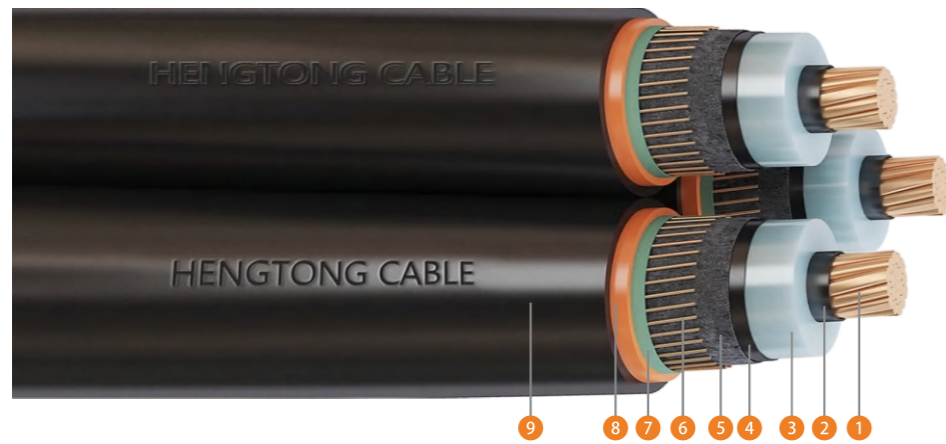


6.35/11kV Triplex Cu/XLPE/CWS/PVC/HDPE



- 1 Compacted Cu conductor
- 2 Conductor screen
- 3 XLPE insulation
- 4 Insulation screen
- 5 Semi conductive water-blocking tape
- 6 Copper wire screen
- 7 Non-hygroscopic tape
- 8 PVC inner sheath
- 9 HDPE outer sheath

Properties:

Rated voltage	6.35/11kV
Max. operating temperature of conductor	90°C
Max. short-circuit operation temperature of conductor (5s Max. duration)	250°C
Ambient temperature range for operating	from -40°C to +50°C
Relative air humidity at temperature lower than +35°C	up to 95%
Min. temperature for installing without preheating	+0°C
Standard	AS/NZS 1429.1
Fault Level	up to 10kA/s or customer requirements

Application:

Cables are designed for fixed installation, for laying in the ground, for indoor application and in cable ducts.


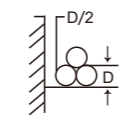



Structural Parameters:

Nominal conductor area mm ²	Approx. diameter of conductor mm	Nominal thickness of insulation mm	Nominal diameter over insulation mm	Nominal screen area mm ²	No. & diameter of screen wire No/mm	Nominal diameter over wire screen mm	Nominal thickness of outer sheath		Approx. overall diameter of cable mm	Max. overall diameter of cable kg/m	Approx. weight of cable kN	Max. allowable pulling force of conductor mm	Min. bending radius (bundled cable)	
							Inner layer mm	Outer layer mm					During installation mm	Installed mm
16	4.8	3.4	14.5	15.3	27/0.85	17.1	1.0	1.0	24.1	51.6	2.0	3.4	770	520
25	6.0	3.4	15.7	23.8	42/0.85	18.3	1.0	1.0	25.3	54.2	2.6	5.3	810	540
35	7.0	3.4	16.7	34.0	40/1.04	19.7	1.0	1.0	26.7	57.1	3.2	7.4	860	570
50	8.1	3.4	17.8	49.5	28/1.5	21.7	1.0	1.0	28.7	61.5	4.1	10.5	920	620
70	9.8	3.4	19.5	68.9	39/1.5	23.4	1.0	1.0	30.4	65.1	5.3	14.7	980	650
95	11.4	3.4	21.1	68.9	39/1.5	25.0	1.0	1.0	32.0	68.5	6.2	20.0	1030	690
120	12.9	3.4	22.6	68.9	39/1.5	26.5	1.0	1.0	33.5	71.7	7.0	25.2	1080	720
150	14.4	3.4	24.1	68.9	39/1.5	28.0	1.0	1.0	35.0	74.9	7.8	31.5	1120	750
185	16.0	3.4	25.7	68.9	39/1.5	29.6	1.0	1.0	36.6	78.4	8.9	38.9	1180	780
240	18.4	3.4	28.1	68.9	39/1.5	32.0	1.0	1.1	39.0	83.5	10.1	50.4	1250	840
300	20.6	3.4	30.3	68.9	39/1.5	34.2	1.0	1.1	41.2	88.2	12.5	63.0	1320	880
400	23.4	3.4	33.1	68.9	39/1.5	37.0	1.1	1.2	44.0	94.2	14.9	84.0	1410	940
500	26.2	3.4	36.3	68.9	39/1.5	40.2	1.1	1.2	47.2	101.0	18.2	105.0	1520	1010

Electrical Characteristics:

Nominal conductor area mm ²	Max. DC resistance of conductor at 20°C Ω/km	Max. AC resistance of conductor at 90°C Ω/km			Fault current carrying of conductor for 1 second kA	Fault current carrying of screen for 1 second kA	Insulation resistance at 20°C MΩ/km	Conductor to screen capacitance μF/km	Charging current per phase A/km	Dielectric loss per phase W/km	Maximum dielectric stress kV/mm	Inductive reactance at 50Hz and 90°C Ω/km			Screen DC resistance at 20°C Ω/km	Zero sequence resistance at 20°C Ω/km	Zero sequence reactance at 50Hz Ω/km
		Trefoil touching	Flat touching	Flat spaced								Trefoil touching	Flat touching	Flat spaced			
16	1.15	1.47	1.47	1.47	2.3	2.3	12700	0.190	0.379	9.63	2.75	0.161	0.175	0.219	1.24	2.39	0.0969
25	0.727	0.927	0.927	0.927	3.6	3.5	11200	0.216	0.430	10.9	2.62	0.150	0.164	0.208	0.796	1.52	0.0854
35	0.524	0.668	0.668	0.668	5.0	5.0	10200	0.237	0.472	12.0	2.54	0.143	0.158	0.201	0.558	1.08	0.0796
50	0.387	0.494	0.494	0.494	7.2	7.4	9300	0.260	0.518	13.2	2.47	0.139	0.153	0.197	0.383	0.770	0.0760
70	0.268	0.342	0.342	0.342	10.0	10.2	8100	0.295	0.589	15.0	2.39	0.130	0.145	0.189	0.275	0.543	0.0678
95	0.193	0.247	0.247	0.246	13.6	10.2	7300	0.329	0.656	16.7	2.33	0.124	0.139	0.182	0.275	0.468	0.0631
120	0.153	0.196	0.196	0.196	17.2	10.2	6700	0.360	0.718	18.2	2.28	0.119	0.134	0.177	0.275	0.428	0.0595
150	0.124	0.159	0.159	0.159	21.5	10.2	6100	0.391	0.780	19.8	2.24	0.115	0.130	0.173	0.275	0.399	0.0564
185	0.0991	0.128	0.127	0.127	26.5	10.2	5700	0.424	0.846	21.5	2.21	0.111	0.126	0.169	0.275	0.374	0.0537
240	0.0754	0.0978	0.0975	0.0971	34.3	10.2	5100	0.473	0.945	24.0	2.17	0.106	0.121	0.165	0.275	0.351	0.0504
300	0.0601	0.0788	0.0784	0.0779	42.9	10.2	4600	0.519	1.04	26.3	2.14	0.103	0.117	0.161	0.275	0.335	0.0478
400	0.0470	0.0628	0.0623	0.0615	57.2	10.2	4100	0.576	1.15	29.2	2.11	0.0990	0.113	0.157	0.275	0.322	0.0452
500	0.0366	0.0505	0.0497	0.0487	71.5	10.2	3700	0.641	1.28	32.5	2.09	0.0962	0.111	0.154	0.275	0.312	0.0437

Current Ratings:

Nominal conductor area mm ²	Continuous current-carrying capacity, A				
	In air		In ground		
					
16	106	112	81	113	91
25	138	145	104	145	116
35	169	179	125	174	140
50	200	214	150	204	166
70	250	268	184	249	204
95	301	320	219	295	241
120	349	370	256	335	279
150	394	419	289	374	310
185	449	479	325	420	350
240	525	563	375	483	403
300	599	639	439	539	463
400	688	735	498	605	519
500	783	838	559	674	580