

Polycab offers a comprehensive range of industrial cable in compliance with BIS specification & standard.



These are low voltage cable of 1100 V grade and widely used in building, Hospitals, Industrial parks and schools for major power supply. These cables are available with thermoplastic PVC compound having temperature rating of 70° C to 85°C.

Conductor: High conductivity annealed plain bunched/stranded copper conductor produced inhouse from state-of-the art Contirod line.

Insulation: Inhouse developed high insulation resistance thermoplastic PVC compound.

Sheath: The insulated cores are laid up to form circular core assembly, sheathing is provided with specially formulated PVC compound to facilitate stripping and withstand mechanical abrasion while in use.

Polycab assures the highest quality standard in every product by having stringent quality control with requisite testing which are applied at every single stage from raw material to finished goods.

The construction is based on the application and requirement of the user against IS 694.



[POLYCAB 01Y-R SC - Industrial Cables 1100 V AC](#)



[POLYCAB 01Y-K SC - Industrial Flexible Cables 1100 V AC](#)



[POLYCAB 02YY-K - Industrial Cable and Cords, 1100 V AC](#)



[POLYCAB 02YY-K MC - Industrial Cable, 1100 V AC](#)



[POLYCAB 02YY-R - Industrial Cable, 1100 V AC](#)



[POLYCAB 02AYY – 2 CORE FLAT - Service Cable, 1100 V AC](#)



[POLYCAB 02YY-K Submersible - Industrial cables, 1100 V AC](#)



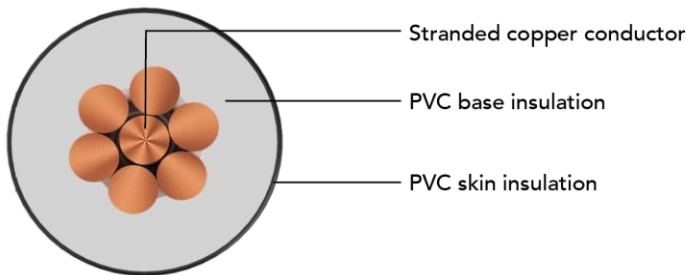
[POLYCAB 01Y-K FLAT & TWISTED - Twin twisted & Flat, 1100 V AC](#)



[POLYCAB 02YY-K - Industrial cable, 1100 V AC](#)

POLYCAB 01Y-R SC

Industrial Cables 1100 V AC



Salient Features:

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

Application

POLYCAB 01Y-R SC PVC cable, PVC insulated unsheathed cable confirming to IS 694 is suitable to use in electric power, lighting & panel wiring for indoor 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.

Voltage Rating

1100 V

Operation Temperature

Fixed: -15°C to 70° C

Construction

- Annealed stranded plain copper conductor as per IS 8130, class 2
- Insulated with FR-PVC Type A as per IS 5831

Core Identification

Red/Black/Blue/Yellow/White/Grey.

Bending Radius

Fixed 4 x Overall Diameter
Occasional 6 x Overall Diameter

Standard and References

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

Test Voltage

3kV AC

Compliance

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

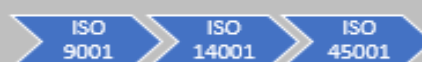
Approvals



Note:

- 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.

OUR ACCREDITATION



POLYCAB 01Y-R SC

Industrial Cables 1100 V AC

Product Code	Nominal cross-sectional area mm ²	insulation thickness mm	Overall Diameter (Approx.) mm	Weight (Approx.)
LDIS09CYUAYF001C001S	1	0.7	2.70	15
LDIS09CYUAYF001C1.5S	1.5	0.7	3.00	21
LDIS09CYUAYF001C2.5S	2.5	0.8	3.60	32
LDIS09CYUAYF001C004S	4	0.8	4.20	49
LDIS09CYUAYF001C006S	6	0.8	4.70	68
LDIS09CYUAYF001C010S	10	1	6.10	114
LDIS09CYUAYF001C016S	16	1	7.10	171
LDIS09CYUAYF001C025S	25	1.2	8.90	270
LDIS09CYUAYF001C035S	35	1.2	10.00	364
LDIS09CYUAYF001C050S	50	1.4	11.90	519
LDIS09CYUAYF001C070S	70	1.4	13.50	706
LDIS09CYUAYF001C095S	95	1.6	15.70	959
LDIS09CYUAYF001C120S	120	1.6	17.30	1198
LDIS09CYUAYF001C150S	150	1.8	19.30	1497
LDIS09CYUAYF001C185S	185	2	21.50	1848
LDIS09CYUAYF001C240S	240	2.2	24.30	2387
LDIS09CYUAYF001C300S	300	2.4	27.10	2981
LDIS09CYUAYF001C400S	400	2.6	30.80	3927
LDIS09CYUAYF001C500S	500	2.8	34.40	4929
LDIS09CYUAYF001C630S	630	3	38.30	6188

OUR ACREDITATION



POLYCAB 01Y-R SC

Industrial Cables 1100 V AC

Electrical Characteristics

Current carrying capacity and maximum DC conductor resistance.

Nominal cross sectional area mm ²	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 Ω/km
	2 cables single phase AC or DC Amp.	3 or 4 cables three phase AC Amp.	2 cables single phase AC or DC flat and touching Amp.	3 or 4 cables three phase AC flat and touching or trefoil Amp.	Touching			Spaced by one meter		
					2 cables single phase AC or DC flat Amp.	3 cables three phase AC flat Amp.	3 cables three phase AC trefoil Amp.	2 cables ,single-phase AC or DC or 3 cables three phase AC flat		
								Horizontal Amp.	Vertical Amp.	
1	12	10	13	12	-	-	-	-	-	18.1
1.5	15	13	17	16	-	-	-	-	-	12.1
2.5	21	18	23	22	-	-	-	-	-	7.41
4	28	24	32	29	-	-	-	-	-	4.61
6	36	31	41	37	-	-	-	-	-	3.08
10	50	44	57	51	-	-	-	-	-	1.83
16	66	59	76	69	-	-	-	-	-	1.15
25	88	77	99	90	114	99	96	127	113	0.727
35	109	96	123	112	141	124	119	157	141	0.524
50	131	117	158	145	171	151	145	191	171	0.387
70	167	149	204	186	218	196	188	244	221	0.268
95	202	180	247	227	264	239	230	297	271	0.193
120	234	208	287	264	306	279	268	345	315	0.153
150	261	228	331	304	353	324	310	397	365	0.124
185	297	258	379	348	403	371	356	453	418	0.0991
240	348	301	448	411	475	441	422	535	495	0.0754
300	398	343	517	474	547	511	488	617	573	0.0601
400	475	406	604	552	656	599	571	741	692	0.047
500	545	464	689	629	755	686	652	854	800	0.0366
630	626	532	786	719	874	787	744	990	931	0.0283

Ambient temperature: 40°C

Conductor operating temperature: 70°C

The above table is in accordance with BS 7671(Table 4D1A)

De-Rating Factor

De-rating factor at various air temperature.

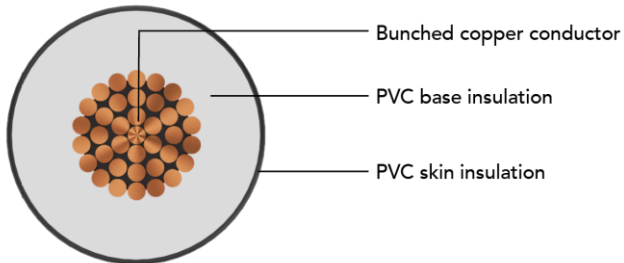
Ambient Temperature	45°C	50°C	55°C	60°C	65°C
De-Rating Factor	0.91	0.82	0.71	0.58	0.41

OUR ACCREDITATION



POLYCAB 01Y-K SC

Industrial Flexible Cables 1100 V AC



Salient Features:

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

Application

POLYCAB 01Y-K SC, PVC insulated unsheathed cable conforming 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.

Voltage Rating

1100 V

Operation Temperature

Fixed: -15°C to 70°C

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.

Bending Radius

Fixed 4 x Overall Diameter
Occasional 6 x Overall Diameter

Standard and References

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

Test Voltage

3kV AC

Compliance

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

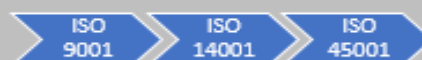
Approval



Note:

- 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.

OUR ACCREDITATION



POLYCAB 01Y-K SC

Industrial Flexible Cables 1100 V AC

Product Code	Nominal cross sectional area mm ²	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	0.7	4.00	46
LDIS09CYUAYF001C006S	6	0.7	4.50	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

OUR ACREDITATION



POLYCAB 01Y-K SC

Industrial Flexible Cables 1100 V AC

Electrical Characteristics

Current carrying capacity and maximum DC conductor resistance.

Nominal cross-sectional area mm ²	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 Ω/km
	2 cables single phase AC or DC Amp.	3 or 4 cables three phase AC Amp.	2 cables single phase AC or DC flat and touching Amp.	3 or 4 cables three phase AC flat and touching or trefoil Amp.	Touching			Spaced by one meter		
					2 cables single phase AC or DC flat Amp.	3 cables three phase AC flat Amp.	3 cables three phase AC trefoil Amp.	2 cables ,single-phase AC or DC or 3 cables three phase AC flat		
								Hori zontal Amp.	Verti cal Amp.	
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)

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

OUR ACREDITATION

