

## Jacket Material Selection Chart

	Polyvinyl Chloride (PVC)	Polyethylene (PE)	Neoprene	Chlorosulphonated Polyethylene (CP)	Thermoplastic CP
<b>Mechanical</b>					
Abrasion Resistance	Good	Excellent	Good	Good	Excellent
Tensile Strength	Excellent	Excellent	Excellent	Excellent	Good
Elongation	Good	Excellent	Excellent	Excellent	Good
Compression Resistance	Good	Excellent	Excellent	Excellent	Good
Flexibility	Good	Fair	Excellent	Excellent	Fair
<b>Environmental</b>					
Flame	Good	Poor	Excellent	Excellent	Good
Fresh Water	Good	Exceptional	Excellent	Excellent	Excellent
Salt Water	Good	Exceptional	Excellent	Excellent	Excellent
Motor Oil	Good	Excellent	Good	Good	Good
Fuel Oil	Good	Slight swelling above 60 °C	Good	Good	Poor above 110 °C
Crude Oil	Good	Slight swelling above 60 °C	Good	Good	Poor above 110 °C
Creosote	Poor	Good	Fair	Fair	Good
Gasoline	Good	Excellent	Poor	Poor	Excellent
Kerosene	Good	Slight swelling at higher temperature	Poor	Poor	Slight swelling at higher temperature
Isopropyl Alcohol	Fair	Good	Fair	Good	Good
Wood Alcohol	Fair	Good	Fair	Good	Good
Grain Alcohol	Fair	Good	Fair	Good	Good
Sulfuric Acid	Excellent	Excellent	Excellent	Excellent	Excellent
Nitric Acid	Excellent	Excellent	Excellent	Excellent	Excellent
Hydrochloric Acid	Excellent	Excellent	Excellent	Excellent	Excellent
Sodium Hydroxide (Lye)	Good	Excellent	Good	Excellent	Excellent
Potassium Hydroxide (Potash)	Good	Excellent	Good	Excellent	Excellent
Calcium Hydroxide (Lime)	Good	Excellent	Poor	Fair	Excellent
Acetone	Poor	Excellent	Poor	Fair	Good
Methyl Ethyl Ketone (MEK)	Poor	Good	Poor	Fair	Good
Ethyl Acetate	Poor	Good	Poor	Fair	Good
Lacquer Thinner	Poor	Good	Poor	Fair	Good
Chloroform	Poor	Good	Poor	Fair	Good
Carbon Tetrachloride	Poor	Good	Poor	Fair	Good
Methyl Chloride	Poor	Poor	Poor	Poor	Poor
<b>General</b>					
Leaves protective residue after combustion	Yes	No	Yes	Yes	Yes
Oxygen index (ASTMD-2863)	23-30%	17-18%	31-39%	30-36%	30-34%
Halogen content - % weight	26	0	18	14	18-20
Minimum installation temperature	-10 °C	-40 °C	-20 °C	-20 °C	-40 °C
Dimensional stability underheat	Fair	Fair	Excellent	Excellent	Fair
Maximum operating temperature	75 °C	75 °C	90 °C	90 °C	75 °C

Note: When cables are to be installed in cold weather, they should be kept in heated storage for at least 24 hrs. before installation.



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