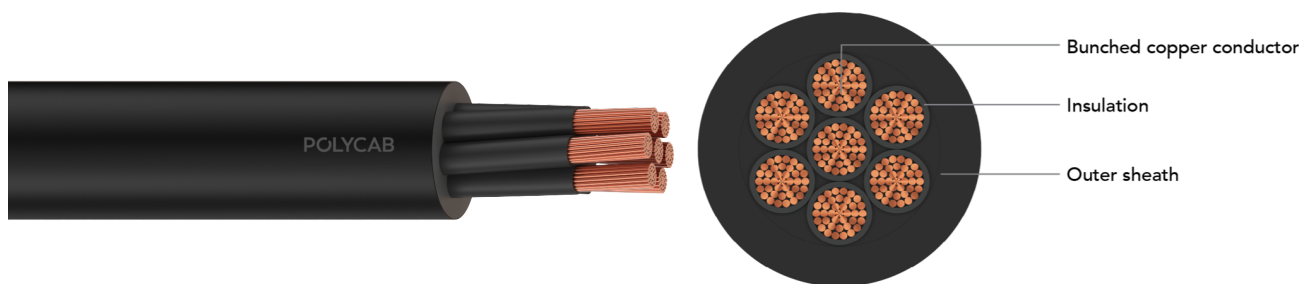


POLYCAB 02YY-K MC+ Industrial Cable, 1100 V AC



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB 02YY-K MC flexible cable insulated and sheathed with PVC conforming to IS 694 is suitable to use in electric power and lighting 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 installation 6 x Overall diameter

Occasional 8 x Overall diameter

CONSTRUCTION

- Bunched copper conductor as per IS 8130, class 5
- Insulated with PVC Type D to IS 5831
- Sheathed with PVC Type ST3 to IS 5831

Core Identification

As per IS 694:2010

Test Voltage

3000 V AC at (20±5) °C

STANDARD FOLLOWS

IS 8130:2013

IS 5831:1984

IEC 60332-1-2

COMPLIANCE

Conductor resistance - IS 8130

Insulation resistance - IS 5831:1984

Flammability test - IEC 60332-1-2

OUR ACCREDITATIONS



APPROVAL



NOTES

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

WEIGHT & DIMENSION DATA:

Product Code	Conductor size	Nominal insulation thickness	Overall diameter (Approx.)	Weight (Approx.)
	n x mm ²	mm	mm	kg/km
LDIS09CYUAY1006C0.5S	6 x 0.5	0.6	8.14	85
LDIS09CYUAY1006C.75S	6 x 0.75	0.6	8.95	109
LDIS09CYUAY1006C001S	6 x 1	0.6	9.47	128
LDIS09CYUAY1006C1.5S	6 x 1.5	0.6	10.28	162
LDIS09CYUAY1006C2.5S	6 x 2.5	0.7	12.45	248
LDIS09CYUAY1006C004S	6 x 4	0.8	14.88	371
LDIS09CYUAY1007C0.5S	7 x 0.5	0.6	8.14	93
LDIS09CYUAY1007C.75S	7 x 0.75	0.6	8.95	121
LDIS09CYUAY1007C001S	7 x 1	0.6	9.47	142
LDIS09CYUAY1007C1.5S	7 x 1.5	0.6	10.28	181
LDIS09CYUAY1007C2.5S	7 x 2.5	0.7	12.45	279
LDIS09CYUAY1007C004S	7 x 4	0.8	14.88	419
LDIS09CYUAY1008C0.5S	8 x 0.5	0.6	9.29	111
LDIS09CYUAY1008C.75S	8 x 0.75	0.6	9.99	137
LDIS09CYUAY1008C001S	8 x 1	0.6	10.59	162
LDIS09CYUAY1008C1.5S	8 x 1.5	0.6	11.73	213
LDIS09CYUAY1008C2.5S	8 x 2.5	0.7	14.18	325
LDIS09CYUAY1008C004S	8 x 4	0.8	16.95	487
LDIS09CYUAY1009C0.5S	9 x 0.5	0.6	10.03	124
LDIS09CYUAY1009C.75S	9 x 0.75	0.6	11.00	159
LDIS09CYUAY1009C001S	9 x 1	0.6	11.66	187
LDIS09CYUAY1009C1.5S	9 x 1.5	0.6	12.69	237
LDIS09CYUAY1009C2.5S	9 x 2.5	0.7	15.58	371
LDIS09CYUAY1009C004S	9 x 4	0.8	18.61	554
LDIS09CYUAY1010C0.5S	10 x 0.5	0.6	10.45	134
LDIS09CYUAY1010C.75S	10 x 0.75	0.6	11.47	173
LDIS09CYUAY1010C001S	10 x 1	0.6	12.16	204

Product Code	Conductor size	Nominal insulation thickness	Overall diameter (Approx.)	Weight (Approx.)
	n x mm ²	mm	mm	kg/km
LDIS09CYUAY1010C1.5S	10 x 1.5	0.6	13.24	260
LDIS09CYUAY1010C2.5S	10 x 2.5	0.7	16.26	407
LDIS09CYUAY1010C004S	10 x 4	0.8	19.44	608
LDIS09CYUAY1011C0.5S	11 x 0.5	0.6	10.45	143
LDIS09CYUAY1011C.75S	11 x 0.75	0.6	11.47	184
LDIS09CYUAY1011C001S	11 x 1	0.6	12.16	218
LDIS09CYUAY1011C1.5S	11 x 1.5	0.6	13.24	279
LDIS09CYUAY1011C2.5S	11 x 2.5	0.7	16.26	437
LDIS09CYUAY1011C004S	11 x 4	0.8	19.44	656
LDIS09CYUAY1012C0.5S	12 x 0.5	0.6	10.79	153
LDIS09CYUAY1012C.75S	12 x 0.75	0.6	11.84	198
LDIS09CYUAY1012C001S	12 x 1	0.6	12.56	234
LDIS09CYUAY1012C1.5S	12 x 1.5	0.6	13.69	300
LDIS09CYUAY1012C2.5S	12 x 2.5	0.7	16.81	472
LDIS09CYUAY1012C004S	12 x 4	0.8	20.10	708
LDIS09CYUAY1013C0.5S	13 x 0.5	0.6	11.31	165
LDIS09CYUAY1013C.75S	13 x 0.75	0.6	12.42	212
LDIS09CYUAY1013C001S	13 x 1	0.6	13.18	252
LDIS09CYUAY1013C1.5S	13 x 1.5	0.6	14.58	331
LDIS09CYUAY1013C2.5S	13 x 2.5	0.7	17.66	508
LDIS09CYUAY1013C004S	13 x 4	0.8	21.14	764
LDIS09CYUAY1014C0.5S	14 x 0.5	0.6	11.51	179
LDIS09CYUAY1014C.75S	14 x 0.75	0.6	12.42	224
LDIS09CYUAY1014C001S	14 x 1	0.6	13.18	266
LDIS09CYUAY1014C1.5S	14 x 1.5	0.6	14.58	350
LDIS09CYUAY1014C2.5S	14 x 2.5	0.7	17.66	539
LDIS09CYUAY1014C004S	14 x 4	0.8	21.14	811
LDIS09CYUAY1015C0.5S	15 x 0.5	0.6	12.13	191

Document No.: 00185.Rev No.: 00 01-01-2024 / We reserve the rights to make technical changes.

Product Code	Conductor size	Nominal insulation thickness	Overall diameter (Approx.)	Weight (Approx.)
	n x mm ²	mm	mm	kg/km
LDIS09CYUAY1015C.75S	15 x 0.75	0.6	13.29	246
LDIS09CYUAY1015C001S	15 x 1	0.6	14.10	292
LDIS09CYUAY1015C1.5S	15 x 1.5	0.6	15.38	374
LDIS09CYUAY1015C2.5S	15 x 2.5	0.7	18.85	586
LDIS09CYUAY1015C004S	15 x 4	0.8	22.55	879
LDIS09CYUAY1016C0.5S	16 x 0.5	0.6	12.13	200
LDIS09CYUAY1016C.75S	16 x 0.75	0.6	13.29	257
LDIS09CYUAY1016C001S	16 x 1	0.6	14.10	306
LDIS09CYUAY1016C1.5S	16 x 1.5	0.6	15.38	393
LDIS09CYUAY1016C2.5S	16 x 2.5	0.7	18.85	616
LDIS09CYUAY1016C004S	16 x 4	0.8	22.55	927
LDIS09CYUAY1017C0.5S	17 x 0.5	0.6	12.76	212
LDIS09CYUAY1017C.75S	17 x 0.75	0.6	13.98	273
LDIS09CYUAY1017C001S	17 x 1	0.6	14.85	325
LDIS09CYUAY1017C1.5S	17 x 1.5	0.6	16.41	426
LDIS09CYUAY1017C2.5S	17 x 2.5	0.7	19.88	655
LDIS09CYUAY1017C004S	17 x 4	0.8	23.80	985
LDIS09CYUAY1018C0.5S	18 x 0.5	0.6	12.76	220
LDIS09CYUAY1018C.75S	18 x 0.75	0.6	13.98	284
LDIS09CYUAY1018C001S	18 x 1	0.6	15.05	346
LDIS09CYUAY1018C1.5S	18 x 1.5	0.6	16.41	445
LDIS09CYUAY1018C2.5S	18 x 2.5	0.7	19.88	685
LDIS09CYUAY1018C004S	18 x 4	0.8	23.80	1033
LDIS09CYUAY1019C0.5S	19 x 0.5	0.6	12.76	229
LDIS09CYUAY1019C.75S	19 x 0.75	0.6	13.98	296
LDIS09CYUAY1019C001S	19 x 1	0.6	15.05	361
LDIS09CYUAY1019C1.5S	19 x 1.5	0.6	16.41	464
LDIS09CYUAY1019C2.5S	19 x 2.5	0.7	19.88	716

Document No.: 00185.Rev No.: 00 01-01-2024 / We reserve the rights to make technical changes.

Product Code	Conductor size	Nominal insulation thickness	Overall diameter (Approx.)	Weight (Approx.)
	n x mm ²	mm	mm	kg/km
LDIS09CYUAY1019C004S	19 x 4	0.8	23.80	1080
LDIS09CYUAY1020C0.5S	20 x 0.5	0.6	13.66	248
LDIS09CYUAY1020C.75S	20 x 0.75	0.6	14.95	319
LDIS09CYUAY1020C001S	20 x 1	0.6	16.07	388
LDIS09CYUAY1020C1.5S	20 x 1.5	0.6	17.52	498
LDIS09CYUAY1020C2.5S	20 x 2.5	0.7	21.20	766
LDIS09CYUAY1020C004S	20 x 4	0.8	25.37	1152
LDIS09CYUAY1021C0.5S	21 x 0.5	0.6	13.66	257
LDIS09CYUAY1021C.75S	21 x 0.75	0.6	14.95	331
LDIS09CYUAY1021C001S	21 x 1	0.6	16.07	403
LDIS09CYUAY1021C1.5S	21 x 1.5	0.6	17.52	517
LDIS09CYUAY1021C2.5S	21 x 2.5	0.7	21.20	796
LDIS09CYUAY1021C004S	21 x 4	0.8	25.37	1200
LDIS09CYUAY1022C0.5S	22 x 0.5	0.6	14.38	270
LDIS09CYUAY1022C.75S	22 x 0.75	0.6	15.74	347
LDIS09CYUAY1022C001S	22 x 1	0.6	16.92	423
LDIS09CYUAY1022C1.5S	22 x 1.5	0.6	18.45	543
LDIS09CYUAY1022C2.5S	22 x 2.5	0.7	22.36	836
LDIS09CYUAY1022C004S	22 x 4	0.8	26.78	1259
LDIS09CYUAY1023C0.5S	23 x 0.5	0.6	14.38	279
LDIS09CYUAY1023C.75S	23 x 0.75	0.6	15.74	359
LDIS09CYUAY1023C001S	23 x 1	0.6	16.92	437
LDIS09CYUAY1023C1.5S	23 x 1.5	0.6	18.45	562
LDIS09CYUAY1023C2.5S	23 x 2.5	0.7	22.36	867
LDIS09CYUAY1023C004S	23 x 4	0.8	26.78	1307
LDIS09CYUAY1024C0.5S	24 x 0.5	0.6	15.07	291
LDIS09CYUAY1024C.75S	24 x 0.75	0.6	16.50	375
LDIS09CYUAY1024C001S	24 x 1	0.6	17.74	457

Document No.: 00185.Rev No.: 00 01-01-2024 / We reserve the rights to make technical changes.

Product Code	Conductor size	Nominal insulation thickness	Overall diameter (Approx.)	Weight (Approx.)
	n x mm ²	mm	mm	kg/km
LDIS09CYUAY1024C1.5S	24 x 1.5	0.6	19.37	588
LDIS09CYUAY1024C2.5S	24 x 2.5	0.7	23.49	906
LDIS09CYUAY1024C004S	24 x 4	0.8	28.16	1366
LDIS09CYUAY1025C0.5S	25 x 0.5	0.6	15.07	300
LDIS09CYUAY1025C.75S	25 x 0.75	0.6	16.50	387
LDIS09CYUAY1025C001S	25 x 1	0.6	17.74	471
LDIS09CYUAY1025C1.5S	25 x 1.5	0.6	19.37	607
LDIS09CYUAY1025C2.5S	25 x 2.5	0.7	23.49	937
LDIS09CYUAY1025C004S	25 x 4	0.8	28.16	1414
LDIS09CYUAY1030C0.5S	30 x 0.5	0.6	16.14	357
LDIS09CYUAY1030C.75S	30 x 0.75	0.6	17.45	450
LDIS09CYUAY1030C001S	30 x 1	0.6	18.76	549
LDIS09CYUAY1030C1.5S	30 x 1.5	0.6	20.50	711
LDIS09CYUAY1030C2.5S	30 x 2.5	0.7	24.89	1101
LDIS09CYUAY1030C004S	30 x 4	0.8	29.86	1667

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 E (in free air or on a perforated cable tray horizontal or vertical)		Maximum DC conductor resistance 20°C
	1 two core cable single phase ac or dc	1 three core cable or 1 four core cable three phase ac	1 two core cable single phase ac or dc	1 three core cable or 1 four core cable three phase ac	1 two core cable single phase ac or dc	1 three core cable or 1 four core cable three phase ac	
mm ²	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	12	11	14	12	19.5
1.5	14	12	16	14	18	15	13.3
2.5	19	17	22	20	25	21	7.98
4	25	22	30	26	33	28	4.95

Ambient temperature: 40°C, Conductor operating temperature: 70°C, the above table is in accordance with BS 7671(4D2A)

De-Rating Factor

De-rating factor for various ambient temperature.

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