

PVC 與照射PVC電線性能比較表

COMPARISON BETWEEN PROPERTIES OF PVC AND IRRADIATED XLPVC WIRE

	105°C PVC	Irradiated PVC
Tensile strength, psi	2000	1500~2500
Elongation, %	200	170
Retention of tensile, %(7 days at 136°C)	95	98
Retention of elongation, %(7 days at 136°C)	75	75
Flammability Oxygen Index	32	37
Abrasion Resistance*	G	E
Solder iron, seconds to cut-through	<1	>600
Crush resistance *	F	E
Chisel cut-through, °C	60	85
Oil resistance *	G	E

PE 與照射PE電線性能比較表

COMPARISON BETWEEN PROPERTIES OF PE AND IRRADIATED XLPE WIRE

	Low-density Polyethylene	Cross-Linked Polyethylene
Tensile strength, psi	1800	2800
Elongation, %	400	250
Retention of tensile, %(7 days at 150°C)	+N. A.	90
Retention of elongation, %(7 days at 150°C)	+N. A.	65
Flammability Oxygen Index	26	29
Solder iron-seconds to cut-through	< 1	>600
Crush resistance *	F	E
Chisel cut-through, °C	100	125

*E-Excellent, G-Good, F-Fair, P-Poor.
+N. A.-No Assign