

Polycab Industrial Screened cable generally confirming to IEC 60227-7 standard.



These are low voltage cable of 300/500 V, 450/750 V grade and suitable to use in plant engineering, industrial machineries, heating and air conditioning system, conveyor transport system where EMC (electromagnetic compatibility) is prime importance. These cables are available with thermoplastic insulation compound having temperature rating of 70° C.

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

Insulation: Inhouse developed high insulation resistant PVC (Polyvinyl Chloride) compound.

Inner Sheath: PVC (Polyvinyl Chloride) inner sheath over laid-up cores and below the braiding.

Braiding: Tinned copper wire braiding over the inner sheath

Sheath: Sheathing is provided with specially formulated transparent PVC compound to facilitate 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.

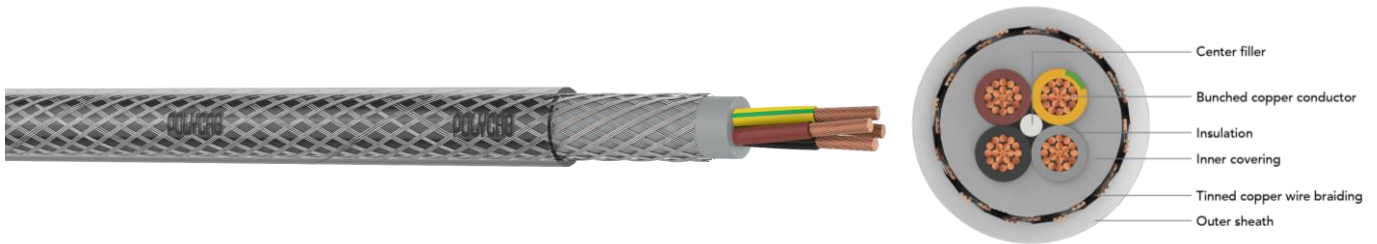
The construction is based on the application and requirement of the user against IEC 60227-7.



[POLYCAB 110 CY, IEC 60227-7 - Screened Control Cable, 300/500 V AC](#)

POLYCAB 110 CY, IEC 60227-7

Screened Control Cable, 300/500 V AC



Application

POLYCAB 110 CY cable is suitable to use in plant engineering, Industry machinery, heating & air conditioning system, conveyor & transport system where EMC (electromagnetic compatibility) is prime importance.

Voltage Rating

300/500 V

Operation Temperature

Fixed: -5°C to 70°C

Construction

- Bunched bare copper conductor as per IEC 60228, class 5
- Insulated with PVC Type D to IEC 60227
- PVC inner sheath, Grey
- Tinned copper wire braiding
- Sheathed with transparent PVC

Core Identification

Two core	Blue & Brown
Three core	Green/yellow, blue, brown Or Brown, Black, Grey
Four core	Green/Yellow, Brown, Black, Grey Or Blue, Brown, Black, Grey
Five core	Green/Yellow, Blue, Brown, Black and Grey Or Blue, Brown, Black Grey, Black
More than 5 core	Green/yellow, Black with numbering Or Black with numbering

Bending Radius

Fixed installation	10 x Overall diameter
Occasional	12 x Overall diameter

Standard and References

IEC 60228
IEC 60227
IEC 60332-1-2

Compliance

Conductor resistance	- IEC 60228
Insulation resistance	- IEC 60227
Flame retardance	- IEC 60332-1
Mineral oil resistance	- IEC 60811-1-2

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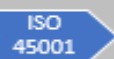


POLYCAB 110 CY, IEC 60227-7

Screened Control Cable, 300/500 V AC

Product Code	Construction n x mm ²	Insulation thickness mm	Overall diameter mm	Weight (Approx.) kg/km
BCIE04CYTBYT002C0.5S	2 X 0.5	0.6	6.8	74
BCIE04CYTBYT003C0.5S	3 G 0.5	0.6	7.2	83
BCIE04CYTBYT003C0.5S	3 X 0.5	0.6	7.2	83
BCIE04CYTBYT004C0.5S	4 G 0.5	0.6	7.7	97
BCIE04CYTBYT004C0.5S	4 X 0.5	0.6	7.7	97
BCIE04CYTBYT005C0.5S	5 G 0.5	0.6	8.5	105
BCIE04CYTBYT005C0.5S	5 X 0.5	0.6	8.5	105
BCIE04CYTBYT007C0.5S	7 G 0.5	0.6	9.2	128
BCIE04CYTBYT007C0.5S	7 X 0.5	0.6	9.2	128
BCIE04CYTBYT012C0.5S	12 G 0.5	0.6	12.1	206
BCIE04CYTBYT012C0.5S	12 X 0.5	0.6	12.1	206
BCIE04CYTBYT018C0.5S	18 G 0.5	0.6	14.3	301
BCIE04CYTBYT025C0.5S	25 G 0.5	0.6	16.9	400
BCIE04CYTBYT030C0.5S	30 G 0.5	0.6	17.7	453
BCIE04CYTBYT040C0.5S	40 G 0.5	0.6	20.1	584
BCIE04CYTBYT002C.75S	2 X 0.75	0.6	7.2	85
BCIE04CYTBYT003C.75S	3 G 0.75	0.6	7.6	97
BCIE04CYTBYT003C.75S	3 X 0.75	0.6	7.6	97
BCIE04CYTBYT004C.75S	4 G 0.75	0.6	8.4	119
BCIE04CYTBYT004C.75S	4 X 0.75	0.6	8.4	119
BCIE04CYTBYT005C.75S	5 G 0.75	0.6	9.1	124
BCIE04CYTBYT005C.75S	5 X 0.75	0.6	9.1	124
BCIE04CYTBYT007C.75S	7 G 0.75	0.6	9.8	152
BCIE04CYTBYT007C.75S	7 X 0.75	0.6	9.8	152
BCIE04CYTBYT012C.75S	12 G 0.75	0.6	13.1	264
BCIE04CYTBYT012C.75S	12 X 0.75	0.6	13.1	264
BCIE04CYTBYT018C.75S	18 G 0.75	0.6	15.5	369
BCIE04CYTBYT018C.75S	18 X 0.75	0.6	15.5	369
BCIE04CYTBYT025C.75S	25 G 0.75	0.6	18.1	487
BCIE04CYTBYT034C.75S	34 G 0.75	0.6	20.9	640
BCIE04CYTBYT040C.75S	40 X 0.75	0.6	21.8	728
BCIE04CYTBYT041C.75S	41 G 0.75	0.6	22.6	752
BCIE04CYTBYT002C001S	2 X 1	0.6	7.6	95
BCIE04CYTBYT003C001S	3 G 1	0.6	8.0	109
BCIE04CYTBYT003C001S	3 X 1	0.6	8.0	109
BCIE04CYTBYT004C001S	4 G 1	0.6	8.9	134
BCIE04CYTBYT004C001S	4 X 1	0.6	8.9	134
BCIE04CYTBYT005C001S	5 G 1	0.6	9.6	141
BCIE04CYTBYT007C001S	7 G 1	0.6	10.5	180
BCIE04CYTBYT012C001S	12 G 1	0.6	14.1	310
BCIE04CYTBYT016C001S	16 G 1	0.6	15.6	389
BCIE04CYTBYT018C001S	18 G 1	0.6	16.4	425
BCIE04CYTBYT025C001S	25 G 1	0.6	19.4	574
BCIE04CYTBYT034C001S	34 G 1	0.6	22.3	755

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Screened Control Cable, 300/500 V AC

Product Code	Construction n x mm ²	Insulation thickness mm	Overall diameter mm	Weight (Approx.) kg/km
BCIE04CYTBYT041C001S	41 G 1	0.6	24.3	913
BCIE04CYTBYT050C001S	50 G 1	0.6	26.4	1080
BCIE04CYTBYT002C1.5S	2 X 1.5	0.7	8.7	125
BCIE04CYTBYT003C1.5S	3 G 1.5	0.7	9.2	145
BCIE04CYTBYT003C1.5S	3 X 1.5	0.7	9.2	145
BCIE04CYTBYT004C1.5S	4 G 1.5	0.7	10.2	176
BCIE04CYTBYT004C1.5S	4 X 1.5	0.7	10.2	176
BCIE04CYTBYT005C1.5S	5 G 1.5	0.7	11.1	187
BCIE04CYTBYT005C1.5S	5 X 1.5	0.7	11.1	187
BCIE04CYTBYT007C1.5S	7 G 1.5	0.7	12.2	240
BCIE04CYTBYT007C1.5S	7 X 1.5	0.7	12.2	240
BCIE04CYTBYT012C1.5S	12 G 1.5	0.7	16.3	412
BCIE04CYTBYT018C1.5S	18 G 1.5	0.7	19.2	580
BCIE04CYTBYT025C1.5S	25 G 1.5	0.7	22.6	782
BCIE04CYTBYT034C1.5S	34 G 1.5	0.7	26.2	1045
BCIE04CYTBYT041C1.5S	41 G 1.5	0.7	28.6	1242
BCIE04CYTBYT050C1.5S	50 G 1.5	0.7	31.0	1487
BCIE04CYTBYT002C2.5S	2 X 2.5	0.8	10.3	176
BCIE04CYTBYT003C2.5S	3 G 2.5	0.8	10.9	206
BCIE04CYTBYT004C2.5S	4 G 2.5	0.8	12.0	255
BCIE04CYTBYT005C2.5S	5 G 2.5	0.8	13.4	292
BCIE04CYTBYT007C2.5S	7 G 2.5	0.8	14.6	366
BCIE04CYTBYT012C2.5S	12 G 2.5	0.8	19.4	602
BCIE04CYTBYT002C004S	2 X 4	0.8	11.4	224
BCIE04CYTBYT004C004S	4 G 4	0.8	13.7	358
BCIE04CYTBYT005C004S	5 G 4	0.8	15.1	386
BCIE04CYTBYT002C006S	2 X 6	0.8	12.9	307
BCIE04CYTBYT004C006S	4 G 6	0.8	15.4	467
BCIE04CYTBYT005C006S	5 G 6	0.8	16.9	505
BCIE04CYTBYT007C006S	7 G 6	0.8	18.5	657
BCIE04CYTBYT002C010S	2 X 10	1	16.1	493
BCIE04CYTBYT003C010S	3 G 10	1	17.3	604
BCIE04CYTBYT004C010S	4 G 10	1	19.1	763
BCIE04CYTBYT005C010S	5 G 10	1	21.0	830
BCIE04CYTBYT007C010S	7 G 10	1	23.1	1092
BCIE04CYTBYT002C016S	2 X 16	1	18.6	684
BCIE04CYTBYT004C016S	4 G 16	1	22.0	1075
BCIE04CYTBYT005C016S	5 G 16	1	24.3	1177
BCIE04CYTBYT004C025S	4 G 25	1.2	26.8	1631
BCIE04CYTBYT005C025S	5 G 25	1.2	29.5	1782
BCIE04CYTBYT004C035S	4 G 35	1.2	30.2	2147
BCIE04CYTBYT005C035S	5 G 35	1.2	33.2	2357

X – without Green-Yellow conductor

G – with Green-Yellow conductor

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POLYCAB 110 CY, IEC 60227-7

Screened Control Cable, 300/500 V AC

Electrical characteristics

Current rating and maximum DC conductor resistance.

Nominal cross sectional area mm ²	Reference Method A (enclosed in conduit in thermally insulating wall etc.)		Reference Method B (enclosed in conduit on a wall or in trunking etc.)		Reference Method C (clipped direct)		Reference Method E (free air or on a perforated cable tray etc, horizontal or vertical)		Maximum DC conductor resistance at 20°C Ω/km
	1 two-core cable* single-phase a.c. or d.c. Amp.	1 three-core cable* or 1 four-core cable, three-phase a.c. Amp.	1 two-core cable* single-phase a.c. or d.c. Amp.	1 three-core cable* or 1 four-core cable, three-phase a.c. Amp.	1 two-core cable* single-phase a.c. or d.c. Amp.	1 three-core cable* or 1 four-core cable, three-phase a.c. Amp.	1 two-core cable* single-phase a.c. or d.c. Amp.	1 three-core cable* or 1 four-core cable, three-phase a.c. Amp.	
0.5	-	-	-	-	-	-	-	-	39
0.75	-	-	-	-	-	-	-	-	26
1	10.5	9.5	12	11	14	13	16	14	19.5
1.5	13	12	16	14	18.5	17	21	18	13.3
2.5	18	17	22	19	26	23	28.5	24	7.98
4	24	22	29	26	34	30	38	32	4.95
6	30	28	36	32	44	39	48.5	41	3.3
10	41	37	49	44	60	54	66.5	57	1.91
16	54	49	66	59	81	72	89	76	1.21
25	-	-	-	-	-	-	-	-	0.78
35	-	-	-	-	-	-	-	-	0.554

Air Ambient temperature: 30°C

Ground ambient temperature: 20°C

Conductor operating temperature: 70°C

The above table is in accordance with Table 4D2A of BS 7671:2018

De-Rating Factor

De-rating factor for 70°C thermoplastic insulated cable

Air Temperature	35°C	40°C	45°C	50°C	55°C
De-Rating Factor	0.91	0.82	0.71	0.58	0.41

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