

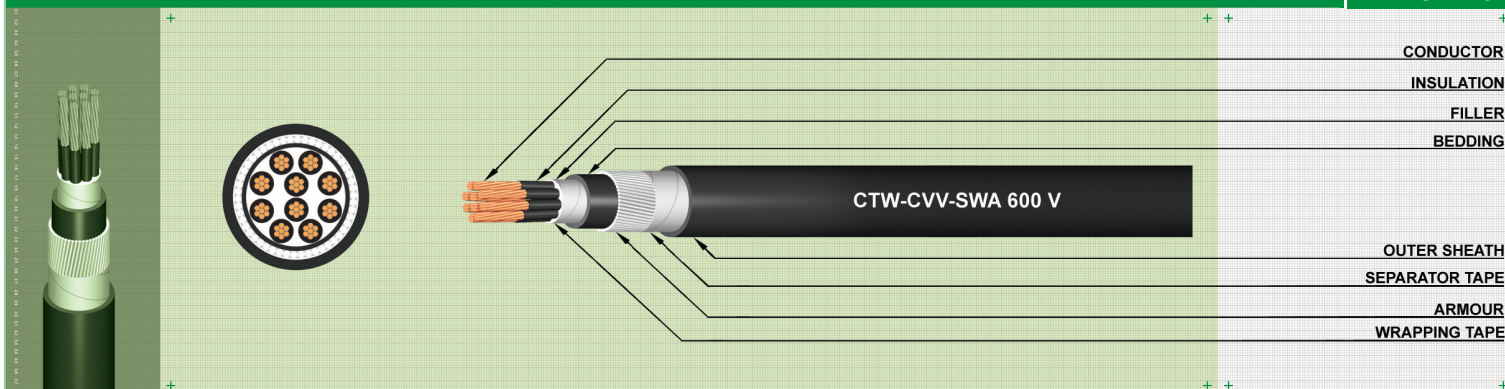


CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

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

: 600 V 70 °C PVC INSULATED AND SHEATHED CONTROL CABLE WITH GALVANIZED STEEL WIRES ARMOUR

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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.
 Bedding : Black polyvinyl chloride (PVC) .
 Armour : Galvanized steel wire armour
 Separator 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

IEC 60502-1
 *Testing Voltage : 3.5 kV

CLASSIFICATION

Maximum conductor temperature 70 °C,
 Circuit voltage does not exceed 600 volts.

OPTIONAL

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

CTW-CVV-SWA 600V (IEC 60502-1)		Conductor			Thickness of Insulation	Thickness of Bedding Sheath	Armour wire diameter	Thickness of Outer Sheath	Overall diameter (Approx.)	Cable weight (Approx.)	Maximum conductor resistance at 20 °C	Minimum insulation resistance at 20 °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	mm	mm	Ω/km	kg/km	MΩ·km	m/R
C73024501	2	1.5	7/0.50	1.50	0.8	1.0	0.8	1.8	16.0	350	12.10	12.2	1,000
C73024502		2.5	7/0.67	2.01	0.8	1.0	0.8	1.8	17.0	420	7.41	9.9	1,000
C73024004		4	7/0.85	2.55	1.0	1.0	1.25	1.8	20.0	640	4.61	9.7	1,000
C73024006		6	7/1.04	3.12	1.0	1.0	1.25	1.8	21.0	730	3.08	8.3	1,000
C73024010		10	7/1.35	4.05	1.0	1.0	1.25	1.8	23.0	890	1.83	6.8	1,000
C73034501	3	1.5	7/0.50	1.50	0.8	1.0	0.8	1.8	16.0	390	12.10	12.2	1,000
C73034502		2.5	7/0.67	2.01	0.8	1.0	0.8	1.8	18.0	460	7.41	9.9	1,000
C73034004		4	7/0.85	2.55	1.0	1.0	1.25	1.8	21.0	720	4.61	9.7	1,000
C73034006		6	7/1.04	3.12	1.0	1.0	1.25	1.8	22.0	830	3.08	8.3	1,000
C73034010		10	7/1.35	4.05	1.0	1.0	1.25	1.8	24.0	1050	1.83	6.8	1,000
C73044501	4	1.5	7/0.50	1.50	0.8	1.0	0.8	1.8	18.0	440	12.10	12.2	1,000
C73044502		2.5	7/0.67	2.01	0.8	1.0	1.25	1.8	20.0	650	7.41	9.9	1,000
C73044004		4	7/0.85	2.55	1.0	1.0	1.25	1.8	22.0	830	4.61	9.7	1,000
C73044006		6	7/1.04	3.12	1.0	1.0	1.25	1.8	24.0	970	3.08	8.3	1,000
C73044010		10	7/1.35	4.05	1.0	1.0	1.60	1.8	27.0	1,380	1.83	6.8	1,000



CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

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

: 600 V 70 °C PVC INSULATED AND SHEATHED CONTROL CABLE WITH GALVANIZED STEEL WIRES ARMOUR

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CTW-CVV-SWA 600V (IEC 60502-1)		Conductor			Thickness of Insulation	Thickness of Bedding Sheath	Armour wire diameter	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	mm	mm	Ω/km	kg/km	MΩ-km	m/R
C73054501	5	1.5	7/0.50	1.50	0.8	1.0	1.25	1.8	20.0	600	12.10	12.2	1,000
C73054502		2.5	7/0.67	2.01	0.8	1.0	1.25	1.8	21.0	720	7.41	9.9	1,000
C73054004		4	7/0.85	2.55	1.0	1.0	1.25	1.8	24.0	920	4.61	9.7	1,000
C73054006		6	7/1.04	3.12	1.0	1.0	1.25	1.8	26.0	1090	3.08	8.3	1,000
C73054010		10	7/1.35	4.05	1.0	1.0	1.60	1.8	29.0	1,560	1.83	6.8	1,000
C73064501	6	1.5	7/0.50	1.50	0.8	1.0	1.25	1.8	21.0	670	12.10	12.2	1,000
C73064502		2.5	7/0.67	2.01	0.8	1.0	1.25	1.8	22.0	810	7.41	9.9	1,000
C73064004		4	7/0.85	2.55	1.0	1.0	1.25	1.8	25.0	1050	4.61	9.7	1,000
C73064006		6	7/1.04	3.12	1.0	1.0	1.60	1.8	28.0	1,390	3.08	8.3	1,000
C73064010		10	7/1.35	4.05	1.0	1.0	1.60	1.8	31.0	1,800	1.83	6.8	1,000
C73074501	7	1.5	7/0.50	1.50	0.8	1.0	1.25	1.8	21.0	680	12.10	12.2	1,000
C73074502		2.5	7/0.67	2.01	0.8	1.0	1.25	1.8	22.0	830	7.41	9.9	1,000
C73074004		4	7/0.85	2.55	1.0	1.0	1.25	1.8	26.0	1080	4.61	9.7	1,000
C73074006		6	7/1.04	3.12	1.0	1.0	1.60	1.8	28.0	1,430	3.08	8.3	1,000
C73074010		10	7/1.35	4.05	1.0	1.0	1.60	1.8	31.0	1,870	1.83	6.8	1,000
C73084501	8	1.5	7/0.50	1.50	0.8	1.0	1.25	1.8	22.0	470	12.10	12.2	1,000
C73084502		2.5	7/0.67	2.01	0.8	1.0	1.25	1.8	24.0	920	7.41	9.9	1,000
C73084004		4	7/0.85	2.55	1.0	1.0	1.60	1.8	28.0	1,340	4.61	9.7	1,000
C73084006		6	7/1.04	3.12	1.0	1.0	1.60	1.8	30.0	1,590	3.08	8.3	1,000
C73084010		10	7/1.35	4.05	1.0	1.0	1.60	1.8	33.0	2,080	1.83	6.8	1,000
C73094501	9	1.5	7/0.50	1.50	0.8	1.0	1.25	1.8	23.0	810	12.10	12.2	1,000
C73094502		2.5	7/0.67	2.01	0.8	1.0	1.25	1.8	25.0	1000	7.41	9.9	1,000
C73094004		4	7/0.85	2.55	1.0	1.0	1.60	1.8	30.0	1,470	4.61	9.7	1,000
C73094006		6	7/1.04	3.12	1.0	1.0	1.60	1.8	32.0	1,750	3.08	8.3	1,000
C73094010		10	7/1.35	4.05	1.0	1.0	1.60	1.9	35.0	2,300	1.83	6.8	1,000
C73104501	10	1.5	7/0.50	1.50	0.8	1.0	1.25	1.8	25.0	890	12.10	12.2	1,000
C73104502		2.5	7/0.67	2.01	0.8	1.0	1.60	1.8	25.0	1,240	7.41	9.9	1,000
C73104004		4	7/0.85	2.55	1.0	1.0	1.60	1.8	32.0	1,600	4.61	9.7	1,000
C73104006		6	7/1.04	3.12	1.0	1.0	1.60	1.8	34.0	1,940	3.08	8.3	1,000
C73104010		10	7/1.35	4.05	1.0	1.2	2.00	2.1	36.0	2,900	1.83	6.8	1,000



CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

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

: 600 V 70 °C PVC INSULATED AND SHEATHED CONTROL CABLE WITH GALVANIZED STEEL WIRES ARMOUR

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CTW-CVV-SWA 600V (IEC 60502-1)		Conductor			Thickness of Insulation	Thickness of Bedding Sheath	Armour wire diameter	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	mm	mm	Ω/km	kg/km	MΩ-km	m/R
C73114501	11	1.5	7/0.50	1.50	0.8	1.0	1.6	1.8	25.0	1040	12.10	12.2	1,000
C73114502		2.5	7/0.67	2.01	0.8	1.0	1.6	1.8	28.0	1,270	7.41	9.9	1,000
C73114004		4	7/0.85	2.55	1.0	1.0	1.6	1.8	32.0	1,670	4.61	9.7	1,000
C73114006		6	7/1.04	3.12	1.0	1.0	1.6	1.9	34.0	2,030	3.08	8.3	1,000
C73114010		10	7/1.35	4.05	1.0	1.2	2.0	2.1	40.0	3,010	1.83	6.8	500
C73124501	12	1.5	7/0.50	1.50	0.8	1.0	1.6	1.8	26.0	1080	12.10	12.2	1,000
C73124502		2.5	7/0.67	2.01	0.8	1.0	1.6	1.8	28.0	1,330	7.41	9.9	1,000
C73124004		4	7/0.85	2.55	1.0	1.0	1.6	1.8	32.0	1,750	4.61	9.7	1,000
C73124006		6	7/1.04	3.12	1.0	1.0	1.6	1.9	35.0	2,150	3.08	8.3	1,000
C73124010		10	7/1.35	4.05	1.0	1.2	2.0	2.1	41.0	3,160	1.83	6.8	500
C73134501	13	1.5	7/0.50	1.50	0.8	1.0	1.6	1.8	26.0	1130	12.10	12.2	1,000
C73134502		2.5	7/0.67	2.01	0.8	1.0	1.6	1.8	28.0	1,390	7.41	9.9	1,000
C73134004		4	7/0.85	2.55	1.0	1.0	1.6	1.8	33.0	1,840	4.61	9.7	1,000
C73134006		6	7/1.04	3.12	1.0	1.0	1.6	1.9	36.0	2,250	3.08	8.3	1,000
C73134010		10	7/1.35	4.05	1.0	1.2	2.0	2.0	42.0	3,320	1.83	6.8	500
C73144501	14	1.5	7/0.50	1.50	0.8	1.0	1.6	1.8	27.0	1,170	12.10	12.2	1,000
C73144502		2.5	7/0.67	2.01	0.8	1.0	1.6	1.8	29.0	1,450	7.41	9.9	1,000
C73144004		4	7/0.85	2.55	1.0	1.0	1.6	1.8	34.0	1,960	4.61	9.7	1,000
C73144006		6	7/1.04	3.12	1.0	1.0	2.0	2.0	38.0	2,620	3.08	8.3	1,000
C73144010		10	7/1.35	4.05	1.0	1.2	2.0	2.1	43.0	3,520	1.83	6.8	500
C73154501	15	1.5	7/0.50	1.50	0.8	1.0	1.6	1.8	27.0	1,220	12.10	12.2	1,000
C73154502		2.5	7/0.67	2.01	0.8	1.0	1.6	1.8	30.0	1,510	7.41	9.9	1,000
C73154004		4	7/0.85	2.55	1.0	1.0	1.6	1.9	35.0	2,040	4.61	9.7	1,000
C73154006		6	7/1.04	3.12	1.0	1.0	2.0	2.0	39.0	2,740	3.08	8.3	1,000
C73154010		10	7/1.35	4.05	1.0	1.2	2.0	2.2	44.0	3,700	1.83	6.8	500
C73164501	16	1.5	7/0.50	1.50	0.8	1.0	1.6	1.8	28.0	1,260	12.10	12.2	1,000
C73164502		2.5	7/0.67	2.01	0.8	1.0	1.6	1.8	30.0	1,560	7.41	9.9	1,000
C73164004		4	7/0.85	2.55	1.0	1.0	1.6	1.9	36.0	2,110	4.61	9.7	1,000
C73164006		6	7/1.04	3.12	1.0	1.2	2.0	2.1	40.0	2,910	3.08	8.3	1,000
C73164010		10	7/1.35	4.05	1.0	1.2	2.0	2.2	45.0	3,850	1.83	6.8	500



CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

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

: 600 V 70 °C PVC INSULATED AND SHEATHED CONTROL CABLE WITH GALVANIZED STEEL WIRES ARMOUR

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CTW-CVV-SWA 600V (IEC 60502-1)		Conductor			Thickness of Insulation	Thickness of Bedding Sheath	Armour wire diameter	Thickness of Outer Sheath	Overall diameter (Approx.)	Cable weight (Approx.)	Maximum conductor resistance at 20 °C	Minimum insulation resistance at 20 °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	mm	mm	Ω/km	kg/km	MΩ·km	m/R
C73174501	17	1.5	7/0.50	1.50	0.8	1.0	1.6	1.8	28.0	1,320	12.10	12.2	1,000
C73174502		2.5	7/0.67	2.01	0.8	1.0	1.6	1.8	31.0	1,630	7.41	9.9	1,000
C73174004		4	7/0.85	2.55	1.0	1.0	2.0	2.0	38.0	2,440	4.61	9.7	1,000
C73174006		6	7/1.04	3.12	1.0	1.2	2.0	2.1	41.0	3,030	3.08	8.3	1,000
C73174010		10	7/1.35	4.05	1.0	1.2	2.0	2.2	46.0	4,030	1.83	6.8	500
C73184501	18	1.5	7/0.50	1.50	0.8	1.0	1.6	1.8	29.0	1,350	12.10	12.2	1,000
C73184502		2.5	7/0.67	2.01	0.8	1.0	1.6	1.8	32.0	1,700	7.41	9.9	1,000
C73184004		4	7/0.85	2.55	1.0	1.0	2.0	2.0	39.0	2,550	4.61	9.7	1,000
C73184006		6	7/1.04	3.12	1.0	1.2	2.0	2.1	42.0	3,160	3.08	8.3	500
C73184010		10	7/1.35	4.05	1.0	1.2	2.0	2.3	48.0	4,250	1.83	6.8	500
C73194501	19	1.5	7/0.50	1.50	0.8	1.0	1.6	1.8	29.0	1,360	12.10	12.2	1,000
C73194502		2.5	7/0.67	2.01	0.8	1.0	1.6	1.8	32.0	1,720	7.41	9.9	1,000
C73194004		4	7/0.85	2.55	1.0	1.0	2.0	2.0	38.0	2,580	4.61	9.7	1,000
C73194006		6	7/1.04	3.12	1.0	1.2	2.0	2.1	42.0	3,210	3.08	8.3	500
C73194010		10	7/1.35	4.05	1.0	1.2	2.0	2.3	48.0	4,320	1.83	6.8	500
C73204501	20	1.5	7/0.50	1.50	0.8	1.0	1.6	1.8	30.0	1,430	12.10	12.2	1,000
C73204502		2.5	7/0.67	2.01	0.8	1.0	1.6	1.8	32.0	1,780	7.41	9.9	1,000
C73204004		4	7/0.85	2.55	1.0	1.0	2.0	2.0	39.0	2,700	4.61	9.7	1,000
C73204006		6	7/1.04	3.12	1.0	1.2	2.0	2.1	43.0	3,350	3.08	8.3	500
C73204010		10	7/1.35	4.05	1.0	1.2	2.0	2.3	49.0	3,410	1.83	6.8	500
C73214501	21	1.5	7/0.50	1.50	0.8	1.0	1.6	1.8	30.0	1,460	12.10	12.2	1,000
C73214502		2.5	7/0.67	2.01	0.8	1.0	1.6	1.8	33.0	1,270	7.41	9.9	1,000
C73214004		4	7/0.85	2.55	1.0	1.2	2.0	2.1	40.0	2,840	4.61	9.7	1,000
C73214006		6	7/1.04	3.12	1.0	1.2	2.0	2.2	44.0	3,480	3.08	8.3	500
C73214010		10	7/1.35	4.05	1.0	1.2	2.0	2.4	51.0	5,070	1.83	6.8	500
C73224501	22	1.5	7/0.50	1.50	0.8	1.0	1.6	1.8	31.0	1,520	12.10	12.2	1,000
C73224502		2.5	7/0.67	2.01	0.8	1.0	1.6	1.9	34.0	1,930	7.41	9.9	1,000
C73224004		4	7/0.85	2.55	1.0	1.2	2.0	2.1	41.0	2,940	4.61	9.7	1,000
C73224006		6	7/1.04	3.12	1.0	1.2	2.0	2.2	45.0	3,610	3.08	8.3	500
C73224010		10	7/1.35	4.05	1.0	1.2	2.5	2.4	52.0	5,290	1.83	6.8	500



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CTW-CVV-SWA 600V (IEC 60502-1)		Conductor			Thickness of Insulation	Thickness of Bedding Sheath	Armour wire diameter	Thickness of Outer Sheath	Overall diameter (Approx.)	Cable weight (Approx.)	Maximum conductor resistance at 20 °C	Minimum insulation resistance at 20 °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	mm	mm	Ω/km	kg/km	MΩ·km	m/R
C73234501	23	1.5	7/0.50	1.50	0.8	1.0	1.6	1.8	31.0	1,550	12.10	12.2	1,000
C73234502		2.5	7/0.67	2.01	0.8	1.0	1.6	1.9	35.0	1,990	7.41	9.9	1,000
C73234004		4	7/0.85	2.55	1.0	1.2	2.0	2.1	42.0	3,030	4.61	9.7	500
C73234006		6	7/1.04	3.12	1.0	1.2	2.0	2.2	46.0	3,720	3.08	8.3	500
C73234010		10	7/1.35	4.05	1.0	1.4	2.5	2.5	54.0	5,530	1.83	6.8	500
C73244501	24	1.5	7/0.50	1.50	0.8	1.0	1.6	1.8	33.0	1,650	12.10	12.2	1,000
C73244502		2.5	7/0.67	2.01	0.8	1.0	2.0	2.0	37.0	2,340	7.41	9.9	1,000
C73244004		4	7/0.85	2.55	1.0	1.2	2.0	2.2	44.0	3,230	4.61	9.7	500
C73244006		6	7/1.04	3.12	1.0	1.2	2.0	2.3	48.0	3,960	3.08	8.3	500
C73244010		10	7/1.35	4.05	1.0	1.4	2.5	2.5	56.0	5,860	1.83	6.8	500
C73254501	25	1.5	7/0.50	1.50	0.8	1.0	1.6	1.8	33.0	1,680	12.10	12.2	1,000
C73254502		2.5	7/0.67	2.01	0.8	1.0	2.0	2.0	37.0	2,380	7.41	9.9	1,000
C73254004		4	7/0.85	2.55	1.0	1.2	2.0	2.2	44.0	3,290	4.61	9.7	500
C73254006		6	7/1.04	3.12	1.0	1.2	2.0	2.3	48.0	4,040	3.08	8.3	500
C73254010		10	7/1.35	4.05	1.0	1.4	2.5	2.5	56.0	5,980	1.83	6.8	500
C73264501	26	1.5	7/0.50	1.50	0.8	1.0	1.6	1.8	33.0	1,700	12.10	12.2	1,000
C73264502		2.5	7/0.67	2.01	0.8	1.0	2.0	2.0	37.0	2,410	7.41	9.9	1,000
C73264004		4	7/0.85	2.55	1.0	1.2	2.0	2.2	44.0	3,350	4.61	9.7	500
C73264006		6	7/1.04	3.12	1.0	1.2	2.0	2.3	48.0	4,120	3.08	8.3	500
C73264010		10	7/1.35	4.05	1.0	1.4	2.5	2.5	56.0	6,100	1.83	6.8	500
C73274501	27	1.5	7/0.50	1.50	0.8	1.0	1.6	1.8	33.0	1,730	12.10	12.2	1,000
C73274502		2.5	7/0.67	2.01	0.8	1.0	2.0	2.0	37.0	2,480	7.41	9.9	1,000
C73274004		4	7/0.85	2.55	1.0	1.2	2.0	2.2	45.0	3,440	4.61	9.7	500
C73274006		6	7/1.04	3.12	1.0	1.2	2.5	2.4	50.0	4,650	3.08	8.3	500
C73274010		10	7/1.35	4.05	1.0	1.4	2.5	2.6	58.0	6,293	1.83	6.8	500
C73284501	28	1.5	7/0.50	1.50	0.8	1.0	1.6	1.9	33.0	1,790	12.10	12.2	1,000
C73284502		2.5	7/0.67	2.01	0.8	1.0	1.6	2.0	38.0	2,520	7.41	9.9	1,000
C73284004		4	7/0.85	2.55	1.0	1.2	2.0	2.2	45.0	3,500	4.61	9.7	500
C73284006		6	7/1.04	3.12	1.0	1.2	2.5	2.4	52.0	4,730	3.08	8.3	500
C73284010		10	7/1.35	4.05	1.0	1.4	2.5	2.6	58.0	6,420	1.83	6.8	500

