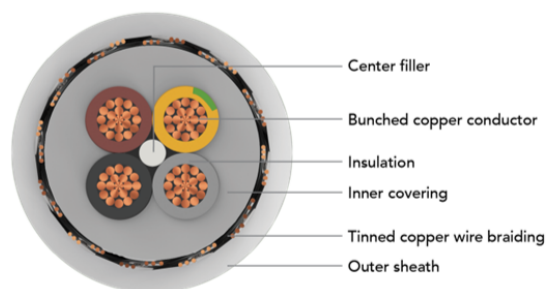


POLYCAB 110 CY, IEC 60227-7

POLYCAB 110 CY, IEC 60227-7



Images not to scale. Follow table for dimensions

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. This cable conforming the construction generally as per IEC 60227-7

CHARACTERISTICS

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

OUTSTANDING FEATURES

- Flame Retardant
- Good Insulation Resistance
- Oil Resistant

STANDARD FOLLOWS

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

OUR ACCREDITATIONS



APPROVAL



Weight & Dimension Data

Product Code	Construction	Insulation thickness	Overall diameter	Weight (Approx.)
	n x mm ²	mm	mm	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

Product Code	Construction	Insulation thickness	Overall diameter	Weight (Approx.)
	n x mm ²	mm	mm	kg/km
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	109
BCIE04CYTBYT003C001S	3 X 1	0.6	8	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
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

Product Code	Construction	Insulation thickness	Overall diameter	Weight (Approx.)
	n x mm ²	mm	mm	kg/km
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	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	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	830
BCIE04CYTBYT007C010S	7 G 10	1	23.1	1092
BCIE04CYTBYT002C016S	2 X 16	1	18.6	684
BCIE04CYTBYT004C016S	4 G 16	1	22	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

Electrical characteristics

Current rating and maximum DC conductor resistance

Nominal cross sectional area	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
	1 two-core cable* single-phase a.c. or d.c.	1 three-core cable* or 1 four-core cable, three-phase a.c.	1 two-core cable* single-phase a.c. or d.c.	1 three-core cable* or 1 four-core cable, three-phase a.c.	1 two-core cable* single-phase a.c. or d.c.	1 three-core cable* or 1 four-core cable, three-phase a.c.	1 two-core cable* single-phase a.c. or d.c.	1 three-core cable* or 1 four-core cable, three-phase a.c.	
mm ²	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Ω/km
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