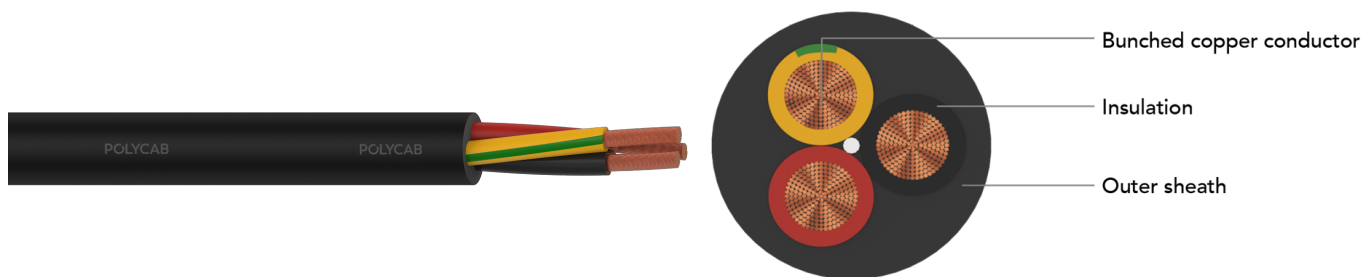


POLYCAB 02YY-K MC

Industrial Cable and Cords, 1100 V AC



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB 02YY-K 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.

WIEGHT & DIMENSION

Product Code	Conductor size	Nominal insulation thickness	Overall dia. (Approx.)	Weight (Approx.)
	n x mm ²	mm	mm	kg/km
LDIS09CYUAY1002C0.5S	2 x 0.5	0.6	6.02	52
LDIS09CYUAY1002C.75S	2 x 0.75	0.6	6.43	62
LDIS09CYUAY1002C001S	2 x 1	0.6	6.78	71
LDIS09CYUAY1002C1.5S	2 x 1.5	0.6	7.32	87
LDIS09CYUAY1002C2.5S	2 x 2.5	0.7	8.83	131
LDIS09CYUAY1002C004S	2 x 4	0.8	10.32	188
LDIS09CYUAY1002C006S	2 x 6	0.8	11.67	252
LDIS09CYUAY1002C010S	2 x 10	1	14.76	412
LDIS09CYUAY1002C016S	2 x 16	1	17.04	583
LDIS09CYUAY1002C025S	2 x 25	1.2	20.37	861
LDIS09CYUAY1002C035S	2 x 35	1.2	23.15	1154
LDIS09CYUAY1002C050S	2 x 50	1.4	27.75	1657
LDIS09CYUAY1002C070S	2 x 70	1.4	31.51	2219
LDIS09CYUAY1002C095S	2 x 95	1.6	36.28	2974
LDIS09CYUAY1002C120S	2 x 120	1.6	39.56	3633
LDIS09CYUAY1003C0.5S	3 x 0.5	0.6	6.36	60
LDIS09CYUAY1003C.75S	3 x 0.75	0.6	6.80	73
LDIS09CYUAY1003C001S	3 x 1	0.6	7.18	85
LDIS09CYUAY1003C1.5S	3 x 1.5	0.6	7.76	105
LDIS09CYUAY1003C2.5S	3 x 2.5	0.7	9.38	160
LDIS09CYUAY1003C004S	3 x 4	0.8	10.98	231
LDIS09CYUAY1003C006S	3 x 6	0.8	12.63	321
LDIS09CYUAY1003C010S	3 x 10	1	15.93	524
LDIS09CYUAY1003C016S	3 x 16	1	18.18	741
LDIS09CYUAY1003C025S	3 x 25	1.2	21.97	1113
LDIS09CYUAY1003C035S	3 x 35	1.2	24.75	1486
LDIS09CYUAY1003C050S	3 x 50	1.4	29.65	2133
LDIS09CYUAY1003C070S	3 x 70	1.4	33.68	2874
LDIS09CYUAY1003C095S	3 x 95	1.6	38.80	3862
LDIS09CYUAY1003C120S	3 x 120	1.6	42.32	4738
LDIS09CYUAY1003C150S	3 x 150	1.8	46.69	5797

Product Code	Conductor size	Nominal insulation thickness	Overall dia. (Approx.)	Weight (Approx.)
	n x mm ²	mm	mm	kg/km
LDIS09CYUAY1003C185S	3 x 185	2	52.03	7241
LDIS09CYUAY1003C240S	3 x 240	2.2	58.33	9210
LDIS09CYUAY1003C300S	3 x 300	2.4	64.88	11518
LDIS09CYUAY1004C0.5S	4 x 0.5	0.6	6.91	73
LDIS09CYUAY1004C.75S	4 x 0.75	0.6	7.41	88
LDIS09CYUAY1004C001S	4 x 1	0.6	7.83	103
LDIS09CYUAY1004C1.5S	4 x 1.5	0.6	8.68	134
LDIS09CYUAY1004C2.5S	4 x 2.5	0.7	10.26	198
LDIS09CYUAY1004C004S	4 x 4	0.8	12.07	289
LDIS09CYUAY1004C006S	4 x 6	0.8	13.86	402
LDIS09CYUAY1004C010S	4 x 10	1	17.51	658
LDIS09CYUAY1004C016S	4 x 16	1	20.03	937
LDIS09CYUAY1004C025S	4 x 25	1.2	24.46	1426
LDIS09CYUAY1004C035S	4 x 35	1.2	27.54	1906
LDIS09CYUAY1004C050S	4 x 50	1.4	32.74	2715
LDIS09CYUAY1004C070S	4 x 70	1.4	37.20	3668
LDIS09CYUAY1004C095S	4 x 95	1.6	42.89	4935
LDIS09CYUAY1004C120S	4 x 120	1.6	46.81	6066
LDIS09CYUAY1004C150S	4 x 150	1.8	51.69	7428
LDIS09CYUAY1004C185S	4 x 185	2	57.62	9285
LDIS09CYUAY1004C240S	4 x 240	2.2	64.63	11820
LDIS09CYUAY1004C300S	4 x 300	2.4	71.92	14794
LDIS09CYUAY1005C0.5S	5 x 0.5	0.6	7.50	73
LDIS09CYUAY1005C.75S	5 x 0.75	0.6	8.06	90
LDIS09CYUAY1005C001S	5 x 1	0.6	8.72	110
LDIS09CYUAY1005C1.5S	5 x 1.5	0.6	9.45	139
LDIS09CYUAY1005C2.5S	5 x 2.5	0.7	11.22	206
LDIS09CYUAY1005C004S	5 x 4	0.8	13.43	309

Electrical characteristics

Current carrying capacity and maximum DC conductor DC 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 (free air or on a perforated cable tray etc, horizontal or vertical)		Max. 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.	
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
6	31	28	38	34	42	36	3.3
10	43	38	52	47	58	50	1.91
16	57	51	70	63	78	66	1.21
25	76	68	95	81	100	85	0.78
35	94	84	116	100	125	106	0.554
50	112	100	142	122	152	129	0.386
70	142	122	180	155	196	165	0.272
95	170	151	218	188	238	201	0.206
120	196	174	252	219	277	233	0.161
150	218	190	290	252	320	269	0.129
185	248	215	331	288	366	307	0.106
240	290	251	389	340	434	363	0.0801
300	332	286	447	392	500	419	0.0641

Air Ambient temperature: 40°C, Conductor operating temperature: 70°C

The above table is in accordance with BS 7671(Table 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

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