

TABLE 1: Properties of different sheath materials of SPE cables

Jacket	Halogen-Free	Flame Retardancy	Low Smoke	Price	Oil Resistance	Repeated Bending	Abrasion Resistance	UL Test Possibilities	Flame
PVC UL	no	medium-high	no	low-medium	low-high	medium	medium	VW1, FT4	FT1
FRNC/LSOH/LSZH	yes	medium-high	yes	medium	low	low	low	VW1, FT4	FT1
PE	yes	no	yes	medium	low	low	low	no	
PUR UL	yes	medium	medium	high	high	high	high	VW1, CFT	FT1
TPE (Santoprene)	no	medium	medium	high	high	high	high	VW1, CFT	FT1
TPE (Santoprene)	yes	no	medium	high	high	high	high	no	

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