

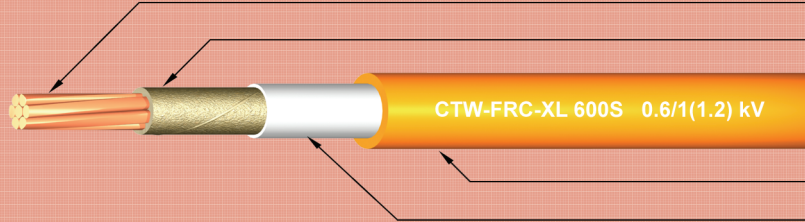


CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : **CTW-FRC-XL 600S**

SINGLE CORE LOW SMOKE & HALOGEN FREE FIRE RESISTANT CABLES (WITHOUT ARMOUR) 0.6/1(1.2) kV

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CONDUCTOR

FIRE BARRIER (MICA TAPE)

OUTER SHEATH

INSULATION

CONSTRUCTION

Conductor	Compact or Round concentric lay stranded copper -CR : Concentric lay stranded of conductor : $\leq 10 \text{ mm}^2$ -CP : Compact round concentric lay stranded of conductor : $> 10 \text{ mm}^2$
Fire Barrier	Mineral ceramic (Mica) fire resistant tape.
Insulation	Cross-linked polyethylene (XLPE) : Natural (Translucent) Colour.
Outer Sheath	Low smoke & halogen free compound (LSHF : ST8) : Orange Colour. Other colours to special order.

STANDARDS ACHIEVED

Construction	IEC 60228, IEC 60502-1
Circuit integrity	BS 6387 Categories C, W, Z IEC 60331 at 750°C 3 hours
Flame propagation	IEC 60332-1 IEC 60332-3 Categories A, B, C
Acid gas emission	IEC 60754-2
Smoke emission	IEC 61034

APPLICATION

Preferably used for installation into conduit and surface wiring whereby a prevention of fire major hazard and continue supply electricity in case of fire.

CLASSIFICATION

Maximum conductor temperature 90 °C,
Circuit voltage does not exceed 1,000 volts.
AC Test Voltage : 3.5 kV

CTW-FRC-XL 600S	Conductor			Thickness of insulation mm	Thickness of outer sheath mm	Overall diameter (Approx.) mm	Cable weight (Approx.) kg/km	Maximum conductor resistance at 20°C Ω/km	Minimum insulation resistance at 20°C M Ω - km	Allowable ampacities in free air at 40° (ambient) A	Standard packing m/R	
	PRODUCT CODE	SIZE core x mm ²	Nominal cross-sectional area mm ²									Number and diameter of wire No./mm
C56014501	1 x 1.5	1.5	7/0.50 : CR	1.50	0.7	1.4	7.0	60	12.1	2,400	27	500
C56014502	1 x 2.5	2.5	7/0.67 : CR	2.01	0.7	1.4	7.5	75	7.41	2,100	36	500
C56014004	1 x 4	4	7/0.85 : CR	2.55	0.7	1.4	8.0	95	4.61	1,800	48	500
C56014006	1 x 6	6	7/1.04 : CR	3.12	0.7	1.4	8.5	120	3.08	1,500	61	500
C56014010	1 x 10	10	7/1.35 : CR	4.05	0.7	1.4	9.5	160	1.83	1,200	82	500
C56018016	1 x 16	16	7 : CP	4.69	0.7	1.4	10.0	220	1.15	1,100	110	500
C56018025	1 x 25	25	7 : CP	5.90	0.9	1.4	12.0	320	0.727	1,100	145	500
C56018035	1 x 35	35	7 : CP	6.95	0.9	1.4	13.0	430	0.524	1,000	180	500
C56018050	1 x 50	50	19 : CP	8.33	1.0	1.4	14.5	580	0.387	900	220	500
C56018070	1 x 70	70	19 : CP	9.73	1.1	1.4	16.5	790	0.268	900	280	500
C56018095	1 x 95	95	19 : CP	11.45	1.1	1.5	18.5	1,040	0.193	800	345	500
C56018120	1 x 120	120	19 : CP	12.95	1.2	1.5	20.0	1,300	0.153	800	400	500
C56018150	1 x 150	150	37 : CP	14.27	1.4	1.6	22.0	1,610	0.124	800	460	500
C56018185	1 x 185	185	37 : CP	15.98	1.6	1.6	24.5	1,970	0.0991	800	530	500
C56018240	1 x 240	240	37 : CP	18.47	1.7	1.7	27.5	2,520	0.0754	700	630	500
C56018300	1 x 300	300	61 : CP	20.68	1.8	1.8	30.5	3,120	0.0601	700	725	500

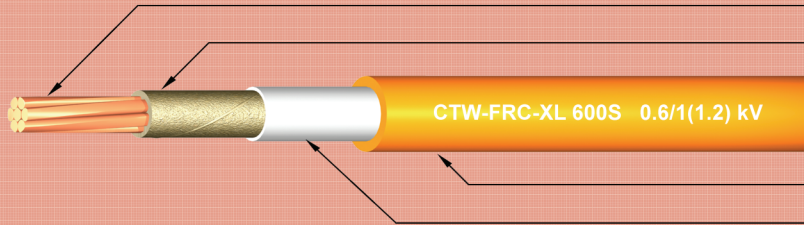


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	PRODUCT CODE	SIZE core x mm ²	Nominal cross-sectional area mm ²									Number and diameter of wire No./mm
C56018400	1 x 400	400	61 : CP	23.39	2.0	1.9	33.0	4,110	0.047	700	840	500
C56018500	1 x 500	500	61 : CP	26.67	2.2	2.0	37.5	5,120	0.0366	700	975	500
C56018630	1 x 630	630	91 : CP	30.20	2.4	2.2	42.0	6,420	0.0283	600	1,125	300
C56018800	1 x 800	800	91 : CP	34.00	2.6	2.3	46.5	8,090	0.0221	600	1,320	300
C560181000	1 x 1,000	1,000	127 : CP	40.00	2.8	2.4	53.0	10,090	0.0176	600	1,510	300

C = Packing in coil
R = Packing in reel