

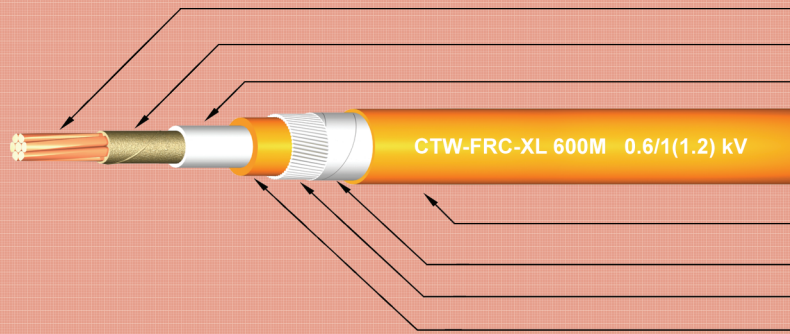


CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : CTW-FRC-XAL 600S

SINGLE CORE LOW SMOKE & HALOGEN FREE FIRE RESISTANT CABLES (WITH ARMOUR) 0.6/1(1.2) kV

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CONDUCTOR

FIRE BARRIER (MICA TAPE)

INSULATION

OUTER SHEATH

SEPARATE TAPE

ARMOUR

BEDDING

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.
Bedding	Low smoke & halogen free compound (LSHF : ST8) : Orange Colour.
Armour	Aluminum wire for single core.
Wrapping Tape	Polyester tape and/or Spunbond tape.
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 open tray whereby a prevention of major fire 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-XAL 600S	Conductor			Thickness of insulation mm	Thickness of bedding mm	Armour wire diameter 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 MΩ - 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
-	1 x 1.5	1.5	7/0.50 : CR	1.50	-	-	-	-	-	-	-	-	-	
-	1 x 2.5	2.5	7/0.67 : CR	2.01	-	-	-	-	-	-	-	-	-	
-	1 x 4	4	7/0.85 : CR	2.55	-	-	-	-	-	-	-	-	-	
-	1 x 6	6	7/1.04 : CR	3.12	-	-	-	-	-	-	-	-	-	
-	1 x 10	10	7/1.35 : CR	4.05	-	-	-	-	-	-	-	-	-	
-	1 x 16	16	7 : CP	4.69	-	-	-	-	-	-	-	-	-	
-	1 x 25	25	7 : CP	5.90	-	-	-	-	-	-	-	-	-	
-	1 x 35	35	7 : CP	6.95	-	-	-	-	-	-	-	-	-	
C57018050	1 x 50	50	19 : CP	8.33	1.0	1.0	1.25	1.8	20.0	810	0.387	900	210	500
C57018070	1 x 70	70	19 : CP	9.73	1.1	1.0	1.25	1.8	22.0	1,040	0.268	900	260	500
C57018095	1 x 95	95	19 : CP	11.45	1.1	1.0	1.6	1.8	24.5	1,360	0.193	800	325	500
C57018120	1 x 120	120	19 : CP	12.95	1.2	1.0	1.6	1.8	26.5	1,640	0.153	800	375	500
C57018150	1 x 150	150	37 : CP	14.27	1.4	1.0	1.6	1.8	28.5	1,980	0.124	800	425	500
C57018185	1 x 185	185	37 : CP	15.98	1.6	1.0	1.6	1.9	30.5	2,380	0.0991	800	485	500
C57018240	1 x 240	240	37 : CP	18.47	1.7	1.0	1.6	2.0	33.5	2,980	0.0754	700	565	500
C57018300	1 x 300	300	61 : CP	20.68	1.8	1.0	1.6	2.1	36.5	3,630	0.0601	700	635	500

C = Packing in coil
R = Packing in reel

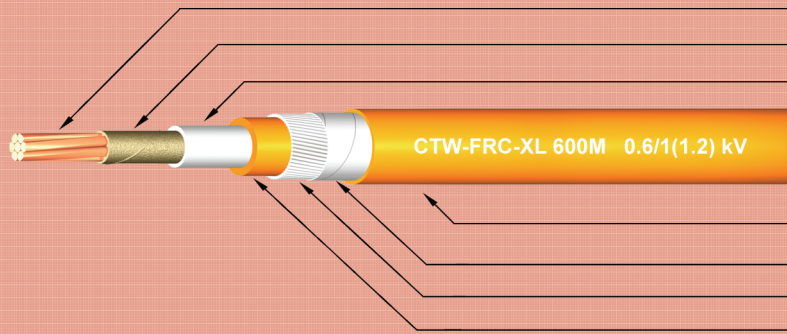


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- INSULATION
- OUTER SHEATH
- SEPARATE TAPE
- ARMOUR
- BEDDING

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	PRODUCT CODE	SIZE core x mm ²	Nominal cross-sectional area mm ²											Number and diameter of wire No./mm
C57018400	1 x 400	400	61 : CP	23.39	2.0	1.2	2.0	2.2	41.0	4,804	0.047	700	725	500
C57018500	1 x 500	500	61 : CP	26.67	2.2	1.2	2.0	2.3	45.0	5,880	0.0366	700	815	500
C57018630	1 x 630	630	91 : CP	30.20	2.4	1.2	2.0	2.4	49.0	7,250	0.0283	600	925	250
C57018800	1 x 800	800	91 : CP	34.00	2.6	1.4	2.5	2.6	56.0	9,240	0.0221	600	1,125	250
C570181000	1 x 1,000	1,000	127 : CP	40.00	2.8	1.4	2.5	2.8	62.0	11,420	0.0176	600	1,215	250