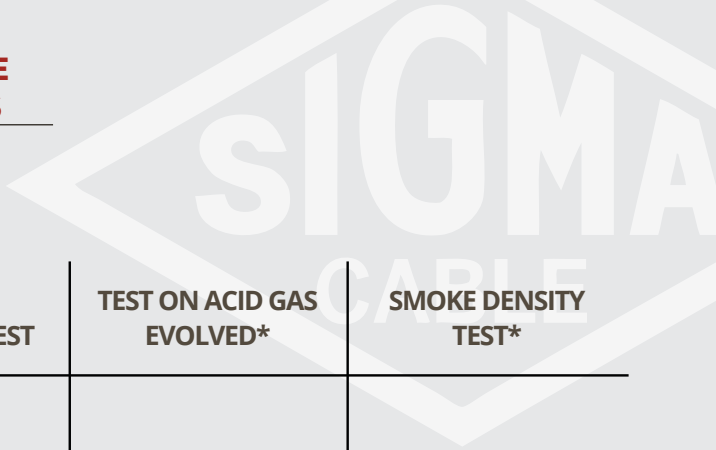


XLPE INSULATED AND PVC OR LOW SMOKE HALOGEN FREE (LSHF) SHEATHED CABLES

Voltage Rating (U_o/U) : 600/1000V, 1800/3000V or 1900/3300V



Standards Complied

MAIN CABLE SPECIFICATION	MATERIALS TEST METHODS	FLAME RETARDANT TEST	TEST ON ACID GAS EVOLVED*	SMOKE DENSITY TEST*
BS 5467				
BS 6724	BS EN 10257	BS EN 50265		
BS 7211	BS 2627	BS EN 50266	BS EN 50267	BS EN 50268
IEC 60228	BS 7655	IEC 60332-1	IEC 60754	IEC 61034
IEC 60502-1	IEC 60811	IEC 60332-3		
AS/NZS 5000-1		(Upon customer request)		

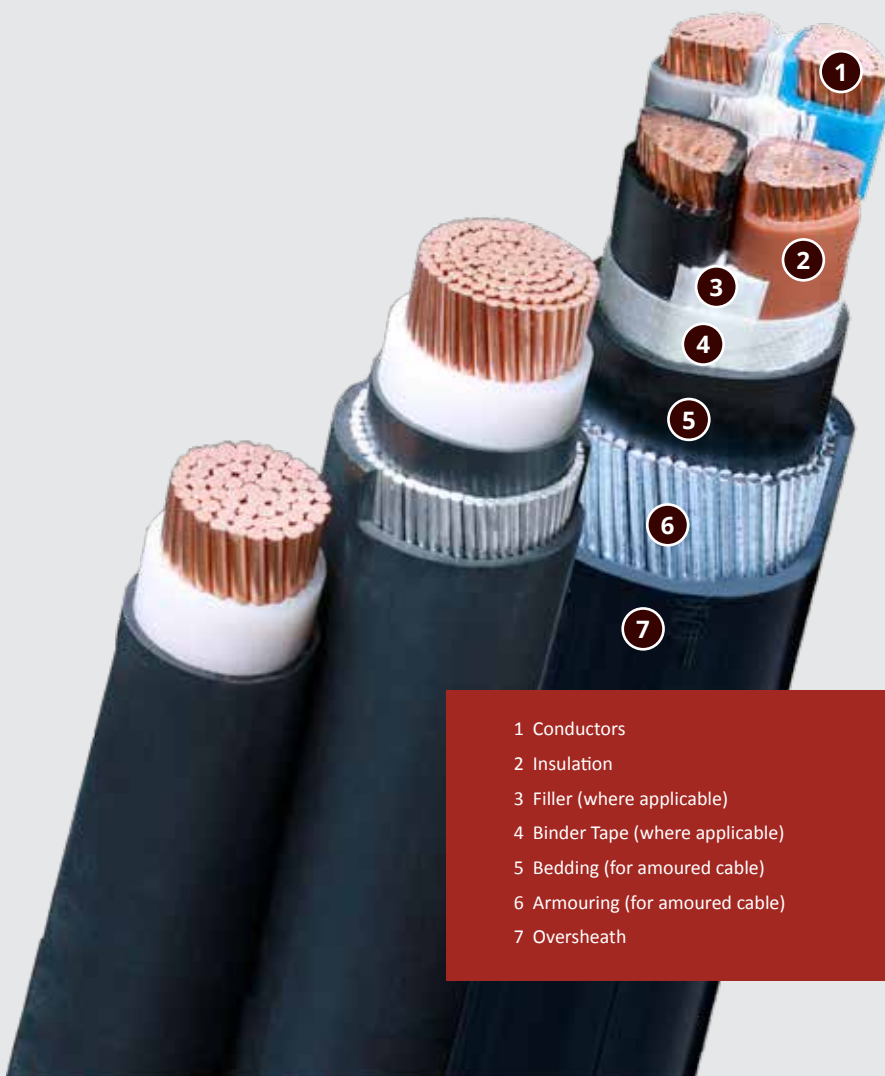
Colours of Identification

INSULATION:

- 1-core: Natural
- 2-core: (Red, Black) or (Brown, Blue)
- 3-core: (Red, Yellow, Blue) or (Brown, Black, Grey)
- 4-core: (Red, Yellow, Blue, Black) or (Brown, Black, Grey, Blue)

OVER SHEATH:

Black



- | | | |
|----------------------------------|---|---|
| 1 Conductors | : | Plain annealed stranded copper conductor. |
| 2 Insulation | : | Cross-linked PE compound. |
| 3 Filler (where applicable) | : | PVC or Polypropylene yarn. |
| 4 Binder Tape (where applicable) | : | Polyester (mylar) tape/ non-woven polyester tape. |
| 5 Bedding (for armoured cable) | : | Flame retardant PVC compound, type ST2, LSHF or ST8 compound. |
| 6 Armouring (for armoured cable) | : | Aluminium wires or Galvanized steel wires. |
| 7 Oversheath | : | Flame retardant PVC compound, type ST2, LSHF or ST8 compound. |

Table XL1

600/1000V SINGLE-CORE XLPE INSULATED PVC SHEATHED CABLE TO IEC 60502

MODEL: XP-600S, XAP-600S

Size of Conductor mm ²	Nom. Thick. of Insulation mm	UNARMoured CABLE XP-600S			ALUMINIUM WIRE ARMoured (AWA) CABLE XAP-600S				
		Nom. Thick. of Sheath mm	Approx. OD of Cable mm	Approx. Weight of Cable kg/km	Nom. Thick. of Bedding mm	Nom. Dia. of Armour Wire mm	Nom. Thick. of Sheath mm	Approx. OD of Cable mm	Approx. Weight of Cable kg/km
1.5	0.7	1.4	6.0	50					
2.5	0.7	1.4	6.5	60					
4	0.7	1.4	7.0	80					
6	0.7	1.4	7.5	105					
10	0.7	1.4	8.5	150					
16	0.7	1.4	9.5	210					
25	0.9	1.4	11.5	320					
35	0.9	1.4	12.5	420					
50	1.0	1.4	14.0	545	1.0	1.25	1.8	19.5	780
70	1.1	1.4	16.0	765	1.0	1.25	1.8	21.5	1025
95	1.1	1.5	18.0	1035	1.0	1.60	1.8	24.0	1375
120	1.2	1.5	20.0	1285	1.0	1.60	1.8	25.5	1650
150	1.4	1.6	22.0	1575	1.0	1.60	1.8	27.5	1960
185	1.6	1.6	24.5	1955	1.0	1.60	1.8	30.0	2375
240	1.7	1.7	27.5	2530	1.0	1.60	1.9	33.0	3005
300	1.8	1.8	30.5	3155	1.0	1.60	1.9	35.5	3650
400	2.0	1.9	34.0	4010	1.2	2.00	2.1	40.5	4725
500	2.2	2.0	38.0	5025	1.2	2.00	2.2	44.5	5815
630	2.4	2.2	42.5	6450	1.2	2.00	2.3	49.0	7315
800	2.6	2.3	47.5	8185	1.4	2.50	2.5	55.5	9400
1000	2.8	2.4	52.5	10255	1.4	2.50	2.7	61.0	11625

Table XL2

600/1000V 2-CORE XLPE INSULATED PVC SHEATHED CABLE TO IEC 60502

MODEL: XP-600M, XSP-600M

Size of Conductor mm ²	Nom. Thick. of Insulation mm	UNARMoured CABLE XP-600M			STEEL WIRE ARMoured (SWA) CABLE XSP-600M				
		Nom. Thick. of Sheath mm	Approx. OD of Cable mm	Approx. Weight of Cable kg/km	Nom. Thick. of Bedding mm	Nom. Dia. of Armour Wire mm	Nom. Thick. of Sheath mm	Approx. OD of Cable mm	Approx. Weight of Cable kg/km
1.5	0.7	1.8	10.0	125	1.0	0.90	1.8	13.5	340
2.5	0.7	1.8	10.5	160	1.0	0.90	1.8	14.5	390
4	0.7	1.8	12.0	205	1.0	0.90	1.8	15.5	460
6	0.7	1.8	13.0	260	1.0	0.90	1.8	17.0	535
10	0.7	1.8	15.0	375	1.0	1.25	1.8	19.0	800
16	0.7	1.8	17.0	530	1.0	1.25	1.8	21.5	1020
25	0.9	1.8	17.0	655	1.0	1.60	1.8	22.0	1265
35	0.9	1.8	18.5	865	1.0	1.60	1.8	23.5	1535
50	1.0	1.8	21.0	1135	1.0	1.60	1.8	25.5	1865
70	1.1	1.8	23.5	1570	1.0	1.60	2.0	29.0	2445
95	1.1	1.9	26.5	2120	1.2	2.00	2.1	33.0	3345
120	1.2	2.0	29.5	2640	1.2	2.00	2.2	36.0	3990
150	1.4	2.2	33.0	3250	1.2	2.00	2.3	39.0	4730
185	1.6	2.3	36.5	4050	1.4	2.50	2.5	44.5	6160
240	1.7	2.5	46.0	5300	1.4	2.50	2.7	53.5	7820
300	1.8	2.6	50.0	6590	1.6	2.50	2.8	58.0	9390
400	2.0	2.9	54.0	8365	1.6	2.50	3.1	62.0	11475

Table XL3

600/1000V 3-CORE XLPE INSULATED PVC SHEATHED CABLE TO IEC 60502

MODEL: XP-600M, XSP-600M

Size of Conductor mm ²	Nom. Thick. of Insulation mm	UNARMoured CABLE XP-600M			STEEL WIRE ARMoured (SWA) CABLE XSP-600M				
		Nom. Thick. of Sheath mm	Approx. OD of Cable mm	Approx. Weight of Cable kg/km	Nom. Thick. of Bedding mm	Nom. Dia. of Armour Wire mm	Nom. Thick. of Sheath mm	Approx. OD of Cable mm	Approx. Weight of Cable kg/km
1.5	0.7	1.8	10.5	145	1.0	0.90	1.8	14.0	370
2.5	0.7	1.8	11.0	185	1.0	0.90	1.8	15.0	435
4	0.7	1.8	12.5	250	1.0	0.90	1.8	16.0	520
6	0.7	1.8	14.0	310	1.0	0.90	1.8	17.5	610
10	0.7	1.8	16.0	460	1.0	1.25	1.8	20.0	910
16	0.7	1.8	18.0	670	1.0	1.25	1.8	22.5	1180
25	0.9	1.8	19.0	935	1.0	1.60	1.8	24.5	1610
35	0.9	1.8	21.5	1245	1.0	1.60	1.8	26.5	2000
50	1.0	1.8	25.5	1655	1.0	1.60	1.9	30.5	2560
70	1.1	1.9	28.0	2320	1.2	2.00	2.0	34.0	3585
95	1.1	2.0	32.0	3125	1.2	2.00	2.2	38.5	4590
120	1.2	2.1	35.5	3905	1.2	2.00	2.3	42.0	5530
150	1.4	2.3	39.5	4800	1.4	2.50	2.5	47.5	7050
185	1.6	2.4	44.0	6010	1.4	2.50	2.6	52.0	8515
240	1.7	2.6	53.5	8010	1.6	2.50	2.8	62.0	11180
300	1.8	2.7	60.0	9995	1.6	2.50	3.0	68.5	13530
400	2.0	3.0	65.5	12680	1.6	2.50	3.2	74.0	16520

Table XL4

600/1000V 4-CORE XLPE INSULATED PVC SHEATHED CABLE TO IEC 60502

MODEL: XP-600M, XSP-600M

Size of Conductor mm ²	Nom. Thick. of Insulation mm	UNARMoured CABLE XP-600M			STEEL WIRE ARMoured (SWA) CABLE XSP-600M				
		Nom. Thick. of Sheath mm	Approx. OD of Cable mm	Approx. Weight of Cable kg/km	Nom. Thick. of Bedding mm	Nom. Dia. of Armour Wire mm	Nom. Thick. of Sheath mm	Approx. OD of Cable mm	Approx. Weight of Cable kg/km
1.5	0.7	1.8	11.0	170	1.0	0.90	1.8	15.0	415
2.5	0.7	1.8	12.0	225	1.0	0.90	1.8	16.0	490
4	0.7	1.8	13.5	305	1.0	0.90	1.8	17.0	600
6	0.7	1.8	15.0	385	1.0	1.25	1.8	19.5	815
10	0.7	1.8	17.5	580	1.0	1.25	1.8	22.0	1070
16	0.7	1.8	20.0	835	1.0	1.60	1.8	25.0	1540
25	0.9	1.8	21.5	1210	1.0	1.60	1.8	26.5	1985
35	0.9	1.8	24.0	1610	1.0	1.60	1.9	29.0	2475
50	1.0	1.8	27.0	2120	1.0	1.60	2.0	32.5	3100
70	1.1	2.0	31.5	3015	1.2	2.00	2.2	38.0	4480
95	1.1	2.1	36.0	4085	1.2	2.00	2.3	42.5	5750
120	1.2	2.3	40.0	5155	1.4	2.50	2.5	48.0	7460
150	1.4	2.4	44.5	6310	1.4	2.50	2.6	52.5	8810
185	1.6	2.6	50.5	7940	1.4	2.50	2.8	58.5	10780
240	1.7	2.8	58.0	10520	1.6	2.50	3.0	67.0	13930
300	1.8	3.0	64.0	13135	1.6	2.50	3.2	72.0	16850
400	2.0	3.3	73.0	16700	1.8	3.15	3.5	83.0	22230

NOTE: Current Rating & Volt Drop refer to Table T2 & T4 on page 33 & 35.

Table XL5

600/1000V 4-CORE WITH REDUCED NEUTRAL XLPE INSULATED PVC SHEATHED CABLE TO IEC 60502

MODEL: XP-600M, XSP-600M

Size of Conductor		Nom. Thick. of Insulation		UNARMOURED CABLE XP-600M			STEEL WIRE ARMoured (SWA) CABLE XSP-600M				
Phase	Neutral	Phase	Neutral	Nom. Thick. of Sheath	Approx. OD of Cable	Approx. Weight of Cable	Nom. Thick. of Bedding	Nom. Dia. of Armour Wire	Nom. Thick. of Sheath	Approx. OD of Cable	Approx. Weight of Cable
mm ²	mm ²	mm	mm	mm	mm	kg/km	mm	mm	mm	mm	kg/km
16	10	0.7	0.7	1.8	19.0	775	1.0	1.60	1.8	24.0	1475
25	16	0.9	0.7	1.8	21.5	1130	1.0	1.60	1.8	26.5	1915
35	16	0.9	0.7	1.8	24.0	1445	1.0	1.60	1.8	29.0	2305
50	25	1.0	0.9	1.8	27.0	1930	1.0	1.60	2.0	32.0	2905
70	35	1.1	0.9	1.9	31.0	2715	1.2	2.00	2.1	38.0	4175
95	50	1.1	1.0	2.1	36.0	3680	1.2	2.00	2.3	42.5	5330
120	70	1.2	1.1	2.2	40.0	4690	1.2	2.00	2.4	46.5	6500
150	70	1.4	1.1	2.3	44.0	5610	1.4	2.50	2.5	52.0	8110
185	95	1.6	1.1	2.5	50.0	7130	1.4	2.50	2.7	58.0	9980
240	120	1.7	1.2	2.6	57.5	9215	1.6	2.50	3.0	66.5	12930
300	150	1.8	1.4	2.8	63.5	11490	1.6	2.50	3.0	72.0	15400
400	185	2.0	1.6	3.1	72.5	14660	1.6	3.15	3.3	82.0	19750

NOTE: Current Rating & Volt Drop refer to Table T2 & T4 on page 33 & 35.

Table XL6

450/750V & 600/1000V LSHF INSULATED NON-SHEATHED CABLES REFER TO BS EN 50525-3-31, IEC 60332-3, IEC 60754 & IEC 61034

MODEL: L-FRT-450S, L-FRT-600S

CONDUCTOR		450/750V L-FRT-450S			600/1000V L-FRT-600S		
Size	No./Dia. of wire	Nom. Thick. of Insulation	Approx. OD of Cable	Approx. Weight of Cable	Nom. Thick. of Insulation	Approx. OD of Cable	Approx. Weight of Cable
mm ²	No./mm	mm	mm	kg/km	mm	mm	kg/km
1.5	7/0.53	0.7	3.1	23	0.8	3.3	25
2.5	7/0.67	0.8	3.7	35	0.8	3.7	35
4	7/0.85	0.8	4.3	52	1.0	4.7	55
6	7/1.04	0.8	4.8	73	1.0	5.3	75
10	7/1.35	1.0	6.2	120	1.0	6.2	120
16	7/1.70	1.0	7.2	180	1.0	7.2	180
25	7/2.14	1.2	9.0	285	1.2	9.0	285
35	19/1.53	1.2	10.2	375	1.2	10.2	375
50	19/1.78	1.4	12.0	510	1.4	12.0	510
70	19/2.14	1.4	14.0	720	1.4	14.0	720
95	19/2.52	1.6	16.0	995	1.6	16.0	995
120	37/2.03	1.6	18.0	1230	1.6	18.0	1230
150	37/2.25	1.8	20.0	1515	1.8	20.0	1515
185	37/2.52	2.0	22.0	1900	2.0	22.0	1900
240	61/2.25	2.2	25.0	2475	2.2	25.0	2475
300	61/2.52	2.4	28.0	3100	2.4	28.0	3100
400	61/2.85	2.6	31.5	3945	2.6	31.5	3945
500	61/3.20	2.8	35.0	4950	2.8	35.0	4950
630	127/2.52	2.8	39.0	6300	2.8	39.0	6300

NOTE: Current Rating & Volt Drop refer to Table T5 on page 36.

Table XL7

600/1000V SINGLE-CORE XLPE INSULATED LSHF SHEATHED CABLE

MODEL: XL-FRT-600S, XAL-FRT-600S

Size of Conductor mm ²	UNARMoured CABLE (REF IEC 60502) XL-FRT-600S				ALUMINIUM WIRE ARMoured (AWA) CABLE (BS6724) XAL-FRT-600S				
	Nom. Thick. of Insulation mm	Nom. Thick. of Sheath mm	Approx. OD of Cable mm	Approx. Weight of Cable kg/km	Nom. Thick. of Bedding mm	Nom. Dia. of Armour Wire mm	Nom. Thick. of Sheath mm	Approx. OD of Cable mm	Approx. Weight of Cable kg/km
1.5	0.7	1.4	6.0	50					
2.5	0.7	1.4	6.5	65					
4	0.7	1.4	7.0	85					
6	0.7	1.4	7.5	110					
10	0.7	1.4	8.5	155					
16	0.7	1.4	9.5	225					
25	0.9	1.4	11.5	335					
35	0.9	1.4	12.5	435					
50	1.0	1.4	14.0	570	0.8	1.25	1.5	18.5	750
70	1.1	1.4	16.0	795	0.8	1.25	1.5	20.5	1000
95	1.1	1.5	18.0	1075	0.8	1.60	1.6	23.0	1340
120	1.2	1.5	20.0	1330	0.8	1.60	1.6	24.7	1625
150	1.4	1.6	22.0	1630	1.0	1.60	1.7	27.2	1975
185	1.6	1.6	24.5	2030	1.0	1.60	1.8	29.8	2410
240	1.7	1.7	27.5	2625	1.0	1.60	1.8	32.7	3025
300	1.8	1.8	30.5	3260	1.0	1.60	1.9	35.5	3695
400	2.0	1.9	34.0	4140	1.2	2.00	2.0	40.3	4760
500	2.2	2.0	38.0	5185	1.2	2.00	2.1	44.0	5855
630	2.4	2.2	42.5	6640	1.2	2.00	2.2	48.6	7350
800	2.6	2.3	47.5	8420	1.4	2.50	2.4	55.1	9445
1000	2.8	2.4	52.5	10540	1.4	2.50	2.5	60.3	11650

Table XL8

600/1000V MULTI-CORE XLPE INSULATED LSHF SHEATHED CABLE

MODEL: XL-FRT-600M, XSL-FRT-600M

No. of Core	Size of Conductor mm ²	UNARMoured CABLE (REF IEC 60502) XL-FRT-600M				STEEL WIRE ARMoured (SWA) CABLE (BS6724) XSL-FRT-600M				
		Nom. Thick. of Insulation mm	Nom. Thick. of Sheath mm	Approx. OD of Cable mm	Approx. Weight of Cable kg/km	Nom. Thick. of Bedding mm	Nom. Dia. of Armour Wire mm	Nom. Thick. of Sheath mm	Approx. OD of Cable mm	Approx. Weight of Cable kg/km
5	1.5	0.7	1.8	12.2	203	0.8	0.90	1.4	14.0	390
7		0.7	1.8	13.0	245	0.8	0.90	1.4	16.0	480
10		0.7	1.8	16.5	369	0.8	1.25	1.5	19.5	745
12		0.7	1.8	16.5	375	0.8	1.25	1.5	20.0	800
15		0.7	1.8	18.6	485	0.8	1.25	1.6	21.9	960
19		0.7	1.8	19.5	540	0.8	1.25	1.6	23.0	1035
5	2.5	0.7	1.8	13.3	264	0.8	0.90	1.4	15.8	500
7		0.7	1.8	14.5	320	0.8	0.90	1.4	17.0	580
10		0.7	1.8	17.9	473	0.8	1.25	1.6	21.5	912
12		0.7	1.8	18.5	505	0.8	1.25	1.6	22.0	990
15		0.7	1.8	20.3	637	1.0	1.60	1.7	25.1	1360
19		0.7	1.8	21.5	740	1.0	1.60	1.7	26.0	1465
7	4.0	0.7	1.8	16.0	460	0.8	1.25	1.5	19.5	865
12		0.7	1.8	20.5	735	1.0	1.60	1.6	25.5	1455
19		0.7	1.8	24.0	1090	1.0	1.60	1.7	29.0	1940

NOTE: Current Rating & Volt Drop refer to Table T1, T2, T3 & T4 on page 32 to 35.

Table XL9

600/1000V MULTI-CORE XLPE INSULATED LSHF SHEATHED CABLE

MODEL: XL-FRT-600M, XSL-FRT-600M

No. of Core	Size of Conductor mm ²	UNARMoured CABLE (REF IEC 60502) XL-FRT-600M				STEEL WIRE ARMoured (SWA) CABLE (BS6724) XSL-FRT-600M				
		Nom. Thick. of Insulation mm	Nom. Thick. of Sheath mm	Approx. OD of Cable mm	Approx. Weight of Cable kg/km	Nom. Thick. of Bedding mm	Nom. Dia. of Armour Wire mm	Nom. Thick. of Sheath mm	Approx. OD of Cable mm	Approx. Weight of Cable kg/km
2	1.5	0.7	1.8	10.0	130	0.8	0.90	1.3	12.5	300
	2.5	0.7	1.8	10.5	165	0.8	0.90	1.4	13.5	350
	4	0.7	1.8	12.0	215	0.8	0.90	1.4	14.5	430
	6	0.7	1.8	13.0	265	0.8	0.90	1.4	15.5	500
	10	0.7	1.8	15.0	385	0.8	0.90	1.5	17.5	665
	16	0.7	1.9	17.0	545	0.8	1.25	1.5	20.5	985
	25	0.9	1.8	17.0	665	0.8	1.25	1.6	20.5	1105
	35	0.9	1.8	18.5	875	1.0	1.60	1.7	23.5	1540
	50	1.0	1.8	21.0	1145	1.0	1.60	1.8	25.5	1890
	70	1.1	1.8	23.5	1585	1.0	1.60	1.9	29.0	2460
	95	1.1	1.9	26.5	2140	1.2	2.00	2.0	33.0	3360
	120	1.2	2.0	29.5	2665	1.2	2.00	2.1	36.0	4015
	150	1.4	2.2	33.0	3280	1.2	2.00	2.2	39.0	4755
	185	1.6	2.3	36.5	4080	1.4	2.50	2.4	44.5	6195
	240	1.7	2.5	46.0	5330	1.4	2.50	2.5	49.0	7610
	300	1.8	2.6	50.0	6090	1.6	2.50	2.6	53.5	9190
400	2.0	2.9	54.0	8350	1.6	2.50	2.8	58.5	11220	
3	1.5	0.7	1.8	10.5	150	0.8	0.90	1.3	13.0	330
	2.5	0.7	1.8	11.0	195	0.8	0.90	1.4	14.0	400
	4	0.7	1.8	12.5	260	0.8	0.90	1.4	15.0	485
	6	0.7	1.8	14.0	320	0.8	0.90	1.4	16.5	570
	10	0.7	1.8	16.0	470	0.8	1.25	1.5	19.0	875
	16	0.7	1.8	18.0	680	0.8	1.25	1.6	21.5	1150
	25	0.9	1.8	19.0	950	1.0	1.60	1.7	24.0	1615
	35	0.9	1.8	21.5	1260	1.0	1.60	1.8	26.5	2020
	50	1.0	1.8	25.5	1670	1.0	1.60	1.8	30.5	2575
	70	1.1	1.9	28.0	2335	1.0	1.60	1.9	33.0	3320
	95	1.1	2.0	32.0	3150	1.2	2.00	2.1	38.5	4615
	120	1.2	2.1	35.5	3930	1.2	2.00	2.2	41.5	5555
	150	1.4	2.3	39.5	4830	1.4	2.50	2.3	47.0	7065
	185	1.6	2.4	44.0	6045	1.4	2.50	2.4	51.5	8530
	240	1.7	2.6	53.5	8080	1.4	2.50	2.6	61.0	10875
	300	1.8	2.7	60.0	10070	1.6	2.50	2.7	68.0	13225
400	2.0	3.0	65.5	12770	1.6	2.50	2.9	73.0	16200	
4	1.5	0.7	1.8	11.0	180	0.8	0.90	1.3	13.5	375
	2.5	0.7	1.8	12.0	230	0.8	0.90	1.4	14.5	460
	4	0.7	1.8	13.5	315	0.8	0.90	1.4	16.0	565
	6	0.7	1.8	15.0	395	0.8	1.25	1.5	18.5	780
	10	0.7	1.8	17.5	590	0.8	1.25	1.5	20.5	1030
	16	0.7	1.8	20.0	860	0.8	1.25	1.6	23.5	1370
	25	0.9	1.8	21.5	1225	1.0	1.60	1.7	26.5	1995
	35	0.9	1.8	24.0	1625	1.0	1.60	1.8	29.0	2485
	50	1.0	1.8	27.0	2140	1.0	1.60	1.9	32.0	3115
	70	1.1	2.0	31.5	3040	1.2	2.00	2.1	38.0	4500
	95	1.1	2.1	36.0	4110	1.2	2.00	2.2	42.5	5775
	120	1.2	2.3	40.0	5190	1.4	2.50	2.3	47.5	7475
	150	1.4	2.4	44.5	6350	1.4	2.50	2.4	52.0	8830
	185	1.6	2.6	50.5	7985	1.4	2.50	2.6	58.0	10805
	240	1.7	2.8	58.0	10595	1.6	2.50	2.7	66.0	13630
	300	1.8	3.0	64.0	13220	1.6	2.50	2.9	71.5	16530
400	2.0	3.3	73.0	16805	1.8	3.15	3.2	82.5	21840	

NOTE: Current Rating & Volt Drop refer to Table T2 & T4 on page 33 & 35.