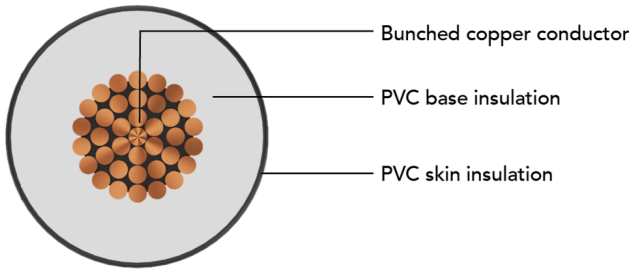
POLYCAB 01Y-K SC
Industrial Flexible Cables 1100 V AC



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB 01Y-K SC, PVC insulated unsheathed cable confirming to IS 694 is suitable to use in electric power, lighting & panel wiring for indoor and outdoor use in AC single phase or three phase (earthed or unearthed) systems with rated voltage up to and including 1100 V. This cable is also suitable for DC systems with rated voltage up to and including 1500 V to earth.

CHARACTERISTICS

Voltage Rating
1100 V

Operation Temperature
Fixed: -15°C to 70° C
Bending Radius
Fixed 4 x Overall Diameter
Occasional 6 x Overall Diameter

CONSTRUCTION

- Annealed bunched copper conductor as per IS 8130, class 5
- Insulated with FR-PVC Type D as per IS 5831

Core Identification
Red/Black/Blue/Yellow/White/Grey.
Test Voltage
3kV AC

OUTSTANDING FEATURES

- Optimized current carrying capacity
- Fire retardant and safe for protection
- Low emission of toxic gas
- Low carbon emission
- Low volatile organic content-less contamination
- High conductivity electrolytic copper conductor

STANDARD FOLLOWS

IS 8130
IS 5831
IS 694
IEC 60332-1-2

COMPLIANCE

Conductor resistance - IS 8130
Insulation resistance - IS 5831:1984
Flammability test - IEC 60332-1-2
Anti-Termite and anti-Rodent

OUR ACCREDITATIONS

APPROVAL

NOTES

- The above cable is also available in HR PVC insulation with maximum operating temperature of 85°C.
- Outer sheath with additional properties of FR & FRLSH are also available.
- The cable is also available with tinned copper conductor.

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POLYCAB
IDEAS. CONNECTED.

WEIGHT & DIMENSION DATA

Product Code	Nominal cross sectional area mm²	insulation thickness mm	Overall Diameter (Approx.) mm	Weight (Approx.)
LDIS09CYUAYF001C0.5S	0.5	0.6	2.10	9
LDIS09CYUAYF001C.75S	0.75	0.6	2.30	11
LDIS09CYUAYF001C001S	1	0.6	2.50	14
LDIS09CYUAYF001C1.5S	1.5	0.6	2.80	19
LDIS09CYUAYF001C2.5S	2.5	0.7	3.40	31
LDIS09CYUAYF001C004S	4	0.8	4.20	46
LDIS09CYUAYF001C006S	6	0.8	4.70	65
LDIS09CYUAYF001C010S	10	1	6.10	114
LDIS09CYUAYF001C016S	16	1	7.10	171
LDIS09CYUAYF001C025S	25	1.2	8.80	264
LDIS09CYUAYF001C035S	35	1.2	10.00	362
LDIS09CYUAYF001C050S	50	1.4	11.90	517
LDIS09CYUAYF001C070S	70	1.4	13.60	711
LDIS09CYUAYF001C095S	95	1.6	15.70	961
LDIS09CYUAYF001C120S	120	1.6	17.30	1199
LDIS09CYUAYF001C150S	150	1.8	19.20	1474
LDIS09CYUAYF001C185S	185	2	21.50	1851
LDIS09CYUAYF001C240S	240	2.2	24.20	2369
LDIS09CYUAYF001C300S	300	2.4	27.10	2984

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Electrical Characteristics

Current carrying capacity and maximum DC conductor resistance.

Nominal cross-sectional area	Reference method B(enclosed in conduit on a wall or in trunking etc)		Reference method C (clipped direct)		Reference method F (in free air or on a perforated cable tray horizontal or vertical)					Maximum DC conductor resistance at 20°C
					Touching			Spaced by one meter		
	2 cables single phase AC or DC	3 or 4 cables three phase AC	2 cables single phase AC or DC flat and touching	3 or 4 cables three phase AC flat and touching or trefoil	2 cables single phase AC or DC flat	3 cables three phase AC flat	3 cables three phase AC trefoil	2 cables ,single-phase AC or DC or 3 cables three phase AC flat Hori zontal	Verti cal	
mm²	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Ω/km
0.5	4	3.6	4	3.6	-	-	-	-	-	39
0.75	7	6	7	6	-	-	-	-	-	26
1	11	10	13	12	-	-	-	-	-	19.5
1.5	14	13	17	15	-	-	-	-	-	13.3
2.5	20	17	22	21	-	-	-	-	-	7.98
4	26	23	31	27	-	-	-	-	-	4.95
6	34	30	39	36	-	-	-	-	-	3.3
10	47	41	54	49	-	-	-	-	-	1.91
16	63	56	72	65	-	-	-	-	-	1.21
25	85	75	96	88	111	96	93	123	110	0.78
35	105	93	119	109	137	121	116	153	137	0.554
50	127	113	154	141	165	147	141	185	166	0.386
70	162	144	197	181	212	190	182	237	214	0.272
95	196	175	240	220	257	232	223	288	262	0.206
120	227	202	278	256	297	271	260	334	305	0.161
150	253	221	322	295	343	314	300	385	354	0.129
185	288	250	368	338	391	360	345	440	405	0.106
240	338	292	435	398	461	428	409	519	480	0.0801
300	387	332	501	460	531	495	473	598	556	0.0641

Ambient temperature: 40°C,
Conductor operating temperature: 70°C
The above table is in accordance with BS 7671 (Table 4D1A)

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De-Rating Factor

De-rating factor at various ambient temperature other than 40°C.

Ambient Temperature	35°C	40°C	45°C	50°C	55°C	60°C	65°C
De-Rating Factor	1.08	1	0.91	0.82	0.7	0.57	0.4