

Vitreous Silica Insulation

SINGLE CONDUCTOR			DUPLEX CONDUCTOR		TEMP. RATING		PHYSICAL PROPERTIES			
Type	Insulation (Inches)	Impregnation	Insulation (Inches)	Impregnation	Continuous	ANSI Sg. Reading	Color-Code	Abrasion-Resistance	Moisture-Resistance	Notes
301	Vitreous Silica Fiber 0.015	None	Vitreous Silica Fiber 0.020	None	871 °C [1600 °F]	1093 °C [2000 °F]	No	Fair	Fair	

Ceramic Fiber Insulation

SINGLE CONDUCTOR			DUPLEX CONDUCTOR		TEMP. RATING ^[1]		PHYSICAL PROPERTIES			
Type	Insulation (Inches)	Impregnation	Insulation (Inches)	Impregnation	Continuous	ANSI Sg. Reading	Color-Code	Abrasion-Resistance	Moisture-Resistance	Notes
350	Ceramic Fiber Braid 0.018	None	Ceramic Fiber Braid 0.018	None	1204 °C [2200 °F]	1430 °C [2600 °F]	No	Good	Fair	

Polyvinyl Insulation

SINGLE CONDUCTOR			DUPLEX CONDUCTOR		TEMP. RATING		PHYSICAL PROPERTIES			
Type	Insulation (Inches)	Impregnation	Insulation	Impregnation	Continuous	ANSI Sg. Reading	Color-Code	Abrasion-Resistance	Moisture-Resistance	Notes
505	Polyvinyl Extr. 0.012-0.014	None	Singles Fused-Ripcord	None	(-29 to 105) °C [-20 to 221] °F	None	Yes	Good	Excellent	

Fluoropolymer Insulations

SINGLE CONDUCTOR			DUPLEX CONDUCTOR		TEMP. RATING		PHYSICAL PROPERTIES			
Type	Insulation (Inches)	Impregnation	Insulation (Inches)	Impregnation	Continuous	ANSI Sg. Reading	Color-Code	Abrasion-Resistance	Moisture-Resistance	Notes
506	FEP Extr. 0.005	None	FEP Extr. 0.005	None	204 °C [400 °F]	260 °C [500 °F]	Yes	Good	Excellent	
507	FEP Extr. 0.008	None	FEP Extr. 0.010	None	204 °C [400 °F]	260 °C [500 °F]	Yes	Good	Excellent	
508	TFE tape fused 0.005	None	TFE Tape fused 0.0075	None	260 °C [500 °F]	316 °C [600 °F]	Yes	Very Good	Excellent	
509	FEP Extr. 0.009	None	FEP Extr. 0.010 Twisted	None	204 °C [400 °F]	260 °C [500 °F]	Yes	Good	Excellent	Polyester shield w/ #20 drain wire
516	Extruded PFA	None	Extruded PFA	None	260 °C [500 °F]	316 °C [600 °F]	Yes	Good	Excellent	
517	Extruded PFA	None	Twisted; Extr. PFA Overall	None	260 °C [500 °F]	316 °C [600 °F]	Yes	Good	Excellent	Polyester shield w/ drain wire
595	FEP Extruded	None	FEP Extruded	None	204 °C [400 °F]	260 °C [500 °F]	Yes	Good	Excellent	Stainless steel overbraid inner

Polyimide Insulations

SINGLE CONDUCTOR			DUPLEX CONDUCTOR		TEMP. RATING		PHYSICAL PROPERTIES			
Type	Insulation (Inches)	Impregnation	Insulation (Inches)	Impregnation	Continuous	ANSI Sg. Reading	Color-Code	Abrasion-Resistance	Moisture-Resistance	Notes
511	Fused Polyimide Tape 0.004	None	None twisted	None	316 °C [600 °F]	427 °C [800 °F]	^[2] ^[2]	Excellent	Excellent	FEP binder melts @ 260 °C [500 °F]
512	Fused Polyimide Tape 0.004	None	Fused Polyimide 0.004	None	316 °C [600 °F]	427 °C [800 °F]	^[2]	Excellent	Excellent	FEP binder melts @ 260 °C [500 °F]
513	Fused Polyimide Tape, 0.006 Polyimide Enamel	None	Fused Polyimide 0.004	None	316 °C [600 °F]	427 °C [800 °F]	Yes singles only	Excellent	Excellent	FEP binder melts @ 260 °C [500 °F]

Fluoropolymer Insulation

SINGLE CONDUCTOR			DUPLEX CONDUCTOR		TEMP. RATING		PHYSICAL PROPERTIES			
Type	Insulation (Inches)	Impregnation	Insulation (Inches)	Impregnation	Continuous	ANSI Sg. Reading	Color-Code	Abrasion-Resistance	Moisture-Resistance	Notes
514	ETFE Extr. 0.008	None	ETFE Extr. 0.010	None	150 °C [302 °F]	200 °C [392 °F]	Yes	Good	Excellent	

[1] These wires have no impregnation on insulation

[2] Both legs have Tracer