



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

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 : 33 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	Diameter over insulation (Approx.)	Thickness of outer sheath	Overall diameter (Approx.)	Cable weight (Approx.)	Maximum conductor resistance at 20°C	Minimum insulation resistance at 15.6°C	Ampacities direct burial in ground at 30°C	Allowable ampacities in free air at 40°C (ambient)	Standard length
	Nominal cross-sectional area core x mm ²	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

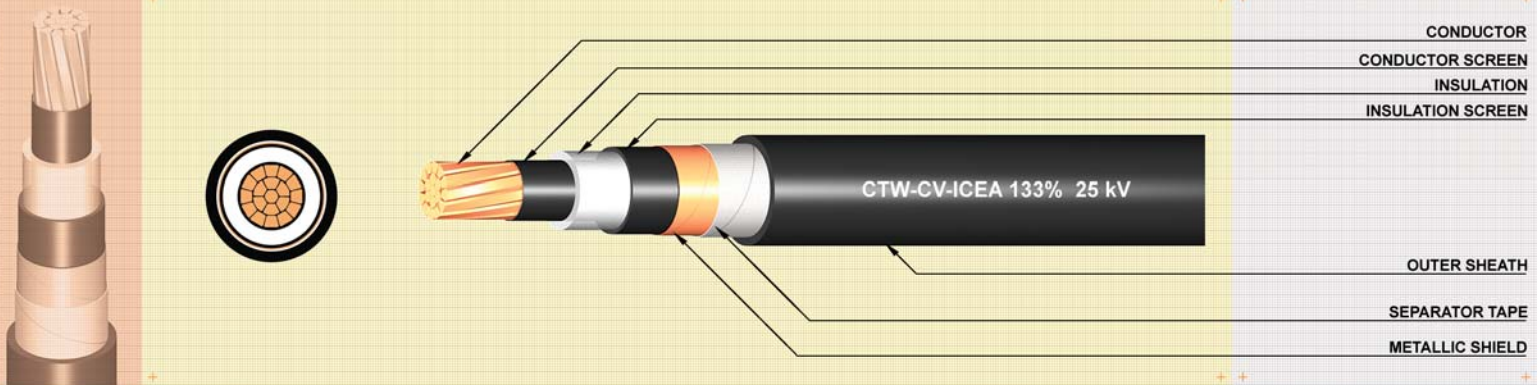
** Depth of laying in ground = 1 m, Rho = 1.2 °C m/watt, Spacing of cable = 2 x cable overall diameter
R = Packing in reel



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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



C O N S T R U C T I O N		A P P L I C A T I O N	C L A S S I F I C A T I O N
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)	R E F E R E N C E ICEA S-66-524 (133% Insulation Levels) ** AC Test Voltage : 49 kV	N O T E 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.		
Metallic Shield	Annealed copper tape.		
Separator Tape	Polyester and/or Spunbond tape.		
Outer Sheath	Black Polyvinyl chloride (ST2) ; Optional : Polyethylene (ST7)		

Product code	Conductor			Thickness of insulation	Diameter over insulation (Approx.)	Thickness of outer sheath	Overall diameter (Approx.)	Cable weight (Approx.)	Maximum conductor resistance at 20°C	Minimum insulation resistance at 15.6°C	Ampacities direct burial in ground at 30°C	Allowable ampacities in free air at 40°C (ambient)	Standard length
	Nominal cross-sectional area core x mm ²	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

12 Medium & High Voltage Power Cable

R = Packing in reel