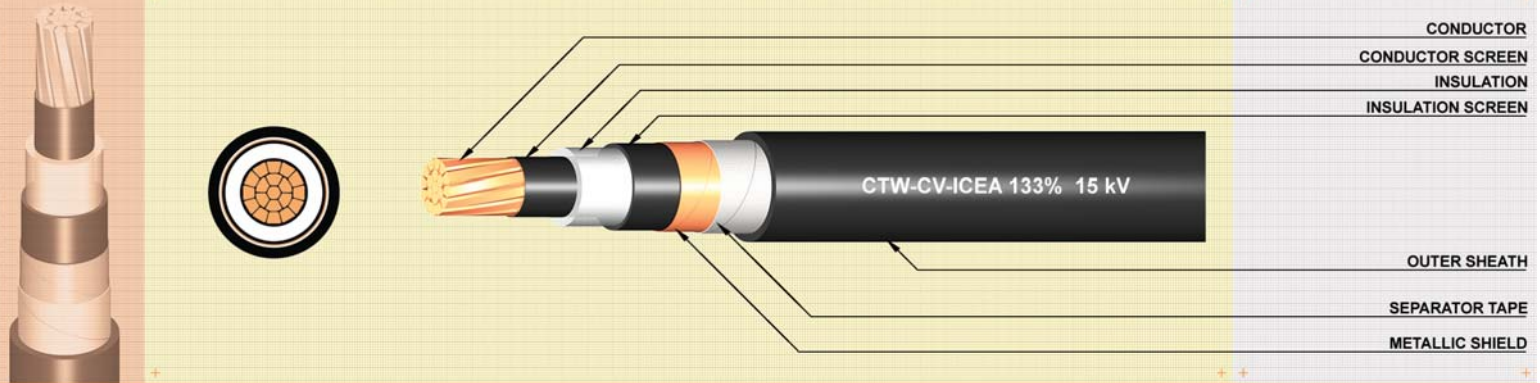




# CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

## CABLE TYPE : CTW-CV-ICEA 133% SINGLE CORE CU/XLPE/PVC 15 kV

133% INSULATION LEVELS, MEDIUM VOLTAGE CROSS-LINKED POLYETHYLENE CABLE, COPPER CONDUCTOR WITH TAPE SHIELD



CONSTRUCTION		APPLICATION	CLASSIFICATION
Conductor	Compact round stranded annealed copper.	Preferably used for urban networks. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.	Maximum Conductor Temperature 90 °C (Normal Operation)
Conductor Screen	Semi-conducting cross-linked polyethylene.		Maximum Conductor Temperature 250 °C (Short-circuit Conditions)
Insulation	Cross-linked polyethylene. (XLPE)		
Insulation Screen	Semi-conducting cross-linked polyethylene.		
Metallic Shield	Annealed copper tape.	REFERENCE	NOTE
Separator Tape	Polyester and/or Spunbond tape.	ICEA S-66-524 (133% Insulation Levels)	A special FR-PVC or Low Smoke Halogen Free (LSHF) Flame retardant sheath can be supplied in accordance with IEC 60332-3.
Outer Sheath	Black Polyvinyl chloride (ST2) ; Optional : Polyethylene (ST7)	** AC Test Voltage : 33 kV	

Product code	Conductor			Thickness of insulation mm	Diameter over insulation (Approx.) mm	Thickness of outer sheath mm	Overall diameter (Approx.) mm	Cable weight (Approx.) kg/km	Maximum conductor resistance at 20°C Ω/km	Minimum insulation resistance at 15.6°C MΩ-km	Ampacities direct burial in ground at 30°C A	Allowable ampacities in free air at 40°C (ambient) A	Standard length m/R
	Nominal cross-sectional area core x mm <sup>2</sup>	Minimum number of wire No./mm	Diameter (Approx.) mm										
K3U121025	1 x 25	6	5.90	5.46	18.5	2.03	26	790	0.727	2,500	140	155	1,000
K3U121035	1 x 35	6	6.95	5.46	19.5	2.03	27	920	0.524	2,300	170	190	1,000
K3U121050	1 x 50	6	8.33	5.46	21.0	2.03	28	1,100	0.387	2,100	200	230	1,000
K3U121070	1 x 70	12	9.73	5.46	22.5	2.03	30	1,330	0.268	1,900	250	285	1,000
K3U121095	1 x 95	15	11.45	5.46	24.0	2.03	32	1,620	0.193	1,700	295	355	1,000
K3U121120	1 x 120	18	12.95	5.46	25.5	2.03	33	1,900	0.153	1,600	335	410	1,000
K3U121150	1 x 150	18	14.27	5.46	27.0	2.03	35	2,220	0.124	1,500	375	455	1,000
K3U121185	1 x 185	30	15.98	5.46	28.5	2.03	37	2,600	0.0991	1,400	430	525	1,000
K3U121240	1 x 240	34	18.47	5.46	31.0	2.03	39	3,180	0.0754	1,200	495	620	500
K3U121300	1 x 300	34	20.68	5.46	33.5	2.03	42	3,800	0.0601	1,100	560	720	500
K3U121400	1 x 400	53	23.39	5.46	36.5	2.79	46	4,980	0.0470	1,000	640	825	500
K3U121500	1 x 500	53	26.67	5.46	40.0	2.79	50	6,020	0.0366	900	725	950	250
K3U121630	1 x 630	53	30.20	5.46	43.5	2.79	53	7,390	0.0283	800	820	1,120	250
K3U121800	1 x 800	53	34.00	5.46	47.0	2.79	57	9,100	0.0221	700	985	1,305	250
K3U1211000	1 x 1,000	53	40.00	5.46	53.0	2.79	63	11,160	0.0176	600	1,185	1,495	250

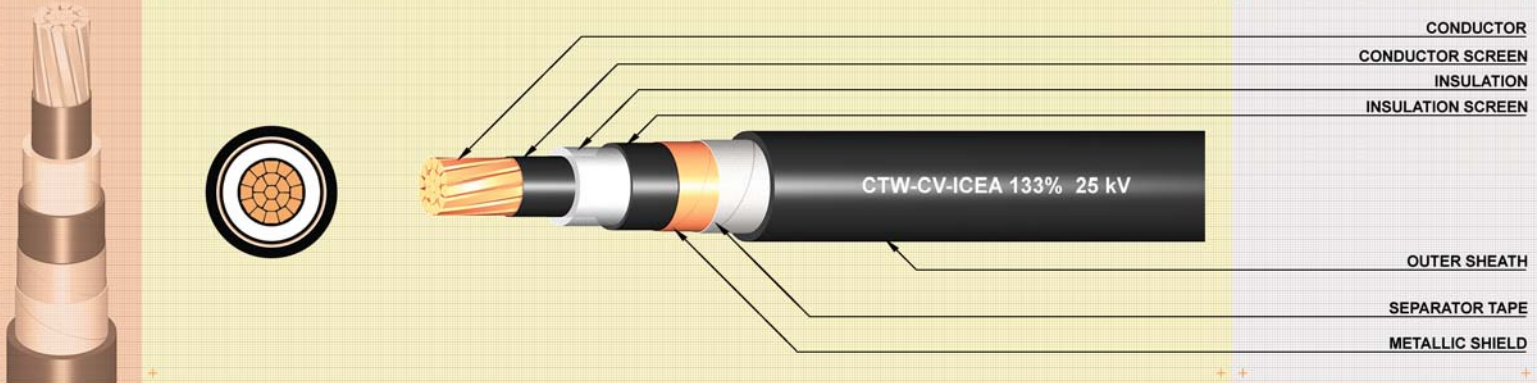
\*\* Depth of laying in ground = 1 m, Rho = 1.2 °C m/watt, Spacing of cable = 2 x cable overall diameter  
R = Packing in reel



# CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

## CABLE TYPE : CTW - CV - ICEA 133% SINGLE CORE CU/XLPE/PVC 25 kV

133% INSULATION LEVELS, MEDIUM VOLTAGE CROSS-LINKED POLYETHYLENE CABLE, COPPER CONDUCTOR WITH TAPE SHIELD



### CONSTRUCTION

Conductor	Compact round stranded annealed copper.
Conductor Screen	Semi-conducting cross-linked polyethylene.
Insulation	Cross-linked polyethylene. (XLPE)
Insulation Screen	Semi-conducting cross-linked polyethylene.
Metallic Shield	Annealed copper tape.
Separator Tape	Polyester and/or Spunbond tape.
Outer Sheath	Black Polyvinyl chloride (ST2) ; Optional : Polyethylene (ST7)

### APPLICATION

Preferably used for urban networks. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

### CLASSIFICATION

Maximum Conductor Temperature 90 °C (Normal Operation)  
Maximum Conductor Temperature 250 °C (Short-circuit Conditions)

### REFERENCE

ICEA S-66-524 (133% Insulation Levels)  
\*\* AC Test Voltage : 49 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 insulation mm	Diameter over insulation (Approx.) mm	Thickness of outer sheath mm	Overall diameter (Approx.) mm	Cable weight (Approx.) kg/km	Maximum conductor resistance at 20°C Ω/km	Minimum insulation resistance at 15.6°C MΩ-km	Ampacities direct burial in ground at 30°C A	Allowable ampacities in free air at 40°C (ambient) A	Standard length m/R
	Nominal cross-sectional area core x mm <sup>2</sup>	Minimum number of wire No./mm	Diameter (Approx.) mm										
K3T121035	1 x 35	6	6.95	8.76	26.5	2.03	34	1,260	0.524	3,200	170	200	1,000
K3T121050	1 x 50	6	8.33	8.76	28.0	2.03	36	1,460	0.387	2,900	200	240	1,000
K3T121070	1 x 70	12	9.73	8.76	29.5	2.03	37	1,710	0.268	2,600	250	295	1,000
K3T121095	1 x 95	15	11.45	8.76	31.0	2.03	39	2,010	0.193	2,400	295	365	1,000
K3T121120	1 x 120	18	12.95	8.76	32.5	2.03	41	2,300	0.153	2,200	335	420	1,000
K3T121150	1 x 150	18	14.27	8.76	34.0	2.03	42	2,640	0.124	2,100	375	475	1,000
K3T121185	1 x 185	30	15.98	8.76	35.5	2.79	45	3,180	0.0991	2,000	430	545	1,000
K3T121240	1 x 240	34	18.47	8.76	38.0	2.79	48	3,800	0.0754	1,800	495	640	500
K3T121300	1 x 300	34	20.68	8.76	40.5	2.79	50	4,460	0.0601	1,600	560	740	500
K3T121400	1 x 400	53	23.39	8.76	43.5	2.79	53	5,520	0.0470	1,500	640	850	500
K3T121500	1 x 500	53	26.67	8.76	46.5	2.79	56	6,590	0.0366	1,400	725	975	250
K3T121630	1 x 630	53	30.20	8.76	50.5	2.79	60	8,000	0.0283	1,200	820	1,130	250
K3T121800	1 x 800	53	34.00	8.76	54.0	2.79	64	9,740	0.0221	1,100	985	1,330	250
K3T1211000	1 x 1,000	53	40.00	8.76	60.5	2.79	70	11,800	0.0176	1,000	1,185	1,520	250

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