

**Right-of-way (ROW) for normal route, forest area, urban area, populated area and approach section near substation**

Voltage level	Configuration	Conductor type	Terrain	Design Span	String Type	RoW width in m (for compensation purpose)
765kV D/C	Vertical	ACSR ZEBRA	Normal route without constraint	400	"I" String	67
					"V" String	
					Tension	
			Forest	300	"V" String	56
					Tension	
			Urban area / populated area / approach section near substation	250	"V" String	54
Tension						
765kV S/C	Vertical /Delta	ACSR BERSIMIS	Normal route without constraint	400	"I" String	64
					"V" String	
					Tension	
			Forest	300	"V" String	54
					Tension	
			Urban area / populated area / approach section near substation	250	"V" String	52
Tension						
765kV S/C	Horizontal	ACSR BERSIMIS	Normal route without constraint	400	"I" String	74
					"V" String	
					Tension	
			Forest	300	"V" String	65
					Tension	
			Urban area / populated area / approach section near substation	250	"V" String	62
Tension						
±800kV HVDC	Horizontal	ACSR Lapwing	Normal route without constraint/Forest/ Urban	400	"Y" String	69
±500kV HVDC	Horizontal	ACSR Lapwing	Normal route without constraint/Forest/ Urban	400	"V" String	52

400kV D/C	Vertical	ACSR MOOSE	Normal route without constraint	400	"I" String	46	
					"V" String		
					Tension		
			Forest	300	"V" String		40
					Tension		
			Urban area / populated area / approach section near substation	250	"V" String		38
Tension							
400kV S/C	Horizontal/ Vertical	ACSR MOOSE	Normal route without constraint	400	"I" String	52	
					"V" String		
					Tension		
			Forest	300	"V" String		47
					Tension		
			Urban area / populated area / approach section near substation	250	"V" String		44
Tension							
1200kV	Horizontal	ACSR Moose	Normal route without constraint/Forest/ Urban	400	"V" String	89	
220kV D/C	Vertical	ACSR ZEBRA	Normal route without constraint	350	"I" String	32	
					"V" String		
					Tension		
			Forest	300	"V" String		28
					Tension		
			Urban area / populated area / approach section near substation	200	"V" String		24
Tension							
132kV D/C	Vertical	ACSR PANTHER	Normal route without constraint	320	"I" String	25	
					"V" String		
					Tension		
			Forest	200	"V" String		21
					Tension		
			Urban area / populated area / approach section near substation	150	"V" String		19
Tension							

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110 kV D/C		ACSR PANTHER	Normal route without constraint	305	"I" String	22
					"V" String	
					Tension	
			Forest	200	"V" String	19
					Tension	
			Urban area / populated area / approach section near substation	150	"V" String	17
					Tension	
66kV	Vertical	ACSR PANTHER	Normal route without constraint	250	"I" String	18
					"V" String	
					Tension	
			Forest	150	"V" String	14
					Tension	
			Urban area / populated area / approach section near substation	100	"V" String	13
Tension						

**Note:** D/c: double circuit; S/c: single circuit

*2/10/11*