

GG Fiberglass

T-24-GG

Copper/Constantan

PRODUCT DESCRIPTION

Most popular and widely applied of all glass insulation's. A color-coded fiberglass braid saturated with a high-performance resin is used for insulation of the single conductors and jacket.

PERFORMANCE FEATURES

- Designed for continuous use at temperatures to 950°F (480°C), intermittent use to 1200°F (540°C).
- Good moisture and chemical resistance; fair abrasion resistance

APPLICATIONS

- Heat Treating
- Glass & Ceramic Kilns
- Foundries
- Extensive applications in aluminum processing

	Insulation	Color Cod	e: Positive - Yellow	Negat	ive - Red	Overall - I	Brown		
		Insulat	ion	AWG	Туре	Temperat	ture (°F)	Nominal	Weight
	Order Code	Singles	Jacket	No.	Wire	Continuous	Intermittent	Size (in)	1000 ft.
	K-14-GG	Fiberglas	Fiberglas	14	Solid	950	1200	.102 x .185	34
	K-16-GG	Fiberglas	Fiberglas	16	Solid	950	1200	.087 x .155	25
Calibration:	K-20-GG	Fiberglas	Fiberglas	20	Solid	950	1200	.058 x .105	9
ANSI Type K	K-20S-GG	Fiberglas	Fiberglas	20	Strd	950	1200	.065 x .125	10
Chromel/Alumel	K-24-GG	Fiberglas	Fiberglas	24	Solid	950	1200	.042 x .070	5
	Insulation		e: Positive - White Fiberglas	Negat	ive - Red Solid	Overall - I 950	1200	.102 x .185	34
	J-16-GG	Fiberglas	U U	16	Solid	950	1200	.087 x .155	18
Calibration:		Fiberglas	Fiberglas	20	Solid	950	1200	.058 x .105	9
ANSI Type J	J-20-GG	Fiberglas	Fiberglas	20	Strd	950	1200	.065 x .125	10
ron/Constantan	J-20S-GG	Fiberglas	Fiberglas			0.7.7.7.7.		.065 x .125	5
ron/Constantan	J-24-GG	Fiberglas	Fiberglas	24	Solid	950	1200	.042 X .070	5
	Insulation	Color Cod	e: Positive - Purple	Negat	ive - Red	Overall -	Brown		
Calibration:	E-20-GG	Fiberglas	Fiberglas	20	Solid	950	1200	.058 x .105	9
ANSI Type E	E-20S-GG	Fiberglas	Fiberglas	20	Strd	950	1200	.065 x .125	9
Chromel/Constantan	E-24-GG	Fiberglas	Fiberglas	24	Solid	950	1200	.042 x .070	5
	Insulation	Color Cod	e: Positive - Blue	Negat	ive - Red	Overall -	Brown		
Calibration:	T-20-GG	Fiberglas	Fiberglas	20	Solid	950	1200	.058 x .105	9
ANSI Type T	T-20S-GG	Fiberglas	Fiberglas	20	Strd	950	1200	.065 x .125	9

24

Solid

950

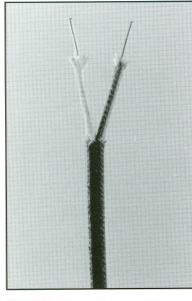
1200

.042 x .070

5

Fiberglas

Fiberglas



HGHG High Temp Glass

PRODUCT DESCRIPTION

A high-temperature, high tensile strength fiberglass, either colorcoded or with tracer yarn, is braided on both the single conductors and the overall jacket. Both are impregnated with a 500°F modified resin saturant.

PERFORMANCE FEATURES

Designed for continuous use at temperatures to 1200°F (650°C), intermittent use to 1450°F (790°C).

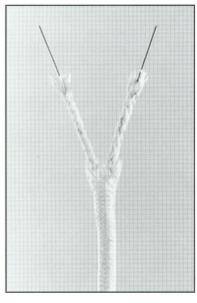
Good moisture and abrasion resistance

APPLICATIONS

- Preheating & Stress Relieving of Forgings
- Heat Treating for annealing, aging, or hardening
- Furnace Temperature Surveys

		Insulation	n	AWG	Туре	Temperat	ture (°F)	Nominal	Weight
	Order Code	Singles	Jacket	No.	Wire	Continuous	Intermittent	Size (in)	1000 ft
	K-14-HGHG	Hi TempFiberglas	Hi Temp Fiberglas	14	Solid	1200	1500	.115 x .205	36
Calibration:	K-16-HGHG	Hi TempFiberglas	Hi Temp Fiberglas	16	Solid	1200	1500	.105 x .185	20
ANSI Type K	K-20-HGHG	Hi TempFiberglas	Hi Temp Fiberglas	20	Solid	1200	1500	.085 x .145	15
Chromel/Alumel	K-24-HGHG	Hi TempFiberglas	Hi Temp Fiberglas	24	Solid	1200	1500	.075 x .120	10
	and the second se	Color Code: Po							
	Inculation	Color Codo: Po	citivo - White	vitenal	- Red Tr	acer Overall	- White wi	th Black Trac	cer
	Insulation J-14-HGHG	Color Code: Po Hi TempFiberglas	sitive - White N Hi Temp Fiberglas		e - Red Tr Solid	acer Overall	- White wi	th Black Trac .115 x .205	36
Calibration:	and the second se			14					
	J-14-HGHG	Hi TempFiberglas	Hi Temp Fiberglas	14 16	Solid	1200	1500	.115 x .205	36
ANSI Type J	J-14-HGHG J-16-HGHG	Hi TempFiberglas Hi TempFiberglas	Hi Temp Fiberglas Hi Temp Fiberglas	14 16 20	Solid Solid	1200 1200	1500 1500	.115 x .205 .105 x .185	36 20
ANSI Type J Iron/Constantan	J-14-HGHG J-16-HGHG J-20-HGHG J-24-HGHG	Hi TempFiberglas Hi TempFiberglas Hi TempFiberglas Hi TempFiberglas	Hi Temp Fiberglas Hi Temp Fiberglas Hi Temp Fiberglas Hi Temp Fiberglas	14 16 20 24	Solid Solid Solid Solid	1200 1200 1200 1200	1500 1500 1500 1500	.115 x .205 .105 x .185 .085 x .145 .075 x .120	36 20 15 10
Calibration: ANSI Type J Iron/Constantan Calibration: ANSI Type E	J-14-HGHG J-16-HGHG J-20-HGHG J-24-HGHG	Hi TempFiberglas Hi TempFiberglas Hi TempFiberglas	Hi Temp Fiberglas Hi Temp Fiberglas Hi Temp Fiberglas Hi Temp Fiberglas	14 16 20 24	Solid Solid Solid Solid	1200 1200 1200 1200	1500 1500 1500 1500	.115 x .205 .105 x .185 .085 x .145 .075 x .120	36 20 15 10

Insulation Color Code: Positive - Yellow Tracer Negative - Red Tracer Overall - White with Yellow Tracer





PRODUCT DESCRIPTION

High temperature silica fibers are braided on the single conductors as well as the overall jacket. Because saturant is not used, this product is not recommended for abrasive applications. Each conductor as well as the overall jacket is braided with this high temperature yarn to provide maximum flexibility at extremely high temperatures. A tracer is braided into insulation for polarity and calibration identification.

PERFORMANCE FEATURES

- Designed for continuous use at temperatures to 1800°F (980°C), intermittent use to 2000°F (1095°C).
- Not recommended for applications where insulation may be subject to abrasion.

APPLICATIONS

- Furnace survey thermocouples
- Heat treating



STW High Temp "S" Glass

PRODUCT DESCRIPTION

A high temperature, high tensile strength, extra heavy fiber glass yarn is braided over each conductor. The insulated, colorcoded conductors are impregnated with high-temperature modified resin and twisted to form a pair. This product construction does not include an overall jacket.

PERFORMANCE FEATURES

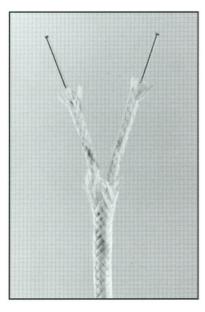
- Designed for continuous use at temperatures to 1200°F (650°C), intermittent readings to 1450°F (790°C).
- Good abrasion resistance
- Easily stripped and terminated
- Economically practical for short-duration applications

APPLICATIONS

- Homogenizing furnaces for billet preheating
- Furnace temperature surveys
- Heat treating

		Insulati	on	AWG	Туре	Temperat	ture (°F)	Nominal	Weight/
Calibration:	Order Code	Singles	Jacket	No.	Wire	Continuous	Intermittent	Size (in)	1000 ft.
ANSI Type K	K-20-RR	Refrasil	Refrasil	20	Solid	1800	2000	.102 x .168	15
Chromel/Alumel	K-24-RR	Refrasil	Refrasil	24	Solid	1800	2000	.090 x .145	5
Calibration: ANSI Type J Iron/Constantan			sitive - White Ne						15
	J-20-RR	Refrasil	Refrasil	20	Solid	1800	2000	.102 x .168	15
Calibration: ANSI Type E Chromel/Constantan	Insulation C	Color Code: Pos	itive - Purple Trac	20	gative - R	ed Tracer C	Overall - Wh	ite with Purple	Tracer
Calibration: ANSI Type K	Insulation (Color Code: Pos	sitive - Yellow	Negat	ive - Red			200200000000000000000000000000000000000	
Chromel/Alumel	K-20-STW	Hi Temp Fiberglas	None: Single Twisted	20	Solid	1200	1500	.102 x .168	15
Calibration: ANSI Type J	Insulation C	olor Code: Pos	itive - White	Negat	ive - Red				

Insulation Color Code: Positive - Yellow Tracer Negative - Red Tracer Overall - Yellow Tracer





PRODUCT DESCRIPTION

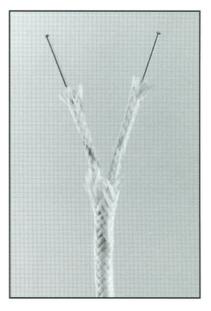
Highest temperature flexible insulation available. The braided yarn is a composition of the oxides of alumina, boric and silicone. Each conductor as well as the overall jacket are braided with this high temperature yarn to provide maximum flexibility at extremely high temperatures.

PERFORMANCE FEATURES

- Designed for continuous use at temperatures to 2200°F (1205°C), intermittent use to 2600°F (1430°C).
- Good abrasion and chemical resistance.

APPLICATIONS

- As a replacement for beaded thermocouples
- Heat treating
- Coke ovens
- Soaking pits
- Furnace survey thermocouples
- Brick & tile kilns



MCFCF Ceramic Fiber

PRODUCT DESCRIPTION & PERFORMANCE FEATURES

This construction has a mica barrier tape applied to each single conductor prior to being insulated with the ceramic fiber yarns. The construction is identical to the CFCF construction shown in the adjacent column except for the addition of a light jacket saturant and the mica tape, which protects against potential shorting from the back carbon residue which forms when the product is used in applications where the air is limited, such as thermocouples in protection tubes. The mica may also provide moisture protection during temperature cycling.

APPLICATIONS

For use in closed tubes or protected atmosphere

- As a replacement for beaded thermocouples
- Heat treating
- Coke ovens
- Soaking pits
- Furnace survey thermocouples
- Brick & tile kilns

Insulation Color Code: Positive - Yellow Tracer Negative - Red Tracer Overall - White with Yellow Tracer

		Insulation	1	AWG	Туре	Temperat	ure (°F)	Nominal	Weight/
	Order Code	Singles	Jacket	No.	Wire	Continuous	Intermittent	Size (in)	1000 ft.
	K-14-MCFCF	Mica Ceramic Braid	Ceramic Braid	14	Solid	2200	2600	.160 x .280	42
	K-16-MCFCF	Mica Ceramic Braid	Ceramic Braid	16	Solid	2200	2600	.145 x .255	30
	K-20-MCFCF	Mica Ceramic Braid	Ceramic Braid	20	Solid	2200	2600	.125 x .195	16
Calibration:	K-14-CFCF	Ceramic Braid	Ceramic Braid	14	Solid	2200	2600	.138 x .235	40
ANSI Type K	K-16-CFCF	Ceramic Braid	Ceramic Braid	16	Solid	2200	2600	.120 x .210	28
Chromel/Alumel	K-20-CFCF	Ceramic Braid	Ceramic Braid	20	Solid	2200	2600	.110 x .180	14
Calibration:	Insulation C	olor Code: Posit	ive - White No	egative -	Red Trac	er Overall -	White with	Black Tracer	
ANSI Type J	J-20-MCFCF	Mica Ceramic Braid	Ceramic Braid	20	Solid	2200	2600	.125 x .195	16
ANSI Type J Iron/Constantan	J-20-MCFCF J-20-CFCF	Mica Ceramic Braid Ceramic Braid	Ceramic Braid Ceramic Braid	20 20	Solid Solid	2200 2200	2600 2600		1
								.125 x .195	16
ron/Constantan	J-20-CFCF		Ceramic Braid	20	Solid	2200	2600	.125 x .195 .110 x .180	16 14
	J-20-CFCF	Ceramic Braid	Ceramic Braid	20	Solid	2200	2600	.125 x .195 .110 x .180	16 14



TT Extruded, FEP Teflon*

PRODUCT DESCRIPTION

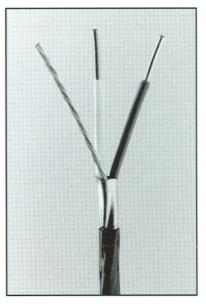
Color-coded FEP Teflon* is extruded over each single conductor. The single insulated conductors are laid parallel and insulated with an extruded jacket of FEP Teflon*.

PERFORMANCE FEATURES

- Designed for continuous use at temperatures to 400°F (205°C), intermittent use to 500°F (260°C).
- Most economic and popular of the Teflon* constructions.
- Excellent low-friction jacket facilitates easy pulling of wire through conduits.

APPLICATIONS

- Power generating plants
- Petroleum plants
- Field heat treating



TAT Extruded, Shielded FEP Teflon*

PRODUCT DESCRIPTION

Color-coded FEP Teflon* is extruded over each single conductor. Insulated conductors are twisted with a stranded drain wire, and the twisted construction is covered with an aluminum/Mylar tape.

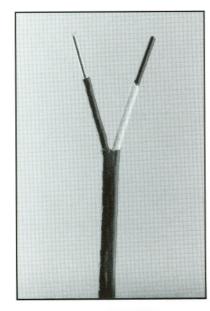
PERFORMANCE FEATURES

- Designed for continuous use at temperatures to 400°F (260°C), intermittent use to 500°F (260°C).
- Twisted/Shielded construction minimizes electrical interference.
- Excellent abrasion, moisture and chemical resistance.

APPLICATIONS

- Power generating plants
- Petroleum plants
- Field heat treating

	Insulation (Color Code: Po	sitive - Yellow N	legative	e - Red	Overall - E	Brown		
		Insula	tion	AWG	Туре	Temperat	ture (°F)	Nominal	Weight
	Order Code	Singles	Jacket	No.	Wire	Continuous	Intermittent	Size (in)	1000 ft
Calibration:	K-20-TT	FEP Teflon*	FEP Teflon*	20	Solid	400	500	.067 x .115	11
ANSI Type K	K-20-TAT	FEP Teflon*	FEP Teflon* Tw/Sh	20	Solid	400	500	.135	20
Chromel/Alumel	K-24-TT	FEP Teflon*	FEP Teflon*	24	Solid	400	500	.055 x .090	7
	Insulation (Color Code: Po	sitive - White	Nega	tive - Red	Overall - E	Brown		
Calibration:	J-20-TT	FEP Teflon*	FEP Teflon*	20	Solid	400	500	.067 x .115	11
ANSI Type J	J-20-TAT	FEP Teflon*	FEP Teflon* Tw/Sh	20	Solid	400	500	.135	20
ron/Constantan	J-24-TT	FEP Teflon*	FEP Teflon*	24	Solid	400	500	.060 x .100	7
	Insulation (Color Code: Po	sitive - Purple	Negat	ive - Red	Overall - E	Brown		
Calibration:	E-20-TT	FEP Teflon*	FEP Teflon*	20	Solid	400	500	.067 x .115	11
NSI Type E	E-20-TAT	FEP Teflon*	FEP Teflon* Tw/Sh	20	Solid	400	500	.135	20
chromel/Constantan	E-24-TT	FEP Teflon*	FEP Teflon*	24	Solid	400	500	.055 x .090	7
	Insulation (Color Code: Po	sitive - Blue	Negat	ive - Red	Overall - B	rown		
Calibration:	T-20-TT	FEP Teflon*	FEP Teflon*	20	Solid	400	500	.067 x .115	11
NSI Type T	T-20-TAT	FEP Teflon*	FEP Teflon* Tw/Sh	20	Solid	400	500	.135	20
Copper/Constantan	T-24-TT	FEP Teflon*	FEP Teflon*	24	Solid	400	500	.055 x .090	7
	*Trademark of E.I	. DuPont							



TFTF Fused TFE Tape

PRODUCT DESCRIPTION

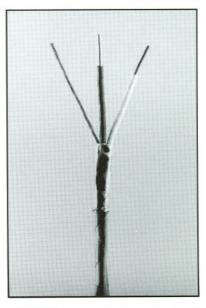
A double wrap of heat-fused TFE tape is spirally applied over each single conductor and as an overall jacket. Duplex construction.

PERFORMANCE FEATURES

- Designed for continuous use at temperatures to 500°F (260°C), intermittent use to 600°F (315°C).
- Exhibits all the advantages of an extruded product while providing the additional temperature rating.
- Excellent moisture and chemical resistance; good abrasion resistance.

APPLICATIONS

- Petroleum plants
- Power plants
- Aircraft bonding
- Glass, ceramic & brick applications



TFATF Fused Shielded TFE Tape

PRODUCT DESCRIPTION

A double wrap of heat-fused tape is spirally applied over each single conductor . Insulated conductors are twisted with a stranded drain wire and the twisted construction is covered with an aluminum/ Kapton* tape. The outer jacket consists of doublewrapped heat-fused TFE tape.

PERFORMANCE FEATURES

- Designed for continuous use at temperatures to 500°F (260°C), intermittent use to 600°F (315°C).
- Exhibits all the advantages of an extruded product while providing the additional temperature rating.
- Excellent moisture and chemical resistance; good abrasion resistance.
- Twisted/Shielded construction minimizes electrical interference.

APPLICATIONS

- Petroleum plants
- Power plants
- Aircraft bonding
- Glass, ceramic & brick applications

	moulation	color couc. I	ositive renow	reguint	1104				
		Insul	ation	AWG	Туре	Tempera	ture (°F)	Nominal	Weight/
	Order Code	Singles	Jacket	No.	Wire	Continuous	Intermittent	Size (in)	1000 ft.
Calibration:	K-20-TFTF	TFE Tape	TFE Tape	20	Solid	500	600	.060 x .104	11
ANSI Type K	K-24-TFTF	TFE Tape	TFE Tape	24	Solid	500	600	.050 x .080	5
Chromel/Alumel	K-20-TFATF	TFE Tape	TFE Tape Tw/Sh	20	Solid	500	600	.135	17
	Insulation	Color Code: P	ositive - White	Nega	tive - Red	Overall -	Brown		
Calibration:	J-20-TFTF	TFE Tape	TFE Tape	20	Solid	500	600	.060 x .104	11
ANSI Type J	J-24-TFTF	TFE Tape	TFE Tape	24	Solid	500	600	.050 x .080	5
Iron/Constantan	J-20-TFATF	TFE Tape	TFE Tape Tw/Sh	20	Solid	500	600	.135	17
	Insulation	Color Code: P	ositive - Purple	Negat	ive - Red	Overall - I	Brown		
Calibration:	E-20-TFTF	TFE Tape	TFE Tape	20	Solid	500	600	.060 x .104	11
ANSI Type E	E-24-TFTF	TFE Tape	TFE Tape	24	Solid	500	600	.050 x .080	5
Chromel/Constantan	E-20-TFATF	TFE Tape	TFE Tape Tw/Sh	20	Solid	500	600	.135	17
	Insulation	Color Code: P	ositive - Blue	Negat	ive - Red	Overall - E	Brown		
Calibration:	T-20-TFTF	TFE Tape	TFE Tape	20	Solid	500	600	.060 x .104	11
ANSI Type T	T-24-TFTF	TFE Tape	TFE Tape	24	Solid	500	600	.050 x .080	5
Copper/Constantan	T-20-TFATF	TFE Tape	TFE Tape Tw/Sh	20	Solid	500	600	.135	17
	*Trademark of E	L DuPont		1	1				

Overall - Brown Insulation Color Code: Positive - Yellow Negative - Red

Trademark of E.I. DuPont

Precision Measurements, Inc. 3715 Northcrest Road, Suite #2 Atlanta, Georgia 30340 Tel: 770-457-7099 FAX: 770-458- 5687





PRODUCT DESCRIPTION

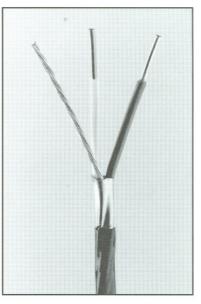
Color-coded PFA Teflon* is extruded over each single conductor. A PFA Teflon* jacket is extruded over the insulated parallel singles to form a duplex construction.

PERFORMANCE FEATURES

- Designed for continuous use at temperatures to 500°F (260°C), intermittent use to 550°F (290°C).
- Provides the highest temperature rating of our extruded products.
 Excellent moisture and chemical resistance; good abrasion
- resistance.
 Very smooth finish on outer jacket.

APPLICATIONS

- Food processing plants
- Glass, ceramic and brick plants
- Power plants



PFAPF Extruded, Shielded PFA Teflon*

PRODUCT DESCRIPTION

Color-coded PFA Teflon* is extruded over each single conductor. Insulated conductors are twisted with a stranded drain wire, and the twisted construction is covered with an aluminum/Kapton* tape. A PFA Teflon* jacket is extruded over the shielded pair.

PERFORMANCE FEATURES

- Designed for continuous use at temperatures to 500°F (260°C), intermittent use to 550°F (290°C).
- Twisted/Shielded construction minimizes electrical interference
- Excellent abrasion, moisture and chemical resistance

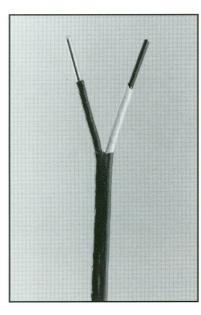
APPLICATIONS

- General plant installations
- Aerospace
- Glass, ceramic and Brick plants
- Power generating

	Insulation (Color Code: Po	sitive - Yellow	legative	e - Red	Overall - E	Brown		
		Insula	ation	AWG	Туре	Temperat	ture (°F)	Nominal	Weight/
	Order Code	Singles	Jacket	No.	Wire	Continuous	Intermittent	Size (in)	1000 ft.
Calibration:	K-20-PFPF	PFA Teflon*	PFA Teflon*	20	Solid	500	550	.067 x .115	11
ANSI Type K	K-20-PFAPF	PFA Teflon*	PFA Teflon* Tw/Sh	20	Solid	500	550	.135	20
Chromel/Alumel	K-24-PFPF	PFA Teflon*	PFA Teflon*	24	Solid	500	550	.055 x .090	7
	Insulation (Color Code: Po	sitive - White	Negat	tive - Red	Overall -	Brown		
Calibration:	J-20-PFPF	PFA Teflon*	PFA Teflon*	20	Solid	500	550	.067 x .115	11
ANSI Type J	J-20-PFAPF	PFA Teflon*	PFA Teflon* Tw/Sh	20	Solid	500	550	.135	20
Iron/Constantan	J-24-PFPF	PFA Teflon*	PFA Teflon*	24	Solid	500	550	.055 x .090	7
	Insulation (Color Code: Po	sitive - Purple	Negat	ive - Red	Overall - E	Brown		
Calibration:	E-20-PFPF	PFA Teflon*	PFA Teflon*	20	Solid	500	550	.067 x .115	11
ANSI Type E	E-20-PFAPF	PFA Teflon*	PFA Teflon* Tw/Sh	20	Solid '	500	550	.135	20
Chromel/Constantan	E-24-PFPF	PFA Teflon*	PFA Teflon*	24	Solid	500	550	.055 x .090	7
	Insulation (Color Code: Po	sitive - Blue	Negati	ive - Red	Overall - B	rown		
Calibration:	T-20-PFPF	PFA Teflon*	PFA Teflon*	20	Solid	500	550	.067 x .115	11
ANSI Type T	T-20-PFAPF	PFA Teflon*	PFA Teflon* Tw/Sh	20	Solid	500	550	.135	20
Copper/Constantan	T-24-PFPF	PFA Teflon*	PFA Teflon*	24	Solid	500	550	.055 x .090	7
	Trade and of El	D. D							

*Trademark of E.I. DuPont

Precision Measurements, Inc. 3715 Northcrest Road, Suite #2-Atlanta, Georgia 30340 Tel: 770-457-7099 FAX: 770-458- 5687



KK Kapton* Tape

PRODUCT DESCRIPTION

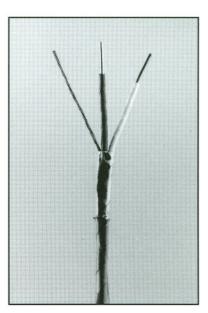
Very tough, durable double wrap of heat-fused polyimide tape is applied over each conductor. Each insulated single conductor is coated with an ANSI color coded polyimide varnish. The jacket consists of a double-wrapped heat-fused polyimide tape.

PERFORMANCE FEATURES

- Designed for continuous use at temperatures to 500°F (315°C), intermittent readings to 650°F (430°C).
- Color-coded single conductor & a double-wrapped jacket offers easy polarity identification
- Excellent abrasion, moisture and chemical resistance

APPLICATIONS

- Power Plants
- Kilns
- Petroleum Plants
- Aerospace Industry
- Cryogenic Applications



KAK Kapton* Tape

PRODUCT DESCRIPTION

Very tough, durable double wrap of heat-fused polyimide tape is applied over each conductor. Insulated conductors are twisted with a stranded drain wire and the twisted construction is cov ered with aluminum/ Kapton* tape. The outer jacket consists of a double-wrapped heat-fused polyimide tape.

PERFORMANCE FEATURES

- Designed for continuous use at temperatures to 500°F (315°C), intermittent readings to 650°F (430°C).
- Color-coded single conductor & a double-wrapped jacket offers easy polarity identification
- Excellent abrasion, moisture and chemical resistance
- Twisted/Shielded construction minimizes electrical interference

APPLICATIONS

- Power Plants
- Kilns
- Petroleum Plants
- Aerospace Industry
- Cryogenic Applications

	Insulation	Color Cod	e: Positive - Yellow	Negat	ive - Red	Overall - I	Brown		
		Insulat	tion	AWG	Туре	Temperat	ture (°F)	Nominal	Weight/
	Order Code	Singles	Jacket	No.	Wire	Continuous	Intermittent	Size (in)	1000 ft.
	K-16-KK	Kapton*	Kapton*	16	Solid	500	650	.072 x .140	21
Calibration:	K-20-KK	Kapton*	Kapton*	20	Solid	500	650	.052 x .102	11
ANSI Type K	K-20-KAK	Kapton*	Kapton* Tw/Sh	20	Solid	500	650	.120	13
Chromel/Alumel	K-24-KK	Kapton*	Kapton*	24	Solid	500	650	.042 x .075	5
	Insulation	Color Cod	e: Positive - White	Negat	ive - Red	Overall - I	Brown		
Calibration:	J-16-KK	Kapton*	Kapton*	16	Solid	500	650	.072 x .140	21
ANSI Type J	J-20-KK	Kapton*	Kapton*	20	Solid	500	650	.052 x .102	11
Iron/Constantan	J-24-KK	Kapton*	Kapton*	24	Solid	500	650	.042 x .075	5
	Insulation	Color Cod	e: Positive - Purple	Negat	ive - Red	Overall - I	Brown		
Calibration:	E-20-KK	Kapton*	Kapton*	20	Solid	500	650	.052 x .102	11
ANSI Type E	E-20-KAK	Kapton*	Kapton* Tw/Sh	20	Solid	500	650	.120	15
Chromel/Constantan	E-24-KK	Kapton*	Kapton*	24	Solid	500	650	.042 x .075	5
	Insulation	Color Cod	e: Positive - Blue	Negat	ive - Red	Overall - I	Brown		
Calibration:	T-16-KK	Kapton*	Kapton*	16	Solid	500	650	.072 x.140	21
ANSI Type T	T-20-KK	Kapton*	Kapton*	20	Solid	500	650	.052 x .102	11
Copper/Constantan	T-20-KAK	Kapton*	Kapton* Tw/Sh	20	Solid	500	650	.120	15
	* Tradamark E	I DuPont					-		

* Trademark E. I. DuPont

Precision Measurements, Inc. 3715 Northcrest Road, Suite #2 Atlanta, Georgia 30340 Tel: 770-457-7099 FAX: 770-458- 5687

Thermocouple Extension Wire



PP Polyvinyl Duplex

PRODUCT DESCRIPTION

The least expensive extension wire insulation available. The PVC individual color-coded conductors are insulated with 15 mils (nominal) of PVC, then parallel conductors are given a 20 mil PVC jacket. The jacket is easily stripped for separation of insulated conductors for assembly.

PERFORMANCE FEATURES

- Designed for continuous use at temperatures to 220°F (105°C),
 - Good abrasion and chemical resistance.

APPLICATIONS

- Permanent sensor fabrication
- Laboratories
- Test facilities





PAP Extruded, Shielded Polyvinyl

PRODUCT DESCRIPTION

This construction is the same as the adjacent construction, except this construction has an aluminum/Mylar tape drain wire and twisted pair. This provides isolation and eliminates internal and external noise in the circuit.

PERFORMANCE FEATURES

- Continuous temperatures rating of 220°F (105°C),
- Shielded construction provides excellent noise protection.
- Excellent moisture and chemical resistance; good chemical & abrasion resistance.
- Approved UL Sub 13 PLTC.

APPLICATIONS

General plant installation

	Insulation	Color Code: F	Positive - Yellow	Negative	e - Red	Overall - Ye	llow	
		Insu	ulation	AWG	Туре	Temp. (°F)	Nominal	Weight
	Order Code	Singles	Jacket	No.	Wire	(Continuous)	Size (in)	1000 ft.
Calibration:	KX-16-PP	Polyvinyl	Polyvinyl	16	Solid	220	.120 x .207	26
ANSI Type KX	KX-16-PAP	Polyvinyl	Polyvinyl Tw/Sh	16	Solid	220	.250	39
Chromel/Alumel	KX-16S-PP	Polyvinyl	Polyvinyl	16	Stranded	220	.140 x .230	26
Shi one/Alumer	KX-20-PP	Polyvinyl	Polyvinyl	20	Solid	220	.095 x .150	14
	KX-20-PAP	Polyvinyl	Polyvinyl Tw/Sh	20	Solid	220	.165	22
	KX-20S-PP	Polyvinyl	Polyvinyl	20	Stranded	220	.105 x .170	16
	Insulation	Color Code: F	Positive - White	Negat	ive - Red	Overall - BI	ack	
Calibration:	JX-16-PP	Polyvinyl	Polyvinyl	16	Solid	220	.120 x .207	26
ANSI Type JX	JX-16-PAP	Polyvinyl	Polyvinyl Tw/Sh	16	Solid	220	.250	39
	JX-16S-PP	Polyvinyl	Polyvinyl	16	Stranded	220	.140 x .230	26
ron/Constantan	JX-20-PP	Polyvinyl	Polyvinyl	20	Solid	220	.095 x .150	14
	JX-20-PAP	Polyvinyl	Polyvinyl Tw/Sh	20	Solid	220	.165	22
	JX-20S-PP	Polyvinyl	Polyvinyl	20	Stranded	220	.105 x .170	16
	Insulation	Color Code: F	Positive - Purple	Negati	ve - Red	Overall - Pu	rple	
Calibration:	EX-16-PP	Polyvinyl	Polyvinyl	16	Solid	220	.120 x .207	26
ANSI Type EX	EX-16-PAP	Polyvinyl	Polyvinyl Tw/Sh	16	Solid	220	.250	39
Chromel/Constantan	EX-16S-PP	Polyvinyl	Polyvinyl	16	Stranded	220	.140 x .230	26
onioneroonstantan	EX-20-PP	Polyvinyl	Polyvinyl	20	Solid	220	.095 x .150	14
	EX-20-PAP	Polyvinyl	Polyvinyl Tw/Sh	20	Solid	220	.165	22
	EX-20S-PP	Polyvinyl	Polyvinyl	20	Stranded	220	.105 x .170	16
	Insulation	Color Code: F	Positive - Blue	Negat	ive - Red	Overall - BI	ue	
Calibration:	TX-16-PP	Polyvinyl	Polyvinyl	16	Solid	220	.120 x .207	26
ANSI Type TX	TX-16-PAP	Polyvinyl	Polyvinyl Tw/Sh	16	Solid	220	.250	39
	TX-16S-PP	Polyvinyl	Polyvinyl	16	Stranded	220	.140 x .230	26
Copper/Constantan	TX-20-PP	Polyvinyl	Polyvinyl	20	Solid	220	.095 x .150	14
	TX-20-PAP	Polyvinyl	Polyvinyl Tw/Sh	20	Solid	220	.165	22
	TX-20S-PP	Polyvinyl	Polyvinyl	20	Stranded	220	.105 x .170	16
	Insulation	Color Code: F	Positive - Black	Negati	ve - Red	Overall - Gre	en	
Calibration:	RSX-16-PP	Polyvinyl	Polyvinyl	16	Solid	220	.120 x .207	26
ANSI Type RSX	RSX-16-PAP	Polyvinyl	Polyvinyl Tw/Sh	16	Solid	220	.250	39
Copper/Alloy 11	RSX-16S-PP	Polyvinyl	Polyvinyl	16	Stranded	220	.140 x .230	26
copper/Alloy 11	RSX-20-PP	Polyvinyl	Polyvinyl	20	Solid	220	.095 x .150	14
	RSX-20-PAP	Polyvinyl	Polyvinyl Tw/Sh	20	Solid	220	.165	22
	RSX-20S-PP	Polyvinyl	Polyvinyl	20	Stranded	220	.105 x .170	16

Precision Measurements, Inc. 3715 Northcrest Road, Suite #2 Atlanta, Georgia 30304 Tel: 770-457-7099 FAX: 770-458-5687



SFSF Synthetic Fiber

PRODUCT DESCRIPTION

Tough, heavy insulated for use where abrasion resistance on braided insulation is required. Conductors are insulated with a braided composite synthetic yarn and impregnated with a colorcoded moisture resistant saturant. The insulated conductors are laid parallel and insulated with a heavy yarn composite synthetic fiber jacket which is then coated with the same saturant*

PERFORMANCE FEATURES

- Designed for continuous use at temperatures to 500°F (260°C), intermittent use to 650°F (340°C).
- Excellent abrasion and good chemical resistance.

APPLICATIONS

- Glass & ceramic manufacturing
- Heat treating
- Metal working plants

* Above construction can be supplied with skived Teflon[®] tape over each conductor prior to applying the synthetic overbraid for increased chemical resistance. Contact us for the part number and ordering information.

Solid

500

.140 x 200

18

Teflon is a trademark of E.I. DuPont.

	Inculat		414/0	-	- (0		
	Insulat		AWG	Туре	Temp (°F)	Nominal	Weight
Order Code	Singles	Jacket	No.	Wire	Continuous	Size (in)	1000 ft.
KX-16-SFSF	Synthetic Fiber	Brided Synthetic Fiber	16	Solid	500	.170 x .215	32
KX-20-SFSF	Synthetic Fiber	Brided Synthetic Fiber	20	Solid	500	.140 x 200	18
	Color Code: Po			tive - Re			
Insulation C JX-16-SFSF	Synthetic Fiber	Brided Synthetic Fiber	Nega	solid	d Overall	- Black	32
							32 18
JX-16-SFSF JX-20-SFSF	Synthetic Fiber Synthetic Fiber	Brided Synthetic Fiber Brided Synthetic Fiber	16	Solid	500	.170 x .215	
JX-16-SFSF JX-20-SFSF	Synthetic Fiber	Brided Synthetic Fiber Brided Synthetic Fiber	16 20	Solid	500 500	.170 x .215	
JX-16-SFSF JX-20-SFSF	Synthetic Fiber Synthetic Fiber	Brided Synthetic Fiber Brided Synthetic Fiber	16 20	Solid Solid	500 500	.170 x .215 .140 x .200	

Brided Synthetic Fiber 20

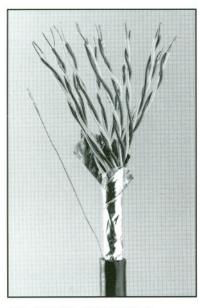
Calibration: ANSI Type KX Chromel/Alumel

Calibration: ANSI Type JX Iron/Constantan

Calibration: ANSI Type RSX Copper/Alloy 11

RSX-20-SFSF Synthetic Fiber

Thermocouple Extension Wire



UL PLTC 300 VOLT PVC Insulation & Jacket Overall Shield

Cable Specifications:

Conductors: 20 AWG Solid Thermocouple Extension Wire Single Insulation: 15 mils 105°C PVC
Color Code: Jacket and individual pairs are per ANSI MC96.1
Construction: Twisted pairs
Identification of pair: One conductor of each pair is numbered
Twist: Lay is approximately 2.5 inches
Overall Shield: .002" aluminized polyester backed tape over lapped to provide 100% coverage when flexed
Overall Drain Wire: Stranded uninsulated tinned copper in continuous contact with shield
Communications Wire: 22 AWG stranded copper wire insulated and color coded orange
Ripcord: Assists in jacket removal Jacket Insulation: 90°C Flame retardant PVC

Features:

- UL Listed under Subject 13
- Passes IEEE 383 70,000 BTU 1 hour flame test (Non- propagating)
- · Excellent moisture, chemical & abrasion resistance

Overall Shielded Cable

Order Code	Number of Pairs	Nominal Outer Jacket Thickness	Nominal O.D. (Inches)	Minimum Bending Radius (Inches)	Maximum Pulling Tension (Ibs.)	Net Wt (Ibs./ 1000 ft)
(*)-20-UPAP	1	.035	.220	1.45	26	27
(*)-2-20-UPAP	2	.042	.322	2.00	40	50
(*)-4-20-UPAP	4	.042	.370	2.50	75	76
(*)-6-20-UPAP	6	.052	.440	2.70	105	110
(*)-8-20-UPAP	8	.052	.475	3.00	142	129
(*)-10-20-UPAP	10	.052	.540	3.25	170	155
(*)-12-20-UPAP	12	.052	.560	3.25	210	175
(*)-16-20-UPAP	16	.062	.645	3.70	275	230
(*)-20-20-UPAP	20	.062	.670	4.00	330	280
(*)-24-20-UPAP	24	.062	.745	4.80	405	325
(*)-36-20-UPAP	36	.072	.890	6.00	600	470
(*)-50-20-UPAP	50	.072	.995	6.00	830	640

(*) Specify KX, JX, EX, TX, or RSX Calibration

Thermocouple Extension Wire



UL PLTC 300 VOLT PVC Insulation & Jacket Individual & Overall Shield

Cable Specifications:

Conductors: 20 AWG Solid Thermocouple Extension Wire Single Insulation: 5 mils 105°C PVC Color Code: Jacket and individual pairs are per ANSI MC96.1 Construction: Twisted pairs Identification of pair: One conductor of each pair is numbered Twist: Lav is approximately 2.5 inches Pair Shield: Aluminized Polyester backed tape overlapped to provide coverage when flexed Pair Drain Wire: Stranded uninsulated tinned copper in continuous contact with shield Overall Shield: .002" aluminized polyester backed tape over lapped to provide 100% coverage when flexed Overall Drain Wire: Stranded uninsulated tinned copper in continuous contact with shield Communications Wire: 22 AWG stranded copper wire insulated and color coded orange Ripcord: Assists in jacket removal Jacket Insulation: 90°C Flame retardant PVC

Features:

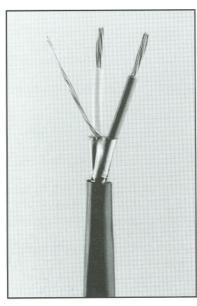
- UL Listed under Subject 13
- Passes IEEE 383 70,000 BTU 1 hour flame test (Non- propagating)
- · Excellent moisture, chemical & abrasion resistance

Order Code	Number of Pairs	Nominal Outer Jacket Thickness	Nominal O.D. (Inches)	Minimum Bending Radius (Inches)	Maximum Pulling Tension (Ibs.)	Net Wt (Ibs./ 1000 ft)
(*)-2-20-UPAAP	2	.040	.365	2.90	50	64
(*)-4-20-UPAAP	4	.052	.450	3.40	95	105
(*)-6-20-UPAAP	6	.052	.525	4.20	140	140
(*)-8-20-UPAAP	8	.052	.570	4.45	180	170
(*)-10-20-UPAAP	10	.062	.685	5.45	225	222
(*)-12-20-UPAAP	12	.062	.690	5.45	260	250
(*)-16-20-UPAAP	16	.062	.765	5.90	340	310
(*)-20-20-UPAAP	20	.062	.845	6.70	430	375
(*)-24-20-UPAAP	24	.072	.930	7.50	520	455
(*)-36-20-UPAAP	36	.072	1.040	8.20	780	625
(*)-50-20-UPAAP	50	.072	1.200	9.45	1090	835

Individual & Overall Shielded Cable

(*) Specify KX, JX, EX, TX, or RSX Calibration

Single-Pair & Triad Electronic Instrument Wire



Cable Specifications:

Conductors: 7-strand Copper Wire Single Insulation: 15 mils 105°C PVC Construction: Twisted pair/Triad Twist: Lay is approximately 2.5 inches Color Code: Black and White (Triad: Black, White, Red) Overall Shield: 002" aluminized polyester backed tape over lapped to provide 100% coverage when flexed Overall Drain Wire: Stranded uninsulated tinned copper in continuous contact with shield

Jacket Insulation: 90°C Flame retardant PVC

Features:

- UL Listed under Subject 13
- Passes IEEE 383 70,000 BTU 1 hour flame test
- · Non- propagating
- · Excellent moisture, chemical & abrasion resistance

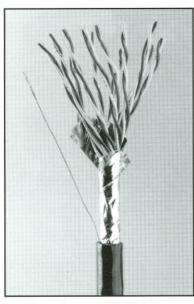
UL PLTC 300 VOLT PVC Insulation & Jacket Overall Shield

Shielded Electronic Instrument Wire

Order Code	Conductor Size AWG	Number of Conductors	Nominal Outer Jacket Thickness	Nominal O.D. (Inches)	Minimum Bending Radius (Inches)	Maximum Pulling Tension (Ibs.)	Net Wt (Ibs./ 1000 ft)
Cu-20S-PAP	20	2	.020*	.180	1	21	18
Cu-18S-PAP	18	2	.020*	.200	1 1/4	34	25
Cu-16S-PAP	16	2	.020*	.230	1 1/2	54	34
Cu-20S-UPAP	20	2	.035	.210	1 1/4	21	24
Cu-18S-UPAP	18	2	.035	.230	1 1/2	34	30
Cu-16S-UPAP	16	2	.035	.270	1 3/4	54	42
Cu-3c-20S-PAP	20	3	.020*	.190	1 1/4	29	23
Cu-3c-18S-PAP	18	3	.020*	.215	1 1/2	47	32
Cu-3c-16S-PAP	16	3	.020*	.245	1 5/8	75	45
Cu-3c-20S-UPAP	20	3	.035	.235	1 1/2	29	32
Cu-3c-18S-UPAP	18	3	.035	.245	1 5/8	47	39
Cu-3c-16S-UPAP	16	3	.035	.280	1 7/8	75	53

*Note: Products with 20 mil jacket are not U.L. Listed

Multiple-Pair Electronic Instrument Wire



Cable Specifications:

Conductors: 7-strand 20 AWG Copper Wire Single Insulation: 15 mils 105°C PVC Color Code: Black and White Construction: Twisted pairs Identification of pair: One conductor of each pair is numbered Twist: Lay is approximately 2.5 inches

- **Overall Shield:** 002" aluminized polyester backed tape over lapped to provide 100% coverage when flexed
- **Overall Drain Wire:** Stranded uninsulated tinned copper in continuous contact with shield

Communications Wire: 22AWG stranded copper wire insulated and color coded orange Jacket Insulation: 90°C Flame retardant PVC

Features:

- UL Listed under Subject 13
- · Passes IEEE 383 70,000 BTU 1 hour flame test
- Non- propagating
- · Excellent moisture, chemical & abrasion resistance

UL PLTC 300 VOLT PVC Insulation & Jacket Overall Shield

Shielded Electronical Instrument Wire

Order Code	Number of Pairs	Nominal Outer Jacket Thickness	Nominal O.D. (Inches)	Minimum Bending Radius (Inches)	Maximum Pulling Tension (Ibs.)	Net Wt (Ibs./ 1000 ft)
Cu-2-20S-UPAP	2	.050"	.250	2 5/8	50	60
Cu-4-20S-UPAP	4	.050"	.405	2 3/4	79	86
Cu-6-20S-UPAP	6	.050"	.450	3	145	110
Cu-8-20S-UPAP	8	.050"	.495	3 1/4	185	134
Cu-10-20S-UPAP	10	.050"	.554	3 3/4	230	160
Cu-12-20S-UPAP	12	.050"	.574	3 7/8	271	183
u-16-20S-UPAP	16	.060"	.660	4 1/2	360	246
u-20-20S-UPAP	20	.060	.716	4 3/4	450	293
Cu-24-20S-UPAP	24	.060"	.772	5 1/8	540	339
Cu-36-20S-UPAP	36	.070"	.904	6	800	489
Cu-50-20S-UPAP	50	.070"	1.049	6 7/8	1120	645

Multiple-Pair Electronic Instrument Wire



UL PLTC 300 VOLT PVC Insulation & Jacket Individual & Overall Shield

Shielded Electronical Instrument Wire

Cable Specifications: Conductors: 7-strand 20 AWG Copper Wire Single Insulation: 15 mils 105°C PVC

Single Insulation: 15 mils 105°C PVC
Color Code: Black and White
Construction: Twisted pairs
Identification of pair: One conductor of each pair is numbered
Twist: Lay is approximately 2.5 inches
Pair Shield: Aluminized polyester backed tape overlapped to provide coverage when flexed
Pair Drain Wire: Stranded uninsulated tinned copper in continuous contact with shield
Overall Shield: 002" aluminized polyester backed tape over lapped to provide 100% coverage when flexed
Overall Drain Wire: Stranded uninsulated tinned copper in continuous contact with shield
Overall Drain Wire: Stranded uninsulated tinned copper in continuous contact with shield
Communications Wire: 22AWG stranded copper wire

Jacket Insulation: 90°C Flame retardant PVC

Features:

UL Listed under Subject 13Passes IEEE 383 70,000 BTU 1 hour flame test

insulated and color coded orange

- Passes IEEE 383 70,000 BT
 Non- propagating
- Excellent moisture, chemical & abrasion resistance

Order Code	Number of Pairs	Nominal Outer Jacket Thickness	Nominal O.D. (Inches)	Minimum Bending Radius (Inches)	Maximum Pulling Tension (Ibs.)	Net Wt (Ibs./ 1000 ft)
Cu-2-20S-UPAAP	2	.050"	.352	2 1/4	60	69
Cu-4-20S-UPAAP	4	.050"	.435	3	115	102
Cu-6-20S-UPAAP	6	.050"	.489	3 1/4	170	132
Cu-8-20S-UPAAP	8	.050"	.543	3 5/8	220	162
Cu-10-20S-UPAAP	10	.050"	.650	4 3/8	280	215
Cu-12-20S-UPAAP	12	.050"	.670	4 1/2	335	243
Cu-16-20S-UPAAP	16	.060"	.739	5	440	302
Cu-20-20S-UPAAP	20	.060	.819	5 1/2	550	372
Cu-24-20S-UPAAP	24	.060"	.900	6 1/8	600	443
Cu-36-20S-UPAAP	36	.070"	1.050	7	980	611
Cu-50-20S-UPAAP	50	.070"	1.225	8	1370	805

Thermocouple Wire & Cable

Metal Overbraid Coverings



S Cu 1600 Braided Metal Coverings

Ordering Code Suffix: -S

Braided material: 304 Stainless-Steel round wire braid Continuous Service Temperature: 1600°F (900°C) 85% Minimum Coverage

General Purpose Stainless Steel, subject to carbide precipitation between 900°F and 1600°F

Applied to wire sizes from 14 AWG to 30 AWG

Ordering Code Suffix: -Cu

Braided material: Tinned copper round wire braid 85% Minimum Coverage

Shields against external electrostatic interference Applied to wire sizes from 14 AWG to 30 AWG

Ordering Code Suffix: -1600

Braided material: Inconel 600 round wire braid Continuous Service Temperature: 2100°F (1500°C) Excellent for severly corrosive applications and has high

resistance to oxidizing and reducing atmospheres Applied to wire sizes from 14 AWG to 30 AWG



X Wrapped Sprial Armor

Ordering Code Suffix: -S

Armor material: Half-oval Galvanized Iron 90% Minimum Coverage

Better resistance to crushing and cutting than braided products

Applied to wire sizes from 14 AWG to 30 AWG

Ordering Code Example

Part number J-20-GG selected from Insulated Thermocouple Wire Section

> Mfg with Stainless Steel Overbraid should be ordered as:

> > J-20-GGS