



TYPICAL CONSTRUCTION DATA

345kV XLPE Insulated Cable

TSCD-168-04

Conductor		Insulation		Metallic Shield		Thickness of sheath	Electrical Properties				
Cross Sectional area	Shape	Dia.	Thickness (min. Ave.)	Dia. of wire	No. of wires	(min. Ave.)	Overall dia. (approx.)	Max DC conductor resistance at 20°C	AC voltage test for 60 minutes	Min. insulation resistance at 15.6°C	Partial discharge inception voltage
mm ²	-	mm	mm	mm	-	mm	mm	Ω/km	kV	MΩ-km	kV
400	Compact Circular	24.1	27	2.3	80	5.5	105	0.0471	420	2840	285
600		29.5	27	2.3	80	5.5	110	0.0308	420	2540	285
800	Segmental	34.0	27	2.3	80	5.5	117	0.0231	420	2280	285
1000		38.0	27	2.3	80	6.0	122	0.0187	420	2140	285
1200		41.7	27	2.3	80	6.0	125	0.0156	420	2020	285
1600		48.2	27	2.3	80	6.0	132	0.0117	420	1820	285
2000		53.8	27	2.3	80	6.0	137	0.00933	420	1690	285
2500		61.2	27	2.3	80	6.0	146	0.0075	420	1550	285

Note: The moisture barrier consists of water-blocking tape applied under the copper wire shield and a laminated metal tape integrated into the sheath