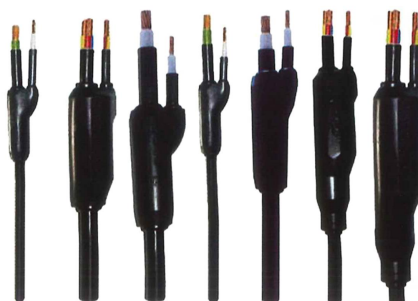


XLPE/PVC or XLPE/LSOH Branch Cable

APPLICATION



Used for residential buildings, office buildings, hotels and restaurants, shopping malls, hospitals and so on, replacing those with bus slots of medium and small capacity.



APPLICABLE STANDARDS

© Cable Design guidelines: BS8573 or BS7889

© Joint Design guidelines: JIS C 2810

DETAILS

Main Cable area mm ²	Branch cable area mm ²									
70	10	16	25	35						
95	10	16	25	35	50					
120	10	16	25	35	50	70				
150	10	16	25	35	50	70				
185	10	16	25	35	50	70	95			
240	10	16	25	35	50	70	95	120		
300	10	16	25	35	50	70	95	120		
400	10	16	25	35	50	70	95	120	150	
500	10	16	25	35	50	70	95	120	150	185
630	10	16	25	h0	50	70	95	120	150	185

XLPE/PVC or XLPE/LSOH Cable Details

Nominal cross sectional area	Approx. overall diameter	Approx. cable weight	Maximum conductor resistance at 20°C	Short circuit rating (1 sec)	Current Rating			Voltage Drop		
					three phase AC flat touch- ing free air	three phase AC trefoil touching free air	three phase AC horizontal flat spaced by one di- ameter free air	three phase AC trefoil flat touching free air	three phase AC flat touch- ing free air	three phase AC horizontal flat spaced by one di- ameter free air
mm²	mm	kg/km	Ohms/km	kA	Amps			mV/A/m		
Single Core										
1.5	6.0	50	12.1	0.20	-	-	-	27	27	27
2.5	6.5	70	7.41	0.35	-	-	-	16	16	16
4	7.0	80	4.61	0.57	-	-	-	10	10	10
6.0	7.5	110	3.08	0.86	-	-	-	6.8	6.8	6.8
10	8.5	150	1.83	1.40	-	-	-	4.0	4.0	4.0
16	9.5	215	1.15	2.20	-	-	-	2.5	2.5	2.5
25	11.5	315	0.727	3.60	141	135	182	1.60	1.60	1.65
35	12.0	415	0.524	5.00	176	169	226	1.15	1.15	1.20
50	13.0	555	0.387	7.10	216	207	275	0.87	0.87	0.89
70	15.0	760	0.268	10.00	279	268	353	0.61	0.62	0.65
95	17.0	1025	0.193	13.60	342	328	430	0.45	0.46	0.49
120	18.5	1270	0.153	17.20	400	383	500	0.37	0.38	0.42
150	21.5	1575	0.124	21.40	464	444	577	0.31	0.32	0.37
185	23.0	1955	0.0991	26.50	533	510	661	0.26	0.28	0.33
240	26.0	2470	0.0754	34.30	634	607	781	0.22	0.24	0.29
300	28.0	3155	0.0601	42.90	736	703	902	0.195	0.21	0.27
400	32.0	4049	0.047	57.20	868	823	1085	0.175	0.195	0.26
500	36.0	5100	0.0366	71.50	998	946	1253	0.160	0.180	0.25
630	40.0	6410	0.0283	90.10	1151	1088	1454	0.150	0.170	0.24
800	47.0	8200	0.0221	114.40	1275	1214	1581	0.130	0.155	0.23
1000	52.0	9860	0.0176	143.00	1436	1349	1775	0.140	0.165	0.24

TEMPERATURE RATING FACTORS

Ambient Temperature °C	25	30	35	40	45	50	55	60	65
Rating Factor	1.02	1.00	0.96	0.91	0.87	0.82	0.76	0.71	0.65

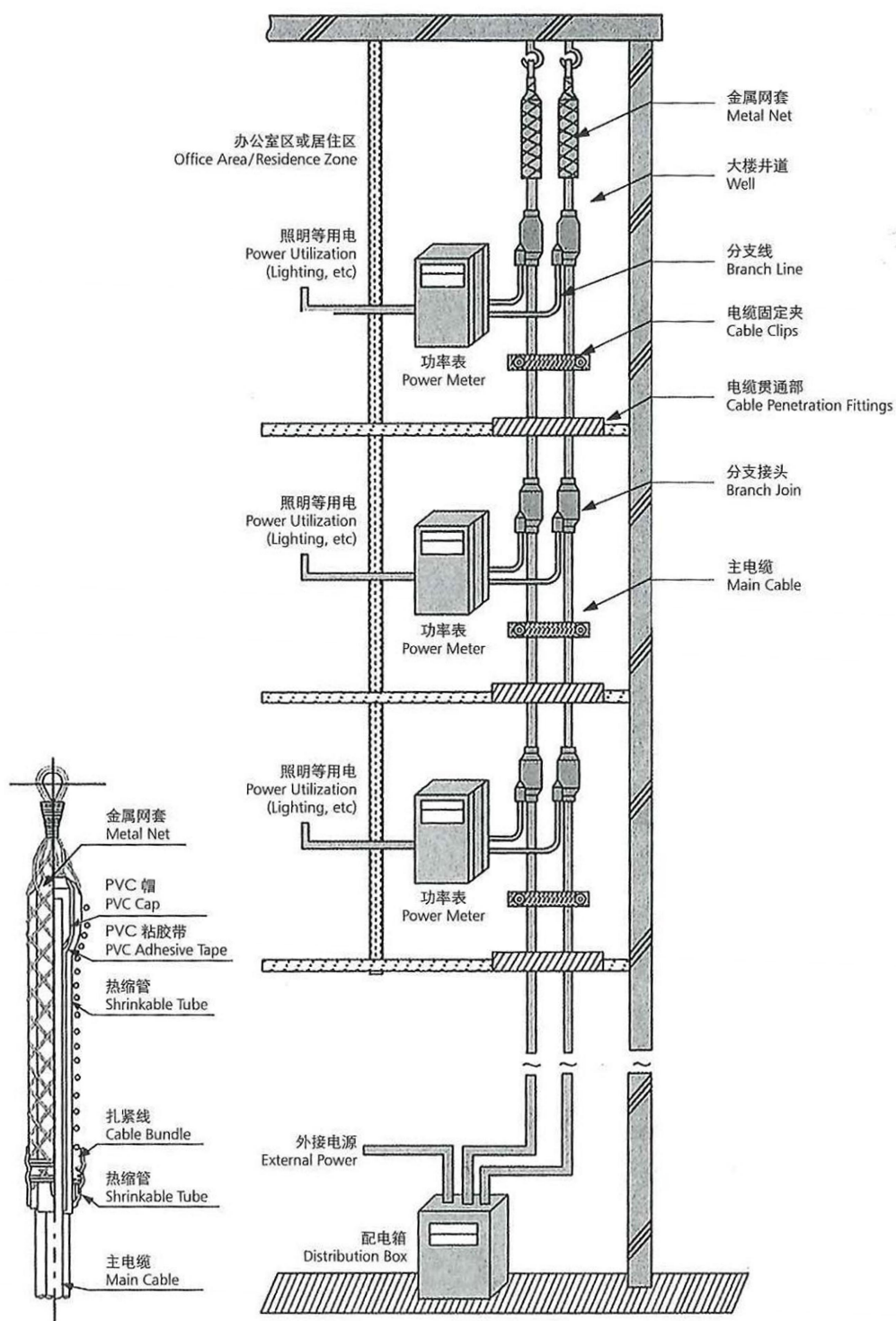
※Note: Ambient Temperature 30°C and Conductor Operation Temperature 90°C

If current rating in buildings is required reference should be made to BS7671 (IEE Wiring Regs)

Complied with the HongKong EMSD COP, and the rating is the average of the conductor cross-sectional area and installation method, and the overall error is within ±5%

五、分支电缆的使用安装方法（简介）

Operation and installation method of branched cables (brief introduction)



(电缆的顶端吊头示意图)

(Schematic diagram of top hanging head)

(分支电缆的安装示意图)

(Schematic diagram for installation of branched cable)

5.1 电缆的敷设施工方法：

垂直干线的预制分支电缆一般应按以下要领进行敷设；

- (1) 将电缆盘放在放线架上（通常电缆盘放在楼下）；
- (2) 提升电缆用的绳索通过牵引机与电缆连接；
- (3) 开动牵引机将电缆提升上去；
- (4) 提升用的电缆网套到达房顶时，将网套挂在事先准备好的吊钩上；
- (5) 对中间部位进行固定；
- (6) 将分支线端头与电流表或断路器相接；
- (7) 进行横相干线或主干线板连接。

5.2 工作注意事项：

- (1) 事先确认运输方法；
- (2) 确认分支部是否能安全通过孔洞；
- (3) 采取预防措施防止提升过程中分支部在贯通孔洞时损伤；
- (4) 提升过程中不要对分支电缆施加张力；
- (5) 使用电缆重量 4 倍以上强度的绳索；
- (6) 事先考虑避雨方法及空盘处理方法；
- (7) 电缆提升完后，应立即将电缆固定；
- (8) 电缆禁止直接使用铁质夹具，

5.1 Laying and construction method of cable

Prefabricated branched cables of vertical cable are generally distributed in accordance with the following points

- (1) To place the cable coil on the cable holder (usually place the cable coil downstairs);
- (2) To connect the rope lifting cable with the cable through the traction machine;
- (3) To start traction machine to lift the cable up;
- (4) When the cable network used for lifting reaches the roof, hang the net on the prepared lifting hook;
- (5) To fix the middle part;
- (6) To connect branch end with ammeter or circuit breaker;
- (7) To connect horizontal trunk or trunk board.

5.2 Precautions:

- (1) To make prior confirmation of transport method;
- (2) To confirm whether the branch can safely come through the hole;
- (3) To undertake preventive measures to prevent the branch suffer any damage coming through the hole in the process of upgrading;
- (4) Not to apply tension to the branched cable during the lifting process;
- (5) To apply a rope that weighs more than 4 times of the cable;
- (6) To consider ways to shelter from rain and to handle blank panel in advance;
- (7) To fix the cable immediately after uplifting;
- (8) To prohibit direct use of iron clamps on cable.

六、订货须知 Ordering instruction

订货时请向生产厂家提供以下资料

- (1) 干线电缆的型号、导体截面及长度，
- (2) 分支电缆的型号、导体截面及长度，
- (3) 是否需要电缆进行末端处理。
- (4) 配电系统图及配电方式（如 3 相 5 线制等）。
- (5) 是否需要配套安装附件等，

Please provide the following information to the manufacturer when ordering.

- (1) The model, conductor cross section, and length of the trunk cable.
- (2) The model, conductor cross section, and length of branch cable.
- (3) Whether to conduct end-of-pipe treatment toward the cable.
- (4) Schematic diagram of distribution system and distribution mode (such as 3-phase 5-wire system, etc.).
- (5) Whether to require installation accessories, etc.