





Electrical Strength of Three Different Types of Crossarms

Crossarm	Electrical Strength			
	AC Voltage		CFO Voltage	
	Dry	Wet	Dry	Wet
Steel	Conduction	Conduction	Conduction	Conduction
Wood	Insulation	Conduction	Insulation	Insulation
Fiberglass	Insulation	Conduction	Insulation	Insulation

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Fiberglass Crossarm Ends Damaged after AC Wet Test



If the leakage current level is high and time duration of applied voltage is long, it could create extensive heat that would cause damage to the fiberglass crossarm surface.







Conclusions

- Taking all parameters into the account, especially the electrical performance, fiberglass crossarm can be used in place of other conventional crossarms.
- The fiberglass crossarm cannot be used as the only insulation component. It must be used as a secondary insulation component of the multipleinsulation with insulator as a primary insulation component.

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