



**Duplex Insulated
CHROMEGA®-
Constantan
Duplex ANSI Type E**



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

NEWPORT does not use reprocessed PFA or PVC in manufacturing thermocouple wire.

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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		
Ceramic*	14	XC-E-14	Solid	Nextel Ceramic	Nextel Ceramic	650	1200	3.6 x 5.0 (0.140 x 0.200)	18 (38)
	20	XC-E-20	Solid			540	1000	3.4 x 4.8 (0.135 x 0.190)	8 (16)
	20	XT-E-20	Solid			540	1000	2.7 x 3.9 (0.105 x 0.155)	7 (15)
	20	XL-E-20	Solid			540	1000	2.4 x 3.4 (0.095 x 0.135)	7 (14)
	24	XC-E-24	Solid			430	800	2.9 x 4.4 (0.115 x 0.175)	6 (12)
	24	XT-E-24	Solid			430	800	2.2 x 3.4 (0.088 x 0.132)	5 (11)
	24	XL-E-24	Solid			430	800	2.0 x 3.0 (0.078 x 0.116)	5 (10)
Silica*	14	XS-E-14	Solid	Silica	Silica	650	1200	3.6 x 5.0 (0.140 x 0.200)	16 (35)
	20	XS-E-20	Solid			540	1000	2.7 x 3.9 (0.105 x 0.155)	6 (12)
	24	XS-E-24	Solid			430	800	2.2 x 3.4 (0.088 x 0.132)	5 (10)
High Temp Glass**	20	HH-E-20	Solid	Hi Temp Glass	Hi Temp Glass	540	1000	1.5 x 2.7 (0.060 x 0.105)	4 (9)
	24	HH-E-24	Solid			430	800	1.4 x 2.3 (0.055 x 0.090)	3 (5)
Glass	20	GG-E-20	Solid	Glass Braid	Glass Braid	482	900	1.5 x 2.1 (0.060 x 0.095)	4 (9)
	20	GG-E-20S	7 x 28	Glass Braid		482	900	1.5 x 2.5 (0.060 x 0.100)	4 (9)
	24	GG-E-24	Solid	Glass Braid		430	800	1.3 x 2.0 (0.050 x 0.080)	3 (5)
	24	GG-E-24S	7 x 32	Glass Braid		430	800	1.3 x 2.2 (0.050 x 0.085)	3 (5)
	26	GG-E-26	Solid	Glass Braid		430	800	1.1 x 1.9 (0.045 x 0.075)	2 (4)
	30	GG-E-30	Solid	Glass Wrap		320	700	0.9 x 1.3 (0.037 x 0.050)	2 (3)
	36	GG-E-36	Solid	Glass Wrap		320	700	0.8 x 1.1 (0.033 x 0.043)	1 (2)
Glass with Stainless Steel Overbraid	20	GG-E-20-SB	Solid	Glass	SS Braid Over Glass	482	900	2.3 x 3.0 (0.090 x 0.120)	6 (14)
	20	GG-E-20S-SB	7 x 28			482	900	2.3 x 3.2 (0.090 x 0.127)	7 (15)
	24	GG-E-24-SB	Solid			430	800	2.2 x 3.0 (0.085 x 0.117)	5 (11)
	24	GG-E-24S-SB	7 x 32			430	800	2.0 x 2.8 (0.080 x 0.110)	5 (11)
Kapton Polyimide Tape	20	KK-E-20	Solid	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.5 x 2.5 (0.060 x 0.100)	5 (11)
	24	KK-E-24	Solid			260	500	1.3 x 1.9 (0.050 x 0.075)	3 (6)
	30	KK-E-30	Solid			260	500	1.0 x 1.4 (0.040 x 0.055)	3 (5)
Neoflon PFA (High Performance)	20	TT-E-20	Solid	PFA Polymer	PFA Polymer	260	500	1.7 x 3.0 (0.068 x 0.116)	5 (11)
	20	TT-E-20S	7 x 28			260	500	1.9 x 3.2 (0.073 x 0.126)	5 (11)
	22	TT-E-22S	7 x 30			260	500	1.7 x 3.4 (0.065 x 0.133)	4 (9)
	24	TT-E-24	Solid			260	500	1.4 x 2.4 (0.056 x 0.092)	3 (6)
	24	TT-E-24S	7 x 32			260	500	1.6 x 2.6 (0.063 x 0.102)	3 (6)
	30	TT-E-30††	Solid			260	500	0.6 x 1.0 (0.024 x 0.040)	1 (2)
	36	TT-E-36††	Solid			260	500	0.5 x 0.8 (0.019 x 0.030)	1 (2)
	40	TT-E-40††	Solid			260	500	0.4 x 0.7 (0.017 x 0.026)	1 (2)
PFA Polymer w/Twisted and Shielded Conductors	20	TT-E-20-TWSH	Solid	PFA Polymer	PFA Polymer and Shielding	260	500	3.7 (0.15)	9 (20)
	20S	TT-E-20S-TWSH	7 x 28			260	500	3.8 (0.15)	9 (20)
	24	TT-E-24-TWSH	Solid			260	500	2.7 (0.11)	4 (9)
	24S	TT-E-24S-TWSH	7 x 32			260	500	2.9 (0.12)	4 (9)
Neoflon FEP	20	FF-E-20	Solid	FEP Polymer	FEP Polymer	200	392	1.7 x 3.0 (0.068 x 0.116)	5 (11)
	24	FF-E-24	Solid			200	392	1.4 x 2.4 (0.056 x 0.092)	3 (6)
FEP Polymer w/Twisted and Shielded Conductors	20	FF-E-20-TWSH	Solid	FEP Polymer	FEP Polymer and Shielding	200	392	3.7 (0.15)	9 (20)
	20S	FF-E-20S-TWSH	7 x 28			200	392	3.8 (0.15)	9 (20)
	24	FF-E-24-TWSH	Solid			200	392	2.7 (0.11)	4 (9)
	24S	FF-E-24S-TWSH	7 x 32			200	392	2.9 (0.12)	4 (9)
TFE Tape Polymer	20	TFE-E-20	Solid	TFE Tape Polymer	Fused TFE Tape Polymer	260	500	1.5 x 2.5 (0.060 x 0.100)	5 (11)
	20S	TFE-E-20S	7 x 28			260	500	1.5 x 2.7 (0.060 x 0.105)	5 (11)
	24	TFE-E-24	Solid			260	500	1.3 x 1.9 (0.050 x 0.075)	3 (6)
	24S	TFE-E-24S	7 x 32			260	500	1.3 x 2.2 (0.050 x 0.085)	3 (6)
Polyvinyl	24	PR-E-24	Solid	Polyvinyl	Polyvinyl	105	221	1.4 x 2.3 (0.050 x 0.086)	3 (5)

* Has color tracers on jacket and conductors.

** HH Wire has trace thread in positive leg, negative leg is red, overall has trace thread.

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

†† Overall color clear.

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

Ordering Example: GG-E-24-SLE-1000, 1000' (300 m) of Type E duplex insulated special limits of error thermocouple wire.

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.