CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : **CTW - CV - CWS SINGLE CORE CU/XLPE/CWS/PE 69 kV**

HIGH VOLTAGE CROSS-LINKED POLYETHYLENE CABLE, COPPER CONDUCTOR WITH COPPER WIRE SHIELD

CONSTRUCTION

Conductor	Compact round stranded annealed copper.
Conductor Screen	Semi-conducting tape with extruded. semi-conducting cross-linked polyethylene.
Insulation	Cross-linked polyethylene. (XLPE)
Insulation Screen	Semi-conducting cross-linked polyethylene.
Synthetic water blocking layer	Semi-conductive water blocking tape.
Metallic Shield	Annealed copper wire with copper contact tape.
Synthetic water blocking layer	Non-conductive water blocking tape.
Radial water barrier	Plastic-coated Aluminum tape.
Outer Sheath	Black polyethylene (ST7) ; (Optional : with rib)

APPLICATION

Preferably used for urban networks. Suitable For use in duct, trays and direct burial in ground, subjected to immerse in water all the time.

CLASSIFICATION

Maximum Conductor Temperature 90 °C (Normal Operation)

Maximum Conductor Temperature 250 °C (Short-circuit at 5s maximum duration)

REFERENCE

IEC 60228 & IEC 60840

** AC Test Voltage : 90 kV

NOTE

A special FR-PVC or Low Smoke Halogen Free (LSHF) Flame retardant sheath can be supplied in accordance with IEC 60332-3.

Product code	Conductor			Thickness of conductor screen	Thickness of Insulation	Diameter over insulation (Approx.)	Thickness of Insulation screen	Minimum total sectional area of wire shield	Thickness of outer sheath	Overall diameter with Rib (Approx.)	Cable weight with Rib (Approx.)	Maximum conductor resistance at 20°C	Electrostatic capacitance (nominal) at 20°C	Ampacities direct burial at 30°C (Flat)**	Standard length
	Nominal cross-sectional area core x mm²	Minimum number of wire No./mm	Diameter (Approx.) mm	mm	mm	mm	mm	mm²	mm	mm	kg/km	Ω/km	μF/km	A	m/R
K3P241240	1 x 240	34	18.47	1.5	11	45.0	1.5	120	2.9	68	5,700	0.0754	0.184	480	500
K3P241300	1 x 300	34	20.68	1.5	11	47.5	1.5	120	3.0	70	6,500	0.0601	0.198	540	500
K3P241400	1 x 400	53	23.39	1.5	11	50.0	1.5	120	3.1	73	7,500	0.0470	0.214	610	500
K3P241500	1 x 500	53	26.67	1.5	11	53.5	1.5	120	3.2	77	8,700	0.0366	0.232	700	500
K3P241630	1 x 630	53	30.20	1.5	11	57.0	1.5	120	3.3	80	10,200	0.0283	0.253	790	500
K3P241800	1 x 800	53	34.00	1.5	11	61.0	1.5	120	3.5	85	12,000	0.0221	0.277	880	500
K3P2411000	1 x 1,000	53	40.00	1.5	11	67.0	1.5	120	3.7	90	14,300	0.0176	0.312	1,050	500

** Depth of laying in ground = 1 m, Rho = 1.2 °C m/watt, Spacing of cable = 2 x cable overall diameter

R = Packing in reel