

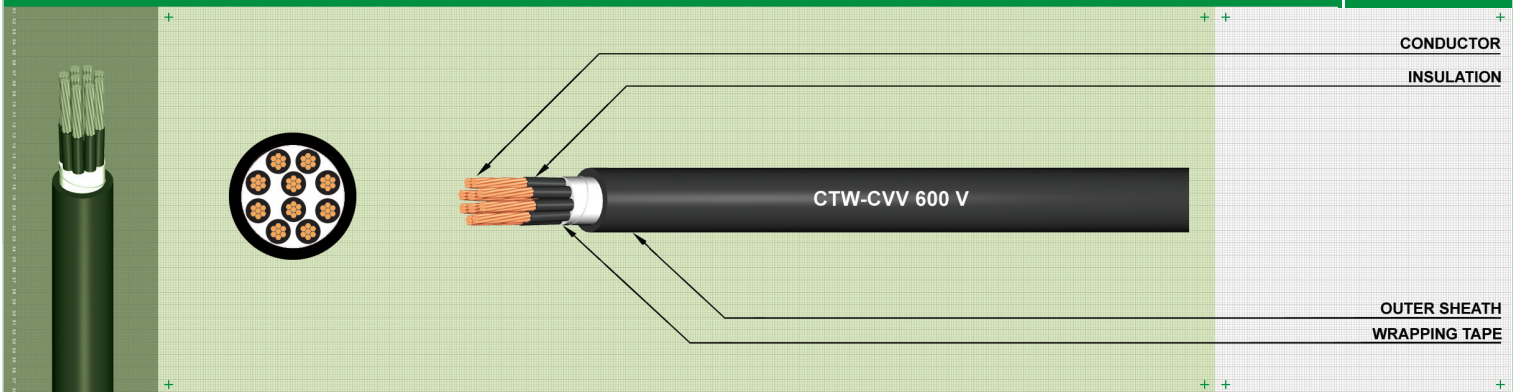


CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : CTW-CVV 600 V (STRANDED CONDUCTOR)

: 600 V 75°C PVC INSULATED AND SHEATHED CONTROL CABLE NON-SHIELD

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APPLICATION

Supervisory electrical equipment, station control circuits. Out door, suitable installation in the wet or dry cable trenches

CONSTRUCTION

Conductor : Concentric lay strand annealed copper conductor
Insulation : Polyvinyl chloride (PVC) : Black colour with marking number.
Filler : PVC Rod and/or Polypropylene (Nonhygroscopic material)
Wrapping Tape : Polyester (Mylar) tape.
Outer Sheath : Black polyvinyl chloride (PVC) .
*** Colours sequence for circuit identification & other colours for outer sheath to special order.

REFERENCE STANDARD

ICEA S-61-402 (NEMA WC 5).
*Testing Voltage : 1.5, 3.0, 3.5 kV (By Conductor Size).

CLASSIFICATION

Maximum conductor temperature 75°C,
Circuit voltage does not exceed 600 volts.

OPTIONAL

A Special FR-PVC flame retardant sheath can be supplied.

CTW - CVV 600V (ICEA S-61-402)		Conductor			Thickness of Insulation	Thickness of Outer Sheath	Overall diameter (Approx.)	Cable weight (Approx.)	Maximum conductor resistance at 20 °C	Minimum insulation resistance at 20 °C	Standard packing
		Nominal Cross-sectional area	Number and diameter of wire	Diameter (Approx.)							
PRODUCT CODE	No. of Core	mm ²	No. / mm	mm	mm	mm	mm	kg/km	Ω/km	MΩ-km	m/R
C23024005	2	0.5	7/0.30	0.90	0.76	1.14	8.5	80	36.0	272	1,000
C23024075		0.75	7/0.33	0.99	0.76	1.14	8.5	90	24.5	257	1,000
C23024001		1.0	7/0.40	1.20	0.76	1.14	9.0	100	18.1	228	1,000
C23024501		1.5	7/0.50	1.50	1.14	1.14	11.5	150	12.10	252	1,000
C23024502		2.5	7/0.67	2.01	1.14	1.14	12.5	190	7.41	209	1,000
C23024004		4	7/0.85	2.55	1.14	1.14	14.0	240	4.61	177	1,000
C23024006		6	7/1.04	3.12	1.14	1.52	16.0	330	3.08	153	1,000
C23024010		10	7/1.35	4.05	1.52	1.52	19.5	520	1.83	154	1,000
C23034005	3	0.5	7/0.30	0.90	0.76	1.14	9.0	90	36.0	272	1,000
C23034075		0.75	7/0.33	0.99	0.76	1.14	9.0	100	24.5	257	1,000
C23034001		1.0	7/0.40	1.20	0.76	1.14	9.5	110	18.1	228	1,000
C23034501		1.5	7/0.50	1.50	1.14	1.14	12.0	180	12.10	252	1,000
C23034502		2.5	7/0.67	2.01	1.14	1.14	13.5	230	7.41	209	1,000
C23034004		4	7/0.85	2.55	1.14	1.52	15.5	320	4.61	177	1,000
C23034006		6	7/1.04	3.12	1.14	1.52	17.0	410	3.08	153	1,000
C23034010		10	7/1.35	4.05	1.52	1.52	21.0	650	1.83	154	1,000



CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : CTW-CVV 600 V (STRANDED CONDUCTOR)

: 600 V 75°C PVC INSULATED AND SHEATHED CONTROL CABLE NON-SHIELD

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CTW - CVV 600V (ICEA S-61-402)		Conductor			Thickness of Insulation	Thickness of Outer Sheath	Overall diameter (Approx.)	Cable weight (Approx.)	Maximum conductor resistance at 20 °C	Minimum insulation resistance at 20 °C	Standard packing
		Nominal Cross-sectional area	Number and diameter of wire	Diameter (Approx.)							
PRODUCT CODE	No. of Core	mm ²	No. / mm	mm	mm	mm	mm	kg/km	Ω/km	MΩ-km	m/R
C23044005	4	0.5	7/0.30	0.90	0.76	1.14	10.0	110	36.0	272	1,000
C23044075		0.75	7/0.33	0.99	0.76	1.14	10.0	120	24.5	257	1,000
C23044001		1.0	7/0.40	1.20	0.76	1.14	10.5	130	18.1	228	1,000
C23044501		1.5	7/0.50	1.50	1.14	1.14	13.5	210	12.10	252	1,000
C23044502		2.5	7/0.67	2.01	1.14	1.52	15.5	310	7.41	209	1,000
C23044004		4	7/0.85	2.55	1.14	1.52	17.0	400	4.61	177	1,000
C23044006		6	7/1.04	3.12	1.14	1.52	18.5	510	3.08	153	1,000
C23044010		10	7/1.35	4.05	1.52	2.03	24.0	860	1.83	154	1,000
C23054005	5	0.5	7/0.30	0.90	0.76	1.14	10.5	120	36.0	272	1,000
C23054075		0.75	7/0.33	0.99	0.76	1.14	11.0	130	24.5	257	1,000
C23054001		1.0	7/0.40	1.20	0.76	1.14	11.5	160	18.1	228	1,000
C23054501		1.5	7/0.50	1.50	1.14	1.52	15.5	270	12.10	252	1,000
C23054502		2.5	7/0.67	2.01	1.14	1.52	17.0	360	7.41	209	1,000
C23054004		4	7/0.85	2.55	1.14	1.52	18.7	470	4.61	177	1,000
C23054006		6	7/1.04	3.12	1.14	1.52	20.5	600	3.08	153	1,000
C23054010		10	7/1.35	4.05	1.52	2.03	26.5	1,020	1.83	154	1,000
C23064005	6	0.5	7/0.30	0.90	0.76	1.14	11.5	150	36.0	272	1,000
C23064075		0.75	7/0.33	0.99	0.76	1.14	12.0	160	24.5	257	1,000
C23064001		1.0	7/0.40	1.20	0.76	1.14	12.5	190	18.1	228	1,000
C23064501		1.5	7/0.50	1.50	1.14	1.52	17.0	330	12.10	252	1,000
C23064502		2.5	7/0.67	2.01	1.14	1.52	18.5	430	7.41	209	1,000
C23064004		4	7/0.85	2.55	1.14	1.52	20.5	560	4.61	177	1,000
C23064006		6	7/1.04	3.12	1.14	1.52	22.0	720	3.08	153	1,000
C23064010		10	7/1.35	4.05	1.52	2.03	29.0	1,220	1.83	154	1,000
C23074005	7	0.5	7/0.30	0.90	0.76	1.14	11.5	150	36.0	272	1,000
C23074075		0.75	7/0.33	0.99	0.76	1.14	12.0	160	24.5	257	1,000
C23074001		1.0	7/0.40	1.20	0.76	1.14	12.5	200	18.1	228	1,000
C23074501		1.5	7/0.50	1.50	1.14	1.52	17.0	340	12.10	252	1,000
C23074502		2.5	7/0.67	2.01	1.14	1.52	18.5	450	7.41	209	1,000
C23074004		4	7/0.85	2.55	1.14	1.52	20.5	600	4.61	177	1,000
C23074006		6	7/1.04	3.12	1.14	1.52	22.0	770	3.08	153	1,000
C23074010		10	7/1.35	4.05	1.52	2.03	29.0	1,300	1.83	154	1,000



CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : **CTW-CVV 600 V (STRANDED CONDUCTOR)**

: 600 V 75°C PVC INSULATED AND SHEATHED CONTROL CABLE NON-SHIELD

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CTW - CVV 600V (ICEA S-61-402)		Conductor			Thickness of Insulation	Thickness of Outer Sheath	Overall diameter (Approx.)	Cable weight (Approx.)	Maximum conductor resistance at 20 °C	Minimum insulation resistance at 15.6 °C	Standard packing
PRODUCT CODE	No. of Core	Nominal Cross-sectional area	Number and diameter of wire	Diameter (Approx.)							
		mm ²	No. / mm	mm	mm	mm	mm	kg/km	Ω/km	MΩ-km	m/R
C23084005	8	0.5	7/0.30	0.90	0.76	1.14	12.5	170	36.0	272	1,000
C23084075		0.75	7/0.33	0.99	0.76	1.14	13.0	190	24.5	257	1,000
C23084001		1.0	7/0.40	1.20	0.76	1.14	13.5	220	18.1	228	1,000
C23084501		1.5	7/0.50	1.50	1.14	1.52	18.0	390	12.10	252	1,000
C23084502		2.5	7/0.67	2.01	1.14	1.52	20.0	520	7.41	209	1,000
C23084004		4	7/0.85	2.55	1.14	1.52	22.0	690	4.61	177	1,000
C23084006		6	7/1.04	3.12	1.14	2.03	25.0	950	3.08	153	1,000
C23084010		10	7/1.35	4.05	1.52	2.03	31.5	1,500	1.83	154	1,000
C23094005	9	0.5	7/0.30	0.90	0.76	1.14	13.5	200	36.0	272	1,000
C23094075		0.75	7/0.33	0.99	0.76	1.14	13.5	210	24.5	257	1,000
C23094001		1.0	7/0.40	1.20	0.76	1.52	15.5	280	18.1	228	1,000
C23094501		1.5	7/0.50	1.50	1.14	1.52	19.5	440	12.10	252	1,000
C23094502		2.5	7/0.67	2.01	1.14	1.52	21.5	590	7.41	209	1,000
C23094004		4	7/0.85	2.55	1.14	2.03	25.0	830	4.61	177	1,000
C23094006		6	7/1.04	3.12	1.14	2.03	27.0	1,070	3.08	153	1,000
C23094010		10	7/1.35	4.05	1.52	2.03	34.0	1,700	1.83	154	1,000
C23104005	10	0.5	7/0.30	0.90	0.76	1.52	15.0	250	36.0	272	1,000
C23104075		0.75	7/0.33	0.99	0.76	1.52	15.5	270	24.5	257	1,000
C23104001		1.0	7/0.40	1.20	0.76	1.52	16.5	310	18.1	223	1,000
C23104501		1.5	7/0.50	1.50	1.14	1.52	21.5	500	12.10	252	1,000
C23104502		2.5	7/0.67	2.01	1.14	2.03	24.5	720	7.41	209	1,000
C23104004		4	7/0.85	2.55	1.14	2.03	27.0	940	4.61	177	1,000
C23104006		6	7/1.04	3.12	1.14	2.03	29.5	1,210	3.08	153	1,000
C23104010		10	7/1.35	4.05	1.52	2.03	37.0	1,930	1.83	154	500
C23114005	11	0.5	7/0.30	0.90	0.76	1.52	15.0	260	36.0	272	1,000
C23114075		0.75	7/0.33	0.99	0.76	1.52	15.5	280	24.5	257	1,000
C23114001		1.0	7/0.40	1.20	0.76	1.52	16.5	330	18.1	228	1,000
C23114501		1.5	7/0.50	1.50	1.14	1.52	21.5	520	12.10	252	1,000
C23114502		2.5	7/0.67	2.01	1.14	2.03	24.5	760	7.41	209	1,000
C23114004		4	7/0.85	2.55	1.14	2.03	27.0	990	4.61	177	1,000
C23114006		6	7/1.04	3.12	1.14	2.03	29.5	1,290	3.08	153	1,000
C23114010		10	7/1.35	4.05	1.52	2.03	37.0	2,060	1.83	154	500



CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : CTW-CVV 600 V (STRANDED CONDUCTOR)

: 600 V 75°C PVC INSULATED AND SHEATHED CONTROL CABLE NON-SHIELD

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CTW - CVV 600V (ICEA S-61-402)		Conductor			Thickness of Insulation	Thickness of Outer Sheath	Overall diameter (Approx.)	Cable weight (Approx.)	Maximum conductor resistance at 20 °C	Minimum insulation resistance at 15.6 °C	Standard packing
		Nominal Cross-sectional area	Number and diameter of wire	Diameter (Approx.)							
PRODUCT CODE	No. of Core	mm ²	No. / mm	mm	mm	mm	mm	kg/km	Ω/km	MΩ-km	m/R
C23124005	12	0.5	7/0.30	0.90	0.76	1.52	15.5	270	36.0	272	1,000
C23124075		0.75	7/0.33	0.99	0.76	1.52	16.0	300	24.5	257	1,000
C23124001		1.0	7/0.40	1.20	0.76	1.52	17.0	350	18.1	228	1,000
C23124501		1.5	7/0.50	1.50	1.14	1.52	22.0	560	12.10	252	1,000
C23124502		2.5	7/0.67	2.01	1.14	2.03	25.5	810	7.41	209	1,000
C23124004		4	7/0.85	2.55	1.14	2.03	28.0	1,060	4.61	177	1,000
C23124006		6	7/1.04	3.12	1.14	2.03	30.5	1,380	3.08	153	1,000
C23124010		10	7/1.35	4.05	1.52	2.03	38.0	2,210	1.83	154	500
C23134005	13	0.5	7/0.30	0.90	0.76	1.52	16	290	36.0	272	1,000
C23134075		0.75	7/0.33	0.99	0.76	1.52	16.5	310	24.5	257	1,000
C23134001		1.0	7/0.40	1.20	0.76	1.52	17.5	370	18.1	228	1,000
C23134501		1.5	7/0.50	1.50	1.14	1.52	22.5	590	12.10	252	1,000
C23134502		2.5	7/0.67	2.01	1.14	2.03	26.0	860	7.41	209	1,000
C23134004		4	7/0.85	2.55	1.14	2.03	28.5	1,130	4.61	177	1,000
C23134006		6	7/1.04	3.12	1.14	2.03	31.0	1,470	3.08	153	1,000
C23134010		10	7/1.35	4.05	1.52	2.03	39.0	2,360	1.83	154	500
C23144005	14	0.5	7/0.30	0.90	0.76	1.52	16.5	310	36.0	272	1,000
C23144075		0.75	7/0.33	0.99	0.76	1.52	17.0	330	24.5	257	1,000
C23144001		1.0	7/0.40	1.20	0.76	1.52	18.0	390	18.1	228	1,000
C23144501		1.5	7/0.50	1.50	1.14	2.03	24.0	690	12.10	252	1,000
C23144502		2.5	7/0.67	2.01	1.14	2.03	26.5	920	7.41	209	1,000
C23144004		4	7/0.85	2.55	1.14	2.03	29.5	1,210	4.61	177	1,000
C23144006		6	7/1.04	3.12	1.14	2.03	32.0	1,570	3.08	153	1,000
C23144010		10	7/1.35	4.05	1.52	2.03	40.0	2,530	1.83	154	500
C23154005	15	0.5	7/0.30	0.90	0.76	1.52	17.0	320	36.0	272	1,000
C23154075		0.75	7/0.33	0.99	0.76	1.52	17.5	350	24.5	257	1,000
C23154001		1.0	7/0.40	1.20	0.76	1.52	18.5	420	18.1	228	1,000
C23154501		1.5	7/0.50	1.50	1.14	2.03	25.0	720	12.10	252	1,000
C23154502		2.5	7/0.67	2.01	1.14	2.03	27.5	970	7.41	209	1,000
C23154004		4	7/0.85	2.55	1.14	2.03	30.0	1,280	4.61	177	1,000
C23154006		6	7/1.04	3.12	1.14	2.03	33.0	1,670	3.08	153	1,000
C23154010		10	7/1.35	4.05	1.52	2.03	41.5	2,690	1.83	154	500



CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : **CTW-CVV 600 V(STRANDED CONDUCTOR)**

: 600 V 75°C PVC INSULATED AND SHEATHED CONTROL CABLE NON-SHIELD

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CTW - CVV 600V (ICEA S-61-402)		Conductor			Thickness of Insulation	Thickness of Outer Sheath	Overall diameter (Approx.)	Cable weight (Approx.)	Maximum conductor resistance at 20 °C	Minimum insulation resistance at 15.6 °C	Standard packing
		Nominal Cross-sectional area	Number and diameter of wire	Diameter (Approx.)							
PRODUCT CODE	No. of Core	mm ²	No. / mm	mm	mm	mm	mm	kg/km	Ω/km	MΩ-km	m/R
C23164005	16	0.5	7/0.30	0.90	0.76	1.52	17.5	340	36.0	272	1,000
C23164075		0.75	7/0.33	0.99	0.76	1.52	18.0	370	24.5	257	1,000
C23164001		1.0	7/0.40	1.20	0.76	1.52	19.0	440	18.1	228	1,000
C23164501		1.5	7/0.50	1.50	1.14	2.03	25.5	760	12.10	252	1,000
C23164502		2.5	7/0.67	2.01	1.14	2.03	28.0	1,020	7.41	209	1,000
C23164004		4	7/0.85	2.55	1.14	2.03	31.0	1,350	4.61	177	1,000
C23164006		6	7/1.04	3.12	1.14	2.03	34.0	1,760	3.08	153	1,000
C23164010		10	7/1.35	4.05	1.52	2.03	42.5	2,840	1.83	154	500
C23174005	17	0.5	7/0.30	0.90	0.76	1.52	18.0	360	36.0	272	1,000
C23174075		0.75	7/0.33	0.99	0.76	1.52	18.5	390	24.5	257	1,000
C23174001		1.0	7/0.40	1.20	0.76	1.52	19.5	460	18.1	228	1,000
C23174501		1.5	7/0.50	1.50	1.14	2.03	26.5	805	12.10	252	1,000
C23174502		2.5	7/0.67	2.01	1.14	2.03	29.0	1,080	7.41	209	1,000
C23174004		4	7/0.85	2.55	1.14	2.03	32.0	1,430	4.61	177	1,000
C23174006		6	7/1.04	3.12	1.14	2.03	35.0	1,860	3.08	153	1,000
C23174010		10	7/1.35	4.05	1.52	2.03	44.0	3,010	1.83	154	500
C23184005	18	0.5	7/0.30	0.90	0.76	1.52	18.0	380	36.0	272	1,000
C23184075		0.75	7/0.33	0.99	0.76	1.52	19.0	410	24.5	257	1,000
C23184001		1.0	7/0.40	1.20	0.76	1.52	20.0	490	18.1	228	1,000
C23184501		1.5	7/0.50	1.50	1.14	2.03	27.0	850	12.10	252	1,000
C23184502		2.5	7/0.67	2.01	1.14	2.03	29.5	1,140	7.41	209	1,000
C23184004		4	7/0.85	2.55	1.14	2.03	32.5	1,510	4.61	177	1,000
C23184006		6	7/1.04	3.12	1.14	2.03	35.5	1,970	3.08	153	500
C23184010		10	7/1.35	4.05	1.52	2.03	45.0	3,190	1.83	154	500
C23194005	19	0.5	7/0.30	0.90	0.76	1.52	18.0	380	36.0	272	1,000
C23194075		0.75	7/0.33	0.99	0.76	1.52	19.0	410	24.5	257	1,000
C23194001		1.0	7/0.40	1.20	0.76	1.52	20.0	490	18.1	228	1,000
C23194501		1.5	7/0.50	1.50	1.14	2.03	27.0	860	12.10	252	1,000
C23194502		2.5	7/0.67	2.01	1.14	2.03	29.5	1,160	7.41	209	1,000
C23194004		4	7/0.85	2.55	1.14	2.03	32.5	1,540	4.61	177	1,000
C23194006		6	7/1.04	3.12	1.14	2.03	35.5	2,020	3.08	153	500
C23194010		10	7/1.35	4.05	1.52	2.03	45.0	3,270	1.83	154	500



CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : **CTW-CVV 600 V(STRANDED CONDUCTOR)**

: 600 V 75°C PVC INSULATED AND SHEATHED CONTROL CABLE NON-SHIELD

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CTW - CVV 600V (ICEA S-61-402)		Conductor			Thickness of Insulation	Thickness of Outer Sheath	Overall diameter (Approx.)	Cable weight (Approx.)	Maximum conductor resistance at 20 °C	Minimum insulation resistance at 15.6 °C	Standard packing
		Nominal Cross-sectional area	Number and diameter of wire	Diameter (Approx.)							
PRODUCT CODE	No. of Core	mm ²	No. / mm	mm	mm	mm	mm	kg/km	Ω/km	MΩ-km	m/R
C23244005	24	0.5	7/0.30	0.90	0.76	1.52	21.0	490	36.0	272	1,000
C23244075		0.75	7/0.33	0.99	0.76	1.52	21.5	530	24.5	257	1,000
C23244001		1.0	7/0.40	1.20	0.76	2.03	24.5	690	18.1	228	1,000
C23244501		1.5	7/0.50	1.50	1.14	2.03	31.0	1,100	12.10	252	1,000
C23244502		2.5	7/0.67	2.01	1.14	2.03	34.5	1,490	7.41	209	1,000
C23244004		4	7/0.85	2.55	1.14	2.03	38.0	2,000	4.61	177	500
C23244006		6	7/1.04	3.12	1.14	2.03	42.0	2,610	3.08	153	500
C23244010		10	7/1.35	4.05	1.52	2.79	55.0	4,400	1.83	154	500
C23254005	25	0.5	7/0.30	0.90	0.76	1.52	21.0	500	36.0	272	1,000
C23254075		0.75	7/0.33	0.99	0.76	1.52	21.5	540	24.5	257	1,000
C23254001		1.0	7/0.40	1.20	0.76	2.03	24.5	700	18.1	228	1,000
C23254501		1.5	7/0.50	1.50	1.14	2.03	31.0	1,130	12.10	252	1,000
C23254502		2.5	7/0.67	2.01	1.14	2.03	34.5	1,530	7.41	209	1,000
C23254004		4	7/0.85	2.55	1.14	2.03	38.0	2,050	4.61	177	500
C23254006		6	7/1.04	3.12	1.14	2.03	42.0	2,680	3.08	153	500
C23254010		10	7/1.35	4.05	1.52	2.79	55.0	4,530	1.83	154	500
C23264005	26	0.5	7/0.30	0.90	0.76	1.52	21.0	510	36.0	272	1,000
C23264075		0.75	7/0.33	0.99	0.76	1.52	21.5	550	24.5	257	1,000
C23264001		1.0	7/0.40	1.20	0.76	2.03	24.5	720	18.1	228	1,000
C23264501		1.5	7/0.50	1.50	1.14	2.03	31.0	1,160	12.10	252	1,000
C23264502		2.5	7/0.67	2.01	1.14	2.03	34.5	1,570	7.41	209	1,000
C23264004		4	7/0.85	2.55	1.14	2.03	38.0	2,100	4.61	177	500
C23264006		6	7/1.04	3.12	1.14	2.03	42.0	2,760	3.08	153	500
C23264010		10	7/1.35	4.05	1.52	2.79	55.0	4,660	1.83	154	500
C23274005	27	0.5	7/0.30	0.90	0.76	1.52	21.5	530	36.0	272	1,000
C23274075		0.75	7/0.33	0.99	0.76	1.52	22.0	570	24.5	257	1,000
C23274001		1.0	7/0.40	1.20	0.76	2.03	24.5	740	18.1	228	1,000
C23274501		1.5	7/0.50	1.50	1.14	2.03	32.0	1,200	12.10	252	1,000
C23274502		2.5	7/0.67	2.01	1.14	2.03	35.5	1,620	7.41	209	1,000
C23274004		4	7/0.85	2.55	1.14	2.03	39.0	2,170	4.61	177	500
C23274006		6	7/1.04	3.12	1.14	2.03	43.0	2,850	3.08	153	500
C23274010		10	7/1.35	4.05	1.52	2.79	56.0	4,820	1.83	154	500

