CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : **CTW-PIC 25 kV**

25 kV ALUMINUM STRANDED CONDUCTOR CROSS-LINKED POLYETHYLENE PARTIAL INSULATED CABLE

CONSTRUCTION		APPLICATION	CLASSIFICATION
Conductor	Compact stranded hard drawn Aluminum wire.	For use in primary aerial cable on pole. (installed with pin insulator)	Temperature : - Normal operation 90 °C. - Emergency overload conditions 130 °C. - Short circuit conditions 250 °C. - Voltage rating : 25 kV phase to phase.
Conductor Shield	Semi-conducting cross-linked polyethylene.		
Insulation	Track resistant cross-linked polyethylene (Black)		

REFERENCE	AC TEST VOLTAGE
ICEA S-66-524 / MEA / PEA	11 kV for 5 minutes

CTW-PIC 25 kV		Nominal sectional area	Minimum number of wire	Diameter of conductor (Approx.)	Minimum thickness of conductor shield & insulation	Overall diameter (Approx.)	Maximum DC. conductor resistance at 20°C	Minimum breaking strength of conductor	Minimum insulation resistance at 15.6°C	Allowable ampacities in free air at 40°C (ambient)	Cable weight (Approx.)	AC test voltage	Standard packing
PRODUCT CODE	SIZE core x mm²	mm²	No.	mm	mm	mm	Ω/km	N.	MΩ-km	A	kg/km	kV	m/R
K1M051035	1 x 35	35	6	6.95	2.22	12.0	0.868	5,591	980	149	160	11	1,000
K1M051050	1 x 50	50	6	8.33	2.35	14.0	0.641	7,313	900	186	215	11	1,000
K1M051070	1 x 70	70	12	9.73	2.45	15.5	0.443	10,420	880	237	300	11	1,000
K1M051095	1 x 95	95	15	11.45	2.55	18.0	0.320	14,098	850	279	380	11	1,000
K1M051120	1 x 120	120	15	12.95	2.60	20.0	0.253	18,518	800	321	460	11	1,000
K1M051150	1 x 150	150	15	14.27	2.60	21.0	0.206	22,457	750	365	560	11	1,000
K1M051185	1 x 185	185	30	15.98	2.70	22.5	0.164	28,974	700	429	680	11	1,000

R = Packing in reel

CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : **CTW-PIC 35 kV**

35 kV ALUMINUM STRANDED CONDUCTOR CROSS-LINKED POLYETHYLENE INSULATED CABLE

CONSTRUCTION	
Conductor	Compact stranded hard drawn Aluminum wire.
Conductor Shield	Semi-conducting cross-linked polyethylene.
Insulation	Track resistant cross-linked polyethylene (Black)

APPLICATION

For use in primary aerial cable on pole.
(installed with pin insulator)

CLASSIFICATION

Temperature :
- Normal operation 90 °C.
- Emergency overload conditions 130 °C.
- Short circuit conditions 250 °C.
- Voltage rating : 35 kV phase to phase.

REFERENCE

ICEA S-66-524 / MEA / PEA

AC TEST VOLTAGE

17 kV for 5 minutes

CTW-PIC 35 kV		Nominal cross sectional area	Minimum number of wire	Diameter of conductor (Approx.)	Minimum thickness of conductor Shield & insulation	Overall diameter (Approx.)	Maximum DC. conductor resistance at 20°C	Minimum breaking strength of conductor	Minimum insulation resistance at 15.6°C	Allowable ampacities in free air at 40°C (ambient)	Cable weight (Approx.)	AC test voltage	Standard packing
PRODUCT CODE	SIZE core x mm²	mm²	No.	mm	mm	mm	Ω /km	N.	MΩ-km	A	kg/km	kV	m/R
K1O051035	1 x 35	35	6	6.95	3.25	15.0	0.868	5,591	1,400	148	200	17	1,000
K1O051050	1 x 50	50	6	8.33	3.4	16.0	0.641	7,313	1,350	184	260	17	1,000
K1O051070	1 x 70	70	12	9.73	3.6	18.0	0.443	10,420	1,300	234	350	17	1,000
K1O051095	1 x 95	95	15	11.45	3.7	20.0	0.320	14,098	1,100	276	430	17	1,000
K1O051120	1 x 120	120	15	12.95	3.8	22.0	0.253	18,518	1,000	318	530	17	1,000
K1O051150	1 x 150	150	15	14.27	3.8	23.0	0.206	22,457	950	365	630	17	1,000
K1O051185	1 x 185	185	30	15.98	3.9	25.0	0.164	28,974	900	425	760	17	1,000

R = Packing in reel