



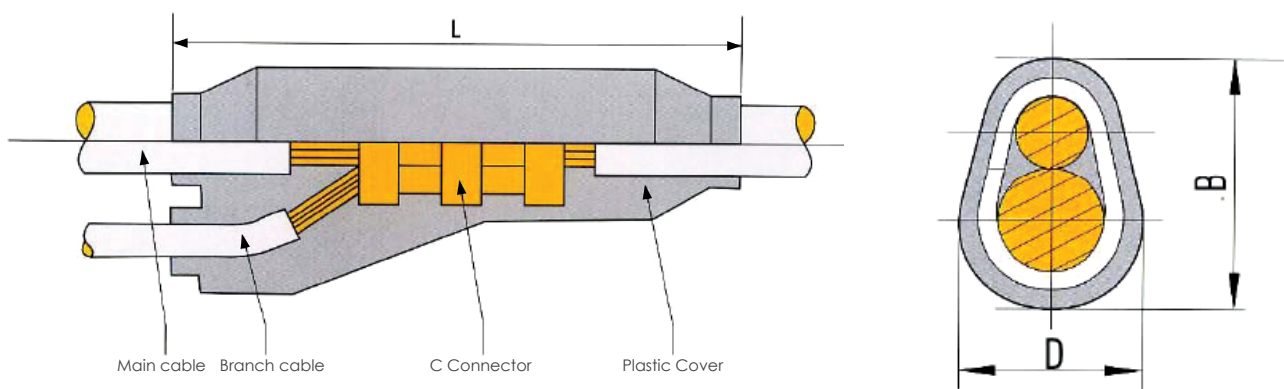
Application :	This cable is used in power supply and distribution system for high-rise residential, commercial buildings, hotels, and factories
Voltage rating :	600/1000V
Construction :	Plain annealed copper, XLPE insulated, unarmoured, PVC sheathed cable
Insulation colour :	Natural
Sheath colour :	Black
Specification :	IEC60502-1
Operating Temperature:	90°C

Part No.	Conductor			Insulation	Unarmoured Cable	
	Nominal Area	No./Diam. Of Strand	Approx. Diam. Of Conductor	Thickness	Approx. Overall Diam.	Approx. Weight
	(mm ²)	(no./mm)	(mm)	(mm)	(mm)	(kg/km)
1101B****	10	7/1.35	4.05	0.7	8.5	150
1201B****	16	7/1.70	5.10	0.7	9.5	200
1301B****	25	7/2.14	6.15	0.9	11.5	310
1401B****	35	19/1.53	7.30	0.9	12.5	420
1501B****	50	19/1.78	8.50	1.0	14.0	550
1601B****	70	19/2.14	9.80	1.1	16.3	770
1701B****	95	19/2.52	11.80	1.1	18.2	1040
1801B****	120	37/2.03	13.00	1.2	20.0	1300
1901B****	150	37/2.25	14.40	1.4	22.0	1580
2001B****	185	37/2.52	16.20	1.6	24.5	1970
2101B****	240	61/2.25	18.80	1.7	27.5	2520
2201B****	300	61/2.52	21.20	1.8	30.5	3150
2301B****	400	61/2.85	24.30	2.0	34.0	4000
2401B****	500	61/3.20	28.80	2.2	38.6	5000
2501B****	630	127/2.52	32.76	2.4	43.5	6500
2601B****	800	127/2.85	36.92	2.6	48.5	8200
2701B****	1000	127/3.20	41.60	2.8	53.6	10000

**** stands for branch size, please contact us for more info.
 For technical specification please refer to Table 24 (Page 56)

Table 24 : Prefabricated Branch Cables Size Reference

Main Cable	sqmm ²	25	35	50	70	70	95	120	95	120	150	185	240	185	240	300	400	400	500	630	800	1000
Branch Cable	sqmm ²	6 to 25	6 to 35	6 to 50	6 to 70	35 to 70	6 to 50	6 to 25	70 to 95	35 to 120	6 to 120	6 to 95	6 to 35	120	50 to 120	60 to 150	6 to 50	70 to 150	6 to 185	6 to 185	6 to 185	6 to 185
Reference Size	L	104		130		154				190				213				250		290		
	D	28		35		42				52				66				78		88		
	B	46		58		70				86				100				113		134		



Inspection and Testing:

- Each connection made between the main and branch cable employs a copper "C" type connector and is encapsulated in thermoplastic
- Insulation Resistance value of the system is measured over 200MΩ at the factory
- Cable with connectors can withstand dielectric voltage of 3.5kV for 5 minutes under one meter water pressure
- The DC conductor resistance ratio between the connected cable system and the cables with same length is less than 1.2
- Able to withstand 250 Heat Cycle Test
- Cable system meets flame retardant requirement to IEC 60332

Table 25 : Correction factor for ambient air temperature other than 30°C to be applied to the current-carrying capacities for cables in the air

Ambient temperature °C	Insulation				
	PVC (70°C)	XLPE (90°C)	HT-PVC (90°C)	Rubber (85°C)	Rubber (60°C)
10	1.22	1.15	-	-	-
15	1.17	1.12	-	-	-
20	1.12	1.08	-	-	-
25	1.06	1.04	1.03	1.02	-
30	1.00	1.00	1.00	1.00	1.00
35	0.94	0.96	0.97	0.95	0.91
40	0.87	0.91	0.94	0.90	0.82
45	0.79	0.87	0.91	0.85	0.71
50	0.71	0.82	0.87	0.80	0.58
55	0.61	0.76	0.84	0.74	0.41
60	0.50	0.71	0.80	0.67	-
65	0.35	0.65	0.76	0.60	-
70	-	0.58	0.71	0.52	-
75	-	0.50	0.61	0.43	-
80	-	0.41	0.50	0.30	-
85	-	0.29	0.35	-	-