

POLYCAB LOW TENSION CONTROL CABLE CONFIRMING TO IS 7098-P1



This standard covers the requirements for both armoured and unarmoured two, three, four, and multicore cross-linked polyethylene (XLPE) insulated and PVC sheathed cables for automation and control applications.

These are low tension cables of voltage grade up to and including 1100V AC. These are widely used for measure and regulate transmissions of automated process.

Technical advantages:

1. Insulation is thermosetting in nature.
2. Higher insulation resistance 1000 times more than PVC cables.
3. Higher resistance to moisture.
4. Low dielectric losses.
5. Better resistance to chemicals.
6. Long service life.
7. comparatively higher cable operation temperature 90°C and short circuit temperature 250°C.

Conductor: High conductivity annealed plain stranded compacted copper /Aluminium conductor produced in-house from state-of-the art machine.

Insulation: In-house developed high insulation resistance cross-linked polyethylene thermoset insulation compound.

Laying Up: In case of multi core, insulated cores are laid up together with in-house developed fillers to maintain circularity of cable, wherever applicable.

Inner Sheath: In-house developed PVC thermoplastic compound/ halogen free compound having low emission of smoke and corrosive gases when exposed to fire and also ensures circular shape of cable.

Armour: Galvanised Steel Round/stripe wire Armoured to give mechanical protection and also acts as return path for earth fault current

Outer Sheath: In-house developed PVC thermoplastic compound/ halogen free compound having low emission of smoke and corrosive gases when exposed to fire for outer protection.

[POLYCAB LV BIS-7098-P1 Control 1.5 2XFY](#)



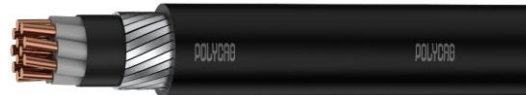
[POLYCAB LV BIS-7098-P1 Control 1.5 2XWY](#)



[POLYCAB LV BIS-7098-P1 Control 1.5 2XY](#)



[POLYCAB LV BIS-7098-P1 Control 2.5 2XFY](#)



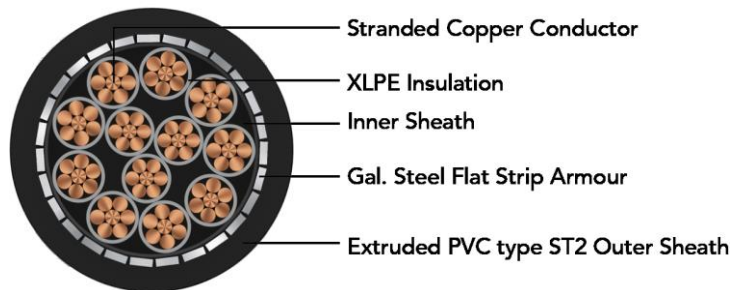
[POLYCAB LV BIS-7098-P1 Control 2.5 2XWY](#)



[POLYCAB LV BIS-7098-P1 Control 2.5 2XY](#)



CONTROL CABLE 650/1100 V AC



Application

POLYCAB 1.5 2XFY MC, Stranded/solid copper conductor, XLPE insulated, PVC inner sheathed, Galvanised Steel strip armour and PVC sheathed conforming to IS 7098-1 is suitable for 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.

Voltage Rating

650/1100 V AC

Operation Temperature

Max.: 90°C

Short circuit temperature 250°C

Construction

- Stranded Copper conductor as per IS 8130, class 1&2
- Insulated with Cross Linked Polyethylene (XLPE) to IS 7098-1
- Armoured with Galvanised Steel strip to IS 3975
- Extruded inner sheath with PVC Type ST2/FRLS/FR/LSZH
- Sheathed with Extruded PVC Type ST2/FRLS/FR/LSZH

Standard and References

IS 8130:2013

IS 5831:1984

IS 3975:1979

IS 7098-1:1988

Compliance

Conductor resistance

- IS 8130-2013

Insulation resistance

- IS 7098-1:1988

Flammability test

- IEC 60332-1-2015



Core Identification

Grey with number printing

Outer sheath colour: Black

*Other colours are also available on request.

Bending Radius

Fixed installation 12 x Overall diameter

OUR ACCREDITATION



CONTROL CABLE 650/1100 V AC

Product code	Cross sectional area	Number of cores	Nominal Thickness of Insulation	Nominal dimension of Armour flat wire	Minimum thickness of outer sheath	Nominal Overall Diameter	Weight (Approx.)
	Sqmm	No's	mm	mm	mm	mm	kg/km
LVIS09CXSFY2016C1.5SA001S	1.5	16	0.7	4x0.8	1.4	18.5	651
LVIS09CXSFY2019C1.5SA001S	1.5	19	0.7	4x0.8	1.4	19.3	736
LVIS09CXSFY2021C1.5SA001P	1.5	21	0.7	4x0.8	1.4	20.2	788
LVIS09CXSFY2024C1.5SA001S	1.5	24	0.7	4x0.8	1.4	22.1	874
LVIS09CXSFY2027C1.5SA001S	1.5	27	0.7	4x0.8	1.4	22.5	950
LVIS09CXSFY2030C1.5SA001S	1.5	30	0.7	4x0.8	1.4	23.2	1016
LVIS09CXSFY2033C1.5SA001S	1.5	33	0.7	4x0.8	1.4	24.1	1102
LVIS09CXSFY2037C1.5SA001S	1.5	37	0.7	4x0.8	1.4	24.9	1168
LVIS09CXSFY2044C1.5SA001S	1.5	44	0.7	4x0.8	1.4	27.7	1358
LVIS09CXSFY2052C1.5SA001S	1.5	52	0.7	4x0.8	1.56	29.2	1548
LVIS09CXSFY2061C1.5SA001S	1.5	61	0.7	4x0.8	1.56	31.1	1757

Solid & stranded conductor

The above data is approximate & subject to manufacturing tolerance.

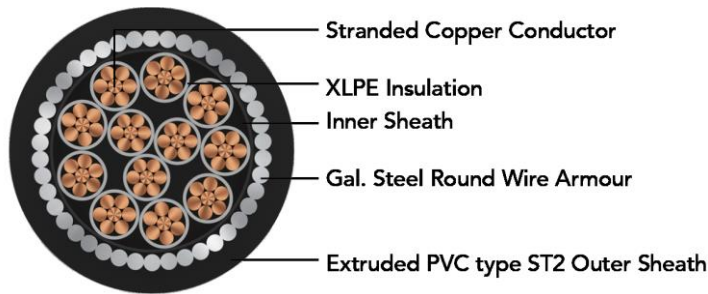
Electrical parameter

Cross sectional area	Number of cores	Max. DC conductor resistance at 20°C	Current Rating	
			In Ground (A)	In Air(A)
Sqmm	No's	Ω/km		
1.5	16	12.1	14	12
1.5	19	12.1	14	12
1.5	21	12.1	12	11
1.5	24	12.1	12	11
1.5	27	12.1	11	9
1.5	30	12.1	11	9
1.5	33	12.1	11	9
1.5	37	12.1	11	9
1.5	44	12.1	9	8
1.5	52	12.1	9	8
1.5	61	12.1	9	8

Air Ambient temperature: 40°C, ground ambient temperature: 30°C, Conductor operating temperature: 90°C

OUR ACCREDITATION

CONTROL CABLE 650/1100 V AC



Application

POLYCAB 1.5 2XWY MC, Stranded/solid copper conductor, XLPE insulated, PVC inner sheathed, Galvanised Steel round wire armour and PVC sheathed conforming to IS 7098-1 is suitable for 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.

Voltage Rating

650/1100 V

Operation Temperature

Max.: 90°C

Short circuit temperature 250°C

Construction

- Stranded Copper conductor as per IS 8130, class 1&2
- Insulated with Cross Linked Polyethylene (XLPE) to IS 7098-1
- Armoured with Galvanised Steel round wire to IS 3975
- Extruded inner sheath with PVC Type ST2/FRLS/FR/LSZH
- Sheathed with Extruded PVC Type ST2/FRLS/FR/LSZH

Core Identification

Red, Yellow, Blue, Black & Grey upto 5Core & 6 Core & above Grey with number printing

Outer sheath colour: Black

*Other colour also available on request.

Bending Radius

Fixed installation 12 x Overall diameter

Standard and References

IS 8130:2013

IS 5831:1984

IS 3975:1979

IS 7098-1:1988

Compliance

Conductor resistance

- IS 8130:2013

Insulation resistance

- IS 7098-1:1988

Flammability test

- IEC 60332-1-2015



OUR ACCREDITATION



CONTROL CABLE 650/1100 V AC

Weight & Dimension Data

Product code	Number of cores	Nominal Thickness of Insulation	Nominal dimension of Armour round wire	Minimum thickness of outer sheath	Overall Diameter	Weight (Approx.)
	No's	mm	mm	mm	mm	kg/km
LVIS09CXSWY2002C1.5SA002S	2	0.7	1.4	1.24	11.9	288
LVIS09CXSWY2003C1.5SA002S	3	0.7	1.4	1.24	12.4	302
LVIS09CXSWY2004C1.5SA002S	4	0.7	1.4	1.24	13.1	349
LVIS09CXSWY2005C1.5SA002S	5	0.7	1.4	1.24	13.9	385
LVIS09CXSWY2006C1.5SA001S	6	0.7	1.4	1.24	14.7	432
LVIS09CXSWY2007C1.5SA001S	7	0.7	1.4	1.24	14.7	450
LVIS09CXSWY2008C1.5SA001S	8	0.7	1.4	1.24	16.5	494
LVIS09CXSWY2009C1.5SA001S	9	0.7	1.4	1.24	17.5	542
LVIS09CXSWY2010C1.5SA001S	10	0.7	1.4	1.24	17.5	594
LVIS09CXSWY2012C1.5SA001S	12	0.7	1.4	1.24	18	646
LVIS09CXSWY2014C1.5SA001S	14	0.7	1.4	1.4	18.9	709
LVIS09CXSWY2016C1.5SA001S	16	0.7	1.6	1.4	20.1	807
LVIS09CXSWY2019C1.5SA001S	19	0.7	1.6	1.4	20.9	900
LVIS09CXSWY2021C1.5SA002S	21	0.7	1.6	1.4	21.8	960
LVIS09CXSWY2024C1.5SA001S	24	0.7	1.6	1.4	23.7	1094
LVIS09CXSWY2027C1.5SA002S	27	0.7	1.6	1.4	24.1	1152
LVIS09CXSWY2030C1.5SA001S	30	0.7	1.6	1.4	24.9	1229
LVIS09CXSWY2033C1.5SA001S	33	0.7	1.6	1.4	25.7	1322
LVIS09CXSWY2037C1.5SA001S	37	0.7	1.6	1.4	26.5	1415
LVIS09CXSWY2044C1.5SA002S	44	0.7	1.6	1.56	29.7	1662
LVIS09CXSWY2052C1.5SA002S	52	0.7	1.6	1.56	30.9	1833
LVIS09CXSWY2061C1.5SA002S	61	0.7	2	1.56	33.5	2251

Solid & stranded conductor

The above data is approximate & subject to manufacturing tolerance.

OUR ACCREDITATION



CONTROL CABLE 650/1100 V AC

Electrical characteristics

Cross sectional area Sqmm	Number of cores No's	Max. DC conductor resistance at 20°C Ω/km	Current Rating	
			In Ground (A)	In Air(A)
1.5	2	12.1	31	27
1.5	3	12.1	26	23
1.5	4	12.1	26	23
1.5	5	12.1	26	23
1.5	6	12.1	23	20
1.5	7	12.1	20	18
1.5	8	12.1	17	15
1.5	9	12.1	17	15
1.5	10	12.1	17	15
1.5	12	12.1	16	14
1.5	14	12.1	16	14
1.5	16	12.1	14	12
1.5	19	12.1	14	12
1.5	21	12.1	12	11
1.5	24	12.1	12	11
1.5	27	12.1	11	9
1.5	30	12.1	11	9
1.5	33	12.1	11	9
1.5	37	12.1	11	9
1.5	44	12.1	9	8
1.5	52	12.1	9	8
1.5	61	12.1	9	8

Air Ambient temperature: 40°C, ground ambient temperature: 30°C, Conductor operating temperature: 90°C

OUR ACCREDITATION





Application

POLYCAB 1.5 2XY MC, Stranded/solid copper conductor, XLPE insulated, PVC inner sheathed, and PVC sheathed conforming to IS 7098-1 is suitable for 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.

Voltage Rating

650/1100 V

Operation Temperature

Max.: 90°C

Short circuit temperature 250°C

Construction

- Stranded Copper conductor as per IS 8130, class 1&2
- Insulated with Cross Linked Polyethylene (XLPE) to IS 7098-1
- Extruded inner sheath with PVC Type ST2/FRLS/FR/LSZH
- Sheathed with Extruded PVC Type ST2/FRLS/FR/LSZH

Standard and References

IS 8130:2013

IS 5831:1984

IS 7098-1:1988

Compliance

Conductor resistance

- IS 8130:2013

Insulation resistance

- IS 7098-1:1988

Flammability test

- IEC 60332-1:2015



Core Identification

Red, Yellow, Blue, Black & Grey upto 5Core & 6 Core & above Grey with number printing

Bending Radius

Fixed installation 12 x Overall diameter

OUR ACCREDITATION



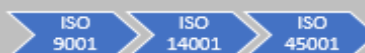
Weight & Dimension Data

Product code	Number of cores No's	Nominal Thickness of Insulation mm	Nominal thickness of outer sheath mm	Overall Diameter mm	Weight (Approx.) kg/km
LVIS09CXUAY2002C1.5SA001S	2	0.7	1.8	10	140
LVIS09CXUAY2003C1.5SA001S	3	0.7	1.8	10.5	160
LVIS09CXUAY2004C1.5SA001P	4	0.7	1.8	11.5	171
LVIS09CXUAY2005C1.5SA002S	5	0.7	1.8	12.1	195
LVIS09CXUAY2006C1.5SA002S	6	0.7	1.8	12.9	222
LVIS09CXUAY2007C1.5SA001S	7	0.7	1.8	12.9	239
LVIS09CXUAY2008C1.5SA001S	8	0.7	1.8	14	275
LVIS09CXUAY2009C1.5SA002S	9	0.7	1.8	15	308
LVIS09CXUAY2010C1.5SA001S	10	0.7	1.8	15.7	327
LVIS09CXUAY2012C1.5SA001S	12	0.7	1.8	16.1	365
LVIS09CXUAY2014C1.5SA002S	14	0.7	1.8	16.8	413
LVIS09CXUAY2016C1.5SA001S	16	0.7	1.8	17.7	460
LVIS09CXUAY2019C1.5SA001S	19	0.7	1.8	18.5	513
LVIS09CXUAY2021C1.5SA002S	21	0.7	2	19.8	560
LVIS09CXUAY2024C1.5SA001S	24	0.7	2	21.7	627
LVIS09CXUAY2027C1.5SA001S	27	0.7	2	22.1	684
LVIS09CXUAY2030C1.5SA001S	30	0.7	2	22.8	741
LVIS09CXUAY2033C1.5SA001S	33	0.7	2	23.7	807
LVIS09CXUAY2037C1.5SA001S	37	0.7	2	24.5	874
LVIS09CXUAY2044C1.5SA002S	44	0.7	2	27.3	1026
LVIS09CXUAY2052C1.5SA002S	52	0.7	2	28.4	1178
LVIS09CXUAY2061C1.5SA001S	61	0.7	2.2	30.7	1387

Solid & stranded conductor

The above data is approximate & subject to manufacturing tolerance.

OUR ACCREDITATION

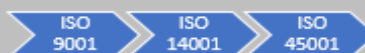


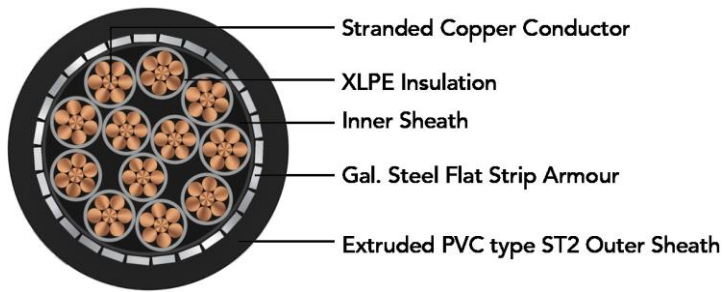
Electrical parameter

Cross sectional area Sqmm	Number of cores No's	Max. DC conductor resistance at 20°C Ω/km	Current Rating	
			In Ground (A)	In Air(A)
1.5	2	12.1	31	27
1.5	3	12.1	26	23
1.5	4	12.1	26	23
1.5	5	12.1	26	23
1.5	6	12.1	23	20
1.5	7	12.1	20	18
1.5	8	12.1	17	15
1.5	9	12.1	17	15
1.5	10	12.1	17	15
1.5	12	12.1	16	14
1.5	14	12.1	16	14
1.5	16	12.1	14	12
1.5	19	12.1	14	12
1.5	21	12.1	12	11
1.5	24	12.1	12	11
1.5	27	12.1	11	9
1.5	30	12.1	11	9
1.5	33	12.1	11	9
1.5	37	12.1	11	9
1.5	44	12.1	9	8
1.5	52	12.1	9	8
1.5	61	12.1	9	8

Air Ambient temperature: 40°C, ground ambient temperature: 30°C, Conductor operating temperature: 90°C

OUR ACCREDITATION





Application

POLYCAB 2.5 2XFY MC, Stranded/solid copper conductor, XLPE insulated, Galvanised Steel strip armour and PVC sheathed confirming to IS 7098-1 is suitable for 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.

Voltage Rating

650/1100 V

Operation Temperature

Max.: 90°C

Short circuit temperature 250°C

Construction

- Stranded Copper conductor as per IS 8130, class 1&2
- Insulated with Cross Linked Polyethylene (XLPE) to IS 7098-1
- Armoured with Galvanised Steel strip to IS 3975
- Extruded inner sheath with PVC Type ST2/FRLS/FR/LSZH
- Sheathed with Extruded PVC Type ST2/FRLS/FR/LSZH
-

Core Identification

Grey with number printing

Outer sheath colour: Black

*Other colour also available on request.

Bending Radius

Fixed installation 12 x Overall diameter

Standard and References

IS 8130:2013

IS 5831:1984

IS 3975:1979

IS 7098-1:1988

Compliance

Conductor resistance

- IS 8130:2013

Insulation resistance

- IS 7098-1:1988

Flammability test

- IEC 60332-1:2015



OUR ACCREDITATION



CONTROL CABLE 650/1100 V AC

Weight & Dimension Data

Product code	Number of cores	Nominal Thickness of Insulation	Nominal dimension of Armour flat wire	Minimum thickness of outer sheath	Overall Diameter	Weight (Approx.)
	No's	mm	mm	mm	mm	kg/km
LVIS09CXSFY2010C2.5SA001S	10	0.7	4x0.8	1.24	17.8	624
LVIS09CXSFY2012C2.5SA001S	12	0.7	4x0.8	1.4	18.5	694
LVIS09CXSFY2014C2.5SA001S	14	0.7	4x0.8	1.4	19.3	780
LVIS09CXSFY2016C2.5SA001S	16	0.7	4x0.8	1.4	20.2	867
LVIS09CXSFY2019C2.5SA001S	19	0.7	4x0.8	1.4	21.2	960
LVIS09CXSFY2021C2.5SA001S	21	0.7	4x0.8	1.4	22.2	1016
LVIS09CXSFY2024C2.5SA001S	24	0.7	4x0.8	1.4	24.4	1159
LVIS09CXSFY2027C2.5SA002S	27	0.7	4x0.8	1.4	24.9	1235
LVIS09CXSFY2030C2.5SA001S	30	0.7	4x0.8	1.4	25.7	1349
LVIS09CXSFY2033C2.5SA001S	33	0.7	4x0.8	1.4	26.6	1437
LVIS09CXSFY2037C2.5SA001S	37	0.7	4x0.8	1.4	27.6	1567
LVIS09CXSFY2044C2.5SA001S	44	0.7	4x0.8	1.56	31.3	1862
LVIS09CXSFY2052C1.5SA001S	52	0.7	4x0.8	1.56	32.6	2109
LVIS09CXSFY2061C2.5SA001S	61	0.7	4x0.8	1.56	34.5	2375

Solid & stranded conductor .The above data is approximate & subject to manufacturing tolerance.

Electrical parameter

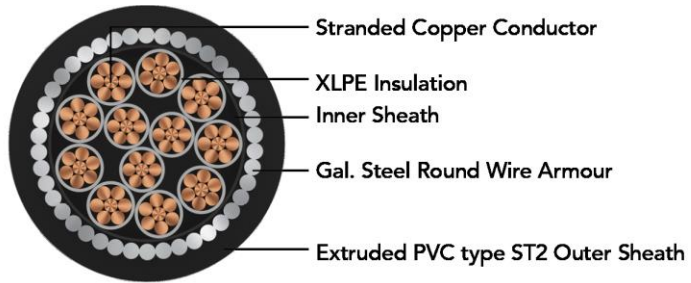
Cross sectional area	Number of cores	Max. DC conductor resistance at 20°C	Current Rating	
			In Ground (A)	In Air(A)
Sqmm	No's	Ω/km		
2.5	10	7.41	23	20
2.5	12	7.41	20	18
2.5	14	7.41	20	18
2.5	16	7.41	18	16
2.5	19	7.41	18	16
2.5	21	7.41	16	14
2.5	24	7.41	16	14
2.5	27	7.41	14	13
2.5	30	7.41	14	13
2.5	33	7.41	14	13
2.5	37	7.41	14	13
2.5	44	7.41	12	11
2.5	52	7.41	12	11
2.5	61	7.41	12	11

Air Ambient temperature: 40°C, ground ambient temperature: 30°C, Conductor operating temperature: 90°C

OUR ACCREDITATION



CONTROL CABLE 650/1100 V AC



Application

POLYCAB 2.5 2XWY MC, Stranded/solid copper conductor, XLPE insulated, Galvanised Steel round wire armour and PVC sheathed conforming to IS 7098-1 is suitable for 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.

Voltage Rating

650/1100 V

Operation Temperature

Max.: 90°C

Short circuit temperature 250°C

Construction

- Stranded Copper conductor as per IS 8130, class 1&2
- Insulated with Cross Linked Polyethylene (XLPE) to IS 7098-1
- Armoured with Galvanised Steel round wire to IS 3975
- Extruded inner sheath with PVC Type ST2/FRLS/FR/LSZH
- Sheathed with Extruded PVC Type ST2/FRLS/FR/LSZH

Core Identification

Red, Yellow, Blue, Black & Grey upto 5Core & 6 Core & above Grey with number printing

Outer sheath colour: Black

*Other colour also available on request.

Bending Radius

Fixed installation 12 x Overall diameter

Standard and References

IS 8130:2013

IS 5831:1984

IS 3975:1979

IS 7098-1:1988

Compliance

Conductor resistance

- IS 8130:2013

Insulation resistance

- IS 7098-1:1988

Flammability test

- IEC 60332-1:2015



OUR ACCREDITATION



CONTROL CABLE 650/1100 V AC

Weight & Dimension Data

Product code	Number of cores	Nominal Thickness of Insulation mm	Nominal dimension of Armour round wire mm	Minimum thickness of outer sheath mm	Overall Diameter mm	Weight (Approx.) kg/km
LVIS09CXSWY2002C2.5SA002S	2	0.7	1.4	1.24	12.7	342
LVIS09CXSWY2003C2.5SA002S	3	0.7	1.4	1.24	13.2	360
LVIS09CXSWY2004C2.5SA002S	4	0.7	1.4	1.24	14	406
LVIS09CXSWY2005C2.5SA002S	5	0.7	1.4	1.24	14.9	464
LVIS09CXSWY2006C2.5SA001S	6	0.7	1.4	1.24	15.9	522
LVIS09CXSWY2007C2.5SA001S	7	0.7	1.4	1.24	15.9	549
LVIS09CXSWY2008C2.5SA001S	8	0.7	1.4	1.24	17	608
LVIS09CXSWY2009C2.5SA001S	9	0.7	1.4	1.4	18.5	684
LVIS09CXSWY2010C2.5SA001S	10	0.7	1.6	1.4	19.6	789
LVIS09CXSWY2012C2.5SA001S	12	0.7	1.6	1.4	20.1	865
LVIS09CXSWY2014C2.5SA001S	14	0.7	1.6	1.4	20.9	944
LVIS09CXSWY2016C2.5SA001S	16	0.7	1.6	1.4	21.9	1023
LVIS09CXSWY2019C2.5SA001S	19	0.7	1.6	1.4	22.8	1147
LVIS09CXSWY2021C2.5SA001S	21	0.7	1.6	1.4	23.9	1243
LVIS09CXSWY2024C2.5SA001S	24	0.7	1.6	1.4	26	1387
LVIS09CXSWY2027C2.5SA002S	27	0.7	1.6	1.4	26.5	1482
LVIS09CXSWY2030C2.5SA001S	30	0.7	1.6	1.4	27.3	1586
LVIS09CXSWY2033C2.5SA001S	33	0.7	1.6	1.56	28.6	1729
LVIS09CXSWY2037C2.5SA001S	37	0.7	1.6	1.56	29.6	1852
LVIS09CXSWY2044C2.5SA002S	44	0.7	2	1.56	33.7	2356
LVIS09CXSWY2052C2.5SA002S	52	0.7	2	1.56	35	2631
LVIS09CXSWY2061C2.5SA002S	61	0.7	2	1.56	36.9	2926

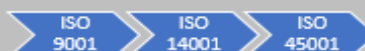
Solid & stranded conductor

The above data is approximate & subject to manufacturing tolerance.

Electrical parameter

Cross sectional area Sqmm	Number of cores No's	Max. DC conductor resistance at 20°C Ω/km	Current Rating	
			In Ground (A)	In Air(A)
2.5	2	7.41	41	36
2.5	3	7.41	34	30
2.5	4	7.41	34	30
2.5	5	7.41	34	30
2.5	6	7.41	31	27
2.5	7	7.41	27	23
2.5	8	7.41	23	20

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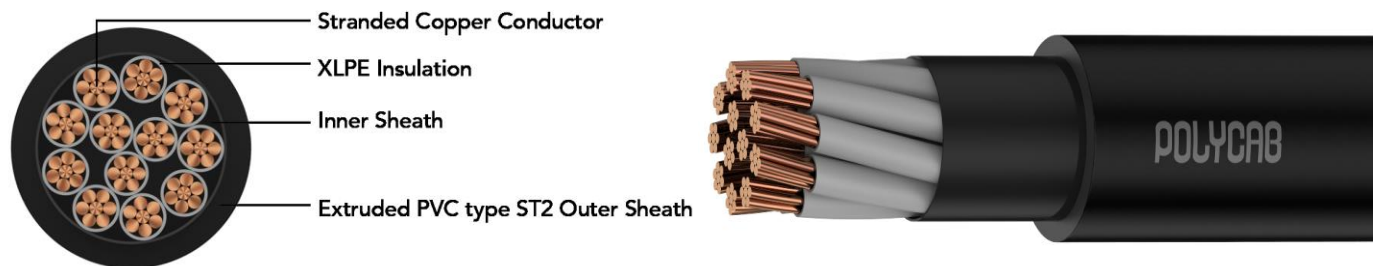


Cross sectional area Sqmm	Number of cores No's	Max. DC conductor resistance at 20°C Ω/km	Current Rating	
			In Ground (A)	In Air(A)
2.5	9	7.41	23	20
2.5	10	7.41	23	20
2.5	12	7.41	20	18
2.5	14	7.41	20	18
2.5	16	7.41	18	16
2.5	19	7.41	18	16
2.5	21	7.41	16	14
2.5	24	7.41	16	14
2.5	27	7.41	14	13
2.5	30	7.41	14	13
2.5	33	7.41	14	13
2.5	37	7.41	14	13
2.5	44	7.41	12	11
2.5	52	7.41	12	11
2.5	61	7.41	12	11

Air Ambient temperature: 40°C, ground ambient temperature: 30°C, Conductor operating temperature: 90°C

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Application

POLYCAB 2.5 2XY MC, Stranded/solid copper conductor, XLPE insulated, PVC inner sheathed, and PVC sheathed conforming to IS 7098-1 is suitable for 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.

Voltage Rating

650/1100 V

Operation Temperature

Max.: 90°C

Short circuit temperature 250°C

Construction

- Stranded Copper conductor as per IS 8130, class 1&2
- Insulated with Cross Linked Polyethylene (XLPE) to IS 7098-1
- Extruded inner sheath with PVC Type ST2/FRLS/FR/LSZH
- Sheathed with Extruded PVC Type ST2/FRLS/FR/LSZH

Core Identification

Red, Yellow, Blue, Black & Grey upto 5Core & 6 Core & above Grey with number printing

Bending Radius

Fixed installation 12 x Overall diameter

Standard and References

IS 8130:2013

IS 5831:1984

IS 7098-1:1988

Compliance

Conductor resistance	- IS 8130:2013
Insulation resistance	- IS 7098-1:1988
Flammability test	- IEC 60332-1:2015



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Weight & Dimension Data

Product code	Number of cores	Nominal Thickness of Insulation	Nominal thickness of outer sheath	Overall Diameter	Weight (Approx.)
	No's	mm	mm	mm	kg/km
LVIS09CXUAY2002C2.5SA003S	2	0.7	1.8	10.9	173
LVIS09CXUAY2003C2.5SA001S	3	0.7	1.8	11.4	202
LVIS09CXUAY2004C2.5SA002S	4	0.7	1.8	12.2	218
LVIS09CXUAY2005C2.5SA003S	5	0.7	1.8	13.1	254
LVIS09CXUAY2006C2.5SA001S	6	0.7	1.8	14	291
LVIS09CXUAY2007C2.5SA001S	7	0.7	1.8	14	313
LVIS09CXUAY2008C2.5SA001S	8	0.7	1.8	16	342
LVIS09CXUAY2009C2.5SA001S	9	0.7	1.8	16.5	385
LVIS09CXUAY2010C2.5SA001S	10	0.7	1.8	17.2	427
LVIS09CXUAY2012C2.5SA001S	12	0.7	1.8	17.7	484
LVIS09CXUAY2014C2.5SA002S	14	0.7	1.8	18.5	551
LVIS09CXUAY2016C2.5SA002S	16	0.7	2	19.8	636
LVIS09CXUAY2019C2.5SA001S	19	0.7	2	20.8	722
LVIS09CXUAY2021C2.5SA001S	21	0.7	2	21.8	769
LVIS09CXUAY2024C2.5SA002S	24	0.7	2	24	864
LVIS09CXUAY2027C2.5SA001S	27	0.7	2	24.5	950
LVIS09CXUAY2030C2.5SA001S	30	0.7	2	25.3	1035
LVIS09CXUAY2033C2.5SA001S	33	0.7	2	26.2	1130
LVIS09CXUAY2037C2.5SA001S	37	0.7	2	27.2	1235
LVIS09CXUAY2044C2.5SA001S	44	0.7	2.2	30.9	1501
LVIS09CXUAY2052C2.5SA002S	52	0.7	2.2	32.2	1719
LVIS09CXUAY2061C2.5SA001S	61	0.7	2.2	34.1	1976

Solid & stranded conductor

The above data is approximate & subject to manufacturing tolerance.

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CONTROL CABLE 650/1100 V AC

Electrical parameter

Cross sectional area Sqmm	Number of cores No's	Max. DC conductor resistance at 20°C Ω/km	Current Rating	
			In Ground (A)	In Air(A)
2.5	2	7.41	41	36
2.5	3	7.41	34	30
2.5	4	7.41	34	30
2.5	5	7.41	34	30
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2.5	24	7.41	16	14
2.5	27	7.41	14	13
2.5	30	7.41	14	13
2.5	33	7.41	14	13
2.5	37	7.41	14	13
2.5	44	7.41	12	11
2.5	52	7.41	12	11
2.5	61	7.41	12	11

Air Ambient temperature: 40°C, ground ambient temperature: 30°C, Conductor operating temperature: 90°C

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