

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	

Teflon® 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	Teflon® FEP Extr. 0.005	None	Teflon® FEP Extr. 0.005	None	204 °C [400 °F]	260 °C [500 °F]	Yes	Good	Excellent	
507	Teflon® FEP Extr. 0.008	None	Teflon® FEP Extr. 0.010	None	204 °C [400 °F]	260 °C [500 °F]	Yes	Good	Excellent	
508	Teflon® TFE Tape fused 0.005	None	Teflon® TFE Tape fused 0.0075	None	260 °C [500 °F]	316 °C [600 °F]	Yes	Very Good	Excellent	
509	Teflon® FEP Extr. 0.009	None	Teflon® FEP Extr. 0.010 Twisted	None	204 °C [400 °F]	260 °C [500 °F]	Yes	Good	Excellent	Aluminum/Mylar® 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	Aluminum/Mylar® shield w/drain wire
595	Teflon® FEP Extruded	None	Teflon® (FEP) Extruded	None	204 °C [400 °F]	260 °C [500 °F]	Yes	Good	Excellent	Stainless steel overbraid inner

Kapton® 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 Kapton® Tape 0.004	None	None twisted	None	316 °C [600 °F]	427 °C [800 °F]	[2]	Excellent	Excellent	FEP binder melts @ 260 °C [500 °F]
512	Fused Kapton® Tape 0.004	None	Fused Kapton® 0.004	None	316 °C [600 °F]	427 °C [800 °F]	[2]	Excellent	Excellent	FEP binder melts @ 260 °C [500 °F]
513	Fused Kapton® Tape, 0.006 Polyimide Enamel	None	Fused Kapton® 0.004	None	316 °C [600 °F]	427 °C [800 °F]	Yes singles only	Excellent	Excellent	FEP binder melts @ 260 °C [500 °F]

Tefzel® 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	Tefzel® Extr. 0.008 (ETFE)	None	Tefzel® Extr. 0.010 (ETFE)	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

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