

Thermocouple Wire

Duplex Extension Grade



ANSI color code shown

JX Extension Grade Iron/Constantan Duplex ANSI Type JX



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

To Order visit newportUS.com/EX_TX for Pricing and Details

Insulation	AWG No.	Model Number	Type Wire	Insulation		Max Temp*		Nominal Size mm (inch)	Wt. kg/300 m (lb/1000')
				Conductor	Overall	°C	°F		
Glass	16	EXGG-J-16	Solid	Glass braid	Glass braid	200	392	2.2 x 3.3 (0.085 x 0.130)	9 (18)
PFA	16	EXTT-J-16	Solid	PFA	PFA	200	392	2.2 x 3.9 (0.086 x 0.152)	8 (16)
Neoflon	20	EXTT-J-20	Solid	PFA	PFA	200	392	1.7 x 2.9 (0.068 x 0.116)	4 (9)
PFA	24	EXTT-J-24	Solid	PFA	PFA	200	392	1.4 x 2.3 (0.056 x 0.092)	3 (8)
Polyvinyl	14	EXPP-J-14	Solid	Polyvinyl	Polyvinyl	105	221	3.4 x 7.3 (0.134 x 0.288)	13 (29)
	16	EXPP-J-16	Solid	Polyvinyl	Polyvinyl	105	221	3.1 x 5.3 (0.123 x 0.207)	10 (22)
	16	EXPP-J-16S	7 x 24	Polyvinyl	Polyvinyl	105	221	5.5 x 5.7 (0.139 x 0.226)	10 (22)
	20	EXPP-J-20	Solid	Polyvinyl	Polyvinyl	105	221	2.4 x 3.8 (0.095 x 0.151)	6 (12)
	20	EXPP-J-20S	7 X 28	Polyvinyl	Polyvinyl	105	221	3.1 x 4.4 (0.123 x 0.175)	6 (12)
24	EXPP-J-24S	7 x 32	Polyvinyl	Polyvinyl	105	221	2.1 x 3.4 (0.082 x .0134)	4 (9)	
PFA	16	EXFF-J-16	Solid	FEP	FEP	200	392	2.2 x 3.9 (0.086 x 0.152)	8 (16)
Neoflon	20	EXFF-J-20	Solid	FEP	FEP	200	392	1.7 x 2.9 (0.068 x 0.116)	4 (9)
FEP	24	EXFF-J-24	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.

TX Extension Grade Copper/Constantan Duplex ANSI Type TX



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

To Order visit newportUS.com/EX_TX for Pricing and Details

Insulation	AWG No.	Model Number	Type Wire	Insulation		Max Temp*		Nominal Size mm (inch)	Wt. kg/300 m (lb/1000')
				Conductor	Overall	°C	°F		
PFA	16	EXTT-T-16	Solid	PFA	PFA	100	212	2.2 x 3.9 (0.086 x 0.152)	8 (16)
Neoflon	20	EXTT-T-20	Solid	PFA	PFA	100	212	1.7 x 2.9 (0.068 x 0.116)	4 (9)
PFA	24	EXTT-T-24	Solid	PFA	PFA	100	212	1.4 x 2.3 (0.056 x 0.092)	3 (6)
Polyvinyl	14	EXPP-T-14	Solid	Polyvinyl	Polyvinyl	100	212	3.4 x 7.3 (0.134 x 0.288)	13 (29)
	16	EXPP-T-16	Solid	Polyvinyl	Polyvinyl	100	212	3.1 x 5.3 (0.123 x 0.207)	10 (22)
	20	EXPP-T-20	Solid	Polyvinyl	Polyvinyl	100	212	2.4 x 3.8 (0.095 x 0.151)	6 (12)
	20	EXPP-T-20S	7 x 28	Polyvinyl	Polyvinyl	100	212	3.1 x 4.4 (0.123 x 0.075)	6 (12)
	24	EXPP-T-24	Solid	Polyvinyl	Polyvinyl	100	212	2.1 x 3.4 (0.082 x .0134)	2 (4)
24	EXPP-T-24S	7 x 32	Polyvinyl	Polyvinyl	100	212	2.1 x 3.4 (0.082 x .0134)	4 (9)	
PFA	16	EXFF-T-16	Solid	FEP	FEP	100	212	2.2 x 3.9 (0.086 x 0.152)	8 (16)
Neoflon	20	EXFF-T-20	Solid	FEP	FEP	100	212	1.7 x 1.2 (0.068 x 0.116)	4 (9)
FEP	24	EXFF-T-24	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.

Discount Schedule (1000' Spools Only)	
3 to 4 spools	10%
5 to 9 spools	15%
10 to 19 spools	20%

KX**Extension Grade
CHROME[®]
ALOMEGA[®]
Duplex ANSI Type KX**ANSI Color Code: Positive Wire,
Yellow; Negative Wire,
Red; Overall, Yellow**To Order visit newportUS.com/EX_TX for Pricing and Details**

Insulation	AWG No.	Model Number	Type Wire	Insulation		Max Temp*		Nominal Size mm (inch)	Wt.† kg/300 m (lb/1000')
				Conductor	Overall	°C	°F		
Glass	16	EXGG-K-16	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	Solid	PFA	PFA	200	392	2.2 x 3.9 (0.086 x 0.152)	8 (16)
	20	EXTT-K-20	Solid	PFA	PFA	200	392	1.7 x 3.0 (0.068 x 0.116)	4 (9)
	24	EXTT-K-24	Solid	PFA	PFA	200	392	1.4 x 2.3 (0.056 x 0.092)	3 (6)
Polyvinyl	14	EXPP-K-14	Solid	Polyvinyl	Polyvinyl	105	221	3.4 x 7.3 (0.134 x 0.288)	13 (28)
	16	EXPP-K-16	Solid	Polyvinyl	Polyvinyl	105	221	3.1 x 5.3 (0.123 x 0.207)	10 (22)
	16	EXPP-K-16S	7 x 24	Polyvinyl	Polyvinyl	105	221	5.5 x 5.7 (0.139 x 0.226)	10 (22)
	18	EXPP-K-18S	7 x 26	Polyvinyl	Polyvinyl	105	221	3.5 x 5.2 (0.138 x 0.205)	8 (16)
	20	EXPP-K-20	Solid	Polyvinyl	Polyvinyl	105	221	2.4 x 3.8 (0.095 x 0.151)	6 (12)
	20	EXPP-K-20S	7 x 28	Polyvinyl	Polyvinyl	105	221	3.1 x 4.4 (0.123 x 0.175)	6 (12)
	24	EXPP-K-24	Solid	Polyvinyl	Polyvinyl	105	221	1.9 x 3.0 (0.075 x 0.120)	2 (4)
	24	EXPP-K-24S	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	Solid	FEP	FEP	200	392	2.2 x 3.9 (0.086 x 0.152)	8 (16)
	20	EXFF-K-20	Solid	FEP	FEP	200	392	1.7 x 2.9 (0.068 x 0.116)	4 (9)
	24	EXFF-K-24	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.**EX****Extension Grade
CHROME[®]/Constantan
Duplex ANSI Type EX**

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



Insulation	AWG No.	Model Number	Type Wire	Insulation		Max. Temp*		Nominal Size mm (in)	Wt.† kg/300 m (lb/1000')
				Conductor	Overall	°C	°F		
Neoflon PFA	16	EXTT-E-16	Solid	PFA	PFA	200	392	2.2 x 3.9 (0.086 x 0.152)	8 (16)
	20	EXTT-E-20	Solid	PFA	PFA	200	392	1.7 x 2.9 (0.068 x 0.116)	4 (9)
	24	EXTT-E-24	Solid	PFA	PFA	200	392	1.4 x 2.3 (0.056 x 0.092)	3 (6)
Polyvinyl	16	EXPP-E-16	Solid	Polyvinyl	Polyvinyl	105	221	3.1 x 5.3 (0.123 x 0.207)	10 (22)
	18	EXPP-E-18S	7 x 26	Polyvinyl	Polyvinyl	105	221	3.5 x 5.2 (0.138 x 0.205)	8 (16)
	20	EXPP-E-20	Solid	Polyvinyl	Polyvinyl	105	221	2.4 x 3.8 (0.095 x 0.151)	6 (14)
	24	EXPP-E-24S	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	Solid	FEP	FEP	200	392	2.2 x 3.9 (0.086 x 0.152)	8 (16)
	20	EXFF-E-20	Solid	FEP	FEP	200	392	1.7 x 2.9 (0.068 x 0.116)	4 (9)
	24	EXFF-E-24	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.**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	Type Wire	Insulation		Max. Temp*		Nominal Size mm (in)	Wt.† kg/300 m (lb/1000')
				Conductor	Overall	°C	°F		
Glass	20	EXGG-RS-20	Solid	Glass Braid	Glass Braid	200	392	1.5 x 2.4 (0.060 x 0.095)	3 (6)
	24	EXGG-RS-24	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	Solid	PFA	PFA	200	392	1.7 x 2.9 (0.068 x 0.116)	4 (9)
	24	EXTT-RS-24	Solid	PFA	PFA	200	392	1.4 x 2.3 (0.056 x 0.092)	3 (6)
Polyvinyl	16	EXPP-RS-16	Solid	Polyvinyl	Polyvinyl	105	221	3.0 x 5.0 (0.118 x 0.195)	10 (22)
Neoflon FEP	20	EXFF-RS-20	Solid	FEP	FEP	200	392	1.7 x 2.9 (0.068 x 0.116)	4 (9)
	24	EXFF-RS-24	Solid	FEP	FEP	200	392	1.4 x 2.3 (0.056 x 0.092)	3 (6)

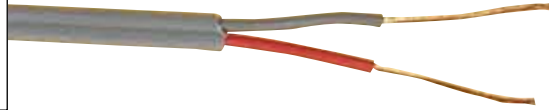
* Maximum temperature is for extension grade wire or insulation, whichever is lower.

† 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.**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

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

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

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 EXXTt Wire, Positive Wire, White; Negative Wire, White/Red Trace; Overall, White/Red Trace

Insulation	AWG No.	Model Number	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	Solid	Ceramic	Ceramic	260	500	2.9 x 4.4 (0.115 x 0.175)	5 (12)
	24	EXXT-C-24	Solid	Ceramic	Ceramic	260	500	2.2 x 3.4 (0.088 x .0132)	5 (11)
	24	EXXL-C-24	Solid	Ceramic	Ceramic	260	500	2.0 x 3.0 (0.078 x 0.116)	5 (10)
Glass	24	EXGG-C-24	Solid	Glass braid	Glass braid	260	500	1.3 x 2.0 (0.050 x 0.080)	3 (7)
PFA	24	EXTT-C-24†††	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.

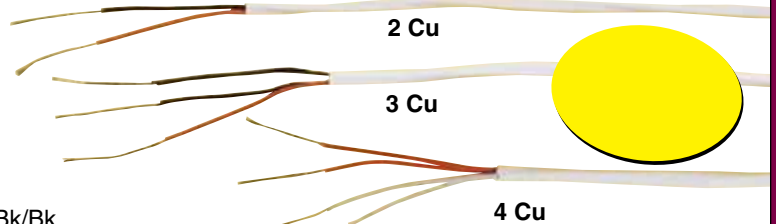
* Maximum temperature is for extension-grade wire or insulation, whichever is lower.

† 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.

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	# 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	2	Solid	Glass braid	Glass braid	482	900	1.5 x 2.4 (0.060 x 0.095)	4 (9)
	26	EXGG-2CU-26S	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	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	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	2	7 x 34	PFA	PFA	260	500	1.1 x 1.7 (0.042 x 0.068)	2 (5)
	26	EXTT-3CU-26S	3	7 x 34	PFA	PFA	260	500	1.8 Ø (0.072 Dia.)	4 (9)
	26	EXTT-4CU-26S	4	7 x 34	PFA	PFA	260	500	2.1 Ø (0.082 Dia.)	4 (9)
Polyvinyl	24	EXPP-2CU-24S	2	7 x 32	Polyvinyl	Polyvinyl	105	221	2.1 x 3.4 (0.082 x 0.134)	5 (10)
	24	EXPP-3CU-24S	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: EXTT-3CU-26S-25, 25' spool of thermistor and RTD extension wire, 24 gage, stranded, polyvinyl insulation.

Ø = diameter.