

## Comparisons of Common Wire Insulations

	PVC	Polyethylene		Polypropylene
		Solid	Foam	
Temp. Range	-55°C to +105°C	-60°C to +80°C	-60°C to +80°C	-20°C to +105°C
Volt. Breakdown	Good	Excellent	Poor	Excellent
Capacitance	Fair	Excellent	Excellent	Excellent
Insulation Resist.	Good	Excellent	Excellent	Excellent
Abrasion Resist.	Good	Good	Poor	Excellent
Non-Flammability	Very Good	Poor	Poor	Poor
Weather Resist.	Excellent	Excellent**	Excellent**	Excellent**
Solder Resist.	Good	Poor	Poor	Good
Flexibility	Good	Fair	Good	Poor

\*\*With the addition of carbon black

	Rubber	Neoprene	TPR	TFE & FEP
Temp. Range	-40°C to +70°C	-30°C to +90°C	-40°C to +90°C	-70°C to +200°C
Volt. Breakdown	Good	Fair	Good	Good
Capacitance	Good	Poor	Good	Excellent
Insulation Resist.	Good	Poor	Good	Excellent
Abrasion Resist.	Excellent	Excellent	Good	Excellent
Non-Flammability	Poor	Good	Excellent	Excellent
Weather Resist.	Poor	Excellent	Excellent	Excellent
Solder Resist.	Poor	Good	Excellent	Excellent
Flexibility	Excellent	Excellent	Good	Fair