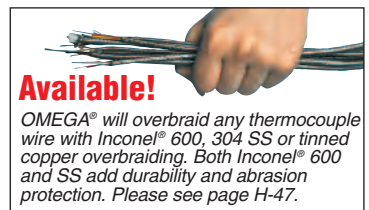


# Thermocouple Wire

## Duplex Extension Grade



ANSI color code shown To order IEC color code visit [omega.com](http://omega.com)

**JX** Extension Grade Iron/Constantan Duplex ANSI Type JX

ANSI Color Code: Positive Wire, White; Negative Wire, Red; Overall, Black

**MOST POPULAR MODELS HIGHLIGHTED!**

Insulation	AWG No.	Model Number	Price/1000'	SLE/1000' <sup>††</sup>	Type Wire	Insulation		Max Temp <sup>*</sup>		Nominal Size mm (in)	Wt. <sup>†</sup> kg/300 m (lb/1000')
						Conductor	Overall	°C	°F		
Glass	16	EXGG-J-16	\$625	\$715	Solid	Glass braid	Glass braid	200	392	2.2 x 3.3 (0.085 x 0.130)	9 (18)
PFA	16	EXTT-J-16	1050	1210	Solid	PFA	PFA	200	392	2.2 x 3.9 (0.086 x 0.152)	8 (16)
Neoflon	20	EXTT-J-20	455	520	Solid	PFA	PFA	200	392	1.7 x 2.9 (0.068 x 0.116)	4 (9)
PFA	24	EXTT-J-24	345	395	Solid	PFA	PFA	200	392	1.4 x 2.3 (0.056 x 0.092)	3 (8)
Polyvinyl	14	EXPP-J-14	775	895	Solid	Polyvinyl	Polyvinyl	105	221	3.4 x 7.3 (0.134 x 0.288)	13 (29)
	16	EXPP-J-16	435	495	Solid	Polyvinyl	Polyvinyl	105	221	3.1 x 5.3 (0.123 x 0.207)	10 (22)
	16	EXPP-J-16S	660	790	7 x 24	Polyvinyl	Polyvinyl	105	221	5.5 x 5.7 (0.139 x 0.226)	10 (22)
	20	EXPP-J-20	215	245	Solid	Polyvinyl	Polyvinyl	105	221	2.4 x 3.8 (0.095 x 0.151)	6 (12)
	20	EXPP-J-20S	385	460	7 X 28	Polyvinyl	Polyvinyl	105	221	3.1 x 4.4 (0.123 x 0.175)	6 (12)
24	EXPP-J-24S	320	385	7 x 32	Polyvinyl	Polyvinyl	105	221	2.1 x 3.4 (0.082 x .0134)	4 (9)	
PFA	16	EXFF-J-16	915	1055	Solid	FEP	FEP	200	392	2.2 x 3.9 (0.086 x 0.152)	8 (16)
Neoflon	20	EXFF-J-20	440	505	Solid	FEP	FEP	200	392	1.7 x 2.9 (0.068 x 0.116)	4 (9)
FEP	24	EXFF-J-24	305	345	Solid	FEP	FEP	200	392	1.4 x 2.3 (0.056 x 0.092)	3 (6)

\* Maximum temperature is for extension-grade wire or insulation, whichever is lower.  
 † Weight of spool and wire rounded to the next highest kg/lb (does not include packing material).  
 †† To order special limits of error wire, add "-SLE" to model number before spool length.  
 Ordering Example: EXTT-J-20-25, 25' spool of extension-grade thermocouple wire, Type J, 20 gage, PFA over PFA insulation, \$455 x 0.0625 = \$28.

**TX** Extension Grade Copper/Constantan Duplex ANSI Type TX



ANSI Color Code: Positive Wire, Blue; Negative Wire, Red; Overall, Blue

Insulation	AWG No.	Model Number	Price/1000'	SLE/1000' <sup>†††</sup>	Type Wire	Insulation		Max Temp <sup>*</sup>		Nominal Size mm (in)	Wt. <sup>†</sup> kg/300 m (lb/1000')
						Conductor	Overall	°C	°F		
PFA	16	EXTT-T-16	\$1085	1245	Solid	PFA	PFA	100	212	2.2 x 3.9 (0.086 x 0.152)	8 (16)
Neoflon	20	EXTT-T-20	445	510	Solid	PFA	PFA	100	212	1.7 x 2.9 (0.068 x 0.116)	4 (9)
PFA	24	EXTT-T-24	365	420	Solid	PFA	PFA	100	212	1.4 x 2.3 (0.056 x 0.092)	3 (6)
Polyvinyl	14	EXPP-T-14	810	930	Solid	Polyvinyl	Polyvinyl	100	212	3.4 x 7.3 (0.134 x 0.288)	13 (29)
	16	EXPP-T-16	555	610	Solid	Polyvinyl	Polyvinyl	100	212	3.1 x 5.3 (0.123 x 0.207)	10 (22)
	20	EXPP-T-20	230	265	Solid	Polyvinyl	Polyvinyl	100	212	2.4 x 3.8 (0.095 x 0.151)	6 (12)
	20	EXPP-T-20S	410	490	7 x 28	Polyvinyl	Polyvinyl	100	212	3.1 x 4.4 (0.123 x 0.075)	6 (12)
	24	EXPP-T-24	250	295	Solid	Polyvinyl	Polyvinyl	100	212	2.1 x 3.4 (0.082 x .0134)	2 (4)
24	EXPP-T-24S	335	400	7 x 32	Polyvinyl	Polyvinyl	100	212	2.1 x 3.4 (0.082 x .0134)	4 (9)	
PFA	16	EXFF-T-16	895	1030	Solid	FEP	FEP	100	212	2.2 x 3.9 (0.086 x 0.152)	8 (16)
Neoflon	20	EXFF-T-20	425	490	Solid	FEP	FEP	100	212	1.7 x 1.2 (0.068 x 0.116)	4 (9)
FEP	24	EXFF-T-24	295	340	Solid	FEP	FEP	100	212	1.4 x 2.3 (0.056 x 0.092)	3 (6)

\* Maximum temperature is for extension-grade wire or insulation, whichever is lower.  
 † Weight of spool and wire, rounded to next highest kg/lb (does not include packing material).  
 †† To order special limits of error wire, add "-SLE" to model number before spool length.  
 Ordering Example: EXTT-T-20-50, 50' spool of extension-grade thermocouple wire, type TX, 20 gage, PFA Neoflon insulation, \$445 x 0.1 = \$44.

3 to 4 spools	.10%
5 to 9 spools	.15%
10 to 19 spools	.20%

### SPOOL PRICING

**Note:** Published prices are based on market value at time of printing and are subject to change due to Nickel surcharges, Chromium and precious-metal market fluctuations.

**STANDARD SPOOL LENGTHS**

7.5 m (25')	60 m (200')
15 m (50')	150 m (500')
30 m (100')	300 m (1000')

**FOR LONGER LENGTHS, CONSULT SALES FOR PRICE AND DELIVERY!**

To order standard-length spools, multiply the 300 m or 1000' spool price by the multiplier and round to the nearest dollar.

Example: EXFF-J-16-SLE-50, 50' spool of EXFF-J-16 wire with special limits of error = \$1055 x 0.1 = \$105.

Multiply 300 m or 1000' spool price by multiplier and round to nearest dollar. Consult Sales for price quote.	
7.5 m or 25'	= price from chart x 0.0625
15 m or 50'	= price from chart x 0.1
30 m or 100'	= price from chart x 0.175
60 m or 200'	= price from chart x 0.3
150 m or 500'	= price from chart x 0.5
300 m or 1000'	= price from chart x 1.0

**KX****Extension Grade  
CHROME<sup>®</sup>/  
ALOMEGA<sup>®</sup>  
Duplex ANSI Type KX**ANSI Color Code: Positive Wire,  
Yellow; Negative Wire,  
Red; Overall, Yellow**MOST POPULAR MODELS HIGHLIGHTED!**

Insulation	AWG No.	Model Number	Price/1000'	SLE/1000' <sup>††</sup>	Type Wire	Insulation		Max. Temp <sup>*</sup>		Nominal Size mm (in)	Wt. <sup>†</sup> kg/300 m (lb/1000')
						Conductor	Overall	°C	°F		
Glass	16	EXGG-K-16	\$1095	\$1265	Solid	Glass Braid	Glass Braid	200	392	2.2 x 3.3 (0.085 x 0.130)	9 (17)
Neoflon PFA	16	EXTT-K-16	1575	1815	Solid	PFA	PFA	200	392	2.2 x 3.9 (0.086 x 0.152)	8 (16)
	20	EXTT-K-20	625	715	Solid	PFA	PFA	200	392	1.7 x 3.0 (0.068 x 0.116)	4 (9)
	24	EXTT-K-24	430	520	Solid	PFA	PFA	200	392	1.4 x 2.3 (0.056 x 0.092)	3 (6)
Polyvinyl	14	EXPP-K-14	1360	1570	Solid	Polyvinyl	Polyvinyl	105	221	3.4 x 7.3 (0.134 x 0.288)	13 (28)
	16	EXPP-K-16	785	905	Solid	Polyvinyl	Polyvinyl	105	221	3.1 x 5.3 (0.123 x 0.207)	10 (22)
	16	EXPP-K-16S	1190	1430	7 x 24	Polyvinyl	Polyvinyl	105	221	5.5 x 5.7 (0.139 x 0.226)	10 (22)
	18	EXPP-K-18S	1080	1295	7 x 26	Polyvinyl	Polyvinyl	105	221	3.5 x 5.2 (0.138 x 0.205)	8 (16)
	20	EXPP-K-20	440	505	Solid	Polyvinyl	Polyvinyl	105	221	2.4 x 3.8 (0.095 x 0.151)	6 (12)
	20	EXPP-K-20S	565	675	7 x 28	Polyvinyl	Polyvinyl	105	221	3.1 x 4.4 (0.123 x 0.175)	6 (12)
	24	EXPP-K-24	355	425	Solid	Polyvinyl	Polyvinyl	105	221	1.9 x 3.0 (0.075 x 0.120)	2 (4)
24	EXPP-K-24S	445	535	7 x 32	Polyvinyl	Polyvinyl	105	221	2.1 x 3.4 (0.082 x 0.134)	4 (9)	
Neoflon FEP	16	EXFF-K-16	1415	1630	Solid	FEP	FEP	200	392	2.2 x 3.9 (0.086 x 0.152)	8 (16)
	20	EXFF-K-20	605	695	Solid	FEP	FEP	200	392	1.7 x 2.9 (0.068 x 0.116)	4 (9)
	24	EXFF-K-24	390	450	Solid	FEP	FEP	200	392	1.4 x 2.3 (0.056 x 0.092)	3 (6)

\* Maximum temperature is for extension grade wire or insulation, whichever is lower.

† Weight of spool and wire, rounded to next highest kg/lb. (does not include packing material).

†† To order special limits of error wire, add "-SLE" to model number before spool length

Ordering Example: EXTT-K-20-25, 25' spool of extension grade thermocouple wire, Type KX, 20 gage, stranded, Neoflon PFA insulation, \$625 x 0.0625 = \$39.

**EX****Extension Grade  
CHROME<sup>®</sup>/Constantan  
Duplex ANSI Type EX**

ANSI Color Code: Positive Wire, Purple; Negative Wire, Red; Overall, Purple

Insulation	AWG No.	Model Number	Price/1000'	SLE/1000' <sup>††</sup>	Type Wire	Insulation		Max. Temp <sup>*</sup>		Nominal Size mm (in)	Wt. <sup>†</sup> kg/300 m (lb/1000')
						Conductor	Overall	°C	°F		
Neoflon PFA	16	EXTT-E-16	\$1575	\$1815	Solid	PFA	PFA	200	392	2.2 x 3.9 (0.086 x 0.152)	8 (16)
	20	EXTT-E-20	715	825	Solid	PFA	PFA	200	392	1.7 x 2.9 (0.068 x 0.116)	4 (9)
	24	EXTT-E-24	520	600	Solid	PFA	PFA	200	392	1.4 x 2.3 (0.056 x 0.092)	3 (6)
Polyvinyl	16	EXPP-E-16	1105	1270	Solid	Polyvinyl	Polyvinyl	105	221	3.1 x 5.3 (0.123 x 0.207)	10 (22)
	18	EXPP-E-18S	845	1015	7 x 26	Polyvinyl	Polyvinyl	105	221	3.5 x 5.2 (0.138 x 0.205)	8 (16)
	20	EXPP-E-20	340	390	Solid	Polyvinyl	Polyvinyl	105	221	2.4 x 3.8 (0.095 x 0.151)	6 (14)
	24	EXPP-E-24S	420	505	7 x 32	Polyvinyl	Polyvinyl	105	221	2.1 x 3.4 (0.82 x 0.134)	4 (9)
Neoflon FEP	16	EXFF-E-16	1415	1630	Solid	FEP	FEP	200	392	2.2 x 3.9 (0.086 x 0.152)	8 (16)
	20	EXFF-E-20	700	850	Solid	FEP	FEP	200	392	1.7 x 2.9 (0.068 x 0.116)	4 (9)
	24	EXFF-E-24	455	520	Solid	FEP	FEP	200	392	1.4 x 2.3 (0.056 x 0.092)	3 (6)

\* Maximum temperature is for extension grade wire or insulation, whichever is lower.

† Weight of spool and wire, rounded to next highest kg/lb. (does not include packing material).

†† To order special limits of error wire, add "-SLE" to model number before spool length

Ordering Example: EXPP-E-20-50, 50' spool of extension grade thermocouple wire, Type EX, 20 gage, Polyvinyl over Polyvinyl insulation, \$340 x 0.1 = \$34.

**RX/SX****Extension Grade  
Copper/Alloy#11  
Duplex ANSI  
Type RX and SX**Compensating Extension Wires for Platinum (-) /  
Platinum-Rhodium (+) Thermocouples.

ANSI Color Code: Positive Wire, Black; Negative Wire, Red; Overall, Green

Insulation	AWG No.	Model Number	Price/1000'	Type Wire	Insulation		Max. Temp <sup>*</sup>		Nominal Size mm (in)	Wt. <sup>†</sup> kg/300 m (lb/1000')
					Conductor	Overall	°C	°F		
Glass	20	EXGG-RS-20	\$480	Solid	Glass Braid	Glass Braid	200	392	1.5 x 2.4 (0.060 x 0.095)	3 (6)
	24	EXGG-RS-24	430	Solid	Glass Braid	Glass Braid	200	392	1.3 x 2.0 (0.050 x 0.080)	1.8 (1.4)
Neoflon PFA	20	EXTT-RS-20	610	Solid	PFA	PFA	200	392	1.7 x 2.9 (0.068 x 0.116)	4 (9)
	24	EXTT-RS-24	530	Solid	PFA	PFA	200	392	1.4 x 2.3 (0.056 x 0.092)	3 (6)
Polyvinyl	16	EXPP-RS-16	555	Solid	Polyvinyl	Polyvinyl	105	221	3.0 x 5.0 (0.118 x 0.195)	10 (22)
Neoflon FEP	20	EXFF-RS-20	530	Solid	FEP	FEP	200	392	1.7 x 2.9 (0.068 x 0.116)	4 (9)
	24	EXFF-RS-24	430	Solid	FEP	FEP	200	392	1.4 x 2.3 (0.056 x 0.092)	3 (6)

\* Maximum temperature is for extension grade wire or insulation, whichever is lower.

† Weight of spool and wire, rounded to next highest kg/lb. (does not include packing material).

Ordering Example: EXTT-RS-20-500, 500' spool of extension grade thermocouple wire, Type RX, 24 gage, Neoflon PFA insulation, \$610 x 0.5 = \$305.

**Note:** Published prices are based on market value at time of printing and are subject to change due to Nickel surcharges, Chromium and precious-metal market fluctuations.

# BX

Extension Grade  
Copper/Copper  
Duplex  
ANSI Type BX



ANSI color code shown To order IEC color code visit omega.com

Compensating Extension Wires for Platinum 6% Rhodium (-)/Platinum 30% Rhodium (+)  
Thermocouples ANSI Color Code: Positive Wire, Gray; Negative Wire, Red; Overall, Gray\*\*

**MOST POPULAR MODELS HIGHLIGHTED!**

Insulation	AWG No.	Model Number	Price/1000'	Type Wire	Insulation		Max Temp*		Nominal Size: mm (in)	Wt. † kg/300 m (lb/1000')
					Conductor	Overall	°C	°F		
Glass	20	EXGG-B-20	\$390	Solid	Glass braid	Glass braid	100	212	1.5 x 2.4 (0.060 x 0.095)	4 (9)
PFA	26	EXTT-B-26S	400	7 x 34	PFA	PFA	100	212	1.1 x 1.7 (0.042 x 0.068)	4 (9)
Polyvinyl	24	EXPP-B-24	235	Solid	Polyvinyl	Polyvinyl	100	212	1.9 x 3.1 (0.075 x 0.120)	2 (5)
	24	EXPP-B-24S	370	7 x 32	Polyvinyl	Polyvinyl	100	212	2.2 x 3.4 (0.182 x 0.134)	5 (12)
FEP	26	EXFF-B-26S	345	7 x 34	FEP	FEP	100	212	1.1 x 1.7 (0.042 x 0.068)	2 (5)

\* Maximum temperature is for extension-grade wire or insulation, whichever is lower.

\*\* Black on EXGG wire.

† Weight of spool and wire, rounded to next highest kg (lb) (does not include packing material).

Ordering Example: EXGG-B-20-25, 25' spool of extension grade thermocouple wire, Type BX, 20 gage, stranded, glass insulation, \$390 x 0.0625 = \$25.

# CX

Extension Grade  
W5%Re/W26%Re  
Duplex  
Type CX



Compensating Extension Wires for W5%Re/W26%Re Thermocouples

Color Code: For EXGG Wire, Positive Wire, White/Red Trace; Negative Wire, Red; Overall, White/Red Trace  
For EXXT†† Wire, Positive Wire, White; Negative Wire, White/Red Trace; Overall, White/Red Trace

Insulation	AWG No.	Model Number	Price/1000'	Type Wire	Insulation		Max Temp*		Nominal Size: mm (in)	Wt. † kg/300 m (lb/1000')
					Conductor	Overall	°C	°F		
Nextel Ceramic*	24	EXXC-C-24	\$1750	Solid	Ceramic	Ceramic	260	500	2.9 x 4.4 (0.115 x 0.175)	5 (12)
	24	EXXT-C-24	1585	Solid	Ceramic	Ceramic	260	500	2.2 x 3.4 (0.088 x .0132)	5 (11)
	24	EXXL-C-24	1425	Solid	Ceramic	Ceramic	260	500	2.0 x 3.0 (0.078 x 0.116)	5 (10)
Glass	24	EXGG-C-24	650	Solid	Glass braid	Glass braid	260	500	1.3 x 2.0 (0.050 x 0.080)	3 (7)
PFA	24	EXTT-C-24†††	1200	Solid	PFA	PFA	260	500	1.4 x 2.3 (0.056 x 0.092)	3 (6)

††† Note: Brown PFA jacket, white PFA positive leg and red negative leg.

Note: The XC is the standard braid, XT is a tight braid and XL is a light-duty braid; the three types of braid affect only the amount of Nextel used in manufacturing.

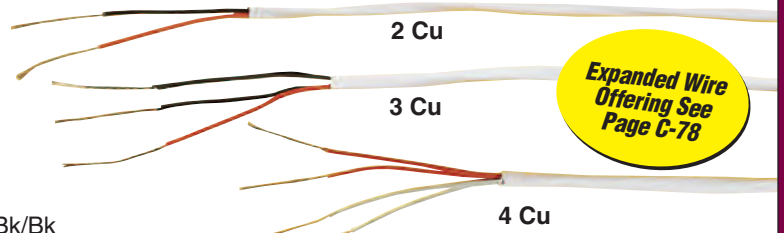
\* Maximum temperature is for extension-grade wire or insulation, whichever is lower.

† Weight of spool and wire, rounded to next highest kg/lb (does not include packing material).

†† Has color tracers on jacket and conductors.

Ordering Example: EXGG-C-24-25, 25' spool of extension-grade thermocouple wire, Type CX, 24 gage, stranded, glass insulation, \$650 x 0.0625 = \$41.

## Thermistor and RTD Extension Wire



### Nickel-Plated Copper Wire\*\*\*

Color Code: 2 Cu-Rd/Bk†††; 3 Cu-Rd/Bk/Bk; 4 Cu-Rd/Rd/Bk/Bk

Insulation	AWG No.	Model Number	Price/1000'	# of Con.	Type Wire	Insulation		Max Temp*		Nominal Size: mm (in)	Wt. † kg/300 m (lb/1000')
						Conductor	Overall	°C	°F		
Glass	20	EXGG-2CU-20	\$370	2	Solid	Glass braid	Glass braid	482	900	1.5 x 2.4 (0.060 x 0.095)	4 (9)
	26	EXGG-2CU-26S	280	2	7 x 34	Glass braid	Glass braid	482	900	1.5 x 1.3 (0.060 x 0.052)	2 (5)
	26	EXGG-3CU-26S	360	3	7 x 34	Glass braid	Glass braid	482	900	1.5 x 1.6 (0.060 x 0.064)	3 (7)
	26	EXGG-4CU-26S	420	4	7 x 34	Glass braid	Glass braid	482	900	1.5 x 1.7 (0.060 x 0.066)	4 (9)
Neoflon PFA	26	EXTT-2CU-26S	480	2	7 x 34	PFA	PFA	260	500	1.1 x 1.7 (0.042 x 0.068)	2 (5)
	26	EXTT-3CU-26S	650	3	7 x 34	PFA	PFA	260	500	1.8 Ø (0.072 Dia.)	4 (9)
	26	EXTT-4CU-26S	700	4	7 x 34	PFA	PFA	260	500	2.1 Ø (0.082 Dia.)	4 (9)
Polyvinyl	24	EXPP-2CU-24S	390	2	7 x 32	Polyvinyl	Polyvinyl	105	221	2.1 x 3.4 (0.082 x 0.134)	5 (10)
	24	EXPP-3CU-24S	520	3	7 x 32	Polyvinyl	Polyvinyl	105	221	4.22 Ø (0.166 Dia.)	6 (14)

\* Maximum temperature is for extension-grade wire or insulation, whichever is lower.

† Weight of spool and wire rounded to the next highest kg/lb (does not include packing material).

\*\*\* Can be welded. ††† Can also be red/gray.

Ordering Example: EXT-3CU-26S-25, 25' spool of thermistor and RTD extension wire, 24 gage, stranded, polyvinyl insulation, \$650 x 0.0625 = \$41.



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