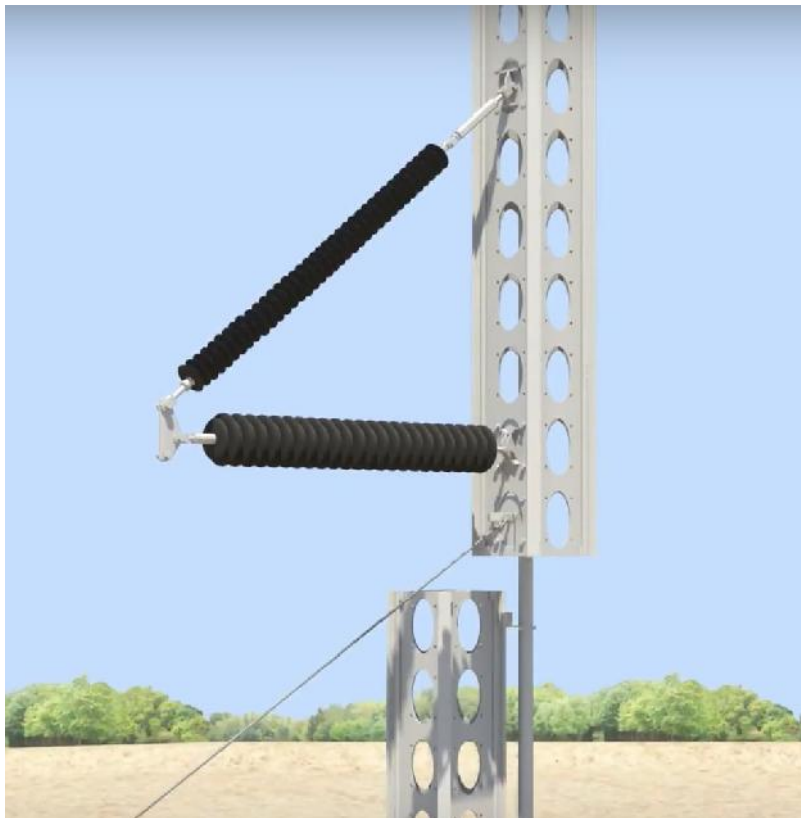


69KV3SP02

Emergency Restoration System (ERS) for 69kV and 33kV kV
Transmission Lines

CONDUCTORS		
Conductor	Requirement	Offer
Conductor Name	3 x ACSR Guinea / AW	
Cross Sectional Area (mm ²)	127.24	
Total Diameter (mm)	14.63	
Weight (kg/km)	587	
UTS (kN)	71	
Shield wire	Requirement	Offer
Shield wire name	1 x 7 x 3.35 SW	
Cross Sectional Area (mm ²)	80.57	
Total Diameter (mm)	10.5	
Weight (kg/km)	485	
UTS (kN)	67.5	
OPGW	Requirement	Offer
OPGW name	1 x 10.5mm, 48 Fiber OPGW	
Cross Sectional Area (mm ²)	To match shield wire	
Total Diameter (mm)	To match shield wire	
Weight (kg/km)	To match shield wire	
UTS (Kg)	To match shield wire	
UTS (Kg)	To match shield wire	

DESIGN PARAMETERS/LOADS		
Design Parameters/Loads	Requirement	Offer
Ruling Span (m)	300	
Basic Wind load Parameters		
Wind Speed (m/sec)	80	
Wind Pressure (Pa)	3923	
Drag Co-efficient considered for conductor	1	
Drag Co-efficient considered for OPGW or EW	1.2	
Drag Co-efficient considered for Insulators	1.2	
Gust Response Factor considered for conductor	As per IEC 60826	
Wind wire height adjust model	As per IEC 60826	
Minimum Creepage (mm/kV)	31.5	
ERS STRUCTURE SECTIONS		
CONFIGURABLE	Requirement	Offer
Modular Section Lengths (m)	3	
Modular Section Construction	Lattice	
Modular Section Material	Aluminium	
Configurability options:		
The modular sections shall be configurable as follows:		
69kV Type A 0deg suspension 19m (0-10°)	Yes	
69kV Type B 0deg 20m (0-10°)	Yes	
69kV Type B MA 20m (0-45°)	Yes	
69kV Type B LA 20m (45-90°)	Yes	
69kV Type C 0deg 18m (0-10°)	Yes	
69kV Type C MA 18m (0-45°)	Yes	
69kV Type C LA 18m (45-90° / terminal)	Yes	
33kV Type C 0deg 16m (0-10°)	Yes	