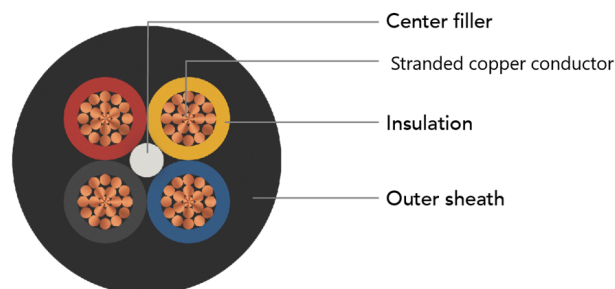
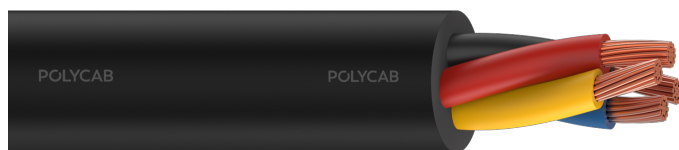


POLYCAB 02YY-R

Industrial Cable, 1100 V AC



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB 02YY-R flexible cable insulated and sheathed with PVC confirming 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

- Stranded bare copper conductor as per IS 8130, class 2
- Insulated with PVC Type A to IS 5831
- Sheathed with PVC Type ST1 to IS 5831

Core Identification

Two core - Red, Black

Three core Green/yellow, Red, Black Or Red, Yellow, Blue

Four core Green/Yellow, Red, Yellow, Blue Or Red, Yellow, Blue, Black

Five core Red, Yellow, Blue, Black, Grey

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 with FR & FRLSH also available.

WEIGHT AND DIMENSION DATA:

Product Code	Conductor size	Nominal insulation thickness	Overall diameter (Approx.)	Weight (Approx.)
	n x mm ²	mm	mm	kg/km
LDIS09CYUAY1002C001S	2 X 1	0.6	7.33	81
LDIS09CYUAY1002C1.5S	2 X 1.5	0.7	8.4	110
LDIS09CYUAY1002C2.5S	2 X 2.5	0.8	9.84	155
LDIS09CYUAY1002C004S	2 X 4	0.8	10.99	207
LDIS09CYUAY1002C006S	2 X 6	0.8	12.27	271
LDIS09CYUAY1002C010S	2 X 10	1	15.14	426
LDIS09CYUAY1002C016S	2 X 16	1	17.25	594
LDIS09CYUAY1002C025S	2 X 25	1.2	20.91	897
LDIS09CYUAY1002C035S	2 X 35	1.2	23.4	1172
LDIS09CYUAY1002C050S	2 X 50	1.4	27.59	1649
LDIS09CYUAY1002C070S	2 X 70	1.4	31.07	2180
LDIS09CYUAY1002C095S	2 X 95	1.6	35.64	2912
LDIS09CYUAY1002C120S	2 X 120	1.6	38.95	3572
LDIS09CYUAY1003C001S	3 X 1	0.6	7.73	94
LDIS09CYUAY1003C1.5S	3 X 1.5	0.7	8.88	130
LDIS09CYUAY1003C2.5S	3 X 2.5	0.8	10.42	186
LDIS09CYUAY1003C004S	3 X 4	0.8	11.66	253
LDIS09CYUAY1003C006S	3 X 6	0.8	13.03	335
LDIS09CYUAY1003C010S	3 X 10	1	16.12	531
LDIS09CYUAY1003C016S	3 X 16	1	18.6	761
LDIS09CYUAY1003C025S	3 X 25	1.2	22.53	1156
LDIS09CYUAY1003C035S	3 X 35	1.2	25.2	1519
LDIS09CYUAY1003C050S	3 X 50	1.4	29.49	2125
LDIS09CYUAY1003C070S	3 X 70	1.4	33.23	2830
LDIS09CYUAY1003C095S	3 X 95	1.6	38.36	3813
LDIS09CYUAY1003C120S	3 X 120	1.6	41.92	4694
LDIS09CYUAY1004C001S	4 X 1	0.6	8.37	114
LDIS09CYUAY1004C1.5S	4 X 1.5	0.7	9.86	163
LDIS09CYUAY1004C2.5S	4 X 2.5	0.8	11.36	228
LDIS09CYUAY1004C004S	4 X 4	0.8	12.95	320
LDIS09CYUAY1004C006S	4 X 6	0.8	14.26	417
LDIS09CYUAY1004C010S	4 X 10	1	17.89	675

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Product Code	Conductor size	Nominal insulation thickness	Overall diameter (Approx.)	Weight (Approx.)
	n x mm ²	mm	mm	kg/km
LDIS09CYUAY1004C016S	4 X 16	1	20.45	960
LDIS09CYUAY1004C025S	4 X 25	1.2	25.03	1477
LDIS09CYUAY1004C035S	4 X 35	1.2	28	1946
LDIS09CYUAY1004C050S	4 X 50	1.4	32.78	2725
LDIS09CYUAY1004C070S	4 X 70	1.4	37.15	3656
LDIS09CYUAY1004C095S	4 X 95	1.6	42.65	4901
LDIS09CYUAY1004C120S	4 X 120	1.6	46.61	6042

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 at 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
1	11	10	13	12	15	13	18.1
1.5	14	13	17	15	19	16	12.1
2.5	20	17	23	21	26	22	7.41
4	26	23	31	28	35	30	4.61
6	33	30	40	36	44	37	3.08
10	45	40	55	50	61	52	1.83
16	60	54	74	66	82	70	1.15
25	78	70	97	84	104	88	0.727
35	97	86	120	104	129	110	0.524
50	116	103	146	125	157	133	0.387
70	146	130	185	160	202	171	0.268
95	175	156	224	194	245	207	0.193
120	202	179	260	225	285	240	0.153

Air Ambient temperature: 40°C

Conductor operating temperature: 70°C

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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