

## Other Cables

600/1000V Prefabricated Branch Cables  
CU/PVC/PVC or CU/PVC/PVC/AWA/PVC



**Application :** This cable is used for urban networks. It can be installed aerially, in conduit, on open trays and in underground ducts.

- Features :**
- Connecting branches are pre-fabricated and tested in the factory. This eliminates the risk of workmanship error or loss of components during installation.
  - Ease of installation and shorter installation time translates to cost savings. Duration of installation is ~5-10% that of Bus-Duct System
  - Minimum installation skills and labor force is required.
  - Shock resistant due to less chance of loose connection problems
  - Water resistant due to the rigid construction design

**Voltage rating :** 600/1000V

**Construction :** Plain annealed copper, PVC insulated, unarmoured or wires armoured, PVC sheathed cable

**Insulation colour :** Red or Black

**Sheath colour :** Grey or as per order

**Specification :** IEC60502-1, BS6346

Conductor			Insulation	Unarmoured Cable		Armoured Cable	
Nominal Area	No./Dia. Of Strand	Max. Dia. Of Conductor	Thickness	Approx. Overall Dia.	Approx. Weight	Approx. Overall Dia.	Approx. Weight
mm <sup>2</sup>	No./mm	mm	mm	mm	kg/km	mm	kg/km
16	7/1.70	5.10	1	10.4	240	-	-
25	7/2.14	6.42	1.2	11.9	350	-	-
35	19/1.53	7.65	1.2	13.0	460	-	-
50	19/1.78	8.90	1.4	14.9	580	19.3	800
70	19/2.14	10.70	1.4	16.7	820	21.2	1060
95	19/2.52	12.60	1.6	19.1	1100	23.5	1380
120	37/2.03	14.21	1.6	20.9	1360	26.4	1740
150	37/2.25	15.75	1.8	22.8	1660	28.5	2070
185	37/2.52	17.64	2.0	25.3	2060	31.0	2540
240	61/2.25	20.25	2.2	28.8	2680	34.3	3190
300	61/2.52	22.68	2.4	32.3	3340	37.3	3880
400	61/2.85	25.65	2.6	36.2	4250	42.2	4900
500	61/3.20	28.80	2.8	40.1	5300	45.9	6010
630	127/2.52	32.76	2.8	44.2	6700	50.0	7560
800	127/2.85	37.05	2.8	48.5	8400	56.0	9650
1000	127/3.20	41.60	3.0	54.3	10600	61.2	11890

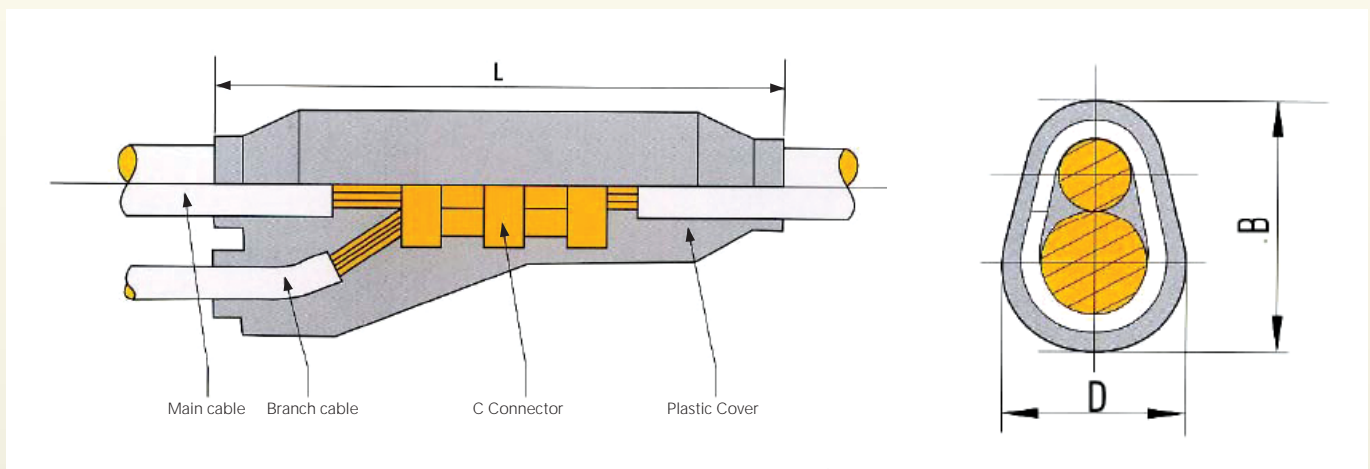
For technical specification please refer to Table 21 (Page 60)

# Technical Data

## Prefabricated Branch Cables

Table 21 : Prefabricated Branch Cables Size Reference

Main Cable	sqmm	25	35	50	70	70	95	120	95	120	150	185	240	185	240	300	400	400	500	630	800	1000
Branch Cable	sqmm	6 to 25	6 to 35	6 to 50	6 to 25	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 200M 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.