



CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : CTW-FRC-XL 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
Fire Barrier	Mineral ceramic (Mica) fire resistance tape		
Insulation	Cross-linked low smoke & halogen free compound Colour : Nature	REFERENCE	
Filler	LSHF Rod (Nonhygroscopic material)		
Bedding	Low smoke & halogen free flame retardant (LSHF : ST8) Colour : Orange (any colour as requested)	IEC 60502-1 : Construction	
Armour	Galvanized steel wire armour (SWA)	BS 6387 : Fire Resistance Test Category CWZ	
Wrapping Tape	Flame retardant tape	IEC 60332-3 : Flame propagation test category C	
Outer Sheath	Low smoke & halogen free flame retardant (LSHF : ST8) Colour : Orange (any colour as requested)	IEC 61034 : Smoke emission test	
		IEC 60754-1 : Halogen Content Test	
		IEC 60754-2 : Acid gas emission test	

PRODUCT CODE	No. of Core	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.)									
		sq.mm	No.	mm.	mm.	mm.	mm.	mm.	mm.	kg/km	Ω/km	MΩ-km	m.
C02ER024501	2	1.5	7	1.56	0.7	1.0	0.9	1.8	18.5	570	12.10	1.0209	1,000/R
C02ER024502		2.5	7	2.01	0.7	1.0	0.9	1.8	19.2	620	7.41	0.8425	1,000/R
C02ER024004		4	7	2.52	0.7	1.0	0.9	1.8	19.6	665	4.61	0.7043	1,000/R
C02ER024006		6	7	3.09	0.7	1.0	0.9	1.8	20.6	745	3.08	0.5956	1,000/R
C02ER024010		10	7	3.99	0.7	1.0	1.3	1.8	21.9	1,035	1.83	0.4794	1,000/R
C02ER028016		16	7	4.69	0.7	1.0	1.3	1.8	23.3	1,220	1.15	0.4164	1,000/R
C02ER028025		25	7	5.90	0.9	1.0	1.6	1.8	27.2	1,740	0.727	0.4244	1,000/R
C02ER028035		35	7	6.95	0.9	1.0	1.6	1.8	29.4	2,070	0.524	0.3671	1,000/R
C02ER028050		50	19	8.33	1.0	1.0	1.6	1.8	32.5	2,535	0.387	0.3430	1,000/R
C02ER028070		70	19	9.73	1.1	1.0	1.6	2.0	36.2	3,210	0.268	0.3249	500/R
C02ER028095		95	19	11.45	1.1	1.2	2.0	2.1	41.0	4,315	0.193	0.2802	500/R
C02ER028120		120	19	12.95	1.2	1.2	2.0	2.2	44.7	5,120	0.153	0.2710	500/R
C02ER028150		150	37	14.27	1.4	1.2	2.0	2.3	48.3	6,010	0.124	0.2856	250/R
C02ER028185		185	37	15.98	1.6	1.4	2.5	2.5	54.4	7,745	0.0991	0.2910	250/R
C02ER028240		240	37	18.47	1.7	1.4	2.5	2.7	60.2	9,500	0.0754	0.2694	250/R
C02ER028300		300	61	20.68	1.8	1.6	2.5	2.8	65.7	11,390	0.0601	0.2558	200/R
C02ER028400		400	61	23.39	2.0	1.6	2.5	3.1	72.6	13,895	0.0470	0.2517	150/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 : 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		
Outer Sheath	Low smoke & halogen free flame retardant (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	

PRODUCT CODE	No. of Core	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.)									
		sq.mm	No.	mm.	mm.	mm.	mm.	mm.	mm.	kg/km	Ω/km	MΩ-km	m.
C02ER034501	3	1.5	7	1.56	0.7	1.0	0.9	1.8	19.0	625	12.10	1.0209	1000/R
C02ER034502		2.5	7	2.01	0.7	1.0	0.9	1.8	19.7	680	7.41	0.8425	1000/R
C02ER034004		4	7	2.52	0.7	1.0	0.9	1.8	20.3	745	4.61	0.7043	1000/R
C02ER034006		6	7	3.09	0.7	1.0	0.9	1.8	21.3	850	3.08	0.5956	1000/R
C02ER034010		10	7	3.99	0.7	1.0	1.3	1.8	22.9	1,170	1.83	0.4794	1000/R
C02ER038016		16	7	4.69	0.7	1.0	1.3	1.8	24.4	1,420	1.15	0.4164	1000/R
C02ER038025		25	7	5.90	0.9	1.0	1.6	1.8	28.6	2,035	0.727	0.4244	1000/R
C02ER038035		35	7	6.95	0.9	1.0	1.6	1.8	33.5	2,675	0.524	0.3671	1000/R
C02ER038050		50	19	8.33	1.0	1.0	1.6	1.9	34.6	3,070	0.387	0.3430	500/R
C02ER038070		70	19	9.73	1.1	1.2	2.0	2.0	39.5	4,250	0.268	0.3249	500/R
C02ER038095		95	19	11.45	1.1	1.2	2.0	2.2	43.6	5,310	0.193	0.2802	500/R
C02ER038120		120	19	12.95	1.2	1.2	2.0	2.3	47.5	6,365	0.153	0.2710	250/R
C02ER038150		150	37	14.27	1.4	1.4	2.5	2.5	56.4	8,495	0.124	0.2856	250/R
C02ER038185		185	37	15.98	1.6	1.4	2.5	2.6	57.9	9,650	0.0991	0.2910	250/R
C02ER038240		240	37	18.47	1.7	1.6	2.5	2.8	64.5	12,020	0.0754	0.2694	200/R
C02ER038300		300	61	20.68	1.8	1.6	2.5	3.0	70.2	14,440	0.0601	0.2558	150/R
C02ER038400		400	61	23.39	2.0	1.6	2.5	3.2	77.3	17,700	0.0470	0.2517	150/R

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Bedding	Low smoke & halogen free flame retardant (LSHF : ST8) Colour : Orange (any colour as requested)		
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Wrapping Tape	Flame retardant tape		
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		Nominal Cross-Sectional Area	Number of Wire	Diameter (Approx.)									
		sq.mm	No.	mm.	mm.	mm.	mm.	mm.	mm.	kg/km	Ω/km	MΩ-km	m.
C02ER044501	4	1.5	7	1.56	0.7	1.0	0.9	1.8	20.0	690	12.10	1.0209	1,000/R
C02ER044502		2.5	7	2.01	0.7	1.0	0.9	1.8	21.0	775	7.41	0.8425	1,000/R
C02ER044004		4	7	2.52	0.7	1.0	0.9	1.8	21.7	855	4.61	0.7043	1,000/R
C02ER044006		6	7	3.09	0.7	1.0	1.3	1.8	23.6	1,110	3.08	0.5956	1,000/R
C02ER044010		10	7	3.99	0.7	1.0	1.3	1.8	24.5	1,370	1.83	0.4794	1,000/R
C02ER048016		16	7	4.69	0.7	1.0	1.6	1.8	27.0	1,850	1.15	0.4164	1,000/R
C02ER048025		25	7	5.90	0.9	1.0	1.6	1.8	30.9	2,440	0.727	0.4244	1,000/R
C02ER048035		35	7	6.95	0.9	1.0	1.6	1.9	34.0	2,990	0.524	0.3671	500/R
C02ER048050		50	19	8.33	1.0	1.0	2.0	2.0	38.5	3,990	0.387	0.3430	500/R
C02ER048070		70	19	9.73	1.1	1.2	2.0	2.2	43.2	5,200	0.268	0.3249	500/R
C02ER048095		95	19	11.45	1.1	1.2	2.0	2.3	47.6	6,540	0.193	0.2802	250/R
C02ER048120		120	19	12.95	1.2	1.4	2.5	2.5	53.6	8,410	0.153	0.2710	250/R
C02ER048150		150	37	14.27	1.4	1.4	2.5	2.6	58.0	9,940	0.124	0.2856	250/R
C02ER048185		185	37	15.98	1.6	1.4	2.5	2.8	63.5	11,955	0.0991	0.2910	200/R
C02ER048240		240	37	18.47	1.7	1.6	2.5	3.0	70.9	14,975	0.0754	0.2694	150/R
C02ER048300		300	61	20.68	1.8	1.6	2.5	3.2	77.2	18,060	0.0601	0.2558	100/R
C02ER048400		400	61	23.39	2.0	1.8	3.2	3.5	93.0	24,680	0.0470	0.2517	100/R

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