

## XLP CROSSLINKED POLYETHYLENE INSULATIONS (LOW VOLTAGE)

### Physical and Electrical Specification Data

Test Requirements	0-2000 Volts		0-2000 Volts FR-XLP	
	Guaranteed Value	Typical Value	Guaranteed Value	Typical Value
<b>PHYSICAL PROPERTIES</b>				
Original Tensile Strength, psi	1800 min.	2300	1800 min.	2100
Original Elongation, percent	250 min.	425	250 min.	400
Aged - Air Oven - 168 Hr. @ 121°C				
Percent of Original				
Tensile	75 min.	100	75 min.	95
Elongation	75 min.	95	75 min.	85
Hot Creep, 150°C				
Elongation, %	100 max.	40	100 max.	15
Set, %	5 max.	0	5 max.	0
<b>ELECTRICAL PROPERTIES</b>				
Insulation Resistance Constant (K)	10,000 min.	75,000	10,000 min.	50,000
SIC at 75°C	6.0 max.	3.1	6.0 max.	3.45
Accelerated Water Absorption				
% Change in SIC, 75°C Water				
1 - 14 days	3.0 max.	1.6	3.0 max.	2.6
7 - 14 days	1.5 max.	0.6	1.5 max.	0.9
Stability Factor after 14 Days	1.0 max.	0.1	1.0 max.	0.3
<b>COLD BEND</b>				
1 Hr. @ 3 X O.D.	-30°C	< - 40°C	- 30°C	< - 40°C
<b>FLAME RESISTANCE</b>	UL Horizontal, Passes		UL VW-1 Vertical, Passes	
Complies with: ICEA S-95-658 / NEMA WC70	Class X-2		Class X-2	