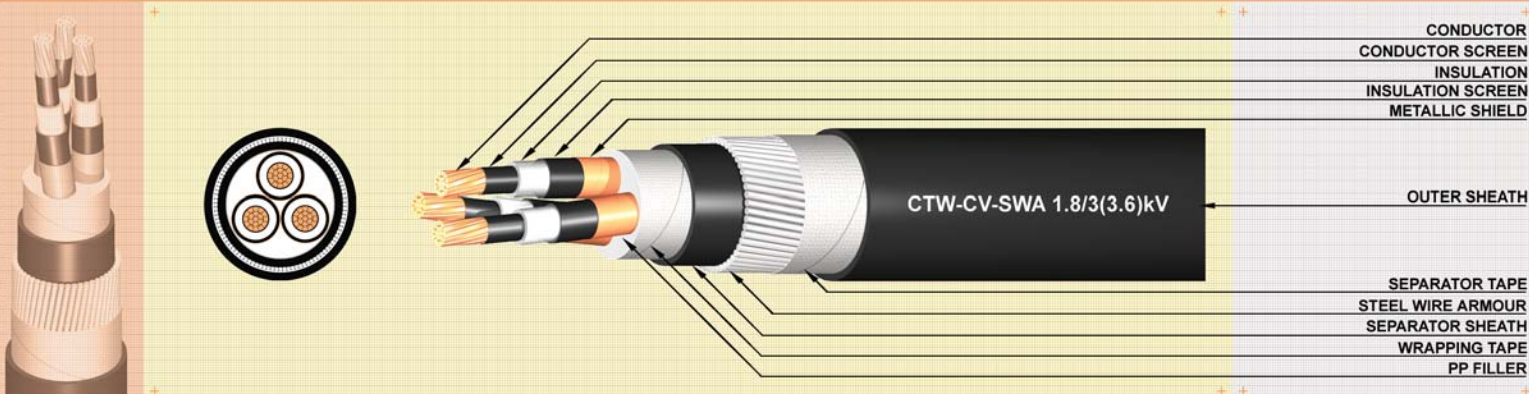




CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : CTW-CV-SWA THREE CORES CU/XLPE/SWA/PVC 1.8/3 (3.6) kV

MEDIUM VOLTAGE CROSS-LINKED POLYETHYLENE INSULATED, COPPER CONDUCTOR WITH STEEL WIRE ARMOUR



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.
Filler	Polypropylene (Nonhygroscopic material)
Wrapping Tape	Polyester and/or Spunbond tape.
Separator Sheath	Black Polyvinyl chloride (ST2) ; Optional : Polyethylene (ST7)
Armour	Galvanized steel wire.
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 at 5s maximum duration)

REFERENCE

IEC 60228 & IEC 60502-1
** AC Test Voltage : 6.5 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.)	Diameter of armour wire	Diameter over armour (Approx.)	Thickness of outer sheath	Overall diameter (Approx.)	Cable weight (Approx.)	Maximum conductor resistance at 20°C	Minimum insulation resistance at 20°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												
K4A423010	3 x 10	6	3.72	2.0	9.0	2.0	30.0	2.0	35	2,160	1.83	2,700	85	80	1,000
K4A423016	3 x 16	6	4.69	2.0	10.0	2.0	32.0	2.1	38	2,500	1.15	2,400	105	105	1,000
K4A423025	3 x 25	6	5.90	2.0	11.5	2.0	35.0	2.2	40	2,980	0.727	2,100	135	140	500
K4A423035	3 x 35	6	6.95	2.0	12.5	2.0	37.0	2.3	43	3,450	0.524	1,800	165	170	500
K4A423050	3 x 50	6	8.33	2.0	13.5	2.5	41.0	2.4	47	4,540	0.387	1,600	195	205	500
K4A423070	3 x 70	12	9.73	2.0	15.5	2.5	44.0	2.5	51	5,420	0.268	1,400	235	250	250
K4A423095	3 x 95	15	11.45	2.0	17.0	2.5	48.0	2.7	55	6,560	0.193	1,200	280	305	250
K4A423120	3 x 120	18	12.95	2.0	18.5	2.5	51.5	2.8	59	7,620	0.153	1,100	315	345	250
K4A423150	3 x 150	18	14.27	2.0	20.0	2.5	54.5	2.9	62	8,740	0.124	1,100	350	390	250
K4A423185	3 x 185	30	15.98	2.0	21.5	2.5	58.5	3.0	66	10,160	0.0991	900	395	445	250
K4A423240	3 x 240	34	18.47	2.0	24.0	2.5	64.0	3.2	72	12,350	0.0754	800	450	520	200
K4A423300	3 x 300	34	20.68	2.0	26.5	3.15	70.5	3.5	80	15,520	0.0601	700	495	580	200
K4A423400	3 x 400	53	23.39	2.0	29.5	3.15	77.0	3.7	87	19,220	0.0470	700	545	655	200

** Depth of laying in ground = 1 m, Rho = 1.2 °C m/watt
R = Packing in reel



CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : CTW-CV-SWA THREE CORES CU/XLPE/SWA/PVC 3.6/6 (7.2) kV

MEDIUM VOLTAGE CROSS-LINKED POLYETHYLENE INSULATED, COPPER CONDUCTOR WITH STEEL WIRE ARMOUR



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.
Filler	Polypropylene (Nonhygroscopic material)
Wrapping Tape	Polyester and/or Spunbond tape.
Separator Sheath	Black Polyvinyl chloride (ST2) ; Optional : Polyethylene (ST7)
Armour	Galvanized steel wire.
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 at 5s maximum duration)

REFERENCE

IEC 60228 & IEC 60502-2
** AC Test Voltage : 12.5 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.)	Diameter of armour wire	Diameter over armour (Approx.)	Thickness of outer sheath	Overall diameter (Approx.)	Cable weight (Approx.)	Maximum conductor resistance at 20°C	Minimum insulation resistance at 20°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												
K4B423010	3 x 10	6	3.72	2.5	10.0	2.0	32.0	2.1	38	2,360	1.83	3,100	85	80	1,000
K4B423016	3 x 16	6	4.69	2.5	11.0	2.0	34.5	2.2	40	2,720	1.15	2,800	105	105	500
K4B423025	3 x 25	6	5.90	2.5	12.5	2.0	37.0	2.3	43	3,200	0.727	2,400	135	140	500
K4B423035	3 x 35	6	6.95	2.5	13.5	2.5	40.5	2.4	47	4,090	0.524	2,100	165	170	500
K4B423050	3 x 50	6	8.33	2.5	14.5	2.5	43.5	2.5	50	4,830	0.387	1,900	195	205	500
K4B423070	3 x 70	12	9.73	2.5	16.5	2.5	46.5	2.6	53	5,740	0.268	1,700	235	250	250
K4B423095	3 x 95	15	11.45	2.5	18.0	2.5	50.5	2.8	57	6,830	0.193	1,500	280	305	250
K4B423120	3 x 120	18	12.95	2.5	19.5	2.5	54.0	2.9	61	7,900	0.153	1,300	315	345	250
K4B423150	3 x 150	18	14.27	2.5	21.0	2.5	57.0	3.0	64	9,100	0.124	1,200	350	390	250
K4B423185	3 x 185	30	15.98	2.5	22.5	2.5	61.0	3.1	69	10,510	0.0991	1,100	395	445	250
K4B423240	3 x 240	34	18.47	2.6	25.5	3.15	68.0	3.4	77	13,680	0.0754	1,000	450	520	200
K4B423300	3 x 300	34	20.68	2.8	28.0	3.15	74.0	3.6	84	16,160	0.0601	1,000	495	580	200
K4B423400	3 x 400	53	23.39	3.0	31.5	3.15	82.0	3.9	92	20,160	0.0470	900	545	655	200

** Depth of laying in ground = 1 m, Rho = 1.2 °C m/watt

38 Medium & High Voltage Power Cable

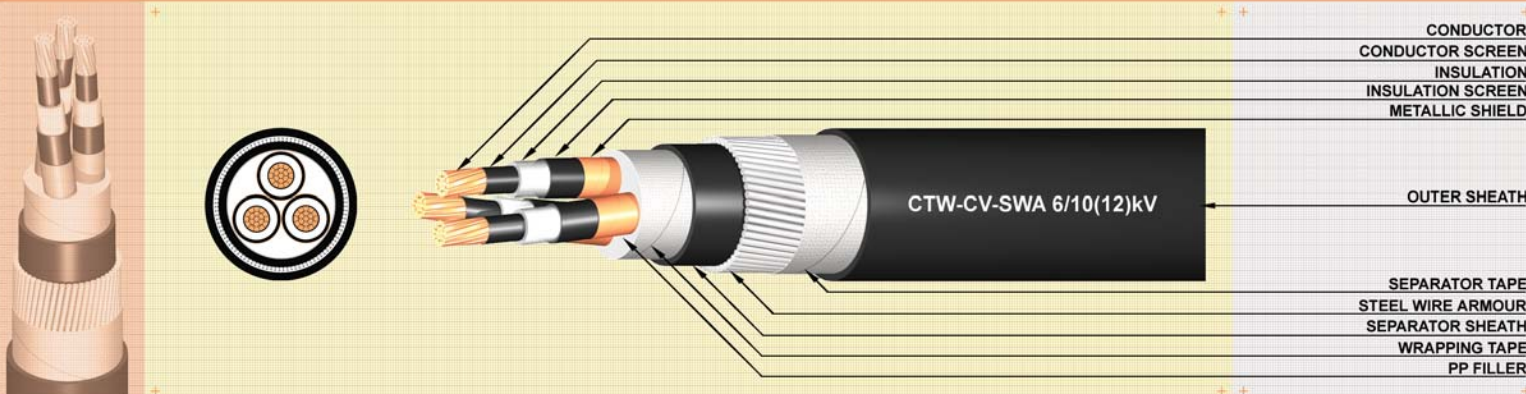
R = Packing in reel



CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : CTW-CV-SWA THREE CORES CU/XLPE/SWA/PVC 6/10 (12) kV

MEDIUM VOLTAGE CROSS-LINKED POLYETHYLENE INSULATED, COPPER CONDUCTOR WITH STEEL WIRE ARMOUR



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.
Filler	Polypropylene (Nonhygroscopic material)
Wrapping Tape	Polyester and/or Spunbond tape.
Separator Sheath	Black Polyvinyl chloride (ST2) ; Optional : Polyethylene (ST7)
Armour	Galvanized steel wire.
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 at 5s maximum duration)

REFERENCE

IEC 60228 & IEC 60502-2
** AC Test Voltage : 21 kV

NOTE

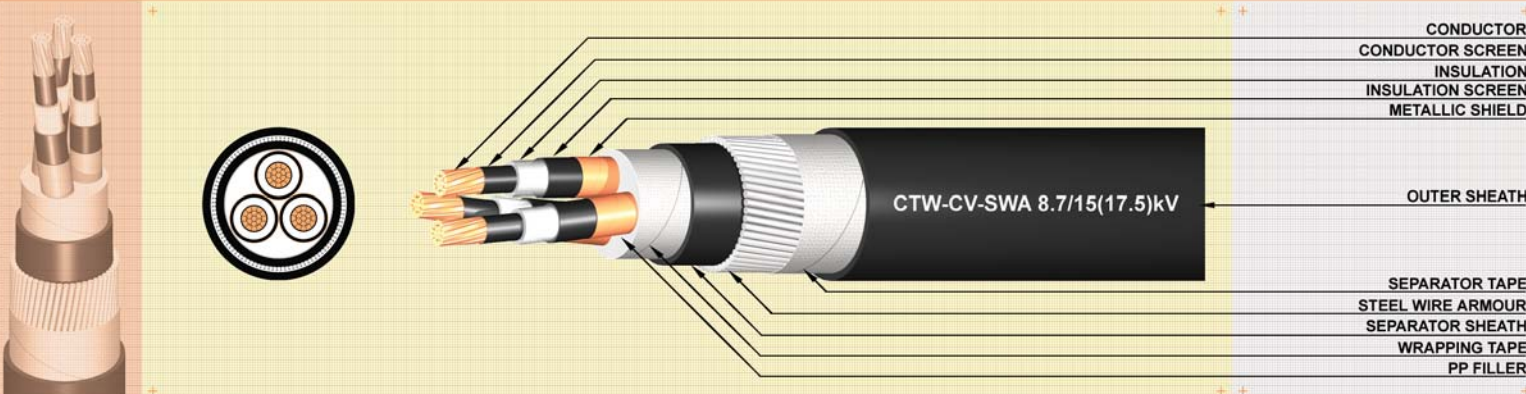
A special FR-PVC or Low Smoke Halogen Free (LSHF) Flame retardant sheath can be supplied in accordance with IEC 60332-3.

Product code	Conductor			Thickness of insulation	Diameter over insulation (Approx.)	Diameter of armour wire	Diameter over armour (Approx.)	Thickness of outer sheath	Overall diameter (Approx.)	Cable weight (Approx.)	Maximum conductor resistance at 20°C	Minimum insulation resistance at 20°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												
K4E423016	3 x 16	6	4.69	3.4	13.0	2.0	38.5	2.3	44	3,120	1.15	3,000	105	105	500
K4E423025	3 x 25	6	5.90	3.4	14.0	2.5	42.0	2.5	49	4,090	0.727	2,700	135	140	500
K4E423035	3 x 35	6	6.95	3.4	15.0	2.5	44.5	2.6	50	4,590	0.524	2,400	165	170	500
K4E423050	3 x 50	6	8.33	3.4	16.5	2.5	47.5	2.7	54	5,370	0.387	2,200	195	210	500
K4E423070	3 x 70	12	9.73	3.4	18.0	2.5	51.0	2.8	58	6,300	0.268	1,900	235	255	250
K4E423095	3 x 95	15	11.45	3.4	19.5	2.5	54.5	2.9	62	7,390	0.193	1,700	280	310	250
K4E423120	3 x 120	18	12.95	3.4	21.0	2.5	58.0	3.0	66	8,530	0.153	1,600	315	350	250
K4E423150	3 x 150	18	14.27	3.4	22.5	2.5	61.0	3.1	69	9,680	0.124	1,500	350	395	250
K4E423185	3 x 185	30	15.98	3.4	24.5	2.5	65.0	3.3	73	11,180	0.0991	1,400	395	450	250
K4E423240	3 x 240	34	18.47	3.4	27.0	3.15	72.0	3.5	81	14,270	0.0754	1,200	450	525	200
K4E423300	3 x 300	34	20.68	3.4	29.0	3.15	77.0	3.7	87	16,680	0.0601	1,100	495	585	200
K4E423400	3 x 400	53	23.39	3.4	32.0	3.15	84.0	3.9	94	20,540	0.0470	1,000	545	660	200

** Depth of laying in ground = 1 m, Rho = 1.2 °C m/watt
R = Packing in reel



MEDIUM VOLTAGE CROSS-LINKED POLYETHYLENE INSULATED, COPPER CONDUCTOR WITH STEEL WIRE ARMOUR



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 at 5s maximum duration)
Insulation	Cross-linked polyethylene. (XLPE)		
Insulation Screen	Semi-conducting cross-linked polyethylene.		
Metallic Shield	Annealed copper tape.		
Filler	Polypropylene (Nonhygroscopic material)	R E F E R E N C E	N O T E
Wrapping Tape	Polyester and/or Spunbond tape.	IEC 60228 & IEC 60502-2	A special FR-PVC or Low Smoke Halogen Free (LSHF) Flame retardant sheath can be supplied in accordance with IEC 60332-3.
Separator Sheath	Black Polyvinyl chloride (ST2) ; Optional : Polyethylene (ST7)	** AC Test Voltage : 30.5 kV	
Armour	Galvanized steel wire.		
Separator Tape	Polyester and/or Spunbond tape.		
Outer Sheath	Black Polyvinyl chloride (ST2) ; Optional : Polyethylene (ST7)		

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** Depth of laying in ground = 1 m. Rho = 1.2 °C m/watt

40 Medium & High Voltage Power Cable

R = Packing in reel



MEDIUM VOLTAGE CROSS-LINKED POLYETHYLENE INSULATED, COPPER CONDUCTOR WITH STEEL WIRE ARMOUR

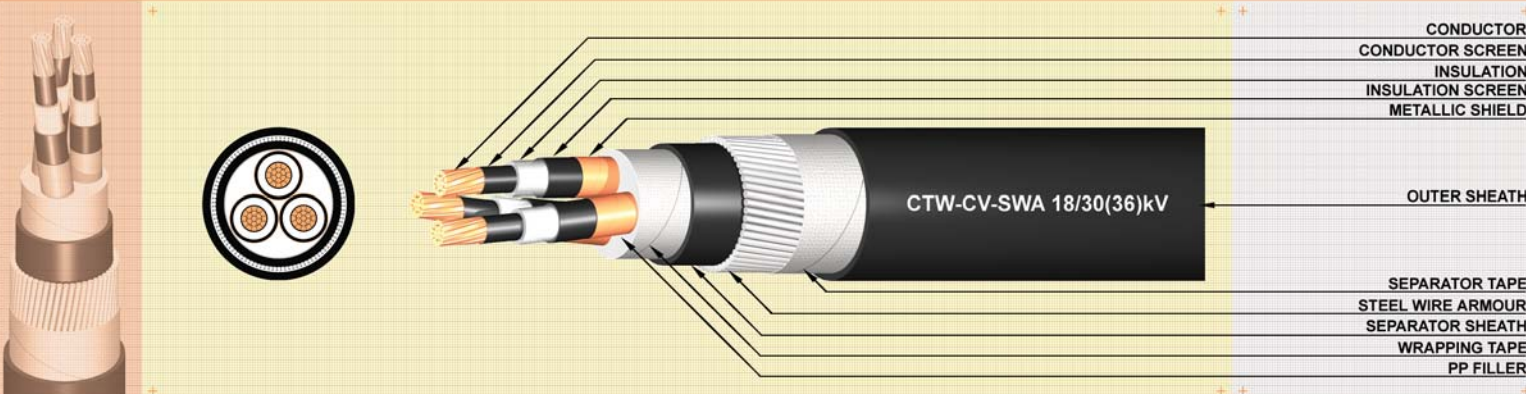


Conductor	Compact round stranded annealed copper.	Preferably used for urban networks. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.	Maximum Conductor Temperature 90 °C (Normal Operation)
Conductor Screen	Semi-conducting cross-linked polyethylene.		Maximum Conductor Temperature 250 °C (Short-circuit at 5s maximum duration)
Insulation	Cross-linked polyethylene. (XLPE)		
Insulation Screen	Semi-conducting cross-linked polyethylene.		
Metallic Shield	Annealed copper tape.		
Filler	Polypropylene (Nonhygroscopic material)		
Wrapping Tape	Polyester and/or Spunbond tape.	REFERENCE IEC 60228 & IEC 60502-2 ** AC Test Voltage : 42 kV	NOTE A special FR-PVC or Low Smoke Halogen Free (LSHF) Flame retardant sheath can be supplied in accordance with IEC 60332-3.
Separator Sheath	Black Polyvinyl chloride (ST2) ; Optional : Polyethylene (ST7)		
Armour	Galvanized steel wire.		
Separator Tape	Polyester and/or Spunbond tape.		
Outer Sheath	Black Polyvinyl chloride (ST2) ; Optional : Polyethylene (ST7)		

** Depth of laying in ground = 1 m, Rho = 1.2 °C m/watt
R = Packing in reel



MEDIUM VOLTAGE CROSS-LINKED POLYETHYLENE INSULATED, COPPER CONDUCTOR WITH STEEL WIRE ARMOUR



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 at 5s maximum duration)
Insulation	Cross-linked polyethylene. (XLPE)		
Insulation Screen	Semi-conducting cross-linked polyethylene.		
Metallic Shield	Annealed copper tape.		
Filler	Polypropylene (Nonhygroscopic material)	R E F E R E N C E	N O T E
Wrapping Tape	Polyester and/or Spunbond tape.	IEC 60228 & IEC 60502-2	A special FR-PVC or Low Smoke Halogen Free (LSHF) Flame retardant sheath can be supplied in accordance with IEC 60332-3.
Separator Sheath	Black Polyvinyl chloride (ST2) ; Optional : Polyethylene (ST7)	** AC Test Voltage : 63 kV	
Armour	Galvanized steel wire.		
Separator Tape	Polyester and/or Spunbond tape.		
Outer Sheath	Black Polyvinyl chloride (ST2) ; Optional : Polyethylene (ST7)		

[illegible]

** Depth of laying in ground = 1 m, Rho = 1.2 °C m/watt