

XLPE Insulated & LSHF Sheathed Fire Resistant Cables

(1) 600/1000V Single-Core Unarmoured Fire Resistant Cable to BS 6387, IEC 60331, IEC 60332-3C, IEC 61034 & IEC 60754

Conductor			Nominal Thickness of Insulation	Nominal Thickness of Sheath	Nominal Overall Diameter	Approx. Weight	
Size	No./Dia. of Wire	Approx. Diameter				IEC 332-3C	IEC 332-3A
mm ²	No./mm	mm	mm	mm	mm	kg/km	kg/km
1.5	7/0.53CR	1.59	0.7	1.4	6.4	55	60
2.5	7/0.67CR	2.01	0.7	1.4	6.8	70	75
4	7/0.85CR	2.55	0.7	1.4	7.4	90	100
6	7/1.04CR	3.12	0.7	1.4	7.9	110	115
10	7/1.35CR	4.05	0.7	1.4	8.9	160	165
16	7/1.70CR	5.10	0.7	1.4	9.9	220	225
25	7/2.14CP	6.10	0.9	1.4	12.2	330	335
35	7/2.52CP	7.10	0.9	1.4	13.5	440	445
50	19/1.78CP	8.40	1.0	1.4	15.0	560	585
70	19/2.14CP	9.90	1.1	1.4	17.0	770	800
95	19/2.52CP	11.8	1.1	1.5	19.0	1040	1070
120	37/2.03CP	13.2	1.2	1.5	20.8	1290	1330
150	37/2.25CP	14.8	1.4	1.6	23.0	1580	1635
185	37/2.52CP	16.4	1.6	1.6	25.0	1950	2010
240	37/2.88CP	19.0	1.7	1.7	28.5	2530	2610
300	61/2.52CP	21.2	1.8	1.8	31.0	3140	3230
400	61/2.85CP	23.7	2.0	1.9	34.7	3970	4095
500	61/3.20CP	27.0	2.2	2.0	38.5	4980	5100
630	91/2.97CP [#]	31.2	2.4	2.2	43.5	4600	6590
800	127/2.85CR	37.05	2.6	2.3	49.5	8000	8280
1000	127/3.20CR	41.6	2.8	2.4	53.2	10200	10670

(2) 450/750V & 600/1000V Single-Core Non-Sheathed LSHF Fire Resistant Cable to BS 7211, BS 6387, IEC 60331, IEC 60332-1, IEC 61034 & IEC 60754

Conductor			450/750V			600/1000V		
Size	No. /Dia. of Wire	Approx. Diameter	Nominal Thickness of Insulation	Nominal Overall Diameter	Approx. Weight	Nominal Thickness of Insulation	Nominal Overall Diameter	Approx. Weight
mm ²	No./mm	mm	mm	mm	kg/km	mm	mm	kg/km
1.5	7/0.53CR	1.59	0.7	3.6	30	0.8	3.8	35
2.5	7/0.67CR	2.01	0.8	4.4	43	0.8	4.2	45
4	7/0.85CR	2.55	0.8	5.5	53	1.0	4.7	75
6	7/1.04CR	3.12	0.8	6.0	80	1.0	5.3	85
10	7/1.35CR	4.05	1.0	7.0	146	1.0	6.6	146
16	7/1.70CR	5.10	1.0	7.6	198	1.0	7.6	198
25	7/2.14CP	6.10	1.2	9.4	320	1.2	9.4	320
35	7/2.52CP	7.10	1.2	10.5	410	1.2	10.5	410
50	19/1.78CP	8.40	1.4	12.2	550	1.4	12.2	550
70	19/2.14CP	9.90	1.4	14.1	770	1.4	14.1	770
95	19/2.52CP	11.8	1.6	16.0	1140	1.6	16.0	1140
120	37/2.03CP	13.2	1.6	17.5	1420	1.6	17.5	1425
150	37/2.25CP	14.8	1.8	19.5	1720	1.8	19.5	1720
185	37/2.52CP	16.4	2.0	22.6	2155	2.0	22.6	2155
240	37/2.88CP	19.0	2.2	25.5	2900	2.2	25.6	2900
300	61/2.52CP	21.2	2.4	28.5	3550	2.4	28.5	3550
400	61/2.85CP	23.7	2.6	31.9	4410	2.6	31.9	4410
500	61/3.20CP	27.0	2.8	35.6	5660	2.8	35.6	5660
630	91/2.97CP [#]	31.2	2.8	40.0	7140	2.8	40.0	7140

* CR=circular stranded conductor

* CP=circular compacted stranded conductor (#630mm² shall be 89/3.0mm or 91/2.97mm)

XLPE Insulated & LSHF Sheathed Fire Resistant Cables

(3) 600/1000V Multi-Core LSHF Fire Resistant Cable to IEC 60502, BS 6387, IEC 60331, IEC 60332-3C, IEC 61034 & IEC 60754

No. of Core	Size	Conductor No. / Diameter of Wire	Approximate Diameter of Conductor	Nominal Thickness of Insulation	Nominal Thickness of Sheath	Nominal Overall Diameter	Approx. Weight	
							IEC 332-3C	IEC 332-3A
No.	mm ²	No. / mm	mm	mm	mm	mm	kg/km	kg/km
2	1.5	7/0.53CR	1.59	0.7	1.8	10.4	150	160
	2.5	7/0.67CR	2.01	0.7	1.8	11.2	180	190
	4	7/0.85CR	2.55	0.7	1.8	12.3	240	250
	6	7/1.04CR	3.12	0.7	1.8	13.5	300	320
	10	7/1.35CR	4.05	0.7	1.8	15.7	420	440
	16	7/1.70CR	5.10	0.7	1.8	17.8	590	610
	25	7/2.14CP	6.10	0.9	1.8	21.2	960	890
	35	7/2.52CP	7.10	0.9	1.8	23.7	1120	1150
	50	19/1.78CP	8.40	1.0	1.8	26.5	1500	1550
	70	19/2.14CP	9.90	1.1	1.8	30.0	2050	2100
	95	19/2.52CP	11.80	1.1	1.9	34.0	2700	2780
	120	37/2.03CP	13.20	1.2	2.0	37.5	3430	3700
	150	37/2.25CP	14.80	1.4	2.2	42.0	4230	4300
	185	37/2.52CP	16.40	1.6	2.3	46.0	5235	5300
	240	37/2.88CP	19.00	1.7	2.5	52.0	6770	6850
	300	61/2.52CP	21.20	1.8	2.6	57.0	8335	8450
400	61/2.85CP	23.70	2.0	2.9	63.5	10500	10700	
3	1.5	7/0.53CR	1.59	0.7	1.8	11.4	170	185
	2.5	7/0.67CR	2.01	0.7	1.8	12.3	215	230
	4	7/0.85CR	2.55	0.7	1.8	13.5	280	295
	6	7/1.04CR	3.12	0.7	1.8	14.8	360	375
	10	7/1.35CR	4.05	0.7	1.8	16.7	510	540
	16	7/1.70CR	5.10	0.7	1.8	18.5	740	770
	25	7/2.14CP	6.10	0.9	1.8	22.0	1100	1150
	35	7/2.52CP	7.10	0.9	1.8	25.0	1400	1450
	50	19/1.78CP	8.40	1.0	1.8	28.0	1900	1980
	70	19/2.14CP	9.90	1.1	1.9	32.0	2600	2700
	95	19/2.52CP	11.80	1.1	2.0	37.0	3500	3600
	120	37/2.03CP	13.20	1.2	2.1	42.0	4400	4505
	150	37/2.25CP	14.80	1.4	2.3	47.0	5500	5650
	185	37/2.52CP	16.40	1.6	2.4	52.0	6800	7005
	240	37/2.88CP	19.00	1.7	2.6	58.5	8800	9070
	300	61/2.52CP	21.20	1.8	2.7	64.5	10000	11400
400	61/2.85CP	23.70	2.0	3.0	69.5	14000	14400	
4	1.5	7/0.53CR	1.59	0.7	1.8	12.5	200	220
	2.5	7/0.67CR	2.01	0.7	1.8	13.5	250	270
	4	7/0.85CR	2.55	0.7	1.8	14.5	335	360
	6	7/1.04CR	3.12	0.7	1.8	16.0	440	465
	10	7/1.35CR	4.05	0.7	1.8	18.0	640	675
	16	7/1.70CR	5.10	0.7	1.8	21.0	915	955
	25	7/2.14CP	6.10	0.9	1.8	25.0	1410	1470
	35	7/2.52CP	7.10	0.9	1.8	28.5	1500	1570
	50	19/1.78CP	8.40	1.0	1.8	32.0	1950	2050
	70	19/2.14CP	9.90	1.1	2.0	37.0	3100	3220
	95	19/2.52CP	11.80	1.1	2.1	42.5	3600	3750
	120	37/2.03CP	13.20	1.2	2.3	47.0	5700	5870
	150	37/2.25CP	14.80	1.4	2.4	51.5	7000	7250
	185	37/2.52CP	16.40	1.6	2.6	57.5	8700	8900
	240	37/2.88CP	19.00	1.7	2.8	65.5	11000	11300
	300	61/2.52CP	21.20	1.8	3.0	71.5	14760	14400
400	61/2.85CP	23.70	2.0	3.3	75.5	18000	18500	

* CR = circular stranded conductor

* CP = circular compacted stranded conductor

XLPE Insulated & LSHF Sheathed Fire Resistant Cables

(4) 300/500V Multi-Core, XLPE Insulated, LSHF Sheathed, Unarmoured Fire Resistant Cable to IEC 60502, BS 6387, IEC 60331, IEC 60332-3C, IEC 61034 & IEC 60754

Conductor				Nominal Thickness of Insulation	Nominal Thickness of Sheath	Nominal Overall Diameter	Approx. Weight
No. of Core	Size	No. / Dia. of Wire	Approx. Dia.				
No.	mm ²	No. / mm	mm	mm	mm	mm	kg/km
2	1.5	7/0.53CR	1.59	0.7	0.9	8.0	95
	2.5	7/0.67CR	2.01	0.8	1.0	8.8	120
	4.0	7/0.85CR	2.55	0.8	1.1	9.9	165
3	1.5	7/0.53CR	1.59	0.7	1.0	8.5	110
	2.5	7/0.67CR	2.01	0.8	1.1	9.5	150
	4.0	7/0.85CR	2.55	0.8	1.1	10.5	205
4	1.5	7/0.53CR	1.59	0.7	1.0	9.5	135
	2.5	7/0.67CR	2.01	0.8	1.1	10.5	180
	4.0	7/0.85CR	2.55	0.8	1.2	11.5	255

(5) 600/1000V Single-Core, XLPE Insulated, LSHF Sheathed, Armoured Fire Resistant Cable to IEC 60502, BS 6387, IEC 60331, IEC 60332-3C, IEC 61034 & IEC 60754

Conductor			Nominal Thickness of Insulation	Nominal Thickness of Bedding	Nominal Dia. of Armour Wire	Nominal Thickness of Sheath	Nominal Overall Diameter	Approx. Weight	
Size	No. / Dia. of Wire	Approx. Dia.						IEC 332-3C	IEC 332-3A
mm ²	No. / mm	mm	mm	mm	mm	mm	kg/km	kg/km	
50	19/1.78CP	8.40	1.0	0.8	1.25	1.5	15.0	560	580
70	19/2.14CP	9.90	1.1	0.8	1.25	1.5	17.0	770	790
95	19/2.52CP	11.80	1.1	0.8	1.25	1.6	19.0	1050	1100
120	37/2.03CP	13.20	1.2	0.8	1.25	1.6	20.5	1300	1350
150	37/2.25CP	14.80	1.4	1.0	1.6	1.7	23.0	1580	1620
185	37/2.52CP	16.40	1.6	1.0	1.6	1.8	25.5	1950	2010
240	37/2.88CP	19.00	1.7	1.0	1.6	1.8	28.5	2550	2630
300	61/2.52CP	21.20	1.8	1.0	1.6	1.9	31.0	3150	3240
400	61/2.85CP	23.70	2.0	1.2	2.0	2.0	35.0	3950	4060
500	61/3.20CP	27.00	2.2	1.2	2.0	2.1	38.0	4970	5105
630	91/2.97CP [#]	31.20	2.4	1.2	2.0	2.2	43.5	6500	6700
800	127/2.85CR	37.05	2.6	1.4	2.5	2.4	48.0	8000	8200
1000	127/3.20CR	41.60	2.8	1.4	2.5	2.5	53.5	10200	10450

* CR = circular stranded conductor

* CP = circular compacted stranded conductor (#630mm² shall be 89/3.00mm or 91/2.97mm)

XLPE Insulated & LSHF Sheathed Fire Resistant Cables

(6) 600/1000V Multi-Core, XLPE Insulated, LSHF Sheathed, Armoured Fire Resistant Cable to IEC 60502, BS 6387, IEC 60331, IEC 60332-3C, IEC 61034 & IEC 60754

No. of Core	Size	Conductor		Nominal Thickness of Insulation	Nominal Thickness of Bedding	Nominal Dia. of Armour Wire	Nominal Thickness of Sheath	Nominal Overall Diameter	Approx. Weight	
		No./Dia. of Wire	Approx. Diameter						IEC 332-3C	IEC 332-3A
No.	mm ²	No./mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km
2	1.5	7/0.53CR	1.59	0.7	0.8	0.9	1.4	15.0	400	415
	2.5	7/0.67CR	2.01	0.7	0.8	0.9	1.4	16.0	450	460
	4	7/0.85CR	2.55	0.7	0.8	0.9	1.4	17.0	530	540
	6	7/1.04CR	3.12	0.7	0.8	0.9	1.4	18.0	620	635
	10	7/1.35CR	4.05	0.7	0.8	0.9	1.5	20.0	900	925
	16	7/1.70CR	5.10	0.7	0.8	1.25	1.5	22.4	1050	1075
	25	7/2.14CP	6.10	0.9	0.8	1.25	1.6	26.5	1600	1620
	35	7/2.52CP	7.10	0.9	1.0	1.6	1.7	29.0	1965	2075
	50	19/1.78CP	8.40	1.0	1.0	1.6	1.8	32.5	2500	2550
	70	19/2.14CP	9.90	1.1	1.0	1.6	1.9	37.5	3400	3460
	95	19/2.52CP	11.80	1.1	1.2	2.0	2.0	42.5	4420	4480
	120	37/2.03CP	13.20	1.2	1.2	2.0	2.1	46.0	5250	5330
	150	37/2.25CP	14.80	1.4	1.2	2.0	2.2	51.0	6300	6405
	185	37/2.52CP	16.40	1.6	1.4	2.5	2.4	55.5	8200	8350
	240	37/2.88CP	19.00	1.7	1.4	2.5	2.5	62.5	9900	10500
	300	61/2.52CP	21.20	1.8	1.6	2.5	2.6	68.5	12300	12550
400	61/2.85CP	23.70	2.0	1.6	2.5	2.8	76.0	15500	15800	
3	1.5	7/0.53CR	1.59	0.7	0.8	0.9	1.4	15.7	450	465
	2.5	7/0.67CR	2.01	0.7	0.8	0.9	1.4	16.8	510	530
	4	7/0.85CR	2.55	0.7	0.8	0.9	1.4	18.0	610	630
	6	7/1.04CR	3.12	0.7	0.8	0.9	1.4	20.0	820	840
	10	7/1.35CR	4.05	0.7	0.8	1.25	1.5	21.8	1000	1020
	16	7/1.70CR	5.10	0.7	0.8	1.25	1.6	24.4	1300	1330
	25	7/2.14CP	6.10	0.9	1.0	1.6	1.7	28.0	1900	1950
	35	7/2.52CP	7.10	0.9	1.0	1.6	1.8	31.0	2400	2450
	50	19/1.78CP	8.40	1.0	1.0	1.6	1.8	34.5	3000	3070
	70	19/2.14CP	9.90	1.1	1.0	1.6	1.9	40.5	4300	4400
	95	19/2.52CP	11.80	1.1	1.2	2.0	2.1	45.0	5400	5500
	120	37/2.03CP	13.20	1.2	1.2	2.0	2.2	49.0	6600	6720
	150	37/2.25CP	14.80	1.4	1.4	2.5	2.3	55.0	8300	8450
	185	37/2.52CP	16.40	1.6	1.4	2.5	2.4	60.0	10000	10200
	240	37/2.88CP	19.00	1.7	1.4	2.5	2.6	67.5	12000	12200
	300	61/2.52CP	21.20	1.8	1.6	2.5	2.7	74.0	15000	15280
400	61/2.85CP	23.70	2.0	1.6	2.5	2.9	84.0	18300	19600	
4	1.5	7/0.53CR	1.59	0.7	0.8	0.9	1.4	16.6	500	520
	2.5	7/0.67CR	2.01	0.7	0.8	0.9	1.4	17.7	580	605
	4	7/0.85CR	2.55	0.7	0.8	0.9	1.4	19.5	800	820
	6	7/1.04CR	3.12	0.7	0.8	1.25	1.5	21.0	950	1020
	10	7/1.35CR	4.05	0.7	0.8	1.25	1.5	24.0	1200	1235
	16	7/1.70CR	5.10	0.7	0.8	1.25	1.6	26.5	1700	1740
	25	7/2.14CP	6.10	0.9	1.0	1.6	1.7	30.5	2300	2400
	35	7/2.52CP	7.10	0.9	1.0	1.6	1.8	34.5	2900	2940
	50	19/1.78CP	8.40	1.0	1.0	1.6	1.9	39.0	3900	4050
	70	19/2.14CP	9.90	1.1	1.2	2.0	2.1	44.0	4900	5030
	95	19/2.52CP	11.80	1.1	1.2	2.0	2.2	49.0	6600	6630
	120	37/2.03CP	13.20	1.2	1.4	2.5	2.3	55.0	8500	8700
	150	37/2.25CP	14.80	1.4	1.4	2.5	2.4	60.5	9900	10300
	185	37/2.52CP	16.40	1.6	1.4	2.5	2.6	66.5	12000	12400
	240	37/2.88CP	19.00	1.7	1.6	2.5	2.7	75.5	16000	16500
	300	61/2.52CP	21.20	1.8	1.6	2.5	2.9	82.5	19000	19300
400	61/2.85CP	23.70	2.0	1.8	3.15	3.2	90.5	23800	24200	

* CR = circular stranded conductor

* CP = circular compacted stranded conductor