

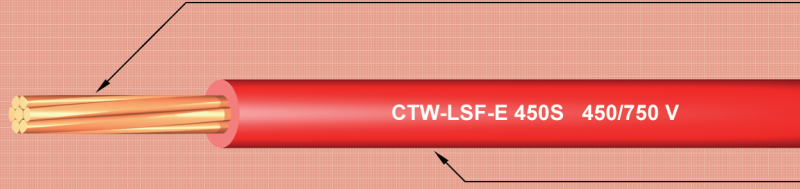
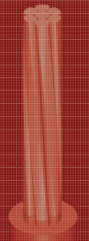


CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : CTW-LSF-E 450S

SINGLE CORE LOW SMOKE & HALOGEN FREE FLAME RETARDANT CABLES (NON-SHEATHED) 450/750 V

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CONDUCTOR

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 : $> 10 \text{ mm}^2$
Insulation	Low smoke & halogen free Cross-linked polyethylene (LSHF-XLPE : EI5). Red Colour (Other colours to special order).

STANDARDS ACHIEVED

Construction	BS 7211
Flame propagation	BS 4066-3 Categories C IEEE 383
Acid gas emission	BS 6425-2 (BS EN 50267-2-2)
Smoke emission	BS 7622-2 (BS EN 50268-2)

APPLICATION

Preferably used for installation into trunking and conduit whereby a prevention of major fire hazard and the cable offer safety during in case of fire.

CLASSIFICATION

Maximum conductor temperature 90 °C,
Circuit voltage does not exceed 750 volts.
AC Test Voltage : 2.5 kV

CTW-LSF-E 450S PRODUCT CODE	SIZE core x mm ²	Conductor			Thickness of insulation mm	Overall diameter (Approx.) mm	Limit of mean overall diameter (lower/upper) 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
		Nominal cross-sectional area mm ²	Number and diameter of wire No./mm	Diameter (Approx.) mm								
C90014501	1 x 1.5	1.5	7/0.50 : CR	1.50	0.7	3.30	2.7 / 3.4	22	12.1	0.0100	22	100/C
C90014502	1 x 2.5	2.5	7/0.67 : CR	2.01	0.8	4.00	3.3 / 4.1	35	7.41	0.0090	31	100/C
C90014004	1 x 4	4	7/0.85 : CR	2.55	0.8	4.60	3.8 / 4.7	50	4.61	0.0077	42	100/C
C90014006	1 x 6	6	7/1.04 : CR	3.12	0.8	5.20	4.3 / 5.4	70	3.08	0.0065	54	100/C
C90014010	1 x 10	10	7/1.35 : CR	4.05	1.0	6.60	5.6 / 7.0	120	1.83	0.0065	76	300/R
C90018016	1 x 16	16	7 : CP	4.69	1.0	7.10	6.4 / 8.0	170	1.15	0.0050	100	300/R
C90018025	1 x 25	25	7 : CP	5.90	1.2	8.80	8.1 / 10.1	260	0.727	0.0050	140	300/R
C90018035	1 x 35	35	7 : CP	6.95	1.2	9.90	9.0 / 11.3	360	0.524	0.0043	175	300/R
C90018050	1 x 50	50	19 : CP	8.33	1.4	11.70	10.6 / 13.2	520	0.387	0.0043	215	300/R
C90018070	1 x 70	70	19 : CP	9.73	1.4	13.20	12.1 / 15.1	700	0.268	0.0035	275	300/R
C90018095	1 x 95	95	19 : CP	11.45	1.6	16.00	14.1 / 17.6	950	0.193	0.0035	345	300/R
C90018120	1 x 120	120	19 : CP	12.95	1.6	17.50	15.6 / 19.4	1,200	0.153	0.0032	400	300/R
C90018150	1 x 150	150	37 : CP	14.27	1.8	19.20	17.3 / 21.6	1,500	0.124	0.0032	460	300/R
C90018185	1 x 185	185	37 : CP	15.98	2.0	22.00	19.3 / 24.1	1,850	0.0991	0.0032	535	300/R
C90018240	1 x 240	240	37 : CP	18.47	2.2	24.40	22.0 / 27.5	2,350	0.0754	0.0032	640	300/R
C90018300	1 x 300	300	61 : CP	20.68	2.4	27.10	24.5 / 30.6	2,950	0.0601	0.0030	735	300/R

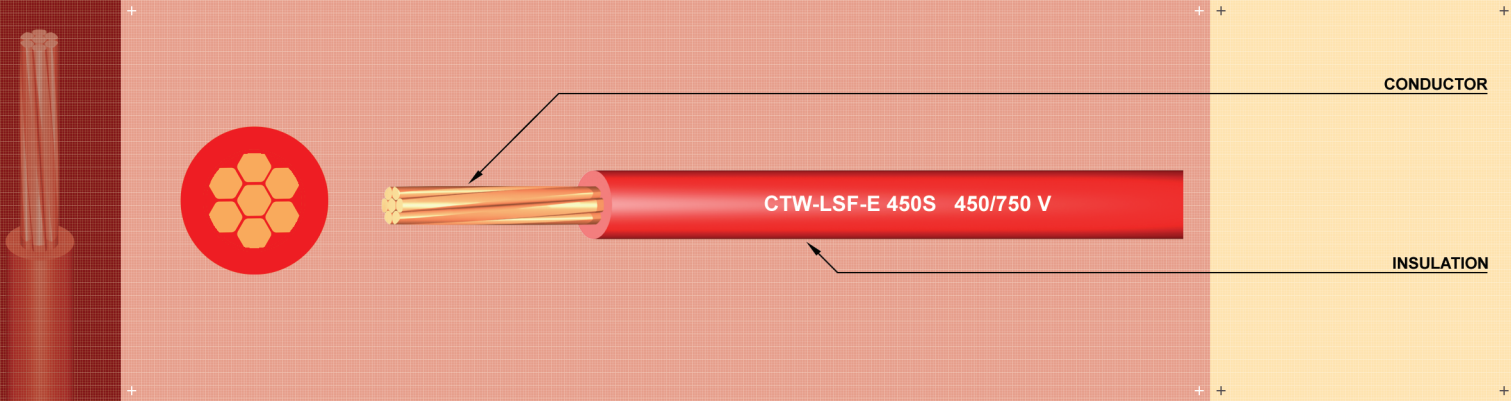


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		Nominal cross-sectional area mm ²	Number and diameter of wire No./mm	Diameter (Approx.) mm								
C90018400	1 x 400	400	61 : CP	23.39	2.6	30.40	27.5 / 34.3	3,900	0.0470	0.0028	855	300/R
C90018500	1 x 500	500	61 : CP	26.67	2.8	34.20	30.5 / 38.2	4,900	0.0366	0.0028	995	300/R
C90018630	1 x 630	630	91 : CP	30.20	2.8	38.00	34.0 / 42.5	6,100	0.0283	0.0025	1,150	300/R

C = Packing in coil
R = Packing in reel