



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 Circuit voltage does not exceed 1,000 volts. AC test voltage 3.5 kV
Fire Barrier	Mineral ceramic (Mica) fire resistance tape		
Insulation	Cross-linked low smoke & halogen free compound Colour : Blue, Brown		
Filler	LSHF Rod or Polypropylene (Nonhygroscopic material)		
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 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	kg/km	Ω/km	MΩ-km	m	
C02EN024501	2	1.5	7	1.56	0.7	1.8	13.6	240	12.1000	1.0209	1,000/R
C02EN024502		2.5	7	2.01	0.7	1.8	13.8	260	7.4100	0.8425	1,000/R
C02EN024004		4	7	2.52	0.7	1.8	14.1	295	4.6100	0.7043	1,000/R
C02EN024006		6	7	3.09	0.7	1.8	15.1	365	3.0800	0.5956	1,000/R
C02EN024010		10	7	3.99	0.7	1.8	17.0	500	1.8300	0.4794	1,000/R
C02EN028016		16	7	4.69	0.7	1.8	18	650	1.1500	0.4164	1,000/R
C02EN028025		25	7	5.90	0.9	1.8	21.6	915	0.7270	0.4244	1,000/R
C02EN028035		35	7	6.95	0.9	1.8	23.8	1,165	0.5240	0.3671	1,000/R
C02EN028050		50	19	8.33	1.0	1.8	26.9	1,515	0.3870	0.3430	1,000/R
C02EN028070		70	19	9.73	1.1	1.8	30.2	2,040	0.2680	0.3249	1,000/R
C02EN028095		95	19	11.45	1.1	1.9	33.8	2,685	0.1930	0.2802	1,000/R
C02EN028120		120	19	12.95	1.2	2.0	38	3,335	0.1530	0.2710	500/R
C02EN028150		150	37	14.27	1.4	2.2	41.3	4,090	0.1240	0.2856	500/R
C02EN028185		185	37	15.98	1.6	2.3	45.8	5,065	0.0991	0.2910	500/R
C02EN028240		240	37	18.47	1.7	2.5	51.6	6,525	0.0754	0.2694	250/R
C02EN028300		300	61	20.68	1.8	2.6	56.7	8,035	0.0601	0.2558	250/R
C02EN028400		400	61	23.39	2.0	2.9	63.6	10,195	0.0470	0.2517	250/R

C = Packing in coil

Fire resistant & Flame retardant cable

R = Packing in reel



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Fire Barrier	Mineral ceramic (Mica) fire resistance tape		
Insulation	Cross-linked low smoke & halogen free compound Colour : Brown, Black, Grey		
Filler	LSHF Rod or Polypropylene (Nonhygroscopic material)		
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 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	kg/km	Ω/km	MΩ-km	m	
C02EN034501	3	1.5	7	1.56	0.8	1.2	14.6	265	12.1000	1.0209	1,000/R
C02EN034502		2.5	7	2.01	0.8	1.2	14.8	285	7.4100	0.8425	1,000/R
C02EN034004		4	7	2.52	0.8	1.2	15.3	345	4.6100	0.7043	1,000/R
C02EN034006		6	7	3.09	0.8	1.2	16.3	425	3.0800	0.5956	1,000/R
C02EN034010		10	7	3.99	0.8	1.2	18.5	615	1.8300	0.4794	1,000/R
C02EN038016		16	7	4.69	0.8	1.2	20.0	815	1.1500	0.4164	1,000/R
C02EN038025		25	7	5.90	1.0	1.2	23.5	1,165	0.7270	0.4244	1,000/R
C02EN038035		35	7	6.95	1.0	1.2	27.7	1,625	0.5240	0.3671	1,000/R
C02EN038050		50	19	8.33	1.1	1.2	29.8	1,970	0.3870	0.3430	1,000/R
C02EN038070		70	19	9.73	1.2	1.3	33.5	2,695	0.2680	0.3249	1,000/R
C02EN038095		95	19	11.45	1.2	1.4	37.4	3,580	0.1930	0.2802	500/R
C02EN038120		120	19	12.95	1.3	1.5	41.3	4,445	0.1530	0.2710	500/R
C02EN038150		150	37	14.27	1.5	1.6	47.6	5,690	0.1240	0.2856	250/R
C02EN038185		185	37	15.98	1.7	1.7	50.3	6,770	0.0991	0.2910	250/R
C02EN038240		240	37	18.47	1.8	1.9	56.5	8,750	0.0754	0.2694	250/R
C02EN038300		300	61	20.68	1.9	2.0	62.0	10,800	0.0601	0.2558	250/R
C02EN038400		400	61	23.39	2.1	2.2	69.5	13,735	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	kg/km	Ω/km	MΩ-km	m	
C02EN044501	4	1.5	7	1.56	0.7	1.8	15.4	330	12.1000	1.0209	1,000/R
C02EN044502		2.5	7	2.01	0.7	1.8	15.6	370	7.4100	0.8425	1,000/R
C02EN044004		4	7	2.52	0.7	1.8	16.3	445	4.6100	0.7043	1,000/R
C02EN044006		6	7	3.09	0.7	1.8	17.5	560	3.0800	0.5956	1,000/R
C02EN044010		10	7	3.99	0.7	1.8	19.6	770	1.8300	0.4794	1,000/R
C02EN048016		16	7	4.69	0.7	1.8	21.4	1,025	1.1500	0.4164	1,000/R
C02EN048025		25	7	5.90	0.9	1.8	25.3	1,480	0.7270	0.4244	1,000/R
C02EN048035		35	7	6.95	0.9	1.8	27.9	1,920	0.5240	0.3671	1,000/R
C02EN048050		50	19	8.33	1.0	1.8	31.7	2,510	0.3870	0.3430	1,000/R
C02EN048070		70	19	9.73	1.1	2.0	36.0	3,470	0.2680	0.3249	500/R
C02EN048095		95	19	11.45	1.1	2.1	40.4	4,620	0.1930	0.2802	500/R
C02EN048120		120	19	12.95	1.2	2.3	45.0	5,770	0.1530	0.2710	250/R
C02EN048150		150	37	14.27	1.4	2.4	49.4	7,065	0.1240	0.2856	250/R
C02EN048185		185	37	15.98	1.6	2.6	54.9	8,780	0.0991	0.2910	250/R
C02EN048240		240	37	18.47	1.7	2.8	61.9	11,355	0.0754	0.2694	200/R
C02EN048300		300	61	20.68	1.8	3.0	68.4	14,090	0.0601	0.2558	150/R
C02EN048400		400	61	23.39	2.0	3.3	81.4	18,820	0.0470	0.2517	100/R

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