

INSULATED THERMOCOUPLE EXTENSION WIRE

Types, Construction & Characteristics

Type	Single Conductor		Duplex Conductors		Temperature Continuous	Rating** ANSI Single Reading	Physical Properties			Notes
	Insulation	Impregnation	Insulation	Impregnation			ANSI Color Coded	Abrasion Resistance	Moisture Resistance	
151	Felted ServTex™ .015" to #24, .020" to #20 & larger	Hot Melt Compound	ServTex Braid	Moisture Resistant Compound	288 C 550 F	343 C 650°F	Yes	Good	Fair	Impregnation retained to 149°C (300°F)
153	Teflon® TFE Tape (not fused) .004" /Felted ServTex .020"	Silicone Modified Resin	ServTex Braid	Moisture Resistant Compound	288 C 550 F	343 C 650°F	Yes	Good	Good	Impregnation retained to 204°C (400°F); Teflon good to 260°C (500°F)
303	Enamel/Glass Braid .006"	Silicone Modified Resin	Glass Braid .006"	Silicone Modified Resin	+400 F	538 C 1000 F	Yes	Fair	Good	
401	Polyvinyl .012" to #20 #16 to .018"	—	Cotton Braid	Wax	+190 F	—	Yes	Good	Excellent	
502	Polyvinyl .012" to #20 #16 to .018"	—	Polyvinyl .016"	—	-20 to +221 F	—	Yes	Good	Excellent	
503	Polyvinyl .015"	—	Twisted with Filler Cotton Serve/ PVC .030"	—	-20 to +221 F	—	Yes	Good	Excellent	Stranded conductor only
510	Polyvinyl .015"	—	Polyvinyl .020" Twisted	—	-20 to + 221°F	—	Yes	Good	Excellent	Aluminum/Mylar shield for computer applicaton. #16 uses #18 Drain Wire. #20 uses #20 Drain Wire.
514	Tefzel .008"	—	Tefzel .010"	—	150°C 302 F	200°C 392°F	Yes	Excellent	Excellent	
515	Tefzel .008"	—	Tefzel .010" Twisted	—	150°C 302 F	200°C 392°F	Yes	Excellent	Excellent	Aluminum/Mylar shield with 20 AWG Drain Wire.

*Trade name of E I duPont de Nemours & Co

**Thermocouple extension grade wire is only calibrated up to 204 C (400 F)

TYPE JX

Insulated Thermocouple Extension Grade Wire

DUPLEX—ANSI Type JX

Series 350 - Type JX Iron/Constantan: Positive wire - White; Negative wire - Red; Overall Jacket - Black.

Order Code	Size of Wire		Type of Wire	Ohms†	Insulations		Nominal Over-all Size, Inches Minor x Major	Approx Shipping Wt. Lbs per 1000 Ft	Overbraid Selection Code‡
	B & S Gauge	Inch			Each Conductor	Over all			
350-14-151	14	.0641	Solid	.086	Felted ServTex	ServTex Braid	.195 x .288	40	1,3,4,5
350-14-502	14	.0641	Solid	.086	Polyvinyl	Polyvinyl	.130 x .226	37	1,2,3,4
350-16-151	16	.0508	Solid	.137	Felted ServTex	ServTex Braid	.174 x .250	32	1,3,4,5
350-16-153	16	.0508	Solid	.137	Teflon TFE, Felted ServTex	ServTex Braid	.183 x .220	32	1,3,4,5
350-16-303	16	.0508	Solid	.137	Enamel, Glass Braid	Glass Braid	.085 x .154	18	1,2,3,4
350-16-401	16	.0508	Solid	.137	Polyvinyl	Weatherproof Braid	.122 x .204	25	1,2,3,4,5
350-16-502	16	.0508	Solid	.137	Polyvinyl	Polyvinyl	.111 x .188	27	1,2,3,4
350-16-510	16	.0508	Solid	.137	Polyvinyl	Twisted, Alum. Mylar/PVC	.222	28	1,3,4,5
350-16F-151	16	—	Stranded	.125	Felted ServTex	ServTex Braid	.188 x .260	31	1,3,4,5
350-16F-515	16	—	Stranded	.125	Tefzel	Twisted, Alum. Mylar/Tefzel	.160	29	1,2,3,4
350-18F-503	18	—	Stranded	.185	Polyvinyl	Twisted, Filler, Polyvinyl	.254	35	1,3,4,5
350-20-502	20	.0320	Solid	.357	Polyvinyl	Polyvinyl	.095 x .158	14	1,2,3,4
350-20-510	20	.0320	Solid	.357	Polyvinyl	Twisted, Alum. Mylar/PVC	.184	20	1,2,3,4
350-20-514	20	.0320	Solid	.357	Tefzel	Tefzel	.068 x .116	10	1,2,3,4
350-20F-502	20	—	Stranded	.317	Polyvinyl	Polyvinyl	.115 x .190	14	1,2,3,4

*Single legs only. Ohms value is for one foot at 20 C (68° F)

†Compensating Extension wires for Tungsten 5% / Tungsten 26%, Rhenium Thermocouples, Hoskins Alloys 405/426 Color Code. Negative Wire, Red; Positive Wire, Orange; Over-all, Orange

‡Ohms per double foot at 20 C (68° F)

■May appear loosely braided and oversize

‡Overbraid Selection Code

1—Stainless Steel Wire Braid S
2—Tinned Copper Wire Braid C
3—Flat Stainless Steel Ribbon Braid F
4—Flat Stainless Steel Spiral Wrap W
5—Half Oval Galvanized Steel Spiral Wrap G

To order standard catalog material with overbraid do so by catalog number as follows: Desired 350-20-502 with flat stainless steel ribbon braid. Specify: Catalog Number 350-20-502-F.