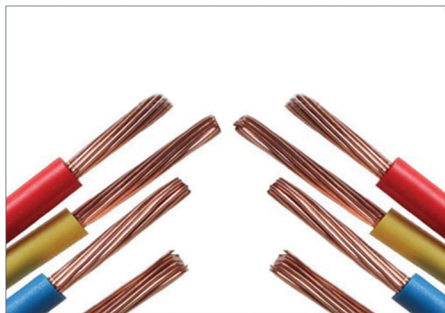


PVC INSULATED NON SHEATHED SINGLE CORE CABLE

H05V-U, H07V-U, H07V-RNYAIEC-60227-1

H07V2-U, H07V2-R(90°C)

Specification : 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 up to 750 to earth DC when used for fixed installation inside appliances,switchgear and controlgear.

Construction

- Conductor
- : Plain annealed copper solid as per class 1 of IEC-60228 or stranded as per class 2 of IEC-60228. H05V-U and H07V-U correspond to solid conductor. H07V-R corresponds to stranded conductor.
- Insulation
- : PVC type TI 1 as per BS-7655 (H05V-U,H07V,H07V2-R)
PVC type TI 3 as per BS-7655 (H07V2,H07V2-R)

Technical Data

- Temperature range
- : H05V-U, H07V-R(70°C). H07V2-U,H07V2-R(90°C)
- Working voltage
- : 300/500 V. upto 1.0 mm² , 450/750 V. for 1.5 mm² and above.
- Conductor resistance
- : As per class 1 or 2 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			

Correction factors for ambient temperature.

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 35 mm² shrinked wrapped coils of 100 yards. For 50 mm² and above 500/1000 Meter on Wooden drums.

PVC INSULATED NON SHEATHED SINGLE CORE CABLE

H05V-U, H07V-U, H07V-R(70^{1/4}C)

NYA

IEC-60227-01

Order No.	MESC CODE	SIZE Sq. mm	STRAND X DIA NO. X mm	INSULATION THICKNESS mm	APPROX. O. D. mm	APPROX. WEIGHT KG/KM
71001	7161-01C00050-U0BK1-00	0.5	1 X 0.8	0.6	2.1	9
71002	7161-01C00075-U0BK1-00	0.75	1 X 0.98	0.6	2.2	11
71003	7161-01C00100-U0BK1-00	1	1 X 1.13	0.6	2.4	14
71004	7161-01C00150-U0BK1-00	1.5	1 X 1.38	0.7	2.9	21
71005	7111-01C00150-U0BK1-00	1.5	7 X 0.53	0.7	3.1	22
71006	7161-01C00250-U0BK1-00	2.5	1 X 1.78	0.8	3.5	33
71007	7111-01C00250-U0BK1-00	2.5	7 X 0.67	0.8	3.7	34
71008	7161-01C00400-U0BK1-00	4	1 X 2.25	0.8	3.9	48
71009	7111-01C00400-U0BK1-00	4	7 X 0.85	0.8	4.2	51
71010	7161-01C00600-U0BK1-00	6	1 X 2.76	0.8	4.4	67
71011	7111-01C00600-U0BK1-00	6	7 X 1.04	0.8	4.8	71
71012	7111-01C01000-U0BK1-00	10	7 X 1.35	1.0	6.2	119
71013	7111-01C01600-U0BK1-00	16	7 X 1.7	1.0	7.2	179
71014	7111-01C02500-U0BK1-00	25	7 X 2.14	1.2	8.9	281
71015	7111-01C03500-U0BK1-00	35	7 X 2.52	1.2	10.1	379
71016	7111-01C05000-U0BK8-00	50	19 X 1.78	1.4	11.8	509
71017	7111-01C07000-U0BK8-00	70	19 X 2.14	1.4	13.6	717
71018	7111-01C09500-U0BK8-00	95	19 X 2.52	1.6	16.0	990
71019	7111-01C12000-U0BK8-00	120	37 X 2.03	1.6	17.6	1227
71020	7111-01C15000-U0BK8-00	150	37 X 2.25	1.8	19.5	1510
71021	7111-01C18500-U0BK8-00	185	37 X 2.52	2.0	21.8	1892

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.

H05V-U, H07V-U, H07V2-R(90^{1/4}C)

Order No.	MESC CODE	SIZE Sq. mm	STRAND X DIA NO. X mm	INSULATION THICKNESS mm	APPROX. O. D. mm	APPROX. WEIGHT KG/KM
71022	7C61-01C00150-U0BK1-00	1.5	1x1.38	0.7	2.9	21
71023	7C11-01C00150-U0BK1-00	1.5	7x0.53	0.7	3.1	22
71024	7C61-01C00250-U0BK1-00	2.5	1x1.78	0.8	3.5	33
71025	7C11-01C00150-U0BK1-00	2.5	7x0.67	0.8	3.7	34
71026	7C11-01C00400-U0BK1-00	4	7x0.85	0.8	4.2	51
71027	7C11-01C00600-U0BK1-00	6	7x1.04	0.8	4.8	71
71028	7C11-01C01000-U0BK1-00	10	7x1.35	1.0	6.2	119
71029	7C11-01C01600-U0BK1-00	16	7x1.7	1.0	7.2	179
71030	7C11-01C02500-U0BK1-00	25	7x2.14	1.2	8.9	281
71031	7C11-01C03500-U0BK1-00	35	7x2.52	1.2	10.1	379
71032	7C11-01C05000-U0BK8-00	50	19x1.78	1.4	11.8	509
71033	7C11-01C07000-U0BK8-00	70	19x2.14	1.4	13.6	717
71034	7C11-01C09500-U0BK8-00	95	19x2.52	1.6	16.0	990
71035	7C11-01C12000-U0BK8-00	120	37x2.03	1.6	17.6	1227
71036	7C11-01C15000-U0BK8-00	150	37x2.25	1.6	19.5	1510