

PVC INSULATED NON SHEATHED SINGLE CORE CABLE

H05V-K, H07V-K(70°C)
H07V2-K(90°C)

NYAF

IEC-60227-2

Specification : BS-6500, BS-6004 & 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 voltages upto 1000 AC or upto 750 to to earth DC when used for fixed installation inside appliances, switchgear and controlgear.

Construction

- Conductor
- : Plain annealed flexible copper stranded as per class 5 of IEC-60228.
- Insulation
- : PVC type TI 1 as per BS-7655 (H05V-K,H07V-K)
PVC type TI 3 as per BS-7655 (H07V2-K)

Technical Data

- Temperature range
- : H05V-K, H07V-K(70°C). H07V2-K.(90°C)
- Working voltage
- : 300/500 V. upto 1.0 mm², 450/750 V. for 1.5 mm and above.
- Conductor resistance
- : As per class 5 of IEC-60228.
- Flame retardance
- : IEC-60332-1

Current Carrying Capacity at 30°C in free air

Area (mm ²)	One Phase (A)	Three Phase (A)	Area (mm ²)	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: Upto sizes 35mm² shrinked wrapped coils of 100 Yards. For 50mm² and above 500/1000 Meter on wooden drum.

PVC INSULATED NON SHEATHED SINGLE CORE CABLE

H05V-K, H07V-K

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IEC-60227-2

Order No.	MESC CODE	SIZE (Sq. mm)	STRANDX DIA NO. X MM	INSULATION THICKNESS (mm)	APPROX. O. D. (mm)	APPROX WEIGHT Kg / Km
51001	5181-01C 00050-U0BK1-00	0.5	16 X 0.2	0.6	2.2	9
51002	5181-01C 00075-U0BK1-00	0.75	24 X 0.2	0.6	2.4	12
51003	5181-01C 00100-U0BK1-00	1.0	32 X 0.2	0.6	2.6	15
51004	5181-01C 00150-U0BK1-00	1.5	30 X 0.25	0.7	3.0	21
51005	5181-01C 00250-U0BK1-00	2.5	50 X 0.25	0.8	3.6	33
51006	5181-01C 00400-U0BK1-00	4	56 X 0.3	0.8	4.2	49
51007	5181-01C 00600-U0BK1-00	6	84 X 0.3	0.8	4.8	69
51008	5181-01C 01000-U0BK1-00	10	80 X 0.4	1.0	6.1	116
51009	5181-01C 01600-U0BK1-00	16	126 X 0.4	1.0	7.1	173
51010	5181-01C 02500-U0BK1-00	25	196 X 0.4	1.2	8.8	266
51011	5181-01C 03500-U0BK1-00	35	276 X 0.4	1.2	10.0	364
51012	5181-01C 05000-U0BK8-00	50	396 X 0.4	1.4	11.9	520
51013	5181-01C 07000-U0BK8-00	70	360 X 0.5	1.4	13.9	756
51014	5181-01C 09500-U0BK8-00	95	475 X 0.5	1.6	15.9	996
51015	5181-01C 12000-U0BK8-00	120	608 X 0.5	1.6	17.6	1257
51016	5181-01C 15000-U0BK8-00	150	760 X 0.5	1.8	19.7	1572
51017	5181-01C 18500-U0BK8-00	185	950 X 0.5	2.0	21.9	1964

For colours other than Black, please replace BK in the code by "BL" for Blue, "BN" for brown, "GN" for Green, "GY" for Grey, "OR" for Orange, "PK" for Pink, "RD" for Red, "TR" for Turquoise, "VT" for Violet, "WT" for White, "YG" for Yellow/green and "YL" for Yellow.

H07V2-K (90¹/₄C)

Order No.	MESC CODE	SIZE (Sq. mm)	STRANDX DIA NO. X MM	INSULATION THICKNESS (mm)	APPROX. O. D. (mm)	APPROX WEIGHT Kg / Km
51018	5C81-01C 00150-U0BK1-00	1.5	30x0.25	0.7	3.0	21
51019	5C81-01C 00250-U0BK1-00	2.5	50x0.25	0.8	3.6	33
51020	5C81-01C 00400-U0BK1-00	4	56x0.3	0.8	4.2	49
51021	5C81-01C 00600-U0BK1-00	6	84x0.3	0.8	4.8	69
51022	5C81-01C 01000-U0BK1-00	10	80x0.4	1.0	6.1	116
51023	5C81-01C 01600-U0BK1-00	16	126x0.4	1.0	7.1	173
51024	5C81-01C 02500-U0BK1-00	25	196x0.4	1.2	8.8	266
51025	5C81-01C 03500-U0BK1-00	35	276x0.4	1.2	10.0	364
51026	5C81-01C 05000-U0BK8-00	50	396x0.4	1.4	11.9	520
51027	5C81-01C 07000-U0BK8-00	70	360x0.5	1.4	13.9	756
51028	5C81-01C 09500-U0BK8-00	95	475x0.5	1.6	15.9	996
51029	5C81-01C 12000-U0BK8-00	120	608x0.5	1.6	17.6	1257
51030	5C81-01C 15000-U0BK8-00	150	760x0.5	1.8	19.7	1572
51031	5C81-01C 18500-U0BK8-00	185	950x0.5	2.0	21.9	1964

Packing: upto Sizes 35mm² Shrunk wrapped coils of 100 yards. for 50m² and above 500/1000 meter on wooden drums.