



CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : CTW-FLC/LSHF 600M (WITH ARMOUR) 0.6/1 (1.2) kV

MULTI CORES COPPER CONDUCTOR CROSS-LINKED INSULATED METALLIC WIRE ARMOUR LSHF SHEATHED



CONSTRUCTION		APPLICATION	CLASSIFICATION
Conductor	Concentric lay round stranded copper	Preferably used for installation into conduit and open tray whereby a prevention of major fire hazard and the cable offer safety during in case of fire	Maximum conductor temperature 90°C Circuit voltage does not exceed 1,000 volts. AC test voltage 3.5 kV
Insulation	Cross-linked low smoke & halogen free compound Colour : Nature		
Filler	LSHF Rod (Nonhygroscopic material)		
Bedding	Low smoke & halogen free flame retardant (LSHF : ST8) Colour : Orange (any colour as requested)		
Armour	Galvanized steel wire armour (SWA)		
Wrapping Tape	Flame retardant tape	REFERENCE	
Outer Sheath	Low smoke & halogen free flame retardant (LSHF : ST8) Colour : Orange (any colour as requested)	IEC 60502-1 : Construction IEC 60332-3 : Flame propagation test category C IEC 61034 : Smoke emission test IEC 60754-1 : Halogen Content Test IEC 60754-2 : Acid gas emission test	

CTW-FLC/LSHF 600M (WITH ARMOUR)		Conductor			Thickness of Insulation	Thickness of Bedding	Armour Wire Diameter	Thickness of Sheath	Overall Diameter (Approx.)	Cable Weight (Approx.)	Maximum Conductor Resistance at 20°C	Minimum Insulation Resistance at 90°C	Standard Packing
		Nominal Cross- Sectional Area	Number of Wire	Diameter (Approx.)									
PRODUCT CODE	No. of Core	sq.mm	No.	mm.	mm.	mm.	mm.	mm.	mm.	kg/km	Ω/km	MΩ·km	m.
C02BV024501	2	1.5	7	1.56	0.7	1.0	0.9	1.8	14.7	400	12.10	1.0209	1,000/R
C02BV024502		2.5	7	2.01	0.7	1.0	0.9	1.8	15.4	450	7.41	0.8425	1,000/R
C02BV024004		4	7	2.52	0.7	1.0	0.9	1.8	16.2	515	4.61	0.7043	1,000/R
C02BV024006		6	7	3.09	0.7	1.0	0.9	1.8	17.4	605	3.08	0.5956	1,000/R
C02BV024010		10	7	3.99	0.7	1.0	1.3	1.8	20.2	905	1.83	0.4794	1,000/R
C02BV028016		16	7	4.69	0.7	1.0	1.3	1.8	21.6	1,080	1.15	0.4164	1,000/R
C02BV028025		25	7	5.90	0.9	1.0	1.6	1.8	25.6	1,610	0.727	0.4244	1,000/R
C02BV028035		35	7	6.95	0.9	1.0	1.6	1.8	27.7	1,930	0.524	0.3671	1,000/R
C02BV028050		50	19	8.33	1.0	1.0	1.6	1.8	30.9	2,385	0.387	0.3430	1,000/R
C02BV028070		70	19	9.73	1.1	1.0	1.6	2.0	34.5	3,045	0.268	0.3249	500/R
C02BV028095		95	19	11.45	1.1	1.2	2.0	2.1	39.4	4,110	0.193	0.2802	500/R
C02BV028120		120	19	12.95	1.2	1.2	2.0	2.2	43.0	4,900	0.153	0.2710	500/R
C02BV028150		150	37	14.27	1.4	1.2	2.0	2.3	46.7	5,805	0.124	0.2856	250/R
C02BV028185		185	37	15.98	1.6	1.4	2.5	2.5	52.7	7,485	0.0991	0.2910	250/R
C02BV028240		240	37	18.47	1.7	1.4	2.5	2.7	58.5	9,220	0.0754	0.2694	250/R
C02BV028300		300	61	20.68	1.8	1.6	2.5	2.8	64.0	11,090	0.0601	0.2558	200/R
C02BV028400		400	61	23.39	2.0	1.6	2.5	3.1	70.9	13,575	0.0470	0.2517	150/R

C = Packing in coil

Fire resistant & Flame retardant cable

R = Packing in reel



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CONSTRUCTION		APPLICATION	CLASSIFICATION
Conductor	Concentric lay round stranded copper	Preferably used for installation into conduit and open tray whereby a prevention of major fire hazard and the cable offer safety during in case of fire	Maximum conductor temperature 90°C
Insulation	Cross-linked low smoke & halogen free compound Colour : Nature		Circuit voltage does not exceed 1,000 volts.
Filler	LSHF Rod (Nonhygroscopic material)		AC test voltage 3.5 kV
Bedding	Low smoke & halogen free flame retardant (LSHF : ST8) Colour : Orange (any colour as requested)		
Armour	Galvanized steel wire armour (SWA)		
Wrapping Tape	Flame retardant tape	REFERENCE	
Outer Sheath	Low smoke & halogen free flame retardant (LSHF : ST8) Colour : Orange (any colour as requested)	IEC 60502-1 : Construction IEC 60332-3 : Flame propagation test category C IEC 61034 : Smoke emission test IEC 60754-1 : Halogen Content Test IEC 60754-2 : Acid gas emission test	

CTW-FLC/LSHF 600M (WITH ARMOUR)		Conductor			Thickness of Insulation	Thickness of Bedding	Armour Wire Diameter	Thickness of Sheath	Overall Diameter (Approx.)	Cable Weight (Approx.)	Maximum Conductor Resistance at 20°C	Minimum Insulation Resistance at 90°C	Standard Packing
		Nominal Cross-Sectional Area	Number of Wire	Diameter (Approx.)									
PRODUCT CODE	No. of Core	sq.mm	No.	mm.	mm.	mm.	mm.	mm.	mm.	kg/km	Ω/km	MΩ·km	m.
C02BV034501	3	1.5	7	1.56	0.7	1.0	0.9	1.8	15.2	440	12.10	1.0209	1,000/R
C02BV034502		2.5	7	2.01	0.7	1.0	0.9	1.8	16.0	500	7.41	0.8425	1,000/R
C02BV034004		4	7	2.52	0.7	1.0	0.9	1.8	16.9	580	4.61	0.7043	1,000/R
C02BV034006		6	7	3.09	0.7	1.0	0.9	1.8	18.1	690	3.08	0.5956	1,000/R
C02BV034010		10	7	3.99	0.7	1.0	1.3	1.8	21.1	1,035	1.83	0.4794	1,000/R
C02BV038016		16	7	4.69	0.7	1.0	1.3	1.8	22.6	1,270	1.15	0.4164	1,000/R
C02BV038025		25	7	5.90	0.9	1.0	1.6	1.8	26.8	1,890	0.727	0.4244	1,000/R
C02BV038035		35	7	6.95	0.9	1.0	1.6	1.8	29.4	2,315	0.524	0.3671	1,000/R
C02BV038050		50	19	8.33	1.0	1.0	1.6	1.9	32.8	2,905	0.387	0.3430	500/R
C02BV038070		70	19	9.73	1.1	1.2	2.0	2.0	37.7	4,040	0.268	0.3249	500/R
C02BV038095		95	19	11.45	1.1	1.2	2.0	2.2	41.8	5,110	0.193	0.2802	500/R
C02BV038120		120	19	12.95	1.2	1.2	2.0	2.3	45.7	6,120	0.153	0.2710	250/R
C02BV038150		150	37	14.27	1.4	1.4	2.5	2.5	53.0	8,025	0.124	0.2856	250/R
C02BV038185		185	37	15.98	1.6	1.4	2.5	2.6	56.0	9,365	0.0991	0.2910	250/R
C02BV038240		240	37	18.47	1.7	1.6	2.5	2.8	62.7	11,715	0.0754	0.2694	200/R
C02BV038300		300	61	20.68	1.8	1.6	2.5	3.0	68.4	14,075	0.0601	0.2558	150/R
C02BV038400		400	61	23.39	2.0	1.6	2.5	3.2	75.5	17,305	0.0470	0.2517	150/R

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		Nominal Cross- Sectional Area	Number of Wire	Diameter (Approx.)									
PRODUCT CODE	No. of Core	sq.mm	No.	mm.	mm.	mm.	mm.	mm.	mm.	kg/km	Ω/km	MΩ·km	m.
C02BV044501	4	1.5	7	1.56	0.7	1.0	0.9	1.8	16.0	490	12.10	1.0209	1,000/R
C02BV044502		2.5	7	2.01	0.7	1.0	0.9	1.8	16.9	565	7.41	0.8425	1,000/R
C02BV044004		4	7	2.52	0.7	1.0	0.9	1.8	18.0	670	4.61	0.7043	1,000/R
C02BV044006		6	7	3.09	0.7	1.0	1.3	1.8	20.0	905	3.08	0.5956	1,000/R
C02BV044010		10	7	3.99	0.7	1.0	1.3	1.8	22.5	1,215	1.83	0.4794	1,000/R
C02BV048016		16	7	4.69	0.7	1.0	1.6	1.8	25.0	1,665	1.15	0.4164	1,000/R
C02BV048025		25	7	5.90	0.9	1.0	1.6	1.8	28.9	2,260	0.727	0.4244	1,000/R
C02BV048035		35	7	6.95	0.9	1.0	1.6	1.9	31.6	2,795	0.524	0.3671	500/R
C02BV048050		50	19	8.33	1.0	1.0	2.0	2.0	36.5	3,770	0.387	0.3430	500/R
C02BV048070		70	19	9.73	1.1	1.2	2.0	2.2	41.2	4,955	0.268	0.3249	500/R
C02BV048095		95	19	11.45	1.1	1.2	2.0	2.3	45.6	6,275	0.193	0.2802	250/R
C02BV048120		120	19	12.95	1.2	1.4	2.5	2.5	51.6	8,125	0.153	0.2710	250/R
C02BV048150		150	37	14.27	1.4	1.4	2.5	2.6	55.9	9,630	0.124	0.2856	250/R
C02BV048185		185	37	15.98	1.6	1.4	2.5	2.8	61.5	11,615	0.0991	0.2910	200/R
C02BV048240		240	37	18.47	1.7	1.6	2.5	3.0	68.9	14,610	0.0754	0.2694	150/R
C02BV048300		300	61	20.68	1.8	1.6	2.5	3.2	75.2	17,630	0.0601	0.2558	150/R
C02BV048400		400	61	23.39	2.0	1.8	3.2	3.5	87.5	23,425	0.0470	0.2517	100/R

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