INSULATION AND JACKET MATERIAL CHARACTERISTICS

Material	Abbre-viation	Heat resistance/ cold flexibility	Flame retar-dance	Tensile strength lbf (psi)/in² N/mm² ***	Elon-gation %	Abrasion resistance	Dielectric constant at 800 Hz	Specific resist-ance Ωxcm	Breakdown voltage V/mil kV/mm	Radiation resistance cJ/kg
PVC special	Y	+5/+70 °C	good	2175 15	250	moderate	4.0	10^{13}	305 12	8 x 10^{7}
PVC cold resistant	Y K	-20/+70 °C	good	2175 15	250	moderate	4.0	10^{13}	305 12	8 x 10^{7}
PVC heat resistant	Y W	+5/+105 °C	good	2610 18	200	moderate	3.5	10^{13}	455 18	8 x 10^{7}
PVC oil resistant	YOE	+5/+70 °C	good	2175 15	250	moderate	4.0	10^{13}	305 12	8 x 10^{7}
PUR halogen free	11 Y	-40/+90 °C	moderate	4350 30	400	very good	6.0	10^{12}	505 20	5 x 10^{7}
PE	2 Y	-40/+90 °C	moderate	1015 20	500	good	2.4	10^{17}	2500 100	7 x 10^{6}
TPE	12 Y	-40/+70 °C (up to +135 °C)	moderate	2900 30	500	good	3.3	10^{14}	760 30	1 x 10^{7}
Silicone	2 G	+180 °C	good	1015 7	200	moderate	3.2	10^{15}	505 20	2 x 10^{7}
FEP	6 Y	+180 °C	very good	2900 20	250	good	2.1	10^{18}	505 20	1 x 10^{7}
PFA	–	+250 °C	very good	2900 20	250	good	2.1	10^{18}	505 20	5 x 10^{6}
Tefzel®-ETFE	7 Y	+150 °C	very good	6525 45	250	good	2.6	10^{16}	760 30	2 x 10^{8}
336	–	-40/+90 °C	moderate	1740 12	500	good	2.6	10^{18}	480 19	5 x 10^{6}
322	–	-40/+90 °C	moderate	1300 9	500	good	2.6	10^{18}	480 19	5 x 10^{6}
230 FRNC	–	-40/+85 °C	very good	1450 10	150	moderate	3.7	10^{14}	635 25	–

The values in this table are subject to change.

*** 1N/mm² = 145.038 lbf (psi)/in²
1mm = 39.37 mil = 0.03937 inch