

**HO7V-K**

**NYAF**

**IEC-60227**

<b>Application:</b>	These cables are used for the purpose of lighting in residential and commercial building in surface mounted or embedded conduits. Suitable for voltages up to 1000 AC or up to 750 to earth DC when used for fixed installation inside appliances, switchgear and control gear.
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**Specification: BS-6500, BS-6004, VDE-0250 & IEC-227-3**

**CONSTRUCTION:**

<b>1. Conductor</b>	Plain annealed flexible copper stranded as per class 5 of IEC-228.
<b>2. Insulation</b>	PVC type TI 1 of BS-6746
<b>3. Printing Legend Example</b>	MESC FLEXIBLE CU/PVC 1.5 450/750 V 70C

**TECHNICAL DATA:**

<b>1. Temperature range</b>	- 25°C to + 70°C
<b>2. Working voltage</b>	300/500 V. up to 1.0 mm <sup>2</sup> , 450/750 V. for 1.5 mm <sup>2</sup> and above.
<b>3. Conductor resistance</b>	As per class 5 of IEC-228.
<b>4. Flame retardance</b>	IEC-60332-1

**Current Carrying Capacity at 30°C in Free Air.**

Area (mm <sup>2</sup> )	One Phase (A)	Three Phase (A)	Area (mm <sup>2</sup> )	One Phase (A)	Three Phase (A)
1.0	17	16	35	145	130
1.5	21	20	50	175	160
2.5	30	26	70	220	200
4	40	36	95	270	240
6	50	45	120	310	280
10	68	61	150	355	320
16	90	81	185	405	365
25	118	106			

Ambient temperature	35	40	45	50	55	60	65
Correction factor	0.94	0.87	0.79	0.71	0.61	0.50	0.35

*Packing: Up to sizes 35mm<sup>2</sup> shrunk wrapped coils of 100 Yards. For 50mm<sup>2</sup> and above 500/1000 Meter on wooden drum.*

M E S C

**DIMENSION AND WEIGHT DETAILS:**

SL/NO.	*MESC CODE (for BLACK color)	SIZE (Sq. mm)	MAXIMUM STRANDS DIAMETER (mm)	INSULATION THICKNESS (mm)	APPROX. O. D. (mm)	APPROX WEIGHT (kg/km)
	5181-01C00050-U0BK1-00	0.5	0.21	0.6	2.2	9
	5181-01C00075-U0BK1-00	0.75	0.21	0.6	2.4	12
	5181-01C00100-U0BK1-00	1.0	0.21	0.6	2.6	15
	5181-01C00150-U0BK1-00	1.5	0.26	0.7	3.0	21
	5181-01C00250-U0BK1-00	2.5	0.26	0.8	3.6	33
	5181-01C00400-U0BK1-00	4	0.31	0.8	4.1	49
	5181-01C00600-U0BK1-00	6	0.31	0.8	4.6	69
	5181-01C01000-U0BK1-00	10	0.41	1.0	6.1	116
	5181-01C01600-U0BK1-00	16	0.41	1.0	7.8	173
	5181-01C02500-U0BK1-00	25	0.41	1.2	9.7	266
	5181-01C03500-U0BK1-00	35	0.41	1.2	10.9	364
	5181-01C05000-U0BK8-00	50	0.41	1.4	13.1	520
	5181-01C07000-U0BK8-00	70	0.51	1.4	15.2	756
	5181-01C09500-U0BK8-00	95	0.51	1.6	17.3	996
	5181-01C12000-U0BK8-00	120	0.51	1.6	19.2	1257
	5181-01C15000-U0BK8-00	150	0.51	1.8	21.5	1572
	5181-01C18500-U0BK8-00	185	0.51	2.0	24.0	1964
	5181-01C24000-U0BK8-00	240	0.51	2.2	27.5	2490
	5181-01C30000-U0BK8-00	300	0.51	2.4	30.0	2967

*Packing: Up to sizes 35 Sq.mm - Shrinked wrapped coils of 100 Yards.  
For 50mm<sup>2</sup> and above 500/1000 Meter on wooden drums.*

*\*Colors: For other colors than black, please replace "BK" in the MESC code by "BL" for blue, "BN" for brown, "GY" for Grey, "RD" for red, "WT" for white "YL" for Yellow, "OR" for orange, "PK" for Pink, "VT" for violet, "TR" for Turquoise, "GN" for green and "YG" for Green/Yellow*

