasion Resistance
- ◆ Excellent Chemical and Solvent Resistance
- ◆ Excellent Moisture Resistance

Applications

- ◆ Aerospace
- ◆ Food Processing
- ◆ Cryogenic Applications

Wire Specifications

Gauge	Nominal Conductor Size		Nominal Insulation Thickness				Nominal Overall Diameter		Approximate Shipping Weight	
	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	lbs/mft	kg/km
16	0.051	(1.290)	0.008	(0.200)	n/a	n/a	0.134	(3.400)	18	(27)
16S*	0.060	(1.520)	0.008	(0.200)	n/a	n/a	0.148	(3.800)	20	(30)
20	0.032	(0.813)	0.008	(0.200)	n/a	n/a	0.096	(2.400)	8	(11)
20S*	0.038	(0.965)	0.008	(0.200)	n/a	n/a	0.104	(2.600)	8	(12)
24	0.020	(0.508)	0.008	(0.200)	n/a	n/a	0.072	(1.800)	4	(6)
24S*	0.024	(0.610)	0.008	(0.200)	n/a	n/a	0.080	(2.000)	4	(6)
30	0.010	(0.254)	0.006	(0.152)	n/a	n/a	0.052	(1.300)	2	(3)

* "S" denotes stranded (7-strand) wire.

Tolerances

Due to allowances in manufacturing processes, Duro-Sense Corporation reserves the right to ship a variation of $\pm 10\%$ from the quantity of goods ordered. Physical specifications shown are nominal. Shipping weights are an average of all types of conductors and are listed for estimating purposes only. These weights can vary significantly due to different types of spools, reels and/or conductors.

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THERMOCOUPLE WIRE

TFE INSULATION 500°F(260°C)

Ordering Information:

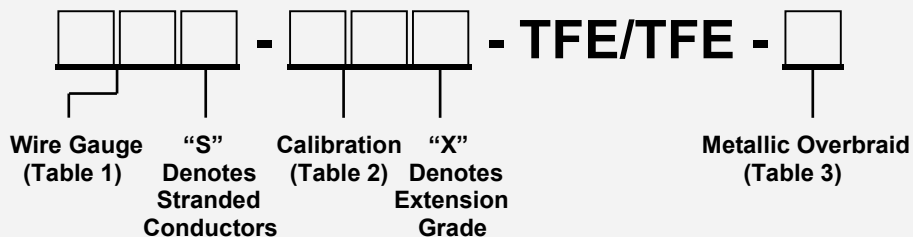


Table 1
Wire Gauge

16
20
24
30

Table 2
Calibration

Standard	Special
J	JJ
K	KK
T	TT
E	EE
N	NN
R	n/a
S	n/a
B	n/a
C	n/a

Table 3
Metallic Overbraid

SS	Stainless Steel
IB	Inconel
CB	Copper

NOTES:

The choices of gauge and calibration represent the most popular constructions of this product. However, additional wire gauges and alternate calibrations can be manufactured to meet specific applications. Consult factory for additional information.

Construction

- ◆ Parallel Conductors with Two Layers of Fused TFE Tape Insulation

Product Characteristics

- ◆ Good Abrasion Resistance
- ◆ Excellent Chemical and Solvent Resistance
- ◆ Excellent Moisture Resistance

Applications

- ◆ Aerospace
- ◆ Petrochemical Plants
- ◆ Power Generation

Wire Specifications

Gauge	Nominal Conductor Size		Nominal Insulation Thickness				Nominal Overall Diameter		Approximate Shipping Weight	
	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	lbs/mft	kg/km
16	0.051	(1.290)	0.010	(0.254)	0.008	(0.203)	0.087 x 0.158	(2.210 x 4.010)	25	(37)
16S*	0.060	(1.520)	0.010	(0.254)	0.008	(0.203)	0.096 x 0.176	(2.440 x 4.470)	27	(40)
20	0.032	(0.813)	0.006	(0.152)	0.008	(0.203)	0.060 x 0.104	(1.520 x 2.640)	11	(18)
20S*	0.038	(0.965)	0.006	(0.152)	0.008	(0.203)	0.066 x 0.116	(1.680 x 2.950)	12	(18)
24	0.020	(0.508)	0.006	(0.152)	0.008	(0.203)	0.048 x 0.080	(1.220 x 2.030)	5	(8)
24S*	0.024	(0.610)	0.006	(0.152)	0.008	(0.203)	0.052 x 0.088	(1.320 x 2.230)	6	(9)
30	0.010	(0.254)	0.006	(0.152)	0.008	(0.203)	0.050 x 0.076	(1.300 x 1.900)	3	(4)

* "S" denotes stranded (7-strand) wire.

Tolerances

Due to allowances in manufacturing processes, Duro-Sense Corporation reserves the right to ship a variation of $\pm 10\%$ from the quantity of goods ordered. Physical specifications shown are nominal. Shipping weights are an average of all types of conductors and are listed for estimating purposes only. These weights can vary significantly due to different types of spools, reels and/or conductors.

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THERMOCOUPLE WIRE

KAPTON INSULATION 600°F(315°C)

Ordering Information:

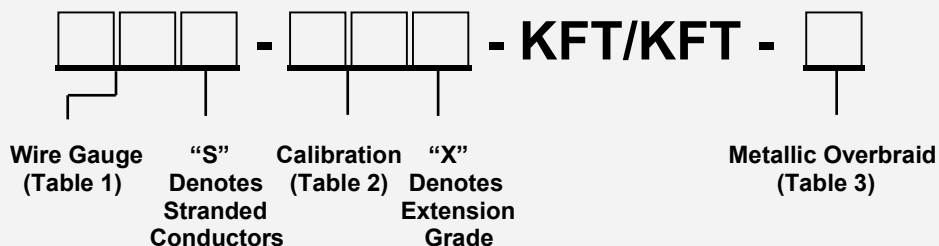


Table 1
Wire Gauge

20
24
30

Table 2
Calibration

Standard	Special
J	JJ
K	KK
T	TT
E	EE
N	NN
R	n/a
S	n/a
B	n/a
C	n/a

Table 3
Metallic Overbraid

SS	Stainless Steel
IB	Inconel
CB	Copper

NOTES:

The choices of gauge and calibration represent the most popular constructions of this product. However, additional wire gauges and alternate calibrations can be manufactured to meet specific applications. Consult factory for additional information.

Construction

- ◆ Parallel Conductors with Two Layers of Fused Polyimide Tape Insulation

Product Characteristics

- ◆ Excellent Abrasion Resistance
- ◆ Excellent Chemical and Solvent Resistance
- ◆ Excellent Moisture Resistance

Applications

- ◆ Aerospace
- ◆ Power Generation
- ◆ Pharmaceutical

Wire Specifications

Gauge	Nominal Conductor Size		Nominal Insulation Thickness				Nominal Overall Diameter		Approximate Shipping Weight	
	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	lbs/mft	kg/km
20	0.032	(0.813)	0.006	(0.152)	0.006	(0.152)	0.064 x 0.100	(1.630 x 2.540)	10	(15)
20S*	0.038	(0.965)	0.006	(0.152)	0.006	(0.152)	0.070 x 0.112	(1.780 x 2.840)	11	(16)
24	0.020	(0.508)	0.006	(0.152)	0.006	(0.152)	0.054 x 0.076	(1.370 x 1.930)	5	(8)
24S*	0.024	(0.610)	0.006	(0.152)	0.006	(0.152)	0.056 x 0.084	(1.420 x 2.130)	6	(9)
30	0.010	(0.254)	0.006	(0.152)	0.006	(0.152)	0.044 x 0.056	(1.120 x 1.420)	3	(5)

* "S" denotes stranded (7-strand) wire.

Tolerances

Due to allowances in manufacturing processes, Duro-Sense Corporation reserves the right to ship a variation of $\pm 10\%$ from the quantity of goods ordered. Physical specifications shown are nominal. Shipping weights are an average of all types of conductors and are listed for estimating purposes only. These weights can vary significantly due to different types of spools, reels and/or conductors.

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THERMOCOUPLE WIRE

FIBERGLASS INSULATION 900°F(480°C)

Ordering Information:

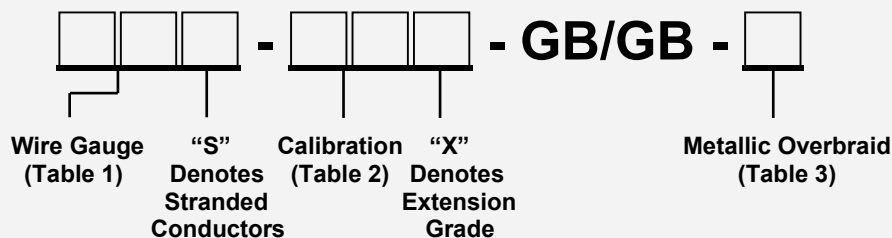


Table 1

Wire Gauge

20
24
30

Table 2

Calibration

Standard	Special
J	JJ
K	KK
T	TT
E	EE
N	NN
R	n/a
S	n/a
B	n/a
C	n/a

Table 3

Metallic Overbraid

SS	Stainless Steel
IB	Inconel
CB	Copper

NOTES:

The choices of gauge and calibration represent the most popular constructions of this product. However, additional wire gauges and alternate calibrations can be manufactured to meet specific applications. Consult factory for additional information.

Construction

- ◆ Parallel Conductors with Impregnated, Braided Fiberglass Insulation

Product Characteristics

- ◆ Fair Abrasion Resistance
- ◆ Good Chemical and Solvent Resistance
- ◆ Good Moisture Resistance

Applications

- ◆ Heat Treating
- ◆ Steel & Aluminum Industry
- ◆ Plastics Industry

Wire Specifications

Gauge	Nominal Conductor Size		Nominal Insulation Thickness				Nominal Overall Diameter		Approximate Shipping Weight	
	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	lbs/mft	kg/km
20	0.032	(0.813)	0.005	(0.127)	0.006	(0.152)	0.056 x 0.096	(1.420 x 2.440)	9	(13)
20S*	0.038	(0.965)	0.006	(0.152)	0.006	(0.152)	0.064 x 0.112	(1.630 x 2.840)	10	(15)
24	0.020	(0.508)	0.005	(0.127)	0.006	(0.152)	0.045 x 0.072	(1.140 x 1.830)	7	(10)
24S*	0.024	(0.610)	0.005	(0.127)	0.006	(0.152)	0.046 x 0.080	(1.220 x 2.030)	8	(12)
30	0.010	(0.254)	0.007	(0.178)	0.008	(0.203)	0.043 x 0.064	(1.090 x 1.630)	3	(5)

* "S" denotes stranded (7-strand) wire.

Tolerances

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THERMOCOUPLE WIRE

HI-TEMP FIBERGLASS INSULATION 1300°F(705°C)

Ordering Information:

-

- HTGB/HTGB -

Wire Gauge
(Table 1)

"S"
Denotes
Stranded
Conductors

Calibration
(Table 2)

"X"
Denotes
Extension
Grade

Metallic Overbraid
(Table 3)

Table 1

Wire Gauge

14
16
20
24

Table 2

Calibration

Standard	Special
J	JJ
K	KK
T	TT
E	EE
N	NN
R	n/a
S	n/a
B	n/a
C	n/a

Table 3

Metallic Overbraid

SS	Stainless Steel
IB	Inconel
CB	Copper

NOTES:

The choices of gauge and calibration represent the most popular constructions of this product. However, additional wire gauges and alternate calibrations can be manufactured to meet specific applications. Consult factory for additional information.

Construction

- ◆ Parallel Conductors with Hi-Temp Impregnant and Hi-Temp Braided Fiberglass Insulation

Product Characteristics

- ◆ Good Abrasion Resistance
- ◆ Good Chemical Resistance
- ◆ Good Moisture Resistance

Applications

- ◆ Heat Treating
- ◆ Furnace Surveys
- ◆ Steel & Aluminum Industry

Wire Specifications

Gauge	Nominal Conductor Size		Nominal Insulation Thickness				Nominal Overall Diameter		Approximate Shipping Weight	
	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	lbs/mft	kg/km
14	0.064	(1.630)	0.015	(0.381)	0.010	(0.254)	0.114 x 0.200	(2.900 x 5.080)	34	(51)
16	0.051	(1.290)	0.015	(0.381)	0.010	(0.254)	0.100 x 0.174	(2.540 x 4.420)	25	(37)
20	0.032	(0.813)	0.015	(0.381)	0.010	(0.254)	0.082 x 0.140	(2.080 x 3.560)	13	(19)
24	0.020	(0.508)	0.015	(0.381)	0.010	(0.254)	0.072 x 0.120	(1.830 x 3.050)	10	(15)

Tolerances

Due to allowances in manufacturing processes, Duro-Sense Corporation reserves the right to ship a variation of $\pm 10\%$ from the quantity of goods ordered. Physical specifications shown are nominal. Shipping weights are an average of all types of conductors and are listed for estimating purposes only. These weights can vary significantly due to different types of spools, reels and/or conductors.

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THERMOCOUPLE WIRE

TWISTED HI-TEMP FIBERGLASS INSULATION 1300°F(705°C)

Ordering Information:

-

-

HTGB/TW

-

Wire Gauge
(Table 1)

"S"
Denotes
Stranded
Conductors

Calibration
(Table 2)

"X"
Denotes
Extension
Grade

Metallic Overbraid
(Table 3)

Table 1

Wire Gauge

14
16
20
24

Table 2

Calibration

Standard	Special
J	JJ
K	KK
T	TT
E	EE
N	NN
R	n/a
S	n/a
B	n/a
C	n/a

Table 3

Metallic Overbraid

SS	Stainless Steel
IB	Inconel
CB	Copper

NOTES:

The choices of gauge and calibration represent the most popular constructions of this product. However, additional wire gauges and alternate calibrations can be manufactured to meet specific applications. Consult factory for additional information.

Construction

- ◆ Twisted Conductors with Hi-Temp Fiberglass Insulation & No Outer Jacket

Product Characteristics

- ◆ Good Abrasion Resistance
- ◆ Good Chemical Resistance
- ◆ Good Moisture Resistance

Applications

- ◆ Heat Treating
- ◆ Furnace Surveys
- ◆ Steel & Aluminum Industry

Wire Specifications

Gauge	Nominal Conductor Size		Nominal Insulation Thickness				Nominal Overall Diameter		Approximate Shipping Weight	
	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	lbs/mft	kg/km
14	0.064	(1.630)	0.015	(0.381)	n/a	n/a	0.200	(5.080)	32	(48)
16	0.051	(1.290)	0.015	(0.381)	n/a	n/a	0.174	(4.420)	21	(31)
20	0.032	(0.813)	0.015	(0.381)	n/a	n/a	0.124	(3.150)	10	(15)
24	0.020	(0.508)	0.015	(0.381)	n/a	n/a	0.100	(2.540)	6	(9)

Tolerances

Due to allowances in manufacturing processes, Duro-Sense Corporation reserves the right to ship a variation of $\pm 10\%$ from the quantity of goods ordered. Physical specifications shown are nominal. Shipping weights are an average of all types of conductors and are listed for estimating purposes only. These weights can vary significantly due to different types of spools, reels and/or conductors.

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THERMOCOUPLE WIRE

VITREOUS SILICA FIBER INSULATION 1800°F(980°C)

Ordering Information:



Table 1
Wire Gauge

14
16
20
24

Table 2
Calibration

Standard	Special
J	JJ
K	KK
E	EE
N	NN

Table 3
Metallic Overbraid

SS	Stainless Steel
IB	Inconel
CB	Copper

NOTES:

The choices of gauge and calibration represent the most popular constructions of this product. However, additional wire gauges and alternate calibrations can be manufactured to meet specific applications. Consult factory for additional information.

Construction

- ◆ Parallel Conductors with Hi-Temp Impregnant and Braided Vitreous Silica Yarn Insulation

Product Characteristics

- ◆ Fair Abrasion Resistance
- ◆ Good Chemical and Solvent Resistance
- ◆ Fair Moisture Resistance

Applications

- ◆ Heat Treating
- ◆ Furnace Surveys
- ◆ Steel & Aluminum Industry

Wire Specifications

Gauge	Nominal Conductor Size		Nominal Insulation Thickness				Nominal Overall Diameter		Approximate Shipping Weight	
	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	lbs/mft	kg/km
14	0.064	(1.630)	0.016	(0.406)	0.015	(0.381)	0.132 x 0.230	(3.400 x 5.800)	33	(49)
16	0.051	(1.290)	0.016	(0.406)	0.015	(0.381)	0.118 x 0.198	(3.000 x 5.030)	25	(37)
20	0.032	(0.813)	0.018	(0.457)	0.015	(0.381)	0.098 x 0.154	(2.490 x 3.910)	15	(22)
24	0.020	(0.508)	0.018	(0.457)	0.015	(0.381)	0.088 x 0.142	(2.200 x 3.600)	10	(14)

Tolerances

Due to allowances in manufacturing processes, Duro-Sense Corporation reserves the right to ship a variation of $\pm 10\%$ from the quantity of goods ordered. Physical specifications shown are nominal. Shipping weights are an average of all types of conductors and are listed for estimating purposes only. These weights can vary significantly due to different types of spools, reels and/or conductors.

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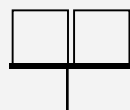
THERMOCOUPLE WIRE

CERAMIC FIBER INSULATION 2200°F(1205°C)

Ordering Information:



Wire Gauge
(Table 1)



Calibration
(Table 2)

- CF/CF - SF90 -



Metallic Overbraid
(Table 3)

Table 1
Wire Gauge

14
16
20
24

Table 2
Calibration

Standard	Special
J	JJ
K	KK
E	EE
N	NN

Table 3
Metallic Overbraid

SS	Stainless Steel
IB	Inconel
CB	Copper

NOTES:

The choices of gauge and calibration represent the most popular constructions of this product. However, additional wire gauges and alternate calibrations can be manufactured to meet specific applications. Consult factory for additional information.

Construction

- ◆ Parallel Conductors with Braided Ceramic Fiber Insulation*
(*Light Build version of CF/CF)

Product Characteristics

- ◆ Good Abrasion Resistance
- ◆ Good Chemical and Solvent Resistance
- ◆ Fair Moisture Resistance

Applications

- ◆ Heat Treating
- ◆ Furnace Surveys
- ◆ Steel & Aluminum Industry

Wire Specifications

Gauge	Nominal Conductor Size		Nominal Insulation Thickness				Nominal Overall Diameter		Approximate Shipping Weight	
	in.	(mm)	Conductor		Overall		in.	(mm)	lbs/mft	kg/km
14	0.064	(1.630)	0.014	(0.360)	0.018	(0.460)	0.128 x 0.220	(3.300 x 5.600)	33	(49)
16	0.051	(1.290)	0.014	(0.360)	0.018	(0.460)	0.115 x 0.194	(2.900 x 4.900)	24	(36)
20	0.032	(0.813)	0.014	(0.360)	0.018	(0.460)	0.096 x 0.156	(2.400 x 4.000)	14	(21)
24	0.020	(0.508)	0.014	(0.360)	0.018	(0.460)	0.084 x 0.132	(2.100 x 3.400)	9.3	(14)

Tolerances

Due to allowances in manufacturing processes, Duro-Sense Corporation reserves the right to ship a variation of $\pm 10\%$ from the quantity of goods ordered. Physical specifications shown are nominal. Shipping weights are an average of all types of conductors and are listed for estimating purposes only. These weights can vary significantly due to different types of spools, reels and/or conductors.

The material contained in this document is presented in good faith and believed to be accurate and reliable. However, because testing conditions may vary and material quality or information provided, in whole or in part, by others may be beyond our control, no warranty, expressed or implied, is given and Duro-Sense Corporation assumes no liability for results obtained or damages incurred through the application of the data presented.

THERMOCOUPLE WIRE

BARE WIRE

Ordering Information:



Wire Gauge
(Table 1)

Calibration
(Table 2)

Polarity
(Table 3)

Table 1

Wire Gauge

8
14
20
24
30

Table 2

Calibration

Standard	Special
J	JJ
K	KK
T	TT
E	EE
N	NN
n/a	S**
n/a	R**
n/a	B**

Table 3

Metallic Overbraid

P/N	Description
P	Positive Leg
N	Negative Leg

NOTES:

The choices of gauge and calibration represent the most popular constructions of this product. However, additional wire gauges and alternate calibrations can be manufactured to meet specific applications. Consult factory for additional information.

** Type 'S', 'R' & 'B' wire is only available in 20 Ga., 24 Ga. & 30 Ga.

Product Characteristics

- ◆ Bare wire is sold in matched pairs. Equal amounts of each leg must be ordered.
- ◆ 8 Ga. wire is shipped in coils. 14 Ga. and smaller are shipped on spools.

Wire Specifications

Base Metal

Gauge	Feet per Lb.																			
8	JP	23	JN	20	KP	21	KN	21	TP	20	TN	20	EP	21	EN	20	NP	21	NN	21
14	JP	91	JN	80	KP	83	KN	83	TP	80	TN	80	EP	83	EN	80	NP	83	NN	83
20	JP	365	JN	332	KP	331	KN	331	TP	332	TN	332	EP	331	EN	332	NP	337	NN	330
24	JP	926	JN	818	KP	838	KN	838	TP	818	TN	818	EP	838	EN	818	NP	853	NN	836
30	JP	3740	JN	3290	KP	3370	KN	3370	TP	3290	TN	3290	EP	3370	EN	3290	NP	3370	NN	3370

Noble Metal

Gauge	Inches per TOz.											
20	SP	118	SN	110	RP	120	RN	110	BP	134	BN	114
24	SP	302	SN	282	RP	308	RN	282	BP	343	BN	294
30	SP	1206	SN	1127	RP	1230	RN	1127	BP	1105	BN	1079

Tolerances

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