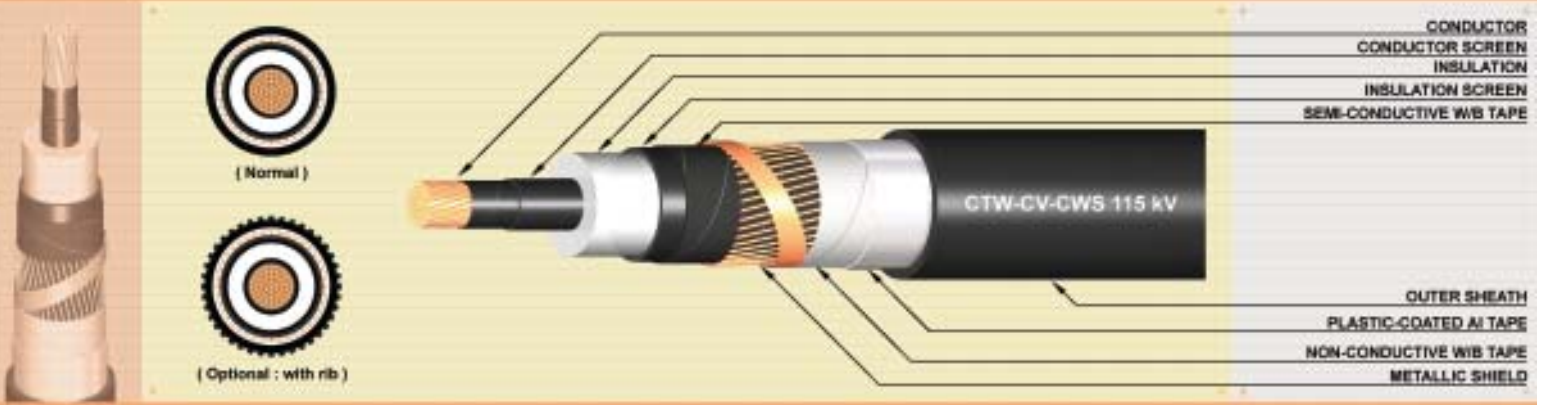




CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : **CTW - CV - CWS SINGLE CORE CU/XLPE/CWS/PE 115 kV**

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



CONSTRUCTION		APPLICATION	CLASSIFICATION
Conductor	Compact round stranded annealed copper.	Preferably used for urban networks. Suitable For use in duct, trays and direct burial in ground, subjected to immerse in water all the time.	Maximum Conductor Temperature 90 °C (Normal Operation)
Conductor Screen	Semi-conducting tape with extruded. semi-conducting cross-linked polyethylene.		Maximum Conductor Temperature 250 °C (Short-circuit at 5s maximum duration)
Insulation	Cross-linked polyethylene. (XLPE)	REFERENCE IEC 60228 & IEC 60840 ** AC Test Voltage : 160 kV	NOTE A special FR-PVC or Low Smoke Halogen Free (LSHF) Flame retardant sheath can be supplied in accordance with IEC 60332-3.
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)		

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 mm ²	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 mm ²	Minimum number of wire No./mm	Diameter (Approx.) mm												
K3Q241400	1 x 400	53	23.39	1.5	16	60.0	1.5	120	3.2	83	8,600	0.0470	0.163	610	500
K3Q241500	1 x 500	53	26.67	1.5	16	63.5	1.5	120	3.3	87	9,800	0.0366	0.177	700	500
K3Q241630	1 x 630	53	30.20	1.5	16	67.0	1.5	120	3.4	90	11,300	0.0283	0.191	790	500
K3Q241800	1 x 800	53	34.00	1.5	16	71.0	1.5	120	3.5	95	13,200	0.0221	0.208	880	500
K3Q2411000	1 x 1,000	53	40.00	1.5	16	77.0	1.5	120	3.8	100	15,600	0.0176	0.232	1,050	500

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