



CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : CTW-FRC-XL 600M 0.6/1(1.2)kV

MULTI CORES COPPER CONDUCTOR CROSS-LINKED INSULATED 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
Fire Barrier	Mineral ceramic (Mica) fire resistance tape		Circuit voltage does not exceed
Insulation	Cross-linked low smoke & halogen free compound Colour : Black with number marking.		1,000 volts.
Filler	LSHF Rod or Polypropylene (Nonhygroscopic material)		AC test voltage 3.5 kV
Wrapping Tape	Flame retardant tape		
Outer Sheath	Low smoke & Halogen free flame retardant compound (LSHF : ST8) Colour : Orange (any colour as requested)	REFERENCE	
		IEC 60502-1 : Construction	
		BS 6387 : Fire Resistance Test Category CWZ	
		IEC 60332-3 : Flame propagation test category A, B, C	
		IEC 61034 : Smoke emission test	
		IEC 60754-1 : Halogen Content Test	
		IEC 60754-2 : Acid gas emission test	

CTW-FRC-XL 600M		Conductor			Thickness of Insulation	Thickness of Outer 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	kg/km	Ω/km	MΩ-km	m/Reel
C02HP024501	2	1.5	7	1.56	0.7	1.8	13.6	230	12.10	1.0209	1,000
C02HP024502		2.5	7	2.01	0.7	1.8	13.8	245	7.41	0.8425	1,000
C02HP024004		4	7	2.52	0.7	1.8	14.1	300	4.61	0.7043	1,000
C02HP024006		6	7	3.09	0.7	1.8	15.1	355	3.08	0.5956	1,000
C02HP024010		10	7	3.99	0.7	1.8	17.0	465	1.83	0.4794	1,000
C02HP034501	3	1.5	7	1.56	0.7	1.8	14.3	265	12.10	1.0209	1,000
C02HP034502		2.5	7	2.01	0.7	1.8	14.5	295	7.41	0.8425	1,000
C02HP034004		4	7	2.52	0.7	1.8	15.0	365	4.61	0.7043	1,000
C02HP034006		6	7	3.09	0.7	1.8	16.0	445	3.08	0.5956	1,000
C02HP034010		10	7	3.99	0.7	1.8	18.0	590	1.83	0.4794	1,000
C02HP044501	4	1.5	7	1.56	0.7	1.8	15.4	315	12.10	1.0209	1,000
C02HP044502		2.5	7	2.01	0.7	1.8	15.6	350	7.41	0.8425	1,000
C02HP044004		4	7	2.52	0.7	1.8	16.3	440	4.61	0.7043	1,000
C02HP044006		6	7	3.09	0.7	1.8	17.5	540	3.08	0.5956	1,000
C02HP044010		10	7	3.99	0.7	1.8	19.6	730	1.83	0.4794	1,000

* This product code is for the cable which have flame propagation test category C (IEC 60332-3 Cat.C)

Fire resistant & Flame retardant cable



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MULTI CORES COPPER CONDUCTOR CROSS-LINKED INSULATED LSHF SHEATHED

CTW-FRC-XL 600M		Conductor			Thickness of Insulation	Thickness of Outer 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	kg/km	Ω/km	MΩ-km	m/Reel
C02HP054501	5	1.5	7	1.56	0.7	1.8	15.6	335	12.10	1.0209	1,000
C02HP054502		2.5	7	2.01	0.7	1.8	16.1	410	7.41	0.8425	1,000
C02HP054004		4	7	2.52	0.7	1.8	17.5	515	4.61	0.7043	1,000
C02HP054006		6	7	3.09	0.7	1.8	19.1	650	3.08	0.5956	1,000
C02HP054010		10	7	3.99	0.7	1.8	21.6	900	1.83	0.4794	1,000
C02HP064501	6	1.5	7	1.56	0.7	1.8	16.8	390	12.10	1.0209	1,000
C02HP064502		2.5	7	2.01	0.7	1.8	18.2	485	7.41	0.8425	1,000
C02HP064004		4	7	2.52	0.7	1.8	19.7	610	4.61	0.7043	1,000
C02HP064006		6	7	3.09	0.7	1.8	21.4	775	3.08	0.5956	1,000
C02HP064010		10	7	3.99	0.7	1.8	24.1	1,075	1.83	0.4794	1,000
C02HP074501	7	1.5	7	1.56	0.7	1.8	16.8	400	12.10	1.0209	1,000
C02HP074502		2.5	7	2.01	0.7	1.8	18.2	505	7.41	0.8425	1,000
C02HP074004		4	7	2.52	0.7	1.8	19.7	640	4.61	0.7043	1,000
C02HP074006		6	7	3.09	0.7	1.8	21.4	815	3.08	0.5956	1,000
C02HP074010		10	7	3.99	0.7	1.8	24.1	1,145	1.83	0.4794	1,000
C02HP084501	8	1.5	7	1.56	0.7	1.8	18.7	460	12.10	1.0209	1,000
C02HP084502		2.5	7	2.01	0.7	1.8	20.3	580	7.41	0.8425	1,000
C02HP084004		4	7	2.52	0.7	1.8	22.1	735	4.61	0.7043	1,000
C02HP084006		6	7	3.09	0.7	1.8	24.0	935	3.08	0.5956	1,000
C02HP084010		10	7	3.99	0.7	1.8	27.1	1,315	1.83	0.4794	1,000
C02HP094501	9	1.5	7	1.56	0.7	1.8	20.2	515	12.10	1.0209	1,000
C02HP094502		2.5	7	2.01	0.7	1.8	21.9	650	7.41	0.8425	1,000
C02HP094004		4	7	2.01	0.7	1.8	23.9	825	4.61	0.7043	1,000
C02HP094006		6	7	3.09	0.7	1.8	26.0	1,055	3.08	0.5956	1,000
C02HP094010		10	7	3.09	0.7	1.8	29.5	1,480	1.83	0.4794	1,000
C02HP104501	10	1.5	7	1.56	0.7	1.8	21	570	12.10	1.0209	1,000
C02HP104502		2.5	7	1.56	0.7	1.8	23	715	7.41	0.8425	1,000
C02HP104004		4	7	2.52	0.7	1.8	25	915	4.61	0.7043	1,000
C02HP104006		6	7	2.52	0.7	1.8	27	1,170	3.08	0.5956	1,000
C02HP104010		10	7	3.99	0.7	1.8	31	1,650	1.83	0.4794	1,000

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Fire resistant & Flame retardant cable



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MULTI CORES COPPER CONDUCTOR CROSS-LINKED INSULATED LSHF SHEATHED

CTW-FRC-XL 600M		Conductor			Thickness of Insulation	Thickness of Outer 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	kg/km	Ω/km	MΩ-km	m/Reel
C02HP114501	11	1.5	7	1.56	0.7	1.8	21.1	605	12.10	1.0209	1,000
C02HP114502		2.5	7	2.01	0.7	1.8	22.9	765	7.41	0.8425	1,000
C02HP114004		4	7	2.52	0.7	1.8	24.9	975	4.61	0.7043	1,000
C02HP114006		6	7	3.09	0.7	1.8	27.2	1,255	3.08	0.5956	1,000
C02HP114010		10	7	3.99	0.7	1.8	30.8	1,780	1.83	0.4794	1,000
C02HP124501	12	1.5	7	1.56	0.7	1.8	21.7	620	12.10	1.0209	1,000
C02HP124502		2.5	7	2.01	0.7	1.8	23.6	790	7.41	0.8425	1,000
C02HP124004		4	7	2.52	0.7	1.8	25.7	1,015	4.61	0.7043	1,000
C02HP124006		6	7	3.09	0.7	1.8	28.1	1,310	3.08	0.5956	1,000
C02HP124010		10	7	3.99	0.7	1.8	31.9	1,865	1.83	0.4794	1,000
C02HP134501	13	1.5	7	1.56	0.7	1.8	22.8	665	12.10	1.0209	1,000
C02HP134502		2.5	7	2.01	0.7	1.8	24.8	850	7.41	0.8425	1,000
C02HP134004		4	7	2.52	0.7	1.8	27.0	1,095	4.61	0.7043	1,000
C02HP134006		6	7	3.09	0.7	1.8	29.6	1,410	3.08	0.5956	1,000
C02HP134010		10	7	3.99	0.7	1.8	33.5	2,010	1.83	0.4794	1,000
C02HP144501	14	1.5	7	1.56	0.7	1.8	22.8	700	12.10	1.0209	1,000
C02HP144502		2.5	7	2.01	0.7	1.8	24.8	895	7.41	0.8425	1,000
C02HP144004		4	7	2.52	0.7	1.8	27.0	1,155	4.61	0.7043	1,000
C02HP144006		6	7	3.09	0.7	1.8	29.6	1,495	3.08	0.5956	1,000
C02HP144010		10	7	3.99	0.7	1.8	33.5	2,140	1.83	0.4794	1,000
C02HP154501	15	1.5	7	1.56	0.7	1.8	24.0	745	12.10	1.0209	1,000
C02HP154502		2.5	7	2.01	0.7	1.8	26.1	955	7.41	0.8425	1,000
C02HP154004		4	7	2.52	0.7	1.8	28.5	1,235	4.61	0.7043	1,000
C02HP154006		6	7	3.09	0.7	1.8	31.2	1,600	3.08	0.5956	1,000
C02HP154010		10	7	3.99	0.7	1.9	35.7	2,305	1.83	0.4794	1,000
C02HP164501	16	1.5	7	1.56	0.7	1.8	24	790	12.10	1.0209	1,000
C02HP164502		2.5	7	2.01	0.7	1.8	26	1,015	7.41	0.8425	1,000
C02HP164004		4	7	2.52	0.7	1.8	29	1,315	4.61	0.7043	1,000
C02HP164006		6	7	3.09	0.7	1.8	31	1,705	3.08	0.5956	1,000
C02HP164010		10	7	3.99	0.7	1.9	36	2,460	1.83	0.4794	1,000

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CTW-FRC-XL 600M		Conductor			Thickness of Insulation	Thickness of Outer 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	kg/km	Ω/km	MΩ-km	m/Reel
C02HP174501	17	1.5	7	1.56	0.7	1.8	25.3	840	12.10	1.0209	1,000
C02HP174502		2.5	7	2.01	0.7	1.8	27.5	1,075	7.41	0.8425	1,000
C02HP174004		4	7	2.52	0.7	1.8	30.1	1,395	4.61	0.7043	1,000
C02HP174006		6	7	3.09	0.7	1.8	32.9	1,805	3.08	0.5956	1,000
C02HP174010		10	7	3.99	0.7	1.9	37.6	2,610	1.83	0.4794	1,000
C02HP184501	18	1.5	7	1.56	0.7	1.8	25.3	870	12.10	1.0209	1,000
C02HP184502		2.5	7	2.01	0.7	1.8	27.5	1,120	7.41	0.8425	1,000
C02HP184004		4	7	2.52	0.7	1.8	30.1	1,455	4.61	0.7043	1,000
C02HP184006		6	7	3.09	0.7	1.8	32.9	1,890	3.08	0.5956	1,000
C02HP184010		10	7	3.99	0.7	1.9	37.6	2,735	1.83	0.4794	500
C02HP194501	19	1.5	7	1.56	0.7	1.8	25.3	895	12.10	1.0209	1,000
C02HP194502		2.5	7	2.01	0.7	1.8	27.5	1,155	7.41	0.8425	1,000
C02HP194004		4	7	2.52	0.7	1.8	30.1	1,500	4.61	0.7043	1,000
C02HP194006		6	7	3.09	0.7	1.8	32.9	1,955	3.08	0.5956	1,000
C02HP194010		10	7	3.99	0.7	1.9	37.6	2,835	1.83	0.4794	500
C02HP204501	20	1.5	7	1.56	0.7	1.8	26.7	980	12.10	1.0209	1,000
C02HP204502		2.5	7	2.01	0.7	1.8	29.1	1,265	7.41	0.8425	1,000
C02HP204004		4	7	2.52	0.7	1.8	31.8	1,640	4.61	0.7043	1,000
C02HP204006		6	7	3.09	0.7	1.8	34.9	2,135	3.08	0.5956	1,000
C02HP204010		10	7	3.99	0.7	2.0	40.0	3,100	1.83	0.4794	500
C02HP214501	21	1.5	7	1.56	0.7	1.8	26.7	975	12.10	1.0209	1,000
C02HP214502		2.5	7	2.01	0.7	1.8	29.1	1,260	7.41	0.8425	1,000
C02HP214004		4	7	2.52	0.7	1.8	31.8	1,645	4.61	0.7043	1,000
C02HP214006		6	7	3.09	0.7	1.8	34.9	2,145	3.08	0.5956	1,000
C02HP214010		10	7	3.99	0.7	2.0	40.0	3,135	1.83	0.4794	500
C02HP224501	22	1.5	7	1.56	0.7	1.8	28	1,025	12.10	1.0209	1,000
C02HP224502		2.5	7	2.01	0.7	1.8	31	1,325	7.41	0.8425	1,000
C02HP224004		4	7	2.52	0.7	1.8	34	1,725	4.61	0.7043	1,000
C02HP224006		6	7	3.09	0.7	1.9	37	2,270	3.08	0.5956	1,000
C02HP224010		10	7	3.99	0.7	2.0	42	3,290	1.83	0.4794	500

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Fire resistant & Flame retardant cable



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CTW-FRC-XL 600M		Conductor			Thickness of Insulation	Thickness of Outer 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	kg/km	Ω/km	MΩ-km	m/Reel
C02HP234501	23	1.5	7	1.56	0.7	1.8	28.1	1,060	12.10	1.0209	1,000
C02HP234502		2.5	7	2.01	0.7	1.8	30.7	1,370	7.41	0.8425	1,000
C02HP234004		4	7	2.52	0.7	1.8	33.6	1,790	4.61	0.7043	1,000
C02HP234006		6	7	3.09	0.7	1.9	37.0	2,355	3.08	0.5956	1,000
C02HP234010		10	7	3.99	0.7	2.0	42.3	3,415	1.83	0.4794	500
C02HP244501	24	1.5	7	1.56	0.7	1.8	29.5	1,105	12.10	1.0209	1,000
C02HP244502		2.5	7	2.01	0.7	1.8	32.2	1,430	7.41	0.8425	1,000
C02HP244004		4	7	2.52	0.7	1.8	35.3	1,870	4.61	0.7043	1,000
C02HP244006		6	7	3.09	0.7	1.9	38.9	2,460	3.08	0.5956	1,000
C02HP244010		10	7	3.99	0.7	2.1	44.7	3,590	1.83	0.4794	500
C02HP254501	25	1.5	7	1.56	0.7	1.8	29.5	1,140	12.10	1.0209	1,000
C02HP254502		2.5	7	2.01	0.7	1.8	32.2	1,480	7.41	0.8425	1,000
C02HP254004		4	7	2.52	0.7	1.8	35.3	1,930	4.61	0.7043	1,000
C02HP254006		6	7	3.09	0.7	1.9	38.9	2,545	3.08	0.5956	1,000
C02HP254010		10	7	3.99	0.7	2.1	44.7	3,715	1.83	0.4794	500
C02HP264501	26	1.5	7	1.56	0.7	1.8	29.5	1,175	12.10	1.0209	1,000
C02HP264502		2.5	7	2.01	0.7	1.8	32.2	1,525	7.41	0.8425	1,000
C02HP264004		4	7	2.52	0.7	1.8	35.3	1,995	4.61	0.7043	1,000
C02HP264006		6	7	3.09	0.7	1.9	38.9	2,630	3.08	0.5956	1,000
C02HP264010		10	7	3.99	0.7	2.1	44.7	3,845	1.83	0.4794	500
C02HP274501	27	1.5	7	1.56	0.7	1.8	30.2	1,215	12.10	1.0209	1,000
C02HP274502		2.5	7	2.01	0.7	1.8	32.9	1,575	7.41	0.8425	1,000
C02HP274004		4	7	2.52	0.7	1.9	36.3	2,080	4.61	0.7043	1,000
C02HP274006		6	7	3.09	0.7	2.0	40.0	2,740	3.08	0.5956	500
C02HP274010		10	7	3.99	0.7	2.1	45.7	3,980	1.83	0.4794	500
C02HP284501	28	1.5	7	1.56	0.7	1.8	31	1,260	12.10	1.0209	1,000
C02HP284502		2.5	7	2.01	0.7	1.8	34	1,635	7.41	0.8425	1,000
C02HP284004		4	7	2.52	0.7	1.9	38	2,160	4.61	0.7043	1,000
C02HP284006		6	7	3.09	0.7	2.0	42	2,845	3.08	0.5956	500
C02HP284010		10	7	3.99	0.7	2.2	48	4,150	1.83	0.4794	500

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Fire resistant & Flame retardant cable

* This product code is for the cable which have flame propagation test category C (IEC 60332-3 Cat.C) Fire resistant & Flame retardant cable