

**PVC INSULATED NON SHEATED SINGLE CORE CABLE**

SPECIFICATION: BS EN 50525-2-31 & IEC 60227-3

**APPLICATION:** These cables are used for the purpose of lighting in residential and commercial building in surface mounted or embedded conduits. Suitable for to earth DC when used for fixed installation inside appliances, switch gear and control gear.

**CONSTRUCTION**

**Conductor** Plain annealed stranded copper class 2 as per IEC 60228.

**Insulation** PVC Type TI 1 Rated 70°C as per BS EN 50363-3.

**Printing Text\*** Example: MESC 1.5mm<sup>2</sup> CU/PVC 450/750 V H07V-R BS EN 50525-2-31 60227 IEC 01 YEAR

**Technical Data:**

**Operating Temperature** -15°C to 70°C  
**Voltage Rating** 450/750V  
**Flame Retardant** IEC 60332-1

**TABLE-1:**  
**Non-Compacted Circular Conductor:**

SERIAL NO.	MESC MODEL NO.	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	7111-01C00150-U0BK8-00	1.5	7	0.7	3.1	22
2	7111-01C00250-U0BK8-00	2.5	7	0.8	3.7	34
3	7111-01C00400-U0BK8-00	4	7	0.8	4.2	51
4	7111-01C00600-U0BK8-00	6	7	0.8	4.8	71
5	7111-01C01000-U0BK8-00	10	7	1.0	7.2	119
6	7111-01C01600-U0BK8-00	16	7	1.0	7.2	170
7	7111-01C02500-U0BK8-00	25	7	1.2	8.9	285
8	7111-01C03500-U0BK8-00	35	7	1.2	10.1	380
9	7111-01C05000-U0BK8-00	50	19	1.4	11.8	509
10	7111-01C07000-U0BK8-00	70	19	1.4	13.6	720
11	7111-01C09500-U0BK8-00	95	19	1.6	16.0	990
12	7111-01C12000-U0BK8-00	120	37	1.6	17.6	1227
13	7111-01C15000-U0BK8-00	150	37	1.8	19.5	1510
14	7111-01C18500-U0BK8-00	185	37	2.0	21.8	1890
15	7111-01C24000-U0BK8-00	240	37	2.2	24.4	2385
16	7111-01C30000-U0BK8-00	300	61	2.4	27.2	2990
17	7111-01C40000-U0BK8-00	400	61	2.6	30.2	3750
18	7111-01C50000-U0BK8-00	500	61	2.8	34.0	4750
19	7111-01C63000-U0BK8-00	630	91	2.8	38.0	6100
20	7111-01C80000-U0BK8-00	800	91	2.8	42.7	7900
21	7111-1C100000-U0BK8-00	1000	91	3.0	47.6	9900

**TABLE-2:**  
**Compacted Circular Conductor:**

SERIAL NO.	MESC MODEL NO.	SIZE (mm <sup>2</sup> )	NO OF STRANDS	INSULATION THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	71D1-01C01600-U0BK8-00	16	7	1.0	6.6	165
2	71D1-01C02500-U0BK8-00	25	7	1.2	8.2	265
3	71D1-01C03500-U0BK8-00	35	7	1.2	9.3	355
4	71D1-01C05000-U0BK8-00	50	7	1.4	11.0	485
5	71D1-01C07000-U0BK8-00	70	19	1.4	12.6	675
6	71D1-01C09500-U0BK8-00	95	19	1.6	14.8	935
7	71D1-01C12000-U0BK8-00	120	19	1.6	16.2	1165
8	71D1-01C15000-U0BK8-00	150	19	1.8	18.1	1420
9	71D1-01C18500-U0BK8-00	185	37	2.0	20.1	1785
10	71D1-01C24000-U0BK8-00	240	37	2.2	22.7	2335
11	71D1-01C30000-U0BK8-00	300	37	2.4	25.3	2890
12	71D1-01C40000-U0BK8-00	400	61	2.6	28.8	3695
13	71D1-01C50000-U0BK8-00	500	61	2.8	32.0	4715
14	71D1-01C63000-U0BK8-00	630	61	2.8	35.5	6060
15	71D1-01C80000-U0BK8-00	800	61	2.8	39.3	7850
16	71D1-1C100000-U0BK8-00	1000	61	3.0	44.3	9845

**Available Colors:** "BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.  
**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet. Other lengths are available upon request.

\*IEC 60227-1 standard is applicable for size 1.5mm<sup>2</sup> to 400 mm<sup>2</sup>.  
Above 400mm<sup>2</sup> are covered in only BS EN 50525-2-31, hence printing shall not be mark with "60227 IEC 01".