

INSULATOR AND LINE FITTINGS SPECIFICATIONS

132 kV OVERHEAD LINE		UNIT	DATA	
FOR LYNX CONDUCTOR			Required	Offered
1.0	INSULATOR AND FITTINGS			
1.1	Insulator units: Long Rod			
1.1.1	Suspension units			
1.1.1.1	Shed profile		aerodynamic	
1.1.1.2	Appropriate IEC Number		IEC 61109	
1.1.1.3	Material		Silicon Rubber	
1.1.1.4	Coupling a. Standard b. Type (recommended only) c. Size (recommended only)		IEC 60120 Ball/Socket 16	
1.1.1.5	Minimum failing load	kN	120	
1.1.1.6	Outside diameter:	mm	To be provided	
1.1.1.7	Mass of unit	kg	To be provided	
1.1.1.8	Minimum dry lightning impulse withstand	kV	145	
1.1.1.9	Minimum wet power frequency withstand	kV	275	
1.1.1.10	Creepage distance	mm	3700	
1.1.2	Tension units			
1.1.2.1	Shed profile		aerodynamic	
1.1.2.2	Appropriate IEC Number		IEC 61109	
1.1.2.3	Material		Silicone rubber	
1.1.2.4	Coupling a. Standard b. Type (recommended only) c. Size (recommended only)		IEC 61120 Ball/Socket 20	
1.1.2.5	Minimum failing load	kN	120	
1.1.2.6	Outside diameter:	mm	To be provided	
1.1.2.7	Mass of unit	kg	To be provided	

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1.1.2.8	Minimum dry lightning impulse withstand	kV	145	
1.1.2.9	Minimum wet power frequency withstand	kV	275	
1.1.2.10	Creepage distance	mm	3700	
1.2	Insulator sets complete			
1.2.1	Suspension sets			
1.2.1.1	Number of insulator strings in parallel		2	
1.2.1.2	Minimum failing load, complete set	kN	70/100	
1.2.1.3	Overall length of insulator	mm	1480	
1.2.1.4	Arcing Gap	mm	1250	
1.2.1.5	Mass of set, complete with all fittings	kg	To be provided	
1.2.1.6	Overall length of creepage path per string:	mm	3700	
1.2.1.7	50 Hz voltage tests: #			
	a. Dry withstand voltage of complete set:	kV	145	
	b. One minute wet withstand voltage of complete set :	kV	275	
1.2.1.8	50% Impulse withstand: #			
	a. 1.2/50 μs negative wave:	kV	650	
	b. 1.2/50 μs positive wave:	kV	650	
1.2.1.9	Corona test voltage	-	-	
1.2.1.10	Set RI test voltage	kV	275	
1.2.1.11	Set radio noise level	dB	45	
1.2.2.12	Short circuit current withstand for 1 second (any part of set)	kA	31.5	
1.2.2	Tension sets			
1.2.2.1	Number of insulator strings in parallel		2	
1.2.2.2	Elastic limit load of set fittings:			

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	a. Common to each string	kN	To be provided	
	b. Common to conductor	kN	To be provided	
	c. Separate for each sub-conductor	kN	To be provided	
1.2.2.3	Minimum failing load, complete set	kN	2 x 120	
1.2.2.4	Overall length of insulator	mm	1480	
1.2.2.5	Arcing Gap	mm	1200	
1.2.2.6	Mass of set, complete with all fittings	kg	To be provided	
1.2.2.7	Overall length of creepage path per string:	mm	3700	
1.2.2.8	50 Hz voltage tests: #			
	a. Dry withstand voltage of complete set:	kV	650	
	b. One minute wet withstand voltage of complete set:	kV	650	
1.2.2.9	50% Impulse withstand: #			
	a. 1.2/50 μs negative wave:	kV	650	
	b. 1.2/50 μs positive wave:	kV	650	
1.2.2.10	Corona test voltage	kV	-	
1.2.2.11	Set RI test voltage	kV	275	
1.2.2.12	Set radio noise level	dB	45	
1.2.2.13	Short circuit current withstand for 1 second (any part of set)	kA	31.5kA	
1.3	Earth conductor sets			
1.3.1	Minimum failing load			
	a. Suspension set	kN	To be provided	
	b. Tension set	kN	To be provided	
1.3.2	Short circuit current withstand for 1 second (any part of set)	kA	31.5	