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# FRLH-IE

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450/750 V 90 °C XLPE Insulated Flame Retardant with Low Smoke and Zero Halogen For Electric Wire and Cable



## CABLE STRUCTURE

**NUMBER OF CORE  
CONDUCTOR**

: Single Core  
: Concentric stranded and compact stranded annealed copper,  
Size 1.5 mm<sup>2</sup> up to 630 mm<sup>2</sup>

**INSULATION**

: Low Smoke and zero halogen cross-linked polyethylene  
( LSOH-XLPE)  
Color : 1.5 mm<sup>2</sup> to 10 mm<sup>2</sup> : any colour  
16 mm<sup>2</sup> to 630 mm<sup>2</sup> : black

**CLASSIFICATION**

: Maximum conductor temperature 90 °C ,Circuit voltage and  
exceeding 750 V

**TESTING VOLTAGE**

: 2.5 kV

**REFERENCE STANDARD**

: BS 7211

**SMOKE DENSITY TEST**

: BS EN 50268-2 ( IEC 61034-2)

**ACID GAS TEST**

: BS EN 50267-2 -2 ( IEC 60754-2 )

**FLAME RETARDANT STANDARD**

: BS 4066 part 1



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Size (mm <sup>2</sup> )	Conductor Strands (mm)	Conductor Diameter Approx. (mm)	Insulation Thickness Nominal (mm)	Overall Diameter Approx. (mm)	Maximum Conductor Resistance at 20 °C (Ω/km)	Maximum Conductor Resistance at 90 °C (MΩ-km)	Maximum Continuous Current Rating in Free air ( Ampere )	Weight Of Cable (approx.) (kg/km)	Standard Packing Length (m)
1.5	7/0.53	1.59	0.7	3.2	12.1	0.010	22	19	300/C
2.5	7/0.67	2.01	0.8	4.0	7.41	0.009	31	31	300/C
4	7/0.85	2.55	0.8	4.5	4.61	0.0077	42	45	300/C
6	7/1.04	3.12	0.8	5.1	3.08	0.0065	54	65	300/C
10	6	3.8	0.8	6.0	1.83	0.0065	76	100	300/D
16	6	4.8	1.0	7.0	1.15	0.0050	100	160	300/D
25	6	6.0	1.0	8.6	0.272	0.0050	140	250	300/D
35	6	7.1	1.2	9.7	0.524	0.0043	175	340	300/D
50	6	8.3	1.2	11.5	0.387	0.0043	215	460	300/D
70	12	9.9	1.4	13.5	0.268	0.0035	275	650	300/D
95	15	11.7	1.6	15.5	0.193	0.0035	345	900	300/D
120	18	13.2	1.6	17.0	0.153	0.0032	400	1,100	300/D
150	18	14.6	1.8	18.5	0.124	0.0032	460	1,400	300/D
185	30	16.3	2.0	21	0.0991	0.0032	535	1,800	300/D
240	34	18.7	2.2	24	0.0754	0.0032	640	2,300	300/D
300	34	20.9	2.4	26	0.0601	0.0030	735	2,900	300/D
400	53	23.5	2.6	29	0.0470	0.0028	855	3,700	300/D
500	53	26.7	2.8	33	0.0366	0.0028	995	4,700	300/D
630	53	30.3	2.8	35	0.0283	0.0025	1,150	5,900	300/D

D : Packing in drum3

Remark : Special protection can be produced.

