



## CABLES ENGINEERED TO WITHSTAND DEMANDING CHALLENGES!

XLPE INSULATED  
HEAVY DUTY CABLES  
650/1100V





## Company Profile

Polycab an ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 company is India's no.1 cables & wires company with a glorious track record of over 4 decades. our manufacturing facilities at Halol (vadodara), Daman, Nashik and Roorkee in India, addresses to the specific needs with state-of-the-art machinery and technology.

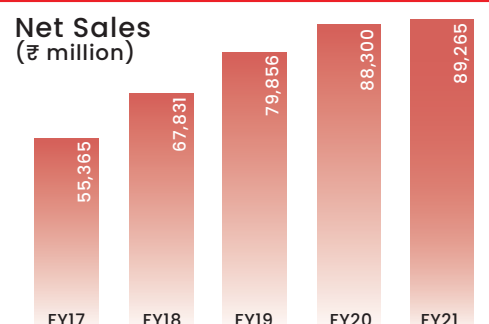
Polycab's turnover has crossed INR 8900 crore's in the fiscal year 2020-21. Polycab derives its strength from its customers and those being in sectors like utilities, power generation, transmission & distribution, petroleum & oil refineries, oems, epc contractors, steel & metal, cement, chemical, atomic energy, nuclear plants, as well as government partners like BSNL, Railways and private telecom operators like Reliance, Vodafone, Airtel, Aircel, Tata, Idea and many more.

## Things you didn't know about Polycab

- Between its facilities in Daman, Halol (vadodara), Nashik and Roorkee the company has 3.5 million square feet of manufacturing space.
- Polycab manufactures enough cable each year to circumnavigate the earth three and a half times and enough wire to go to the moon and come back – four times.
- Polycab has increased its turnover 100 times in sixteen years.
- Over 300 authorised distributors service its india needs and its overseas interests.

## Polycab offers a variety of services

- Commercially reasonable prices
- Reliable & consistent quality
- Product development as per market
- A target stocking policy
- Technical support for application









XLPE insulated heavy duty cables were introduced worldwide in mid-sixties. These cables have overcome the limitations of PVC insulated cables such as thermal degradation, poor moisture resistance and thermoplastic nature.

The advantages of XLPE insulated cables in comparison to PVC insulated cables are as under.

### APPLICATION:

The cables are suitable for use on AC single phase or three phase (earthed or unearthed) systems for rated voltage up to and including 1100 Volts. These cables can be used on DC systems for rated voltage up to and including 1500 Volts to earth.

### A. Technical Advantages:

- Higher current rating, higher short circuit rating approx. 1.2 times that of PVC.
- Thermosetting in nature
- Higher insulation resistance 1000 times more than PVC cables.
- Higher resistance to moisture
- Better resistance to surge currents.
- Low dielectric losses.
- Better resistance to chemicals.
- Longer service life.
- Comparatively higher cable temperature 90° C and short circuit temperature 250° C.



### B. Commercial Advantages:

- Lower laying cost because of comparatively smaller diameter of cable and higher weight\*.
- Lower installation charges as the diameter of cable is comparatively lesser with smaller bending radius, required less space requirement for laying cables.

\*\* One size lower cable can be used as compared to PVC insulated cable.

\* Density of XLPE is lower than PVC

\*\* For longer cable length voltage drop shall be considered

Polycab Cables of 0.6/1(1.2)KV 4C X 300 Sq.mm, 1C X 800 Sq.mm has been successfully type tested at DEKRA-Netherland

### Advantages of Polycab XLPE



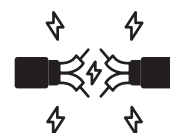
HIGHER ELECTRICAL  
STRENGTH RETENTION



HIGHER SHORT  
CIRCUIT RATING



BETTER ELECTRICAL,  
MECHANICAL &  
THERMAL PROPERTIES



EASY JOINTING &  
TERMINATION

Power cables are generally selected considering the application. However following factors are important for selection of suitable cable construction required to transport electrical energy from one end to the other.

- Maximum operating voltage.
- Fault level.
- Load to be carried.
- Possible overloading duration & magnitude.
- Route length and voltage drop.
- Mode of installation considering installation environment such as ambient & ground temperature as well as chemical & physical properties of soil, Grouping factors, arrangement of cables during installation.
- Flame retardant properties.

All size of POLYCAB XLPE cables are designed for standard operating conditions in India and abroad. The standard adopted are after duly considering the geographical /climactical conditions and general applications of power for utilities, distribution, and generation purpose.

The cables are manufactured conforming to Indian & International cables specification for XLPE insulated cables. Customer specific requirement can also be met.

### Basic assumptions

The current rating given as per before mentioned following assumptions

- Maximum conductor temperature :90°C
- Thermal resistivity of soil :1.5K.m/w
- Ground temperature: 30°C
- Ambient air temperature :40 °C
- Dept of laying (measured to: 750 mm)



COMPARATIVE CURRENT RATING OF 650/1100 VOLTS MULTICORE HEAVY-DUTY PVC INSULATED CABLES & XLPE INSULATED CABLES. (3, 3.5 & 4 Core Unarmored /Armored PVC Sheathed cables with Aluminum conductor.)

| Nominal size of cables | 3, 3.5 & 4 Core PVC Insulated & Sheathed Cables as per IS-1554-P1 |        |                      | 3, 3.5 & 4 Core XLPE Insulated & Sheathed Cables as per IS-7098-P1 |        |                      |
|------------------------|-------------------------------------------------------------------|--------|----------------------|--------------------------------------------------------------------|--------|----------------------|
|                        | In Ground                                                         | In Air | Approx. Voltage drop | In Ground                                                          | In Air | Approx. Voltage drop |
| Sq.mm                  | Amp                                                               | Amp    | mv/amp/mtr           | Amp                                                                | Amp    | mv/amp/mtr           |
| 16                     | 61                                                                | 52     | 3.96                 | 74                                                                 | 69     | 4.24                 |
| 25                     | 78                                                                | 70     | 2.49                 | 95                                                                 | 93     | 2.67                 |
| 35                     | 94                                                                | 85     | 1.8                  | 114                                                                | 114    | 1.94                 |
| 50                     | 111                                                               | 104    | 1.34                 | 134                                                                | 138    | 1.43                 |
| 70                     | 136                                                               | 131    | 0.93                 | 164                                                                | 175    | 0.99                 |
| 95                     | 163                                                               | 162    | 0.68                 | 197                                                                | 216    | 0.72                 |
| 120                    | 185                                                               | 186    | 0.54                 | 223                                                                | 249    | 0.58                 |
| 150                    | 206                                                               | 212    | 0.45                 | 249                                                                | 284    | 0.48                 |
| 185                    | 234                                                               | 245    | 0.36                 | 282                                                                | 329    | 0.39                 |
| 240                    | 271                                                               | 291    | 0.29                 | 327                                                                | 392    | 0.31                 |
| 300                    | 305                                                               | 335    | 0.25                 | 369                                                                | 452    | 0.26                 |
| 400                    | 348                                                               | 390    | 0.21                 | 420                                                                | 526    | 0.21                 |

## Comparison Of Short Circuit Rating For 1 Second Duration For

\*PVC & XLPE Insulated Cables \*\* with copper and Aluminium Conductors. (Current in kAmps)

| Nominal size | PVC Insulated |           | XLPE Insulated |           |
|--------------|---------------|-----------|----------------|-----------|
|              | Copper        | Aluminium | Copper         | Aluminium |
| Sq.mm        |               |           |                |           |
| 1.5          | 0.173         | -         | 0.21           | -         |
| 2.5          | 0.29          | -         | 0.36           | -         |
| 4            | 0.46          | 0.3       | 0.57           | 0.38      |
| 6            | 0.69          | 0.46      | 0.86           | 0.57      |
| 10           | 1.15          | 0.76      | 1.43           | 0.95      |
| 16           | 1.84          | 1.22      | 2.29           | 1.51      |
| 25           | 2.88          | 1.9       | 3.58           | 2.36      |
| 35           | 4.03          | 2.66      | 5.01           | 3.31      |
| 50           | 5.75          | 3.8       | 7.16           | 4.73      |
| 70           | 8.05          | 5.32      | 10.02          | 6.62      |
| 95           | 10.93         | 7.22      | 13.59          | 8.98      |
| 120          | 13.8          | 9.12      | 17.17          | 11.34     |
| 150          | 17.25         | 11.4      | 21.47          | 14.18     |
| 185          | 21.27         | 14.06     | 26.47          | 17.48     |
| 240          | 27.6          | 18.24     | 34.34          | 22.68     |
| 300          | 34.5          | 22.8      | 42.93          | 28.35     |
| 400          | 46            | 30.4      | 57.24          | 37.8      |
| 500          | 57.5          | 38        | 71.55          | 47.25     |
| 630          | 72.45         | 47.88     | 90.15          | 59.54     |
| 800          | 92            | 60.8      | 114.48         | 75.6      |
| 1000         | 115           | 76        | 143.1          | 94.5      |

\*PVC Type A Insulation as per IS 5831-84

\*\*PVC Cables as per IS-1554-P1

\*\*XLPE cables as per IS 7098-P1

1. Max.Conductor Temperature during

| Operation | PVC  | XLPE |
|-----------|------|------|
|           | 70°C | 90°C |

2. Max.Conductor temperature during short circuit

|  |       |       |
|--|-------|-------|
|  | 160°C | 250°C |
|--|-------|-------|

Formula relating short circuit rating with duration

$$I_{sh} = K \cdot A \sqrt{t}$$

A = Cross sectional area in Sq.mm

T = Duration in second

K = Constant

I<sub>sh</sub> = Short circuit current, kA

## Approximate Capacitance (Microfarads/Km) 1.1 KV XLPE CABLES

## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

| Nominal Area of Conductor | Single Core | Two Core | Three, Three & Half and Four Core |
|---------------------------|-------------|----------|-----------------------------------|
|                           | Armoured    | Armoured | Armoured                          |
| 1.5                       | -           | 0.18     | 0.18                              |
| 2.5                       | -           | 0.21     | 0.21                              |
| 4                         | -           | 0.25     | 0.25                              |
| 6                         | -           | 0.29     | 0.29                              |
| 10                        | 0.34        | 0.36     | 0.36                              |
| 16                        | 0.4         | 0.43     | 0.43                              |
| 25                        | 0.42        | 0.43     | 0.43                              |
| 35                        | 0.47        | 0.50     | 0.50                              |
| 50                        | 0.5         | 0.53     | 0.53                              |
| 70                        | 0.55        | 0.57     | 0.56                              |
| 95                        | 0.62        | 0.65     | 0.65                              |
| 120                       | 0.66        | 0.67     | 0.67                              |
| 150                       | 0.64        | 0.65     | 0.64                              |
| 185                       | 0.66        | 0.63     | 0.63                              |
| 240                       | 0.70        | 0.68     | 0.67                              |
| 300                       | 0.74        | 0.71     | 0.71                              |
| 400                       | 0.75        | 0.73     | 0.72                              |
| 500                       | 0.78        | 0.74     | 0.74                              |
| 630                       | 0.82        | 0.77     | 0.77                              |
| 800                       | 0.83        | -        | -                                 |
| 1000                      | 0.87        | -        | -                                 |

## Approximate Reactance At 50 Hz (Ohm/km) 1.1 Kv Xlpe Cables

| Nominal Area of Conductor (Sq.mm) | Single Core |          | Multi core |
|-----------------------------------|-------------|----------|------------|
|                                   | Unarmoured  | Armoured |            |
| 1.5                               | 0.154       | -        | 0.105      |
| 2.5                               | 0.143       | -        | 0.099      |
| 4                                 | 0.134       | -        | 0.0933     |
| 6                                 | 0.125       | -        | 0.0888     |
| 10                                | 0.116       | 0.131    | 0.0842     |
| 16                                | 0.110       | 0.124    | 0.0802     |
| 25                                | 0.105       | 0.117    | 0.0808     |
| 35                                | 0.101       | 0.112    | 0.0787     |
| 50                                | 0.0937      | 0.108    | 0.0780     |
| 70                                | 0.0910      | 0.100    | 0.0742     |
| 95                                | 0.0879      | 0.099    | 0.0725     |
| 120                               | 0.0850      | 0.0951   | 0.0713     |
| 150                               | 0.0855      | 0.0936   | 0.0718     |
| 185                               | 0.0839      | 0.0913   | 0.072      |
| 240                               | 0.0820      | 0.0887   | 0.0713     |
| 300                               | 0.0801      | 0.0868   | 0.0703     |
| 400                               | 0.0792      | 0.0861   | 0.0702     |
| 500                               | 0.0780      | 0.0843   | 0.0700     |
| 630                               | 0.0767      | 0.0829   | 0.0697     |
| 800                               | 0.0762      | 0.0819   | -          |
| 1000                              | 0.0757      | 0.0820   | -          |

## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

| Nominal<br>Area of<br>Conductor | Minimum no.of<br>wires |    |                        |    | Max.D.C Resistance<br>at 20°C |           | A.C Resistance at<br>90°C |           |
|---------------------------------|------------------------|----|------------------------|----|-------------------------------|-----------|---------------------------|-----------|
|                                 | Non compacted          |    | Compacted/Round/Shaped |    | Plain copper                  | Aluminium | Plain copper              | Aluminium |
| Sq.mm                           | Cu                     | Al | Cu                     | Al | Ohm/Km                        | Ohm/Km    | Ohm/Km                    | Ohm/Km    |
| 1.5*                            | 3                      | 3  | -                      | -  | 12.1                          | 18.1      | 15.4                      | 23.2      |
| 2.5*                            | 3                      | 3  | -                      | -  | 7.41                          | 12.1      | 9.45                      | 15.5      |
| 4*                              | 7                      | 3  | -                      | -  | 4.61                          | 7.41      | 5.88                      | 9.5       |
| 6*                              | 7                      | 3  | -                      | -  | 3.08                          | 4.61      | 3.93                      | 5.91      |
| 10*                             | 7                      | 7  | 6                      | -  | 1.83                          | 3.08      | 2.33                      | 3.95      |
| 16                              | 7                      | 7  | 6                      | 6  | 1.15                          | 1.91      | 1.47                      | 2.44      |
| 25                              | 7                      | 7  | 6                      | 6  | 0.727                         | 1.2       | 0.93                      | 1.54      |
| 35                              | 7                      | 7  | 6                      | 6  | 0.524                         | 0.868     | 0.668                     | 1.11      |
| 50                              | 19                     | 19 | 6                      | 6  | 0.387                         | 0.641     | 0.494                     | 0.82      |
| 70                              | 19                     | 19 | 12                     | 12 | 0.268                         | 0.443     | 0.342                     | 0.568     |
| 95                              | 19                     | 19 | 15                     | 15 | 0.193                         | 0.32      | 0.247                     | 0.41      |
| 120                             | 37                     | 37 | 18                     | 15 | 0.153                         | 0.253     | 0.196                     | 0.325     |
| 150                             | 37                     | 37 | 18                     | 15 | 0.124                         | 0.206     | 0.159                     | 0.264     |
| 185                             | 37                     | 37 | 30                     | 30 | 0.0991                        | 0.164     | 0.128                     | 0.211     |
| 240                             | 61                     | 37 | 34                     | 30 | 0.0754                        | 0.125     | 0.0985                    | 0.161     |
| 300                             | 61                     | 61 | 34                     | 30 | 0.0601                        | 0.100     | 0.0796                    | 0.129     |
| 400                             | 61                     | 61 | 53                     | 53 | 0.0470                        | 0.0778    | 0.0637                    | 0.101     |
| 500                             | 61                     | 61 | 53                     | 53 | 0.0366                        | 0.0605    | 0.0515                    | 0.0786    |
| 630                             | 91                     | 91 | 53                     | 53 | 0.0283                        | 0.0469    | 0.0421                    | 0.0615    |
| 800                             | 91                     | 91 | 53                     | 53 | 0.0221                        | 0.0367    | 0.0354                    | 0.0488    |
| 1000                            | 91                     | 91 | 53                     | 53 | 0.0176                        | 0.0291    | 0.0225                    | 0.0372    |

\*These sizes can be manufactured with solid conductor having single strand.

## Polycab Preconditions For Current Rating

1.The values given in the table are valid for on circuit in three phase systems under conditions specified. For grouping cable ratings factor must be used.

2.The current rating carrying capacities mentioned in POLYCAB technical data are intended as a guide, to assist operating engineers in selecting cable for safety and reliability.

3.Basic assumption and condition of installation

- Ambient Ground temperature: 30 °C
- Ambient air temperature: 40 °C
- Dept of Cable Burial: 750 mm
- Thermal resistivity of soil : 1.5K.m/w

4.Single core cable are installed as indicated in the table spacing between cables in flat formation is as indicated

5.For 3 and 4 cables, it is usual to assume the same current carrying capacity for 4 core cable as for 3 core cable. Our calculated values are based actually on 3 core cable. These values are suitable with enough accuracy also for 4 cables in most cases. Only for large 4 core cables in air the values are too conservative due to the large cables surface and consequent high heat dissipation factor.

6.To obtain the maximum current carrying capacity of a cable operating at different condition from the standard, various rating factors are to be multiplied as follow.

$I_a = K I_s$  (in Amperes)

Where,

$I_a$  = Current rating at actual operating conditions (amperes)

$I_s$  = Current rating at standard operating conditions (amperes)

$K$  = Rating factor as applicable





#### APPLICATION

POLYCAB 2XWaY/2XFaY SC, stranded compacted copper conductor, XLPE insulated and PVC sheathed armoured cable 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

#### STANDARD AND REFERENCES

IS 8130:2013  
IS 5831:1984  
IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### COMPLIANCE

Conductor resistance - IS 8130:2013  
Insulation resistance - IS 7098-1:1988  
Flammability test - IEC 60332-1-2:2015

#### CORE IDENTIFICATION

Red/Black/Yellow/Blue/Natural

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

- Stranded plain compacted copper conductor as per IS 8130, class 2
- Insulated with Cross Linked Polyethylene (XLPE) to IS 7098-1
- Armoured with Aluminium Round wire/Flat strip armoured
- Sheathed with PVC Type ST2/FRLS/FR/LSZH



## Weight & Dimension Data

### 2XWaY

| Product code              | Nominal cross-sectional area | Nominal Thickness of Insulation | Nominal dimension of Armour round wire | Minimum thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|---------------------------------|----------------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          | mm                              | mm                                     | mm                                | mm               | kg/km            |
| LVIS09CXAwy2001C010SA001P | 1 x 10                       | 1                               | 1.4                                    | 1.24                              | 12               | 219              |
| LVIS09CXAwy2001C016SA002S | 1 x 16                       | 1                               | 1.4                                    | 1.24                              | 13               | 281              |
| LVIS09CXAwy2001C025SA002S | 1 x 25                       | 1.2                             | 1.4                                    | 1.24                              | 14               | 390              |
| LVIS09CXAwy2001C035SA002S | 1 x 35                       | 1.2                             | 1.4                                    | 1.24                              | 16               | 485              |
| LVIS09CXAwy2001C050SA002S | 1 x 50                       | 1.3                             | 1.4                                    | 1.24                              | 17               | 608              |
| LVIS09CXAwy2001C070SA002S | 1 x 70                       | 1.4                             | 1.4                                    | 1.24                              | 19               | 817              |
| LVIS09CXAwyL001C095SA001S | 1 x 95                       | 1.4                             | 1.6                                    | 1.4                               | 22               | 1102             |
| LVIS09CXAwy2001C120SA002S | 1 x 120                      | 1.5                             | 1.6                                    | 1.4                               | 23.5             | 1339             |
| LVIS09CXAwy2001C150SA002S | 1 x 150                      | 1.7                             | 1.6                                    | 1.4                               | 24.5             | 1615             |
| LVIS09CXAwy2001C185SA002S | 1 x 185                      | 1.9                             | 1.6                                    | 1.4                               | 26.5             | 1976             |
| LVIS09CXAwy2001C240SA001S | 1 x 240                      | 2                               | 1.6                                    | 1.4                               | 29               | 2508             |
| LVIS09CXAwy2001C300SA002S | 1 x 300                      | 2.1                             | 1.6                                    | 1.56                              | 31.5             | 3078             |
| LVIS09CXAwy2001C400SA001S | 1 x 400                      | 2.4                             | 2                                      | 1.56                              | 36               | 3962             |
| LVIS09CXAwy2001C500SA001S | 1 x 500                      | 2.6                             | 2                                      | 1.56                              | 39.5             | 4969             |
| LVIS09CXAwy2001C630SA001S | 1 x 630                      | 2.8                             | 2                                      | 1.72                              | 43               | 6318             |
| LVIS09CXAwy2001C800SA001S | 1 x 800                      | 3.1                             | 2                                      | 1.88                              | 48.5             | 7990             |
| LVIS09CXAwy2001C01KSA002S | 1 x 1000                     | 3.3                             | 2.5                                    | 2.04                              | 54               | 10051            |

### 2XFaY

| Product code              | Nominal cross-sectional area | Nominal Thickness of Insulation | Nominal dimension of Armour Flat wire | Minimum thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|---------------------------------|---------------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          | mm                              | mm                                    | mm                                | mm               | kg/km            |
| LVIS09CXAFY2001C095SA002S | 1 x 95                       | 1.4                             | 4x0.8                                 | 1.4                               | 18.6             | 1036             |
| LVIS09CXAFY2001C120SA002S | 1 x 120                      | 1.5                             | 4x0.8                                 | 1.4                               | 20.4             | 1264             |
| LVIS09CXAFY2001C150SA002S | 1 x 150                      | 1.7                             | 4x0.8                                 | 1.4                               | 22.2             | 1530             |
| LVIS09CXAFY2001C185SA002S | 1 x 185                      | 1.9                             | 4x0.8                                 | 1.4                               | 24.4             | 1890             |
| LVIS09CXAFY2001C240SA002S | 1 x 240                      | 2                               | 4x0.8                                 | 1.4                               | 26.6             | 2404             |
| LVIS09CXAFY2001C300SA002S | 1 x 300                      | 2.1                             | 4x0.8                                 | 1.56                              | 29.6             | 2974             |
| LVIS09CXAFY2001C400SA002S | 1 x 400                      | 2.4                             | 4x0.8                                 | 1.56                              | 33.2             | 3726             |
| LVIS09CXAFY2001C500SA002S | 1 x 500                      | 2.6                             | 4x0.8                                 | 1.56                              | 36.7             | 4770             |
| LVIS09CXAFY2001C630SA002S | 1 x 630                      | 2.8                             | 4x0.8                                 | 1.72                              | 41.2             | 6070             |
| LVIS09CXAFY2001C800SA002S | 1 x 800                      | 3.1                             | 4x0.8                                 | 1.88                              | 45.1             | 7676             |
| LVIS09CXAFY2001C01KSA002S | 1 x 1000                     | 3.3                             | 4x0.8                                 | 2.04                              | 50.6             | 9567             |

The above data is approximate & subject to manufacturing tolerance.

## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

| Nominal cross-sectional area | Buried direct in the ground |                     | In single way Ducts  |                     | In air               |                     | Max. DC conductor resistance at 20°C |
|------------------------------|-----------------------------|---------------------|----------------------|---------------------|----------------------|---------------------|--------------------------------------|
|                              | 2 single core cables        | 3 single core cable | 2 single core cables | 3 single core cable | 2 single core cables | 3 single core cable |                                      |
| mm²                          | Amp.                        | Amp.                | Amp.                 | Amp.                | Amp.                 | Amp.                | Ω/km                                 |
| 10                           | 90                          | 77                  | 76                   | 70                  | 83                   | 71                  | 1.83                                 |
| 16                           | 115                         | 98                  | 97                   | 89                  | 108                  | 94                  | 1.15                                 |
| 25                           | 148                         | 126                 | 124                  | 114                 | 144                  | 126                 | 0.727                                |
| 35                           | 177                         | 150                 | 148                  | 136                 | 176                  | 154                 | 0.524                                |
| 50                           | 208                         | 177                 | 174                  | 160                 | 212                  | 187                 | 0.387                                |
| 70                           | 255                         | 216                 | 213                  | 195                 | 269                  | 238                 | 0.268                                |
| 95                           | 312                         | 260                 | 256                  | 233                 | 340                  | 303                 | 0.193                                |
| 120                          | 355                         | 295                 | 291                  | 264                 | 396                  | 354                 | 0.153                                |
| 150                          | 396                         | 329                 | 324                  | 294                 | 450                  | 403                 | 0.124                                |
| 185                          | 447                         | 371                 | 365                  | 330                 | 519                  | 468                 | 0.0991                               |
| 240                          | 515                         | 427                 | 420                  | 379                 | 613                  | 553                 | 0.0754                               |
| 300                          | 576                         | 477                 | 469                  | 422                 | 700                  | 634                 | 0.0601                               |
| 400                          | 651                         | 537                 | 528                  | 473                 | 813                  | 737                 | 0.047                                |
| 500                          | 727                         | 598                 | 589                  | 525                 | 930                  | 844                 | 0.0366                               |
| 630                          | 806                         | 661                 | 651                  | 578                 | 1056                 | 961                 | 0.0283                               |
| 800                          | 877                         | 721                 | 707                  | 626                 | 1179                 | 1077                | 0.0221                               |
| 1000                         | 935                         | 772                 | 751                  | 668                 | 1288                 | 1188                | 0.0176                               |

Air Ambient temperature: 40°C

Ground ambient temperature: 30°C

Conductor operating temperature: 90°C

The above table is in accordance with IS 3961(part 6):2016





## APPLICATION

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Short circuit temperature 250°C

## COMPLIANCE

Conductor resistance - IS 8130:2013  
Insulation resistance - IS 7098-1:1988  
Flammability test - IEC 60332-1-2:2015

## CORE IDENTIFICATION

Red/Black/Yellow/Blue/Natural

## BENDING RADIUS

Fixed installation | 12 x Overall diameter

## CONSTRUCTION

- Stranded/Solid plain compacted copper conductor as per IS 8130, class 1 or class 2
- Insulated with Cross Linked Polyethylene (XLPE) to IS 7098-1
- Sheathed with PVC Type ST2/FRLS/FR/LSZH



## Weight & Dimension Data

| Product code              | Nominal cross-sectional area | Class of conductor | Nominal Thickness of Insulation | Nominal thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|--------------------|---------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          |                    | mm                              | mm                                | mm               | kg/km            |
| LVIS09CXUAY2001C004SA002P | 1 x 4                        | Class 1            | 0.7                             | 1.8                               | 7.5              | 85.5             |
| LVIS09CXUAY2001C006SA001P | 1 x 6                        | Class 1            | 0.7                             | 1.8                               | 8                | 109              |
| LVIS09CXUAY2001C004SA002P | 1 x 4                        | Class 2            | 0.7                             | 1.8                               | 8                | 88               |
| LVIS09CXUAY2001C006SA001P | 1 x 6                        | Class 2            | 0.7                             | 1.8                               | 8.5              | 114              |
| LVIS09CXUAY2001C010SA001P | 1 x 10                       | Class 2            | 0.7                             | 1.8                               | 9.5              | 152              |
| LVIS09CXUAY2001C016SA001S | 1 x 16                       | Class 2            | 0.7                             | 1.8                               | 10               | 209              |
| LVIS09CXUAY2001C025SA001S | 1 x 25                       | Class 2            | 0.9                             | 1.8                               | 12               | 309              |
| LVIS09CXUAY2001C035SA001S | 1 x 35                       | Class 2            | 0.9                             | 1.8                               | 13               | 399              |
| LVIS09CXUAY2001C050SA001S | 1 x 50                       | Class 2            | 1                               | 1.8                               | 14               | 513              |
| LVIS09CXUAY2001C070SA001S | 1 x 70                       | Class 2            | 1.1                             | 1.8                               | 16               | 712              |
| LVIS09CXUAY2001C095SA001S | 1 x 95                       | Class 2            | 1.1                             | 1.8                               | 17.5             | 940              |
| LVIS09CXUAY2001C120SA001S | 1 x 120                      | Class 2            | 1.2                             | 1.8                               | 19               | 1168             |
| LVIS09CXUAY2001C150SA001S | 1 x 150                      | Class 2            | 1.4                             | 2                                 | 21.5             | 1444             |
| LVIS09CXUAY2001C185SA001S | 1 x 185                      | Class 2            | 1.6                             | 2                                 | 23.5             | 1786             |
| LVIS09CXUAY2001C240SA001S | 1 x 240                      | Class 2            | 1.7                             | 2                                 | 26               | 2299             |
| LVIS09CXUAY2001C300SA001S | 1 x 300                      | Class 2            | 1.8                             | 2                                 | 28.5             | 2840.5           |
| LVIS09CXUAY2001C400SA001S | 1 x 400                      | Class 2            | 2                               | 2.2                               | 33               | 3629             |
| LVIS09CXUAY2001C500SA001S | 1 x 500                      | Class 2            | 2.2                             | 2.2                               | 36               | 4598             |
| LVIS09CXUAY2001C630SA001S | 1 x 630                      | Class 2            | 2.4                             | 2.2                               | 40               | 5880             |
| LVIS09CXUAY2001C800SA001S | 1 x 800                      | Class 2            | 2.6                             | 2.4                               | 43.7             | 7486             |
| LVIS09CXUAY2001C01KSA001S | 1 x 1000                     | Class 2            | 2.8                             | 2.6                               | 49.2             | 9358             |

The above data is approximate & subject to manufacturing tolerance.



## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

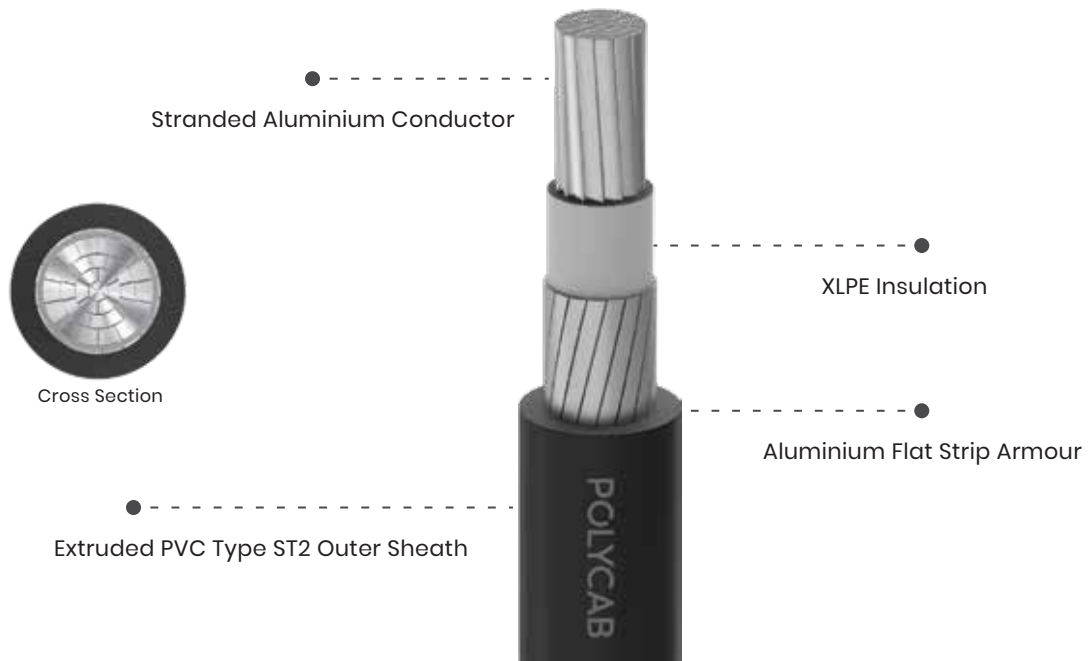
| Nominal cross-sectional area | Buried direct in the ground |                     | In single way Ducts  |                     | In air               |                     | Max. DC conductor resistance at 20°C |
|------------------------------|-----------------------------|---------------------|----------------------|---------------------|----------------------|---------------------|--------------------------------------|
|                              | 2 single core cables        | 3 single core cable | 2 single core cables | 3 single core cable | 2 single core cables | 3 single core cable |                                      |
| mm²                          | Amp.                        | Amp.                | Amp.                 | Amp.                | Amp.                 | Amp.                | Ω/km                                 |
| 1.5                          | 32                          | 28                  | 27                   | 26                  | 28                   | 24                  | 12.1                                 |
| 2.5                          | 42                          | 36                  | 36                   | 33                  | 37                   | 31                  | 7.41                                 |
| 4                            | 54                          | 47                  | 46                   | 43                  | 48                   | 41                  | 4.61                                 |
| 6                            | 67                          | 58                  | 57                   | 53                  | 61                   | 52                  | 3.08                                 |
| 10                           | 90                          | 77                  | 76                   | 70                  | 83                   | 71                  | 1.83                                 |
| 16                           | 115                         | 98                  | 97                   | 89                  | 108                  | 94                  | 1.15                                 |
| 25                           | 148                         | 126                 | 124                  | 114                 | 144                  | 126                 | 0.727                                |
| 35                           | 177                         | 150                 | 148                  | 136                 | 176                  | 154                 | 0.524                                |
| 50                           | 208                         | 177                 | 174                  | 160                 | 212                  | 187                 | 0.387                                |
| 70                           | 255                         | 216                 | 213                  | 195                 | 269                  | 238                 | 0.268                                |
| 95                           | 312                         | 260                 | 256                  | 233                 | 340                  | 303                 | 0.193                                |
| 120                          | 355                         | 295                 | 291                  | 264                 | 396                  | 354                 | 0.153                                |
| 150                          | 396                         | 329                 | 324                  | 294                 | 450                  | 403                 | 0.124                                |
| 185                          | 447                         | 371                 | 365                  | 330                 | 519                  | 468                 | 0.0991                               |
| 240                          | 515                         | 427                 | 420                  | 379                 | 613                  | 553                 | 0.0754                               |
| 300                          | 576                         | 477                 | 469                  | 422                 | 700                  | 634                 | 0.0601                               |
| 400                          | 651                         | 537                 | 528                  | 473                 | 813                  | 737                 | 0.047                                |
| 500                          | 727                         | 598                 | 589                  | 525                 | 930                  | 844                 | 0.0366                               |
| 630                          | 806                         | 661                 | 651                  | 578                 | 1056                 | 961                 | 0.0283                               |
| 800                          | 877                         | 721                 | 707                  | 626                 | 1179                 | 1077                | 0.0221                               |
| 1000                         | 935                         | 772                 | 751                  | 668                 | 1288                 | 1188                | 0.0176                               |

Air Ambient temperature: 40°C

Ground ambient temperature: 30°C

The above table is in accordance with IS 3961(part 6):2016





#### APPLICATION

POLYCAB A2XWαY/A2XFαY SC, stranded compacted aluminium conductor, XLPE insulated, and PVC sheathed armoured cable 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

#### STANDARD AND REFERENCES

IS 8130:2013  
IS 5831:1984  
IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### COMPLIANCE

Conductor resistance – IS 8130:2013  
Insulation resistance – IS 7098-1:1988  
Flammability test – IEC 60332-1-2:2015

#### CORE IDENTIFICATION

Red/Black/Yellow/Blue/Natural

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

- Stranded compacted Aluminium conductor as per IS 8130, class 2
- Insulated with Cross Linked Polyethylene (XLPE) to IS 7098-1
- Armoured with Aluminium Round wire/Flat strip armoured.
- Sheathed with PVC Type ST2/FRLS/FR/LSZH



## Weight & Dimension Data

### A2XWαY

| Product code              | Conductor size      | Nominal Thickness of Insulation | Nominal dimension of Armour round wire | Minimum thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|---------------------|---------------------------------|----------------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup> | mm                              | mm                                     | mm                                | mm               | kg/km            |
| LVIS09AXAWY2001C010SA001P | 1 x 10              | 1                               | 1.4                                    | 1.24                              | 11.35            | 167              |
| LVIS09AXAWY2001C016SA002S | 1 x 16              | 1                               | 1.4                                    | 1.24                              | 12.5             | 190              |
| LVIS09AXAWY2001C025SA002S | 1 x 25              | 1.2                             | 1.4                                    | 1.24                              | 14               | 247              |
| LVIS09AXAWY2001C035SA002S | 1 x 35              | 1.2                             | 1.4                                    | 1.24                              | 15               | 290              |
| LVIS09AXAWY2001C050SA002S | 1 x 50              | 1.3                             | 1.4                                    | 1.24                              | 16.5             | 342              |
| LVIS09AXAWY2001C070SA002S | 1 x 70              | 1.4                             | 1.4                                    | 1.24                              | 18.5             | 428              |
| LVIS09AXAWY2001C095SA002S | 1 x 95              | 1.4                             | 1.6                                    | 1.4                               | 20.2             | 560              |
| LVIS09AXAWY2001C120SA002S | 1 x 120             | 1.5                             | 1.6                                    | 1.4                               | 22.5             | 665              |
| LVIS09AXAWY2001C150SA002S | 1 x 150             | 1.7                             | 1.6                                    | 1.4                               | 24               | 779              |
| LVIS09AXAWY2001C185SA002S | 1 x 185             | 1.9                             | 1.6                                    | 1.4                               | 26.5             | 921              |
| LVIS09AXAWY2001C240SA002S | 1 x 240             | 2                               | 1.6                                    | 1.4                               | 29               | 1121             |
| LVIS09AXAWY2001C300SA002S | 1 x 300             | 2.1                             | 1.6                                    | 1.56                              | 31.5             | 1349             |
| LVIS09AXAWY2001C400SA002S | 1 x 400             | 2.4                             | 2                                      | 1.56                              | 35.5             | 1739             |
| LVIS09AXAWY2001C500SA002S | 1 x 500             | 2.6                             | 2                                      | 1.56                              | 39.5             | 2128             |
| LVIS09AXAWY2001C630SA002S | 1 x 630             | 2.8                             | 2                                      | 1.72                              | 43               | 2660             |
| LVIS09AXAWY2001C800SA002S | 1 x 800             | 3.1                             | 2                                      | 1.88                              | 47.9             | 3296.5           |
| LVIS09AXAWY2001C01KSA002S | 1 x 1000            | 3.3                             | 2.5                                    | 2.04                              | 54.37            | 4142             |

### A2XFαY

| Product code              | Conductor size      | Nominal Thickness of Insulation | Nominal dimension of Armour Flat wire | Minimum thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|---------------------|---------------------------------|---------------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup> | mm                              | mm                                    | mm                                | mm               | kg/km            |
| LVIS09AXAFY2001C095SA002S | 1 x 95              | 1.4                             | 4x0.8                                 | 1.4                               | 18.6             | 494              |
| LVIS09AXAFY2001C120SA002S | 1 x 120             | 1.5                             | 4x0.8                                 | 1.4                               | 20.4             | 589              |
| LVIS09AXAFY2001C150SA002S | 1 x 150             | 1.7                             | 4x0.8                                 | 1.4                               | 22.5             | 694              |
| LVIS09AXAFY2001C185SA002S | 1 x 185             | 1.9                             | 4x0.8                                 | 1.4                               | 24.5             | 827              |
| LVIS09AXAFY2001C240SA002S | 1 x 240             | 2                               | 4x0.8                                 | 1.4                               | 26.6             | 1026             |
| LVIS09AXAFY2001C300SA002S | 1 x 300             | 2.1                             | 4x0.8                                 | 1.56                              | 29.6             | 1235             |
| LVIS09AXAFY2001C400SA002S | 1 x 400             | 2.4                             | 4x0.8                                 | 1.56                              | 33               | 1548.5           |
| LVIS09AXAFY2001C500SA002S | 1 x 500             | 2.6                             | 4x0.8                                 | 1.56                              | 36.7             | 1909.5           |
| LVIS09AXAFY2001C630SA002S | 1 x 630             | 2.8                             | 4x0.8                                 | 1.72                              | 40.5             | 2413             |
| LVIS09AXAFY2001C800SA002S | 1 x 800             | 3.1                             | 4x0.8                                 | 1.72                              | 46               | 2992.5           |
| LVIS09AXAFY2001C01KSA002S | 1 x 1000            | 3.3                             | 4x0.8                                 | 1.88                              | 50               | 3667             |

The above data is approximate & subject to manufacturing tolerance.

## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

| Nominal cross-sectional area | Buried direct in the ground |                     | In single way Ducts  |                     | In air               |                     | Max. DC conductor resistance at 20°C |
|------------------------------|-----------------------------|---------------------|----------------------|---------------------|----------------------|---------------------|--------------------------------------|
|                              | 2 single core cables        | 3 single core cable | 2 single core cables | 3 single core cable | 2 single core cables | 3 single core cable |                                      |
| mm²                          | Amp.                        | Amp.                | Amp.                 | Amp.                | Amp.                 | Amp.                | Ω/km                                 |
| 10                           | 69                          | 59                  | 58                   | 54                  | 64                   | 55                  | 3.08                                 |
| 16                           | 89                          | 76                  | 75                   | 69                  | 84                   | 72                  | 1.91                                 |
| 25                           | 115                         | 98                  | 96                   | 89                  | 112                  | 98                  | 1.2                                  |
| 35                           | 137                         | 116                 | 115                  | 106                 | 137                  | 119                 | 0.868                                |
| 50                           | 161                         | 137                 | 135                  | 124                 | 165                  | 145                 | 0.641                                |
| 70                           | 198                         | 168                 | 165                  | 151                 | 209                  | 185                 | 0.443                                |
| 95                           | 243                         | 202                 | 199                  | 181                 | 264                  | 235                 | 0.32                                 |
| 120                          | 276                         | 230                 | 226                  | 206                 | 308                  | 276                 | 0.253                                |
| 150                          | 308                         | 256                 | 252                  | 229                 | 350                  | 314                 | 0.206                                |
| 185                          | 349                         | 290                 | 285                  | 258                 | 406                  | 366                 | 0.164                                |
| 240                          | 404                         | 335                 | 329                  | 298                 | 480                  | 434                 | 0.125                                |
| 300                          | 454                         | 376                 | 369                  | 333                 | 551                  | 500                 | 0.1                                  |
| 400                          | 518                         | 429                 | 421                  | 378                 | 647                  | 589                 | 0.0778                               |
| 500                          | 588                         | 485                 | 476                  | 426                 | 751                  | 685                 | 0.0605                               |
| 630                          | 663                         | 546                 | 536                  | 477                 | 868                  | 793                 | 0.0469                               |
| 800                          | 740                         | 608                 | 596                  | 528                 | 992                  | 907                 | 0.0367                               |
| 1000                         | 812                         | 665                 | 652                  | 575                 | 1117                 | 1022                | 0.0291                               |

Air Ambient temperature: 40°C

Ground ambient temperature: 30°C

The above table is in accordance with IS 3961(part 6):2016





#### APPLICATION

POLYCAB A2XY SC, stranded compacted aluminium conductor, XLPE insulated, 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

#### STANDARD AND REFERENCES

IS 8130:2013  
IS 5831:1984  
IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### COMPLIANCE

Conductor resistance - IS 8130:2013  
Insulation resistance - IS 7098-1:1988  
Flammability test - IEC 60332-1-2:2015

#### CORE IDENTIFICATION

Red/Black/Yellow/Blue/Natural

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

- Stranded/Solid compacted Aluminium conductor as per IS 8130, class 1 or class 2
- Insulated with Cross Linked Polyethylene (XLPE) to IS 7098-1
- Sheathed with PVC Type ST2/FRLS/FR/LSZH



## Weight & Dimension Data

| Product code              | Conductor size      | Class of conductor | Nominal Thickness of Insulation | Nominal thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|---------------------|--------------------|---------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup> |                    | mm                              | mm                                | mm               | kg/km            |
| LVIS09AXUAY2001C004SA001P | 1 x 4               | Class I            | 0.7                             | 1.8                               | 7.5              | 60               |
| LVIS09AXUAY2001C006SA001S | 1 x 6               | Class I            | 0.7                             | 1.8                               | 8                | 70               |
| LVIS09AXUAY2001C010SA002S | 1 x 10              | Class I            | 0.7                             | 1.8                               | 9                | 80               |
| LVIS09AXUAY2001C004SA001P | 1 x 4               | Class 2            | 0.7                             | 1.8                               | 8                | 65               |
| LVIS09AXUAY2001C006SA001S | 1 x 6               | Class 2            | 0.7                             | 1.8                               | 8.5              | 75               |
| LVIS09AXUAY2001C010SA001S | 1 x 10              | Class 2            | 0.7                             | 1.8                               | 9.5              | 90               |
| LVIS09AXUAY2001C016SA001S | 1 x 16              | Class 2            | 0.7                             | 1.8                               | 10               | 115              |
| LVIS09AXUAY2001C025SA001S | 1 x 25              | Class 2            | 0.9                             | 1.8                               | 12               | 155              |
| LVIS09AXUAY2001C035SA001S | 1 x 35              | Class 2            | 0.9                             | 1.8                               | 13               | 180              |
| LVIS09AXUAY2001C050SA001S | 1 x 50              | Class 2            | 1                               | 1.8                               | 14               | 240              |
| LVIS09AXUAY2001C070SA001S | 1 x 70              | Class 2            | 1.1                             | 1.8                               | 15.5             | 310              |
| LVIS09AXUAY2001C095SA001S | 1 x 95              | Class 2            | 1.1                             | 1.8                               | 17.5             | 385              |
| LVIS09AXUAY2001C120SA001S | 1 x 120             | Class 2            | 1.2                             | 1.8                               | 19.5             | 470              |
| LVIS09AXUAY2001C150SA001S | 1 x 150             | Class 2            | 1.4                             | 2                                 | 21.5             | 600              |
| LVIS09AXUAY2001C185SA001S | 1 x 185             | Class 2            | 1.6                             | 2                                 | 23.5             | 710              |
| LVIS09AXUAY2001C240SA001S | 1 x 240             | Class 2            | 1.7                             | 2                                 | 26               | 900              |
| LVIS09AXUAY2001C300SA001S | 1 x 300             | Class 2            | 1.8                             | 2                                 | 28.5             | 1158             |
| LVIS09AXUAY2001C400SA001S | 1 x 400             | Class 2            | 2                               | 2.2                               | 31.5             | 1385             |
| LVIS09AXUAY2001C500SA001S | 1 x 500             | Class 2            | 2.2                             | 2.2                               | 35.5             | 1650             |
| LVIS09AXUAY2001C630SA001S | 1 x 630             | Class 2            | 2.4                             | 2.2                               | 39.5             | 2100             |
| LVIS09AXUAY2001C800SA001S | 1 x 800             | Class 2            | 2.6                             | 2.4                               | 44.5             | 2730             |
| LVIS09AXUAY2001C01KSA001S | 1 x 1000            | Class 2            | 2.8                             | 2.6                               | 48.5             | 3350             |

The above data is approximate & subject to manufacturing tolerance.



## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

| Nominal cross-sectional area | Buried direct in the ground |                     | In single way Ducts  |                     | In air               |                     | Max. DC conductor resistance at 20°C |
|------------------------------|-----------------------------|---------------------|----------------------|---------------------|----------------------|---------------------|--------------------------------------|
|                              | 2 single core cables        | 3 single core cable | 2 single core cables | 3 single core cable | 2 single core cables | 3 single core cable |                                      |
| mm²                          | Amp.                        | Amp.                | Amp.                 | Amp.                | Amp.                 | Amp.                | Ω/km                                 |
| 4                            | 43                          | 37                  | 36                   | 34                  | 38                   | 33                  | 7.41                                 |
| 6                            | 55                          | 47                  | 47                   | 43                  | 50                   | 43                  | 4.61                                 |
| 10                           | 69                          | 59                  | 58                   | 54                  | 64                   | 55                  | 3.08                                 |
| 16                           | 89                          | 76                  | 75                   | 69                  | 84                   | 72                  | 1.91                                 |
| 25                           | 115                         | 98                  | 96                   | 89                  | 112                  | 98                  | 1.2                                  |
| 35                           | 137                         | 116                 | 115                  | 106                 | 137                  | 119                 | 0.868                                |
| 50                           | 161                         | 137                 | 135                  | 124                 | 165                  | 145                 | 0.641                                |
| 70                           | 198                         | 168                 | 165                  | 151                 | 209                  | 185                 | 0.443                                |
| 95                           | 243                         | 202                 | 199                  | 181                 | 264                  | 235                 | 0.32                                 |
| 120                          | 276                         | 230                 | 226                  | 206                 | 308                  | 276                 | 0.253                                |
| 150                          | 308                         | 256                 | 252                  | 229                 | 350                  | 314                 | 0.206                                |
| 185                          | 349                         | 290                 | 285                  | 258                 | 406                  | 366                 | 0.164                                |
| 240                          | 404                         | 335                 | 329                  | 298                 | 480                  | 434                 | 0.125                                |
| 300                          | 454                         | 376                 | 369                  | 333                 | 551                  | 500                 | 0.1                                  |
| 400                          | 518                         | 429                 | 421                  | 378                 | 647                  | 589                 | 0.0778                               |
| 500                          | 588                         | 485                 | 476                  | 426                 | 751                  | 685                 | 0.0605                               |
| 630                          | 663                         | 546                 | 536                  | 477                 | 868                  | 793                 | 0.0469                               |
| 800                          | 740                         | 608                 | 596                  | 528                 | 992                  | 907                 | 0.0367                               |
| 1000                         | 812                         | 665                 | 652                  | 575                 | 1117                 | 1022                | 0.0291                               |

Air Ambient temperature: 40°C

Ground ambient temperature: 30°C

The above table is in accordance with IS 3961(part 6):2016





#### APPLICATION

POLYCAB 2XFY MC-2, stranded compacted copper conductor, XLPE insulated, PVC inner sheathed, Galvanised Steel Flat strip armoured, 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

#### STANDARD AND REFERENCES

IS 8130:2013  
IS 5831:1984  
IS 3975:1979  
IS 7098-1:1988

#### COMPLIANCE

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

#### CORE IDENTIFICATION

Red and Black

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

- Stranded plain compacted sector shaped Copper conductor as per IS 8130, class 2
- Insulated with Cross Linked Polyethylene (XLPE) to IS 7098-1
- Extruded inner sheath with PVC Type ST2 to IS 5831
- Armoured with Galvanised Flat Steel Strip to IS 3975
- Sheathed with Extruded PVC Type ST2 to IS 5831



## Weight & Dimension Data

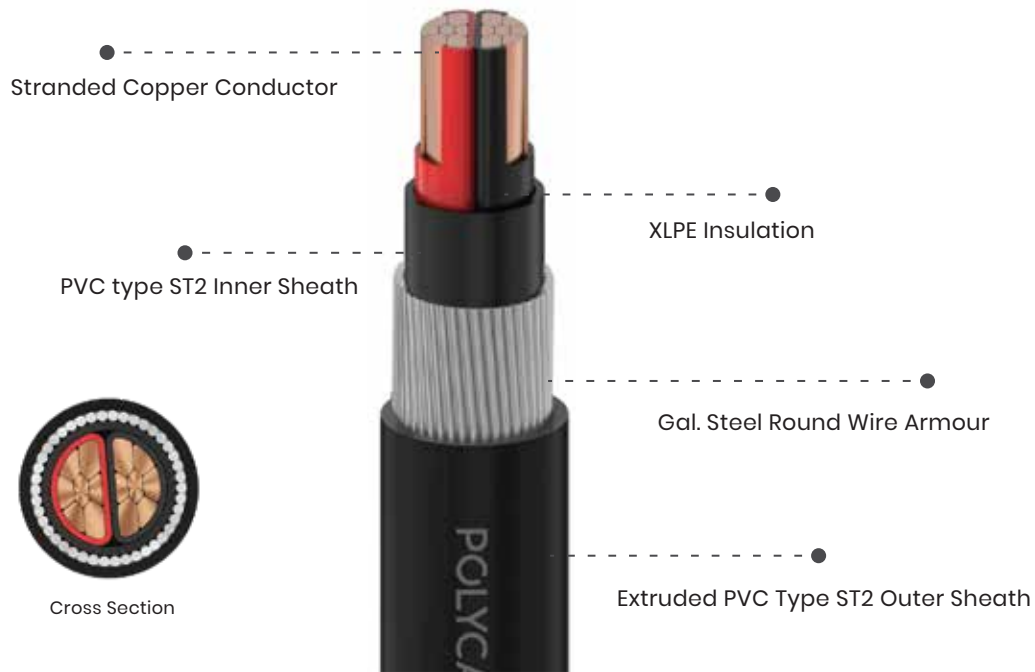
| Product code              | Nominal cross-sectional area | Nominal Thickness of Insulation | Nominal dimension of Armour flat wire | Minimum thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|---------------------------------|---------------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          | mm                              | mm                                    | mm                                | mm               | kg/km            |
| LVIS09CXSFY2002C025SA001S | 2 x25                        | 0.9                             | 4x0.8                                 | 1.4                               | 18.5             | 804.4            |
| LVIS09CXSFY2002C035SA001S | 2 x35                        | 0.9                             | 4x0.8                                 | 1.4                               | 20               | 1019.7           |
| LVIS09CXSFY2002C050SA001S | 2 x50                        | 1                               | 4x0.8                                 | 1.4                               | 22.5             | 1311             |
| LVIS09CXSFY2002C070SA001S | 2 x70                        | 1.1                             | 4x0.8                                 | 1.56                              | 25.5             | 1757             |
| LVIS09CXSFY2002C095SA001S | 2 x95                        | 1.1                             | 4x0.8                                 | 1.56                              | 28               | 2289             |
| LVIS09CXSFY2002C120SA001S | 2 x120                       | 1.2                             | 4x0.8                                 | 1.56                              | 30.5             | 2755             |
| LVIS09CXSFY2002C150SA001S | 2 x150                       | 1.4                             | 4x0.8                                 | 1.72                              | 31.8             | 3353             |
| LVIS09CXSFY2002C185SA001S | 2 x185                       | 1.6                             | 4x0.8                                 | 1.72                              | 37               | 4094             |
| LVIS09CXSFY2002C240SA001S | 2 x240                       | 1.7                             | 4x0.8                                 | 1.88                              | 38.7             | 5225             |
| LVIS09CXSFY2002C300SA001S | 2 x300                       | 1.8                             | 4x0.8                                 | 2.04                              | 42.5             | 6412             |
| LVIS09CXSFY2002C400SA001S | 2 x400                       | 2                               | 4x0.8                                 | 2.36                              | 48.2             | 8075             |

## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

| Nominal area of conductor | Buried direct in the ground | In single way Ducts | In air | Max. DC conductor resistance at 20°C |
|---------------------------|-----------------------------|---------------------|--------|--------------------------------------|
| mm <sup>2</sup>           | Amp.                        | Amp.                | Amp.   | Ω/km                                 |
| 16                        | 115                         | 96                  | 108    | 1.15                                 |
| 25                        | 147                         | 122                 | 140    | 0.727                                |
| 35                        | 176                         | 146                 | 172    | 0.524                                |
| 50                        | 208                         | 173                 | 208    | 0.387                                |
| 70                        | 253                         | 211                 | 262    | 0.268                                |
| 95                        | 302                         | 252                 | 322    | 0.193                                |
| 120                       | 340                         | 284                 | 368    | 0.153                                |
| 150                       | 379                         | 317                 | 419    | 0.124                                |
| 185                       | 425                         | 357                 | 482    | 0.0991                               |
| 240                       | 486                         | 409                 | 566    | 0.0754                               |
| 300                       | 541                         | 456                 | 644    | 0.0601                               |
| 400                       | 602                         | 508                 | 734    | 0.047                                |

Air Ambient temperature: 40°C, Ground ambient temperature: 30°C, Conductor operating temperature: 90°C  
The above table is in accordance with IS 3961(part 6):2016



#### APPLICATION

POLYCAB 2XWY MC-2, stranded compacted 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

#### CORE IDENTIFICATION

Red and Black

#### STANDARD AND REFERENCES

IS 8130:2013

IS 5831:1984

IS 3975:1979

IS 7098-1:1988

#### COMPLIANCE

Conductor resistance - IS 8130

Insulation resistance - IS 7098-1:1988

Flammability test - IEC 60332-1

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

- Stranded plain compacted sector shaped 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 to IS 5831
- Armoured with Galvanised Steel round wire to IS 3975
- Sheathed with Extruded PVC Type ST2 to IS 5831



## Weight & Dimension Data

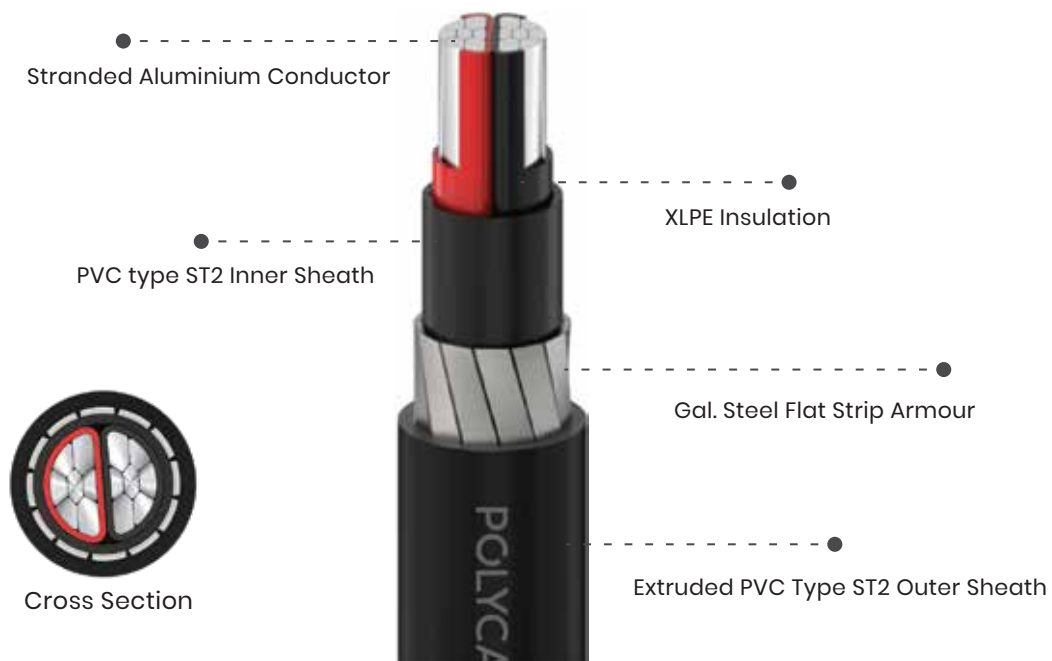
| Product code              | Nominal cross-sectional area | Class of conductor | Nominal Thickness of Insulation | Nominal dimension of Armour round wire | Minimum thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|--------------------|---------------------------------|----------------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          |                    | mm                              | mm                                     | mm                                | mm               | kg/km            |
| LVIS09CXSWY2002C004SA002S | 2 x4                         | Class 1            | 0.7                             | 1.4                                    | 1.24                              | 14               | 408              |
| LVIS09CXSWY2002C004SA002P | 2 x4                         | Class 2            | 0.7                             | 1.4                                    | 1.24                              | 14.5             | 427              |
| LVIS09CXSWY2002C006SA002S | 2 x6                         | Class 1            | 0.7                             | 1.4                                    | 1.24                              | 15               | 484              |
| LVIS09CXSWY2002C006SA001S | 2 x6                         | Class 2            | 0.7                             | 1.4                                    | 1.24                              | 16               | 522              |
| LVIS09CXSWY2002C010SA001S | 2 x10                        | Class 2            | 0.7                             | 1.4                                    | 1.24                              | 17.5             | 665              |
| LVIS09CXSWY2002C016SA001S | 2 x16                        | Class 2            | 0.7                             | 1.4                                    | 1.4                               | 17               | 696.5            |
| LVIS09CXSWY2002C025SA001S | 2 x25                        | Class 2            | 0.9                             | 1.6                                    | 1.4                               | 20               | 1001.7           |
| LVIS09CXSWY2002C035SA001S | 2 x35                        | Class 2            | 0.9                             | 1.6                                    | 1.4                               | 22               | 1224.2           |
| LVIS09CXSWY2002C050SA001S | 2 x50                        | Class 2            | 1                               | 1.6                                    | 1.4                               | 24               | 1520             |
| LVIS09CXSWY2002C070SA001S | 2 x70                        | Class 2            | 1.1                             | 1.6                                    | 1.56                              | 27               | 2004             |
| LVIS09CXSWY2002C095SA001S | 2 x95                        | Class 2            | 1.1                             | 2                                      | 1.56                              | 30.5             | 2736             |
| LVIS09CXSWY2002C120SA001S | 2 x120                       | Class 2            | 1.2                             | 2                                      | 1.56                              | 33               | 3230             |
| LVIS09CXSWY2002C150SA001S | 2 x150                       | Class 2            | 1.4                             | 2                                      | 1.72                              | 36               | 3876             |
| LVIS09CXSWY2002C185SA001S | 2 x185                       | Class 2            | 1.6                             | 2                                      | 1.88                              | 40               | 4731             |
| LVIS09CXSWY2002C240SA001S | 2 x240                       | Class 2            | 1.7                             | 2.5                                    | 2.04                              | 42.4             | 6203             |
| LVIS09CXSWY2002C300SA001S | 2 x300                       | Class 2            | 1.8                             | 2.5                                    | 2.2                               | 46.2             | 7514             |
| LVIS09CXSWY2002C400SA001S | 2 x400                       | Class 2            | 2                               | 2.5                                    | 2.36                              | 51.6             | 9262             |

## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

| Nominal area of conductor | Buried direct in the ground | In single way Ducts | In air | Max. DC conductor resistance at 20°C |
|---------------------------|-----------------------------|---------------------|--------|--------------------------------------|
| mm <sup>2</sup>           | Amp.                        | Amp.                | Amp.   | Ω/km                                 |
| 4                         | 54                          | 45                  | 48     | 4.61                                 |
| 6                         | 67                          | 56                  | 61     | 3.08                                 |
| 10                        | 89                          | 75                  | 83     | 1.83                                 |
| 16                        | 115                         | 96                  | 108    | 1.15                                 |
| 25                        | 147                         | 122                 | 140    | 0.727                                |
| 35                        | 176                         | 146                 | 172    | 0.524                                |
| 50                        | 208                         | 173                 | 208    | 0.387                                |
| 70                        | 253                         | 211                 | 262    | 0.268                                |
| 95                        | 302                         | 252                 | 322    | 0.193                                |
| 120                       | 340                         | 284                 | 368    | 0.153                                |
| 150                       | 379                         | 317                 | 419    | 0.124                                |
| 185                       | 425                         | 357                 | 482    | 0.0991                               |
| 240                       | 486                         | 409                 | 566    | 0.0754                               |
| 300                       | 541                         | 456                 | 644    | 0.0601                               |
| 400                       | 602                         | 508                 | 734    | 0.047                                |

Air Ambient temperature: 40°C, ground ambient temperature: 30°C, Conductor operating temperature: 90°C  
The above table is in accordance with IS 3961(part 6):2016



#### APPLICATION

POLYCAB A2XFY MC-2, Stranded compacted aluminium conductor, XLPE insulated, PVC inner sheathed, Galvanised Steel Flat 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

#### STANDARD AND REFERENCES

IS 8130:2013  
IS 5831:1984  
IS 3975:1979  
IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### COMPLIANCE

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

#### CORE IDENTIFICATION

Red and Black

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

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



## Weight & Dimension Data

| Product code              | Nominal cross-sectional area | Nominal Thickness of Insulation | Nominal dimension of Armour flat wire | Minimum thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|---------------------------------|---------------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          | mm                              | mm                                    | mm                                | mm               | kg/km            |
| LVIS09AXSFY2002C025SA001S | 2 x25                        | 0.9                             | 4x0.8                                 | 1.4                               | 18.5             | 509.13           |
| LVIS09AXSFY2002C035SA001S | 2 x35                        | 0.9                             | 4x0.8                                 | 1.4                               | 20               | 605.51           |
| LVIS09AXSFY2002C050SA001S | 2 x50                        | 1                               | 4x0.8                                 | 1.4                               | 22.5             | 753.28           |
| LVIS09AXSFY2002C070SA001S | 2 x70                        | 1.1                             | 4x0.8                                 | 1.56                              | 25.5             | 989              |
| LVIS09AXSFY2002C095SA001S | 2 x95                        | 1.1                             | 4x0.8                                 | 1.56                              | 28               | 1204.3           |
| LVIS09AXSFY2002C120SA001S | 2 x120                       | 1.2                             | 4x0.8                                 | 1.56                              | 30.5             | 1408.2           |
| LVIS09AXSFY2002C150SA001S | 2 x150                       | 1.4                             | 4x0.8                                 | 1.72                              | 31.79            | 1690.2           |
| LVIS09AXSFY2002C185SA001S | 2 x185                       | 1.6                             | 4x0.8                                 | 1.72                              | 37               | 2004             |
| LVIS09AXSFY2002C240SA001S | 2 x240                       | 1.7                             | 4x0.8                                 | 1.88                              | 38.69            | 2480             |
| LVIS09AXSFY2002C300SA001S | 2 x300                       | 1.8                             | 4x0.8                                 | 2.04                              | 42.53            | 2964             |
| LVIS09AXSFY2002C400SA001S | 2 x400                       | 2                               | 4x0.8                                 | 2.36                              | 48.24            | 3676             |
| LVIS09AXSFY2002C500SA001S | 2 x500                       | 2.2                             | 4x0.8                                 | 2.52                              | 56.5             | 4599             |
| LVIS09AXSFY2002C630SA001S | 2 x630                       | 2.4                             | 4x0.8                                 | 2.68                              | 62.5             | 5662             |

The above data is approximate & subject to manufacturing tolerance.

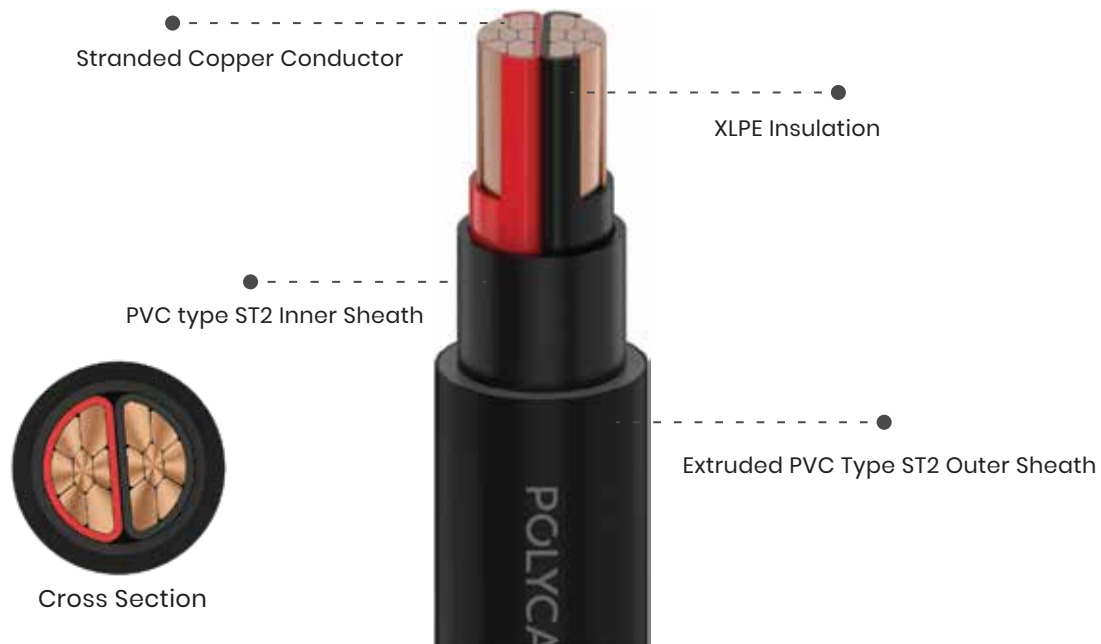
## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

| Nominal area of conductor | Buried direct in the ground | In single way Ducts | In air | Max. DC conductor resistance at 20°C |
|---------------------------|-----------------------------|---------------------|--------|--------------------------------------|
| mm <sup>2</sup>           | Amp.                        | Amp.                | Amp.   | Ω/km                                 |
| 16                        | 89                          | 74                  | 83     | 1.91                                 |
| 25                        | 114                         | 95                  | 109    | 1.2                                  |
| 35                        | 136                         | 113                 | 133    | 0.868                                |
| 50                        | 161                         | 134                 | 162    | 0.641                                |
| 70                        | 197                         | 164                 | 204    | 0.443                                |
| 95                        | 235                         | 196                 | 251    | 0.320                                |
| 120                       | 266                         | 222                 | 287    | 0.253                                |
| 150                       | 296                         | 248                 | 328    | 0.206                                |
| 185                       | 335                         | 281                 | 379    | 0.164                                |
| 240                       | 385                         | 324                 | 448    | 0.125                                |
| 300                       | 432                         | 364                 | 513    | 0.100                                |
| 400                       | 487                         | 412                 | 593    | 0.0778                               |
| 500                       | 548                         | 463                 | 683    | 0.0605                               |
| 630                       | 612                         | 518                 | 784    | 0.0469                               |

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

The above table is in accordance with IS 3961(part 6):2016



#### APPLICATION

POLYCAB 2XY MC-2, Stranded compacted copper conductor, XLPE insulated, 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

#### STANDARD AND REFERENCES

IS 8130:2013  
IS 5831:1984  
IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### COMPLIANCE

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

#### CORE IDENTIFICATION

Red and Black

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

- Stranded plain compacted ( $\leq 16$  sqmm)/Non compacted 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



## Weight & Dimension Data

| Product code              | Nominal cross-sectional area | Class of conductor | Nominal Thickness of Insulation | Minimum thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|--------------------|---------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          |                    | mm                              | mm                                | mm               | kg/km            |
| LVIS09CXUAY2002C004SA001P | 2 x 4                        | Class1             | 0.7                             | 1.8                               | 12.5             | 165              |
| LVIS09CXUAY2002C006SA001S | 2 x 6                        | Class1             | 0.7                             | 1.8                               | 13.5             | 210              |
| LVIS09CXUAY2002C004SA002S | 2 x 4                        | Class 2            | 0.7                             | 1.8                               | 13               | 175              |
| LVIS09CXUAY2002C006SA001S | 2 x 6                        | Class 2            | 0.7                             | 1.8                               | 14               | 225              |
| LVIS09CXUAY2002C010SA001S | 2 x 10                       | Class 2            | 0.7                             | 1.8                               | 16               | 300              |
| LVIS09CXUAY2002C016SA001S | 2 x 16                       | Class 2            | 0.7                             | 1.8                               | 14               | 422              |
| LVIS09CXUAY2002C025SA001S | 2 x 25                       | Class 2            | 0.9                             | 2                                 | 17               | 636              |
| LVIS09CXUAY2002C035SA001S | 2 x 35                       | Class 2            | 0.9                             | 2                                 | 19               | 817              |
| LVIS09CXUAY2002C050SA001S | 2 x 50                       | Class 2            | 1                               | 2                                 | 21               | 1054             |
| LVIS09CXUAY2002C070SA001S | 2 x 70                       | Class 2            | 1.1                             | 2                                 | 23               | 1453             |
| LVIS09CXUAY2002C095SA001S | 2 x 95                       | Class 2            | 1.1                             | 2.2                               | 26.5             | 1966             |
| LVIS09CXUAY2002C120SA001S | 2 x 120                      | Class 2            | 1.2                             | 2.2                               | 28.5             | 2413             |
| LVIS09CXUAY2002C150SA001S | 2 x 150                      | Class 2            | 1.4                             | 2.2                               | 32               | 2935             |
| LVIS09CXUAY2002C185SA001S | 2 x 185                      | Class 2            | 1.6                             | 2.4                               | 35.5             | 3676             |
| LVIS09CXUAY2002C240SA001S | 2 x 240                      | Class 2            | 1.7                             | 2.6                               | 39.5             | 4750             |
| LVIS09CXUAY2002C300SA001S | 2 x 300                      | Class 2            | 1.8                             | 2.8                               | 43.5             | 5918             |
| LVIS09CXUAY2002C400SA001S | 2 x 400                      | Class 2            | 2                               | 3                                 | 49               | 7495             |

The above data is approximate & subject to manufacturing tolerance.

## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

| Nominal area of conductor | Buried direct in the ground | In single way Ducts | In air | Max. DC conductor resistance at 20°C |
|---------------------------|-----------------------------|---------------------|--------|--------------------------------------|
| mm <sup>2</sup>           | Amp.                        | Amp.                | Amp.   | Ω/km                                 |
| 4                         | 54                          | 45                  | 48     | 4.61                                 |
| 6                         | 67                          | 56                  | 61     | 3.08                                 |
| 10                        | 89                          | 75                  | 83     | 1.83                                 |
| 16                        | 115                         | 96                  | 108    | 1.15                                 |
| 25                        | 147                         | 122                 | 140    | 0.727                                |
| 35                        | 176                         | 146                 | 172    | 0.524                                |
| 50                        | 208                         | 173                 | 208    | 0.387                                |
| 70                        | 253                         | 211                 | 262    | 0.268                                |
| 95                        | 302                         | 252                 | 322    | 0.193                                |
| 120                       | 340                         | 284                 | 368    | 0.153                                |
| 150                       | 379                         | 317                 | 419    | 0.124                                |
| 185                       | 425                         | 357                 | 482    | 0.0991                               |
| 240                       | 486                         | 409                 | 566    | 0.0754                               |
| 300                       | 541                         | 456                 | 644    | 0.0601                               |
| 400                       | 602                         | 508                 | 734    | 0.047                                |
| 500                       | 665                         | 562                 | 831    | 0.0366                               |
| 630                       | 728                         | 616                 | 936    | 0.0283                               |

Air Ambient temperature: 40°C, Ground ambient temperature: 30°C,  
The above table is in accordance with IS 3961(part 6):2016



#### APPLICATION

POLYCAB A2XY MC-2, Stranded compacted aluminium conductor, XLPE insulated 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

#### STANDARD AND REFERENCES

IS 8130:2013  
IS 5831:1984  
IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### COMPLIANCE

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

#### CORE IDENTIFICATION

Red and Black

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

- Stranded plain compacted ( $\leq 16 \text{ sqmm}$ )/Non compacted aluminium 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



## Weight & Dimension Data

| Product code              | Nominal cross-sectional area | Class of conductor | Nominal Thickness of Insulation | Nominal thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|--------------------|---------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          |                    | mm                              | mm                                | mm               | kg/km            |
| LVIS09AXUAY2002C004SA001S | 2 x 4                        | Class I            | 0.7                             | 1.8                               | 12.5             | 140              |
| LVIS09AXUAY2002C006SA001S | 2 x 6                        | Class I            | 0.7                             | 1.8                               | 13.5             | 170              |
| LVIS09AXUAY2002C010SA001S | 2 x 10                       | Class I            | 0.7                             | 1.8                               | 15               | 205              |
| LVIS09AXUAY2002C004SA002S | 2 x 4                        | Class 2            | 0.7                             | 1.8                               | 13               | 150              |
| LVIS09AXUAY2002C006SA002S | 2 x 6                        | Class 2            | 0.7                             | 1.8                               | 14               | 180              |
| LVIS09AXUAY2002C010SA002S | 2 x 10                       | Class 2            | 0.7                             | 1.8                               | 16               | 225              |
| LVIS09AXUAY2002C016SA001S | 2 x 16                       | Class 2            | 0.7                             | 1.8                               | 14               | 225              |
| LVIS09AXUAY2002C025SA001S | 2 x 25                       | Class 2            | 0.9                             | 2                                 | 17               | 330              |
| LVIS09AXUAY2002C035SA001S | 2 x 35                       | Class 2            | 0.9                             | 2                                 | 19               | 410              |
| LVIS09AXUAY2002C050SA001S | 2 x 50                       | Class 2            | 1                               | 2                                 | 21               | 510              |
| LVIS09AXUAY2002C070SA001S | 2 x 70                       | Class 2            | 1.1                             | 2                                 | 23               | 675              |
| LVIS09AXUAY2002C095SA001S | 2 x 95                       | Class 2            | 1.1                             | 2.2                               | 26.5             | 893              |
| LVIS09AXUAY2002C120SA001S | 2 x 120                      | Class 2            | 1.2                             | 2.2                               | 28.5             | 1050             |
| LVIS09AXUAY2002C150SA001S | 2 x 150                      | Class 2            | 1.4                             | 2.2                               | 32               | 1215             |
| LVIS09AXUAY2002C185SA001S | 2 x 185                      | Class 2            | 1.6                             | 2.4                               | 35.5             | 1510             |
| LVIS09AXUAY2002C240SA001S | 2 x 240                      | Class 2            | 1.7                             | 2.6                               | 39.5             | 1900             |
| LVIS09AXUAY2002C300SA001S | 2 x 300                      | Class 2            | 1.8                             | 2.8                               | 43.5             | 2360             |
| LVIS09AXUAY2002C400SA001S | 2 x 400                      | Class 2            | 2                               | 3                                 | 49               | 3100             |
| LVIS09AXUAY2002C500SA001S | 2 x 500                      | Class 2            | 2.2                             | 3.4                               | 55.5             | 4000             |
| LVIS09AXUAY2002C630SA001S | 2 x 630                      | Class 2            | 2.4                             | 3.6                               | 61.5             | 4997             |

The above data is approximate & subject to manufacturing tolerance.

## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

| Nominal area of conductor | Buried direct in the ground | In single way Ducts | In air | Max. DC conductor resistance at 20°C |
|---------------------------|-----------------------------|---------------------|--------|--------------------------------------|
| mm <sup>2</sup>           | Amp.                        | Amp.                | Amp.   | Ω/km                                 |
| 4                         | 42                          | 36                  | 38     | 7.41                                 |
| 6                         | 55                          | 46                  | 50     | 4.61                                 |
| 10                        | 68                          | 57                  | 64     | 3.08                                 |
| 16                        | 89                          | 74                  | 83     | 1.91                                 |
| 25                        | 114                         | 95                  | 109    | 1.2                                  |
| 35                        | 136                         | 113                 | 133    | 0.868                                |
| 50                        | 161                         | 134                 | 162    | 0.641                                |
| 70                        | 197                         | 164                 | 204    | 0.443                                |
| 95                        | 235                         | 196                 | 251    | 0.32                                 |
| 120                       | 266                         | 222                 | 287    | 0.253                                |
| 150                       | 296                         | 248                 | 328    | 0.206                                |
| 185                       | 335                         | 281                 | 379    | 0.164                                |
| 240                       | 385                         | 324                 | 448    | 0.125                                |
| 300                       | 432                         | 364                 | 513    | 0.100                                |
| 400                       | 487                         | 412                 | 593    | 0.0778                               |
| 500                       | 548                         | 463                 | 683    | 0.0605                               |
| 630                       | 612                         | 518                 | 784    | 0.0469                               |

Air Ambient temperature: 40°C, Ground ambient temperature: 30°C,  
The above table is in accordance with IS 3961(part 6):2016



#### APPLICATION

POLYCAB A2XWY MC-2, Stranded compacted aluminium conductor ,XLPE insulated, PVC inner sheathed, Galvanised Steel round wire 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

#### 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

Red and Black

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

- Stranded compacted sector shaped Aluminium 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



## Weight & Dimension Data

| Product code              | Nominal cross-sectional area | Class of conductor | Nominal Thickness of Insulation | Nominal dimension of Armour round wire | Minimum thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|--------------------|---------------------------------|----------------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          |                    | mm                              | mm                                     | mm                                | mm               | kg/km            |
| LVIS09AXSWY2002C004SA002P | 2 x4                         | Class 1            | 0.7                             | 1.4                                    | 1.24                              | 14.5             | 375              |
| LVIS09AXSWY2002C004SA001S | 2 x4                         | Class 2            | 0.7                             | 1.4                                    | 1.24                              | 15               | 403              |
| LVIS09AXSWY2002C006SA002S | 2 x6                         | Class 1            | 0.7                             | 1.4                                    | 1.24                              | 15.5             | 437              |
| LVIS09AXSWY2002C006SA001S | 2 x6                         | Class 2            | 0.7                             | 1.4                                    | 1.24                              | 16.5             | 465              |
| LVIS09AXSWY2002C010SA001S | 2 x10                        | Class 1            | 0.7                             | 1.4                                    | 1.24                              | 16               | 503              |
| LVIS09AXSWY2002C010SA002S | 2 x10                        | Class 2            | 0.7                             | 1.4                                    | 1.24                              | 18               | 551              |
| LVIS09AXSWY2002C016SA001S | 2 x16                        | Class 2            | 0.7                             | 1.4                                    | 1.4                               | 17               | 480.16           |
| LVIS09AXSWY2002C025SA001S | 2 x25                        | Class 2            | 0.9                             | 1.6                                    | 1.4                               | 20               | 671.84           |
| LVIS09AXSWY2002C035SA001S | 2 x35                        | Class 2            | 0.9                             | 1.6                                    | 1.4                               | 22               | 775.55           |
| LVIS09AXSWY2002C050SA001S | 2 x50                        | Class 2            | 1                               | 1.6                                    | 1.4                               | 24               | 937.97           |
| LVIS09AXSWY2002C070SA001S | 2 x70                        | Class 2            | 1.1                             | 1.6                                    | 1.56                              | 27               | 1186.85          |
| LVIS09AXSWY2002C095SA001S | 2 x95                        | Class 2            | 1.1                             | 2                                      | 1.56                              | 28.68            | 1572.78          |
| LVIS09AXSWY2002C120SA001S | 2 x120                       | Class 2            | 1.2                             | 2                                      | 1.56                              | 33               | 1849.49          |
| LVIS09AXSWY2002C150SA001S | 2 x150                       | Class 2            | 1.4                             | 2                                      | 1.72                              | 36               | 2182.96          |
| LVIS09AXSWY2002C185SA001S | 2 x185                       | Class 2            | 1.6                             | 2                                      | 1.88                              | 37.7             | 2597.6           |
| LVIS09AXSWY2002C240SA001S | 2 x240                       | Class 2            | 1.7                             | 2.5                                    | 2.04                              | 45               | 3418.52          |
| LVIS09AXSWY2002C300SA001S | 2 x300                       | Class 2            | 1.8                             | 2.5                                    | 2.2                               | 46.22            | 4019.07          |
| LVIS09AXSWY2002C400SA001S | 2 x400                       | Class 2            | 2                               | 2.5                                    | 2.36                              | 51.61            | 4854             |
| LVIS09AXSFY2002C500SA001S | 2 x500                       | Class 2            | 2.2                             | 3.15                                   | 2.68                              | 61.5             | 6517             |
| LVIS09AXSFY2002C630SA001S | 2 x630                       | Class 2            | 2.4                             | 3.15                                   | 2.84                              | 67.5             | 7790             |

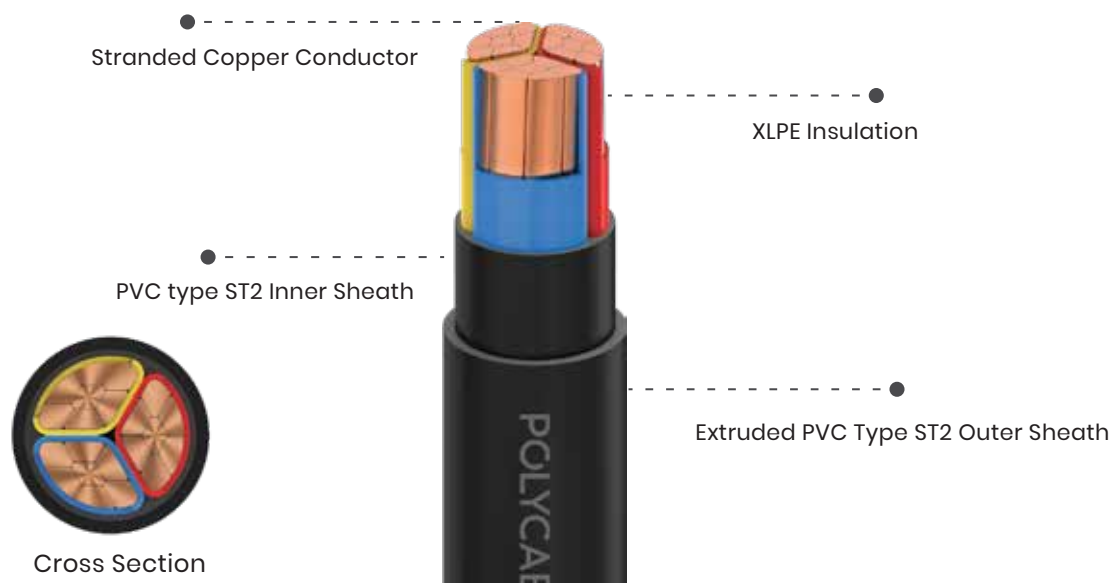
## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

| Nominal area of conductor | Buried direct in the ground | In single way Ducts | In air | Max. DC conductor resistance at 20°C |
|---------------------------|-----------------------------|---------------------|--------|--------------------------------------|
| mm <sup>2</sup>           | Amp.                        | Amp.                | Amp.   | Ω/km                                 |
| 4                         | 42                          | 36                  | 38     | 7.41                                 |
| 6                         | 55                          | 46                  | 50     | 4.61                                 |
| 10                        | 68                          | 57                  | 64     | 3.08                                 |
| 16                        | 89                          | 74                  | 83     | 1.91                                 |
| 25                        | 114                         | 95                  | 109    | 1.20                                 |
| 35                        | 136                         | 113                 | 133    | 0.868                                |
| 50                        | 161                         | 134                 | 162    | 0.641                                |
| 70                        | 197                         | 164                 | 204    | 0.443                                |
| 95                        | 235                         | 196                 | 251    | 0.32                                 |
| 120                       | 266                         | 222                 | 287    | 0.253                                |
| 150                       | 296                         | 248                 | 328    | 0.206                                |
| 185                       | 335                         | 281                 | 379    | 0.164                                |
| 240                       | 385                         | 324                 | 448    | 0.125                                |
| 300                       | 432                         | 364                 | 513    | 0.100                                |
| 400                       | 487                         | 412                 | 593    | 0.0778                               |
| 500                       | 548                         | 463                 | 683    | 0.0605                               |
| 630                       | 612                         | 518                 | 784    | 0.0469                               |

Air Ambient temperature: 40°C, ground ambient temperature: 30°C, Conductor operating temperature: 90°C  
The above table is in accordance with IS 3961(part 6):2016





#### APPLICATION

POLYCAB 2XY MC-3, Stranded compacted copper conductor, XLPE insulated 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

#### STANDARD AND REFERENCES

IS 8130:2013  
IS 5831:1984  
IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### COMPLIANCE

Conductor resistance - IS 8130:2013  
Insulation resistance - IS 7098-1:1988  
Flammability test - IEC 60332-1-2:2015

#### CORE IDENTIFICATION

Red, Yellow and Blue

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

- Stranded plain compacted ( $\leq 16 \text{ sqmm}$ )/Non compacted 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



## Weight & Dimension Data

| Product code              | Nominal cross-sectional area | Class of conductor | Nominal Thickness of Insulation | Nominal thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|--------------------|---------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          |                    | mm                              | mm                                | mm               | kg/km            |
| LVIS09CXUAY2003C004SA002S | 3x4                          | Class 1            | 0.7                             | 1.8                               | 13               | 210              |
| LVIS09CXUAY2003C004SA001S | 3x4                          | Class 2            | 0.7                             | 1.8                               | 13.5             | 232              |
| LVIS09CXUAYL003C006SA002S | 3x6                          | Class 1            | 0.7                             | 1.8                               | 14               | 280              |
| LVIS09CXUAY2003C006SA002S | 3x6                          | Class 2            | 0.7                             | 1.8                               | 15               | 299              |
| LVIS09CXUAY2003C010SA001S | 3x10                         | Class 2            | 0.7                             | 1.8                               | 16.5             | 415              |
| LVIS09CXUAY2003C016SA001S | 3x16                         | Class 2            | 0.7                             | 1.8                               | 16.2             | 425              |
| LVIS09CXUAY2003C025SA001S | 3x25                         | Class 2            | 0.9                             | 2                                 | 19.5             | 874              |
| LVIS09CXUAY2003C035SA001S | 3x35                         | Class 2            | 0.9                             | 2                                 | 21.5             | 1150             |
| LVIS09CXUAY2003C050SA001S | 3x50                         | Class 2            | 1                               | 2                                 | 24.5             | 1501             |
| LVIS09CXUAY2003C070SA001S | 3x70                         | Class 2            | 1.1                             | 2.2                               | 28               | 2118             |
| LVIS09CXUAY2003C095SA001S | 3x95                         | Class 2            | 1.1                             | 2.2                               | 30.8             | 2821             |
| LVIS09CXUAY2003C120SA001S | 3x120                        | Class 2            | 1.2                             | 2.2                               | 33.8             | 3496             |
| LVIS09CXUAY2003C150SA001S | 3x150                        | Class 2            | 1.4                             | 2.4                               | 37.9             | 4322             |
| LVIS09CXUAY2003C185SA001S | 3x185                        | Class 2            | 1.6                             | 2.6                               | 42               | 5377             |
| LVIS09CXUAY2003C240SA001S | 3x240                        | Class 2            | 1.7                             | 2.8                               | 46.9             | 6992             |
| LVIS09CXUAY2003C300SA001S | 3x300                        | Class 2            | 1.8                             | 3                                 | 51.5             | 8683             |
| LVIS09CXUAY2003C400SA001S | 3x400                        | Class 2            | 2                               | 3.2                               | 58.6             | 11029            |

The above data is approximate & subject to manufacturing tolerance.

## Electrical characteristics

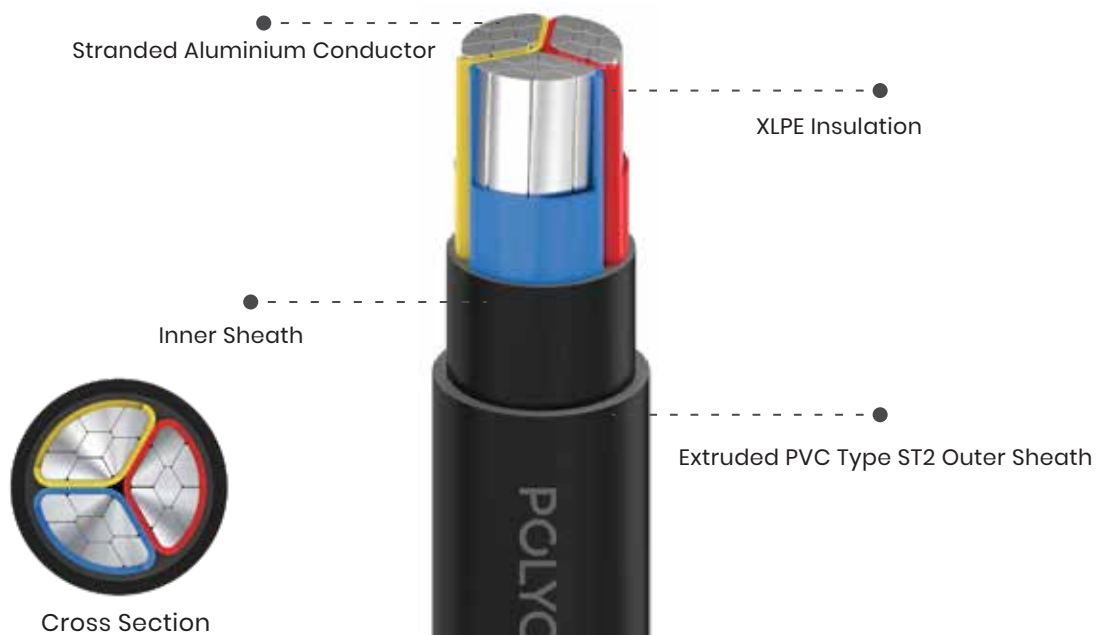
Current carrying capacity and Maximum DC conductor resistance.

| Nominal area of conductor | Buried direct in the ground | In single way Ducts | In air | Max. DC conductor resistance at 20°C |
|---------------------------|-----------------------------|---------------------|--------|--------------------------------------|
| mm <sup>2</sup>           | Amp.                        | Amp.                | Amp.   | Ω/km                                 |
| 4                         | 45                          | 38                  | 41     | 4.61                                 |
| 6                         | 56                          | 47                  | 52     | 3.08                                 |
| 10                        | 74                          | 62                  | 70     | 1.83                                 |
| 16                        | 95                          | 79                  | 89     | 1.15                                 |
| 25                        | 122                         | 102                 | 119    | 0.727                                |
| 35                        | 146                         | 122                 | 147    | 0.524                                |
| 50                        | 173                         | 144                 | 179    | 0.387                                |
| 70                        | 212                         | 177                 | 226    | 0.268                                |
| 95                        | 254                         | 212                 | 279    | 0.193                                |
| 120                       | 287                         | 240                 | 320    | 0.153                                |
| 150                       | 321                         | 269                 | 365    | 0.124                                |
| 185                       | 362                         | 304                 | 422    | 0.0991                               |
| 240                       | 418                         | 352                 | 500    | 0.0754                               |
| 300                       | 469                         | 396                 | 574    | 0.0601                               |
| 400                       | 528                         | 447                 | 662    | 0.047                                |

Air Ambient temperature: 40°C,

Ground ambient temperature: 30°C,

The above table is in accordance with IS 3961(part 6):2016



#### APPLICATION

POLYCAB A2XY MC-3, Stranded compacted aluminium conductor, XLPE insulated, 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

#### STANDARD AND REFERENCES

IS 8130:2013  
IS 5831:1984  
IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### COMPLIANCE

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

#### CORE IDENTIFICATION

Red, Yellow and Blue

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

- Stranded compacted/Non compacted aluminium conductor as per IS 8130, class1&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



## Weight & Dimension Data

| Product code              | Nominal cross-sectional area | Class of conductor | Nominal Thickness of Insulation | Nominal thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|--------------------|---------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          |                    | mm                              | mm                                | mm               | kg/km            |
| LVIS09AXUAY2003C004SA002S | 3 x 4                        | Class 1            | 0.7                             | 1.8                               | 13               | 140              |
| LVIS09AXUAY2003C006SA001S | 3 x 6                        | Class 1            | 0.7                             | 1.8                               | 14.5             | 170              |
| LVIS09AXUAY2003C010SA001S | 3 x 10                       | Class 1            | 0.7                             | 1.8                               | 15.5             | 220              |
| LVIS09AXUAY2003C004SA001S | 3 x 4                        | Class 2            | 0.7                             | 1.8                               | 13.5             | 160              |
| LVIS09AXUAY2003C006SA002S | 3 x 6                        | Class 2            | 0.7                             | 1.8                               | 15               | 190              |
| LVIS09AXUAY2003C010SA003S | 3 x 10                       | Class 2            | 0.7                             | 1.8                               | 17               | 230              |
| LVIS09AXUAY2003C016SA001S | 3 x 16                       | Class 2            | 0.7                             | 1.8                               | 16.2             | 304              |
| LVIS09AXUAY2003C025SA001S | 3 x 25                       | Class 2            | 0.9                             | 2                                 | 19.5             | 446              |
| LVIS09AXUAY2003C035SA001S | 3 x 35                       | Class 2            | 0.9                             | 2                                 | 21.5             | 551              |
| LVIS09AXUAY2003C050SA001S | 3 x 50                       | Class 2            | 1                               | 2                                 | 24.5             | 693              |
| LVIS09AXUAY2003C070SA001S | 3 x 70                       | Class 2            | 1.1                             | 2.2                               | 28               | 950              |
| LVIS09AXUAY2003C095SA001S | 3 x 95                       | Class 2            | 1.1                             | 2.2                               | 30.8             | 1206             |
| LVIS09AXUAY2003C120SA001S | 3 x 120                      | Class 2            | 1.2                             | 2.2                               | 33.8             | 1463             |
| LVIS09AXUAY2003C150SA001S | 3 x 150                      | Class 2            | 1.4                             | 2.4                               | 37.9             | 1814             |
| LVIS09AXUAY2003C185SA001S | 3 x 185                      | Class 2            | 1.6                             | 2.6                               | 42               | 2242             |
| LVIS09AXUAY2003C240SA001S | 3 x 240                      | Class 2            | 1.7                             | 2.8                               | 46.9             | 2869             |
| LVIS09AXUAY2003C300SA001S | 3 x 300                      | Class 2            | 1.8                             | 3                                 | 51.5             | 3505             |
| LVIS09AXUAY2003C400SA001S | 3 x 400                      | Class 2            | 2                               | 3.2                               | 58.6             | 4427             |
| LVIS09AXUAY2003C500SA001S | 3 x 500                      | Class 2            | 2.2                             | 3.6                               | 66               | 5681             |
| LVIS09AXUAY2003C630SA001S | 3 x 630                      | Class 2            | 2.4                             | 3.8                               | 72               | 7125             |

The above data is approximate & subject to manufacturing tolerance.

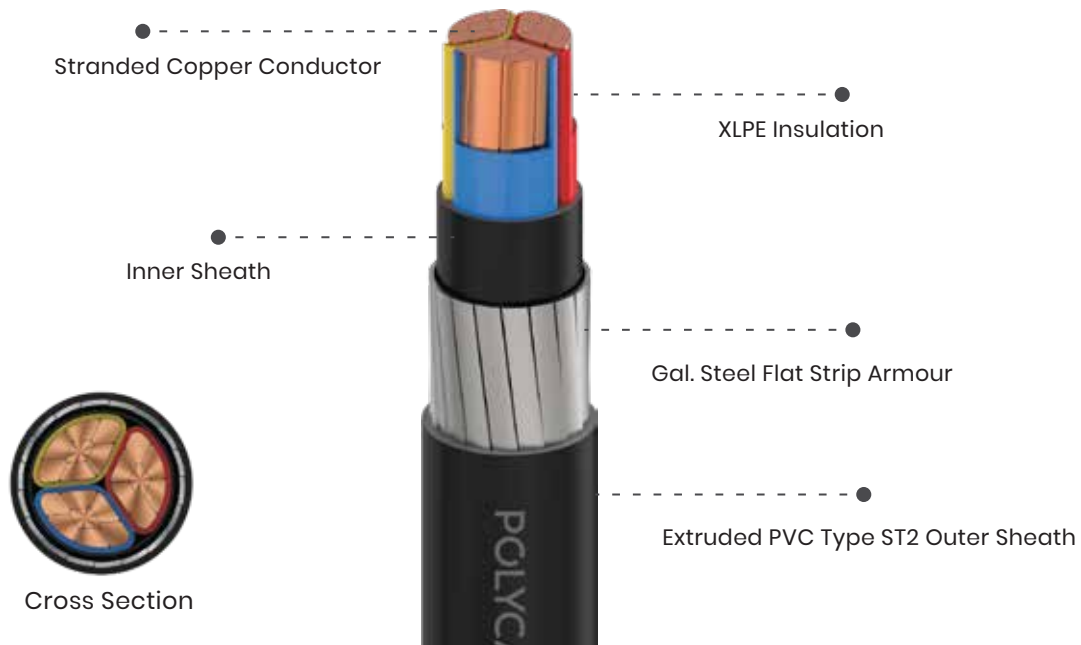
## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

| Nominal area of conductor | Buried direct in the ground | In single way Ducts | In air | Max. DC conductor resistance at 20°C |
|---------------------------|-----------------------------|---------------------|--------|--------------------------------------|
| mm <sup>2</sup>           | Amp.                        | Amp.                | Amp.   | Ω/km                                 |
| 4                         | 35                          | 30                  | 32     | 7.41                                 |
| 6                         | 46                          | 38                  | 42     | 4.61                                 |
| 10                        | 57                          | 48                  | 54     | 3.08                                 |
| 16                        | 74                          | 61                  | 69     | 1.91                                 |
| 25                        | 95                          | 79                  | 93     | 1.2                                  |
| 35                        | 114                         | 94                  | 114    | 0.868                                |
| 50                        | 134                         | 112                 | 138    | 0.641                                |
| 70                        | 164                         | 137                 | 175    | 0.443                                |
| 95                        | 197                         | 164                 | 216    | 0.32                                 |
| 120                       | 223                         | 187                 | 249    | 0.253                                |
| 150                       | 249                         | 209                 | 284    | 0.206                                |
| 185                       | 282                         | 238                 | 329    | 0.164                                |
| 240                       | 327                         | 276                 | 392    | 0.125                                |
| 300                       | 369                         | 312                 | 452    | 0.1                                  |
| 400                       | 420                         | 356                 | 526    | 0.0778                               |

Air Ambient temperature: 40°C, Ground ambient temperature: 30°C,

The above table is in accordance with IS 3961(part 6):2016



#### APPLICATION

POLYCAB 2XFY MC-3, Stranded compacted copper conductor, XLPE insulated, PVC inner sheathed, Galvanised Steel Flat 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

#### STANDARD AND REFERENCES

IS 8130:2013 | IS 5831:1984

IS 3975:1979 | IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C

Short circuit temperature 250°C

#### COMPLIANCE

Conductor resistance - IS 8130:2013

Insulation resistance - IS 7098-1:1988

Flammability test - IEC 60332-1:2015

#### CORE IDENTIFICATION

Red, Yellow and Blue

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

- Stranded plain compacted sector shaped copper conductor as per IS 8130, class 2
- Insulated with Cross Linked Polyethylene (XLPE) to IS 7098-1
- Extruded inner sheath with PVC Type ST2/FRLS/FR/LSZH
- Armoured with Galvanised Flat Steel Strip to IS 3975
- Sheathed with Extruded PVC Type ST2/FRLS/FR/LSZH



## Weight & Dimension Data

| Product code              | Nominal cross-sectional area | Nominal Thickness of Insulation Main/Neutral | Nominal dimension of Armour flat wire | Minimum thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|----------------------------------------------|---------------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          | mm                                           | mm                                    | mm                                | mm               | kg/km            |
| LVIS09CXSFY2003C016SA001S | 3x16                         | 0.7                                          | 4x0.8                                 | 1.24                              | 16.8             | 772.3            |
| LVIS09CXSFY2003C025SA001S | 3x25                         | 0.9                                          | 4x0.8                                 | 1.4                               | 20.1             | 1102             |
| LVIS09CXSFY2003C035SA001S | 3x35                         | 0.9                                          | 4x0.8                                 | 1.4                               | 22               | 1396             |
| LVIS09CXSFY2003C050SA001S | 3x50                         | 1                                            | 4x0.8                                 | 1.4                               | 24.8             | 1767             |
| LVIS09CXSFY2003C070SA001S | 3x70                         | 1.1                                          | 4x0.8                                 | 1.56                              | 28.5             | 2441             |
| LVIS09CXSFY2003C095SA001S | 3x95                         | 1.1                                          | 4x0.8                                 | 1.56                              | 31.3             | 3182             |
| LVIS09CXSFY2003C120SA001S | 3x120                        | 1.2                                          | 4x0.8                                 | 1.56                              | 34.3             | 3895             |
| LVIS09CXSFY2003C150SA001S | 3x150                        | 1.4                                          | 4x0.8                                 | 1.72                              | 38.3             | 4759             |
| LVIS09CXSFY2003C185SA001S | 3x185                        | 1.6                                          | 4x0.8                                 | 1.88                              | 42.3             | 5852             |
| LVIS09CXSFY2003C240SA001S | 3x240                        | 1.7                                          | 4x0.8                                 | 2.04                              | 47.3             | 7505             |
| LVIS09CXSFY2003C300SA001S | 3x300                        | 1.8                                          | 4x0.8                                 | 2.2                               | 51.8             | 9243             |
| LVIS09CXSFY2003C400SA001S | 3x400                        | 2                                            | 4x0.8                                 | 2.52                              | 58.5             | 11704            |

The above data is approximate & subject to manufacturing tolerance.

## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

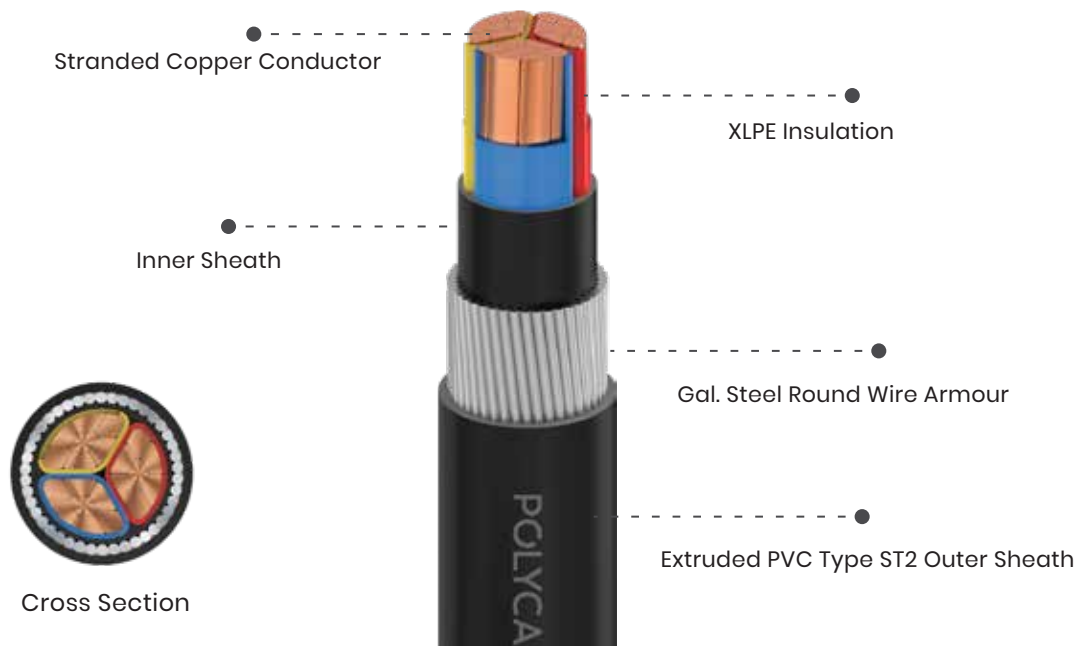
| Nominal area of conductor | Buried direct in the ground | In single way Ducts | In air | Max. DC conductor resistance at 20°C |
|---------------------------|-----------------------------|---------------------|--------|--------------------------------------|
| mm <sup>2</sup>           | Amp.                        | Amp.                | Amp.   | Ω/km                                 |
| 16                        | 95                          | 79                  | 89     | 1.15                                 |
| 25                        | 122                         | 102                 | 119    | 0.727                                |
| 35                        | 146                         | 122                 | 147    | 0.524                                |
| 50                        | 173                         | 144                 | 179    | 0.387                                |
| 70                        | 212                         | 177                 | 226    | 0.268                                |
| 95                        | 254                         | 212                 | 279    | 0.193                                |
| 120                       | 287                         | 240                 | 320    | 0.153                                |
| 150                       | 321                         | 269                 | 365    | 0.124                                |
| 185                       | 362                         | 304                 | 422    | 0.0991                               |
| 240                       | 418                         | 352                 | 500    | 0.0754                               |
| 300                       | 469                         | 396                 | 574    | 0.0601                               |
| 400                       | 528                         | 447                 | 662    | 0.047                                |

Air Ambient temperature: 40°C,

Ground ambient temperature: 30°C,

Conductor operating temperature: 90°C

The above table is in accordance with IS 3961(part 6):2016



#### APPLICATION

POLYCAB 2XWY MC-3, Stranded compacted copper conductor, XLPE insulated, PVC inner sheathed, Galvanised Steel round wire 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

#### STANDARD AND REFERENCES

IS 8130:2013  
IS 5831:1984  
IS 3975:1979  
IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### COMPLIANCE

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

#### CORE IDENTIFICATION

Red, Yellow and Blue

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

- Stranded plain compacted sector shaped 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
- Armoured with Galvanised Flat Round Wire to IS 3975
- Sheathed with Extruded PVC Type ST2/FRLS/FR/LSZH



## Weight & Dimension Data

| Product code              | Nominal cross-sectional area | Class of conductor | Nominal Thickness of Insulation | Nominal dimension of Armour round wire | Minimum thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|--------------------|---------------------------------|----------------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          |                    | mm                              | mm                                     | mm                                | mm               | kg/km            |
| LVIS09CXSWY2003C004SA002S | 3 x 4                        | Class 1            | 0.7                             | 1.4                                    | 1.24                              | 15               | 530              |
| LVIS09CXSWY2003C004SA001S | 3 x 4                        | Class 2            | 0.7                             | 1.4                                    | 1.24                              | 16               | 460              |
| LVIS09CXSWY2003C006SA002S | 3 x 6                        | Class 1            | 0.7                             | 1.4                                    | 1.24                              | 16               | 640              |
| LVIS09CXSWY2003C006SA001S | 3 x 6                        | Class 2            | 0.7                             | 1.4                                    | 1.24                              | 17               | 551              |
| LVIS09CXSWY2003C010SA001S | 3 x 10                       | Class 2            | 0.7                             | 1.4                                    | 1.24                              | 19               | 722              |
| LVIS09CXSWY2003C016SA001S | 3 x 16                       | Class 2            | 0.7                             | 1.4                                    | 1.4                               | 18.8             | 921              |
| LVIS09CXSWY2003C025SA001S | 3 x 25                       | Class 2            | 0.9                             | 1.6                                    | 1.4                               | 21.7             | 1282             |
| LVIS09CXSWY2003C035SA001S | 3 x 35                       | Class 2            | 0.9                             | 1.6                                    | 1.4                               | 23.6             | 1596             |
| LVIS09CXSWY2003C050SA001S | 3 x 50                       | Class 2            | 1                               | 1.6                                    | 1.56                              | 26.8             | 2042             |
| LVIS09CXSWY2003C070SA001S | 3 x 70                       | Class 2            | 1.1                             | 1.6                                    | 1.56                              | 30.9             | 2888             |
| LVIS09CXSWY2003C095SA001S | 3 x 95                       | Class 2            | 1.1                             | 2                                      | 1.56                              | 33.7             | 3686             |
| LVIS09CXSWY2003C120SA001S | 3 x 120                      | Class 2            | 1.2                             | 2                                      | 1.72                              | 37               | 4455             |
| LVIS09CXSWY2003C150SA001S | 3 x 150                      | Class 2            | 1.4                             | 2                                      | 1.88                              | 41.1             | 5396             |
| LVIS09CXSWY2003C185SA001S | 3 x 185                      | Class 2            | 1.6                             | 2                                      | 2.04                              | 46               | 6868             |
| LVIS09CXSWY2003C240SA001S | 3 x 240                      | Class 2            | 1.7                             | 2.5                                    | 2.2                               | 50.9             | 8654             |
| LVIS09CXSWY2003C300SA001S | 3 x 300                      | Class 2            | 1.8                             | 2.5                                    | 2.36                              | 55.5             | 10526            |
| LVIS09CXSWY2003C400SA001S | 3 x 400                      | Class 2            | 2                               | 2.5                                    | 2.68                              | 64               | 13718            |

The above data is approximate & subject to manufacturing tolerance.

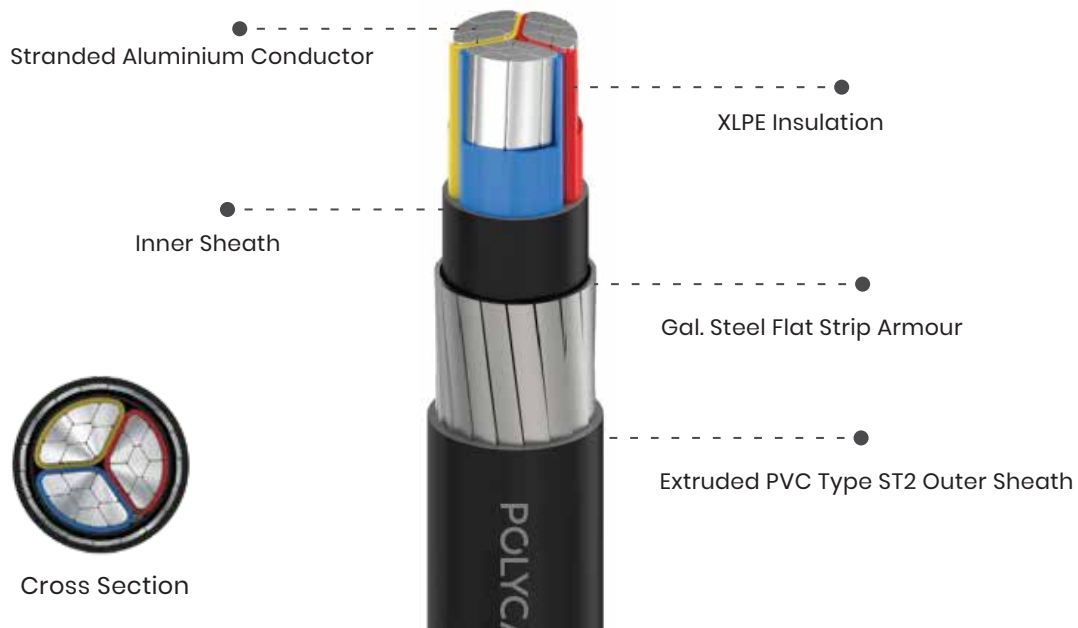
## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

| Nominal area of conductor | Buried direct in the ground | In single way Ducts | In air | Max. DC conductor resistance at 20°C |
|---------------------------|-----------------------------|---------------------|--------|--------------------------------------|
| mm <sup>2</sup>           | Amp.                        | Amp.                | Amp.   | Ω/km                                 |
| 4                         | 45                          | 38                  | 41     | 4.61                                 |
| 6                         | 56                          | 47                  | 52     | 3.08                                 |
| 10                        | 74                          | 62                  | 70     | 1.83                                 |
| 16                        | 95                          | 79                  | 89     | 1.15                                 |
| 25                        | 122                         | 102                 | 119    | 0.727                                |
| 35                        | 146                         | 122                 | 147    | 0.524                                |
| 50                        | 173                         | 144                 | 179    | 0.387                                |
| 70                        | 212                         | 177                 | 226    | 0.268                                |
| 95                        | 254                         | 212                 | 279    | 0.193                                |
| 120                       | 287                         | 240                 | 320    | 0.153                                |
| 150                       | 321                         | 269                 | 365    | 0.124                                |
| 185                       | 362                         | 304                 | 422    | 0.0991                               |
| 240                       | 418                         | 352                 | 500    | 0.0754                               |
| 300                       | 469                         | 396                 | 574    | 0.0601                               |
| 400                       | 528                         | 447                 | 662    | 0.047                                |

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

The above table is in accordance with IS 3961(part 6):2016



#### APPLICATION

POLYCAB A2XFY MC-3, Stranded compacted aluminium conductor, XLPE insulated, PVC inner sheathed, Galvanised Steel Flat 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

#### STANDARD AND REFERENCES

IS 8130:2013  
IS 5831:1984  
IS 3975:1979  
IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### COMPLIANCE

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

#### CORE IDENTIFICATION

Red, Yellow and Blue

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

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



## Weight & Dimension Data

| Product code              | Nominal cross-sectional area | Nominal Thickness of Insulation Main/Neutral | Nominal dimension of Armour flat wire | Minimum thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|----------------------------------------------|---------------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          | mm                                           | mm                                    | mm                                | mm               | kg/km            |
| LVIS09AXSFY2003C016SA001S | 3x16                         | 0.7                                          | 4x0.8                                 | 1.24                              | 16.8             | 487.6            |
| LVIS09AXSFY2003C025SA001S | 3x25                         | 0.9                                          | 4x0.8                                 | 1.4                               | 20.1             | 670.7            |
| LVIS09AXSFY2003C035SA001S | 3x35                         | 0.9                                          | 4x0.8                                 | 1.4                               | 22               | 798              |
| LVIS09AXSFY2003C050SA001S | 3x50                         | 1                                            | 4x0.8                                 | 1.4                               | 24.8             | 960              |
| LVIS09AXSFY2003C070SA001S | 3x70                         | 1.1                                          | 4x0.8                                 | 1.56                              | 28.5             | 1282             |
| LVIS09AXSFY2003C095SA001S | 3x95                         | 1.1                                          | 4x0.8                                 | 1.56                              | 31.3             | 1577             |
| LVIS09AXSFY2003C120SA001S | 3x120                        | 1.2                                          | 4x0.8                                 | 1.56                              | 34.3             | 1871             |
| LVIS09AXSFY2003C150SA001S | 3x150                        | 1.4                                          | 4x0.8                                 | 1.72                              | 38.3             | 2100             |
| LVIS09AXSFY2003C185SA001S | 3x185                        | 1.6                                          | 4x0.8                                 | 1.88                              | 42.3             | 2500             |
| LVIS09AXSFY2003C240SA001S | 3x240                        | 1.7                                          | 4x0.8                                 | 2.04                              | 47.3             | 3382             |
| LVIS09AXSFY2003C300SA001S | 3x300                        | 1.8                                          | 4x0.8                                 | 2.2                               | 51.8             | 5101             |
| LVIS09AXSFY2003C400SA001S | 3x400                        | 2                                            | 4x0.8                                 | 2.52                              | 58.5             | 5101             |
| LVIS09AXSFY2003C500SA001S | 3x500                        | 2.2                                          | 4x0.8                                 | 2.68                              | 65               | 6365             |
| LVIS09AXSFY2003C630SA001S | 3x630                        | 2.4                                          | 4x0.8                                 | 2.84                              | 73               | 7894             |

The above data is approximate & subject to manufacturing tolerance.

## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

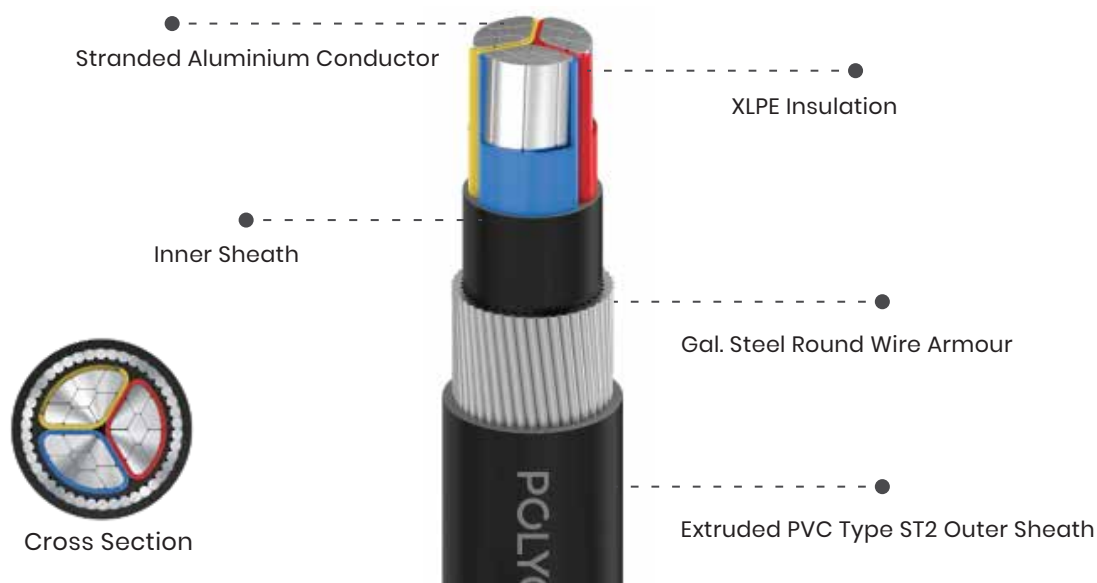
| Nominal area of conductor | Buried direct in the ground | In single way Ducts | In air | Max. DC conductor resistance at 20°C |
|---------------------------|-----------------------------|---------------------|--------|--------------------------------------|
| mm <sup>2</sup>           | Amp.                        | Amp.                | Amp.   | Ω/km                                 |
| 16                        | 74                          | 61                  | 69     | 1.91                                 |
| 25                        | 95                          | 79                  | 93     | 1.20                                 |
| 35                        | 114                         | 94                  | 114    | 0.868                                |
| 50                        | 134                         | 112                 | 138    | 0.641                                |
| 70                        | 164                         | 137                 | 175    | 0.443                                |
| 95                        | 197                         | 164                 | 216    | 0.32                                 |
| 120                       | 223                         | 187                 | 249    | 0.253                                |
| 150                       | 249                         | 209                 | 284    | 0.206                                |
| 185                       | 282                         | 238                 | 329    | 0.164                                |
| 240                       | 327                         | 276                 | 392    | 0.125                                |
| 300                       | 369                         | 312                 | 452    | 0.100                                |
| 400                       | 420                         | 356                 | 526    | 0.0778                               |
| 500                       | 478                         | 412                 | 612    | 0.0605                               |

Air Ambient temperature: 40°C,

Ground ambient temperature: 30°C,

Conductor operating temperature: 90°C

The above table is in accordance with IS 3961(part 6):2016



#### APPLICATION

POLYCAB A2XWY MC-3, Stranded compacted aluminium 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

#### STANDARD AND REFERENCES

IS 8130:2013 | IS 5831:1984  
IS 3975:1979 | IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### COMPLIANCE

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

#### CORE IDENTIFICATION

Red, Yellow, and Blue

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

- Stranded compacted sector shaped Aluminium 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
- Armoured with Galvanised Steel round wire to IS 3975
- Sheathed with Extruded PVC Type ST2/FRLS/FR/LSZH



## Weight & Dimension Data

| Product code              | Nominal cross-sectional area | Class of conductor | Nominal Thickness of Insulation | Nominal dimension of Armour round wire | Minimum thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|--------------------|---------------------------------|----------------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          |                    | mm                              | mm                                     | mm                                | mm               | kg/km            |
| LVIS09AXSWY2003C004SA002S | 3 x 4                        | Class 1            | 0.7                             | 1.4                                    | 1.24                              | 15               | 460              |
| LVIS09AXSWY2003C004SA001S | 3 x 4                        | Class 2            | 0.7                             | 1.4                                    | 1.24                              | 16               | 399              |
| LVIS09AXSWY2003C006SA002S | 3 x 6                        | Class 1            | 0.7                             | 1.4                                    | 1.24                              | 16               | 530              |
| LVIS09AXSWY2003C006SA001S | 3 x 6                        | Class 2            | 0.7                             | 1.4                                    | 1.24                              | 17               | 470              |
| LVIS09AXSWY2003C010SA002S | 3 x 10                       | Class 1            | 0.7                             | 1.4                                    | 1.24                              | 18               | 640              |
| LVIS09AXSWY2003C010SA001S | 3 x 10                       | Class 2            | 0.7                             | 1.4                                    | 1.24                              | 18.5             | 551              |
| LVIS09AXSWY2003C016SA001S | 3 x 16                       | Class 2            | 0.7                             | 1.6                                    | 1.4                               | 19               | 648.4            |
| LVIS09AXSWY2003C025SA001S | 3 x 25                       | Class 2            | 0.9                             | 1.6                                    | 1.4                               | 21.7             | 855              |
| LVIS09AXSWY2003C035SA001S | 3 x 35                       | Class 2            | 0.9                             | 1.6                                    | 1.4                               | 23.6             | 997              |
| LVIS09AXSWY2003C050SA001S | 3 x 50                       | Class 2            | 1                               | 1.6                                    | 1.56                              | 26.8             | 1235             |
| LVIS09AXSWY2003C070SA001S | 3 x 70                       | Class 2            | 1.1                             | 2                                      | 1.56                              | 30.9             | 1729             |
| LVIS09AXSWY2003C095SA001S | 3 x 95                       | Class 2            | 1.1                             | 2                                      | 1.56                              | 33.7             | 2077             |
| LVIS09AXSWY2003C120SA001S | 3 x 120                      | Class 2            | 1.2                             | 2                                      | 1.72                              | 37               | 2422             |
| LVIS09AXSWY2003C150SA001S | 3 x 150                      | Class 2            | 1.4                             | 2                                      | 1.88                              | 41.1             | 2888             |
| LVIS09AXSWY2003C185SA001S | 3 x 185                      | Class 2            | 1.6                             | 2.5                                    | 2.04                              | 46               | 3733             |
| LVIS09AXSWY2003C240SA001S | 3 x 240                      | Class 2            | 1.7                             | 2.5                                    | 2.2                               | 50.9             | 4531             |
| LVIS09AXSWY2003C300SA001S | 3 x 300                      | Class 2            | 1.8                             | 2.5                                    | 2.36                              | 55.45            | 5339             |
| LVIS09AXSWY2003C400SA001S | 3 x 400                      | Class 2            | 2                               | 3.15                                   | 2.68                              | 64               | 7115             |
| LVIS09AXSWY2003C500SA001S | 3 x 500                      | Class 2            | 2.2                             | 3.15                                   | 2.84                              | 73               | 8597             |
| LVIS09AXSWY2003C630SA001S | 3 x 630                      | Class 2            | 2.4                             | 4                                      | 3                                 | 78               | 11295            |

The above data is approximate & subject to manufacturing tolerance.

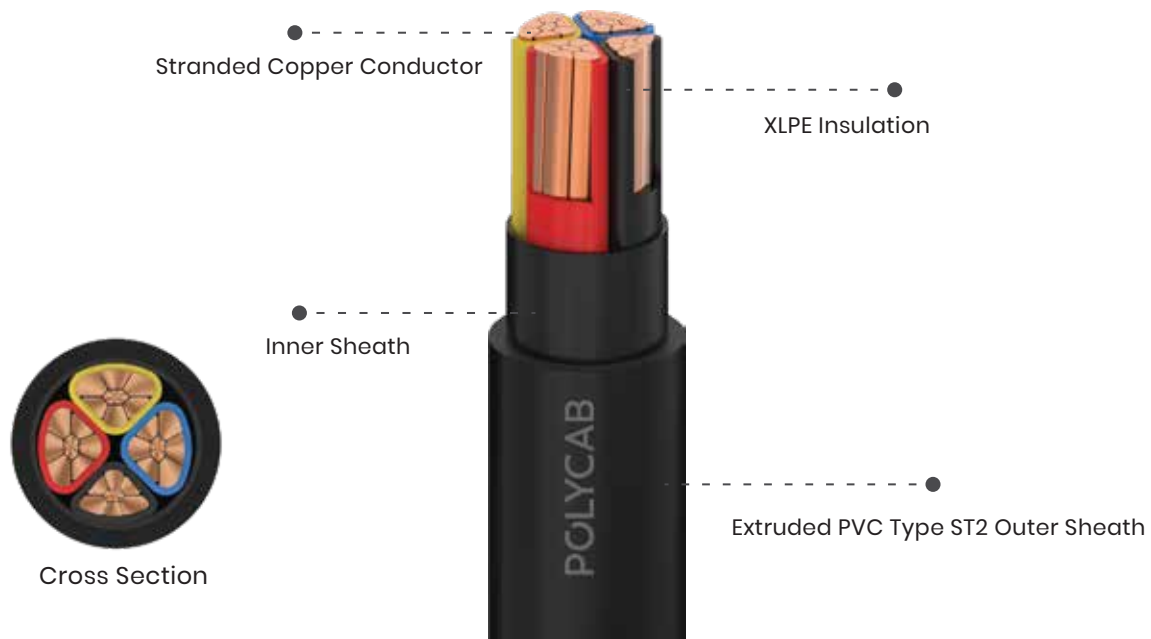
## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

| Nominal area of conductor | Buried direct in the ground | In single way Ducts | In air | Max. DC conductor resistance at 20°C |
|---------------------------|-----------------------------|---------------------|--------|--------------------------------------|
| mm <sup>2</sup>           | Amp.                        | Amp.                | Amp.   | Ω/km                                 |
| 4                         | 35                          | 30                  | 32     | 7.41                                 |
| 6                         | 46                          | 38                  | 42     | 4.61                                 |
| 10                        | 57                          | 48                  | 54     | 3.08                                 |
| 16                        | 74                          | 61                  | 69     | 1.91                                 |
| 25                        | 95                          | 79                  | 93     | 1.2                                  |
| 35                        | 114                         | 94                  | 114    | 0.868                                |
| 50                        | 134                         | 112                 | 138    | 0.641                                |
| 70                        | 164                         | 137                 | 175    | 0.443                                |
| 95                        | 197                         | 164                 | 216    | 0.32                                 |
| 120                       | 223                         | 187                 | 249    | 0.253                                |
| 150                       | 249                         | 209                 | 284    | 0.206                                |
| 185                       | 282                         | 238                 | 329    | 0.164                                |
| 240                       | 327                         | 276                 | 392    | 0.125                                |
| 300                       | 369                         | 312                 | 452    | 0.100                                |
| 400                       | 420                         | 356                 | 526    | 0.0778                               |
| 500                       | 478                         | 412                 | 612    | 0.0605                               |

Air Ambient temperature: 40°C, Ground ambient temperature: 30°C, Conductor operating temperature: 90°C  
The above table is in accordance with IS 3961(part 6):2016





#### APPLICATION

POLYCAB 2XY MC-3.5, Stranded compacted copper conductor, XLPE insulated 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

#### 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 60332-1-2:2015

#### CORE IDENTIFICATION

Red, Yellow, Blue & Black

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

- Stranded plain compacted copper conductor as per IS 8130, class 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



## Weight & Dimension Data

| Product code              | Nominal cross-sectional area | Class of conductor | Nominal Thickness of Insulation | Nominal thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|--------------------|---------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          |                    | mm                              | mm                                | mm               | kg/km            |
| LVIS09CXUAY23.5C025SA001S | 3.5 x 25                     | Class 2            | 0.9/0.7                         | 2                                 | 21.3             | 1035             |
| LVIS09CXUAY23.5C035SA001S | 3.5 x 35                     | Class 2            | 0.9/0.7                         | 2                                 | 23.6             | 1311             |
| LVIS09CXUAY23.5C050SA001S | 3.5 x 50                     | Class 2            | 1/0.9                           | 2                                 | 26.8             | 1748             |
| LVIS09CXUAY23.5C070SA001S | 3.5 x 70                     | Class 2            | 1.1/0.9                         | 2.2                               | 31               | 2460             |
| LVIS09CXUAY23.5C095SA001S | 3.5 x 95                     | Class 2            | 1.1/1                           | 2.2                               | 34.3             | 3287             |
| LVIS09CXUAY23.5C120SA001S | 3.5 x 120                    | Class 2            | 1.2/1.1                         | 2.2                               | 37.6             | 4142             |
| LVIS09CXUAY23.5C150SA001S | 3.5 x 150                    | Class 2            | 1.4/1.1                         | 2.4                               | 42.3             | 4987             |
| LVIS09CXUAY23.5C185SA001S | 3.5 x 185                    | Class 2            | 1.6/1.1                         | 2.6                               | 46.8             | 6279             |
| LVIS09CXUAY23.5C240SA001S | 3.5 x 240                    | Class 2            | 1.7/1.2                         | 2.8                               | 52.4             | 8122             |
| LVIS09CXUAY23.5C300SA001S | 3.5 x 300                    | Class 2            | 1.8/1.4                         | 3                                 | 57               | 10079            |
| LVIS09CXUAY23.5C400SA001S | 3.5 x 400                    | Class 2            | 2/1.6                           | 3.4                               | 65               | 12834.5          |

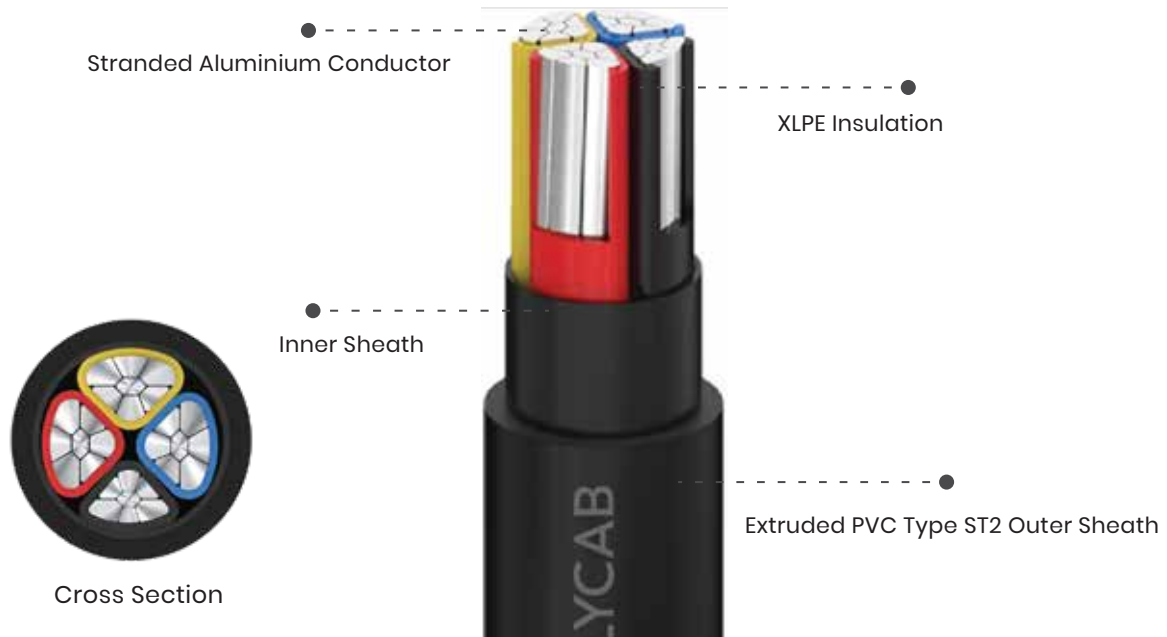
The above data is approximate & subject to manufacturing tolerance.

## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

| Nominal area of conductor | Buried direct in the ground | In single way Ducts | In air | Max. DC conductor resistance at 20°C |
|---------------------------|-----------------------------|---------------------|--------|--------------------------------------|
| mm <sup>2</sup>           | Amp.                        | Amp.                | Amp.   | Ω/km                                 |
| 25                        | 122                         | 102                 | 119    | 0.727                                |
| 35                        | 146                         | 122                 | 147    | 0.524                                |
| 50                        | 173                         | 144                 | 179    | 0.387                                |
| 70                        | 212                         | 177                 | 226    | 0.268                                |
| 95                        | 254                         | 212                 | 279    | 0.193                                |
| 120                       | 287                         | 240                 | 320    | 0.153                                |
| 150                       | 321                         | 269                 | 365    | 0.124                                |
| 185                       | 362                         | 304                 | 422    | 0.0991                               |
| 240                       | 418                         | 352                 | 500    | 0.0754                               |
| 300                       | 469                         | 396                 | 574    | 0.0601                               |
| 400                       | 528                         | 447                 | 662    | 0.047                                |

Air Ambient temperature: 40°C, Ground ambient temperature: 30°C,  
The above table is in accordance with IS 3961(part 6):2016



#### APPLICATION

POLYCAB A2XY MC-3.5, Stranded compacted aluminium conductor, XLPE insulated, 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

#### STANDARD AND REFERENCES

IS 8130:2013  
IS 5831:1984  
IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### COMPLIANCE

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

#### CORE IDENTIFICATION

Red, Yellow, Blue & Black

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

- Stranded compacted aluminium conductor as per IS 8130, class 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



## Weight & Dimension Data

| Product code              | Nominal cross-sectional area | Class of conductor | Nominal Thickness of Insulation | Nominal thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|--------------------|---------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          |                    | mm                              | mm                                | mm               | kg/km            |
| LVIS09AXUAY23.5C025SA001S | 3.5 x 25                     | Class 2            | 0.9/0.7                         | 2                                 | 21.3             | 525              |
| LVIS09AXUAY23.5C035SA001S | 3.5 x 35                     | Class 2            | 0.9/0.7                         | 2                                 | 23.6             | 625              |
| LVIS09AXUAY23.5C050SA001S | 3.5 x 50                     | Class 2            | 1/0.9                           | 2                                 | 26.8             | 800              |
| LVIS09AXUAY23.5C070SA001S | 3.5 x 70                     | Class 2            | 1.1/0.9                         | 2.2                               | 31               | 1100             |
| LVIS09AXUAY23.5C095SA001S | 3.5 x 95                     | Class 2            | 1.1/1                           | 2.2                               | 34.3             | 1400             |
| LVIS09AXUAY23.5C120SA001S | 3.5 x 120                    | Class 2            | 1.2/1.1                         | 2.2                               | 37.5             | 1650             |
| LVIS09AXUAY23.5C150SA001S | 3.5 x 150                    | Class 2            | 1.4/1.1                         | 2.4                               | 41               | 2000             |
| LVIS09AXUAY23.5C185SA001S | 3.5 x 185                    | Class 2            | 1.6/1.1                         | 2.6                               | 46.5             | 2550             |
| LVIS09AXUAY23.5C240SA001S | 3.5 x 240                    | Class 2            | 1.7/1.2                         | 2.8                               | 52.5             | 3200             |
| LVIS09AXUAY23.5C300SA001S | 3.5 x 300                    | Class 2            | 1.8/1.4                         | 3                                 | 56               | 4000             |
| LVIS09AXUAY23.5C400SA001S | 3.5 x 400                    | Class 2            | 2/1.6                           | 3.4                               | 64               | 5177             |
| LVIS09AXUAY23.5C500SA001S | 3.5 x 500                    | Class 2            | 2.2/1.70                        | 3.6                               | 72.5             | 6500             |

The above data is approximate & subject to manufacturing tolerance.

## Electrical characteristics

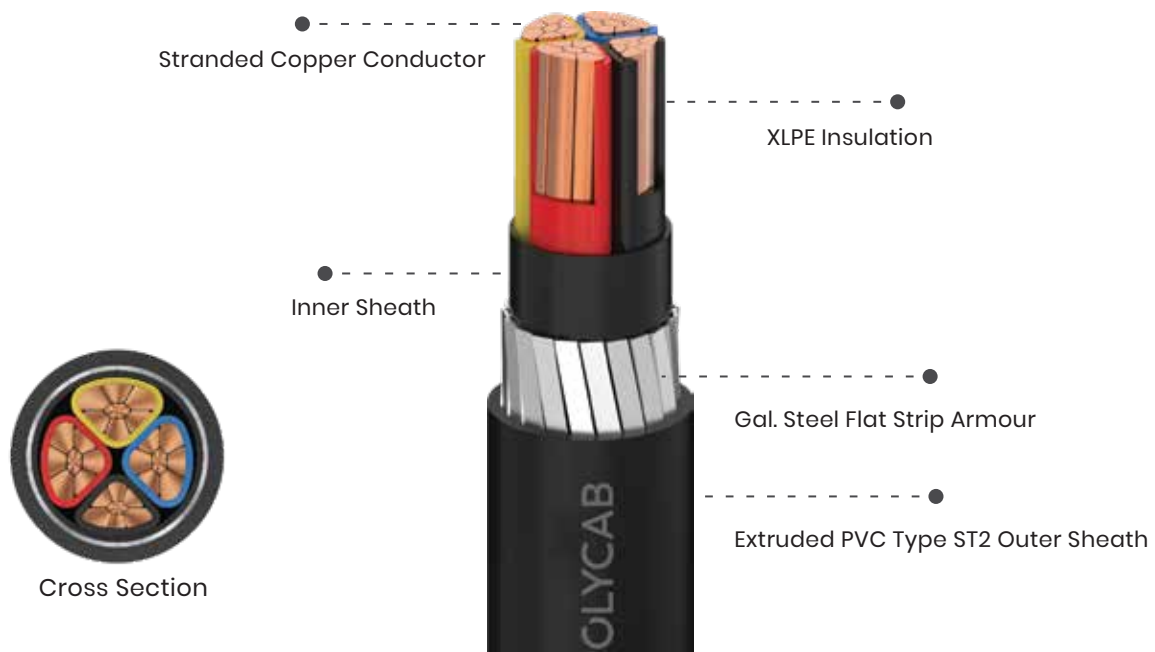
Current carrying capacity and Maximum DC conductor resistance.

| Nominal area of conductor | Buried direct in the ground | In single way Ducts | In air | Max. DC conductor resistance at 20°C |
|---------------------------|-----------------------------|---------------------|--------|--------------------------------------|
| mm <sup>2</sup>           | Amp.                        | Amp.                | Amp.   | Ω/km                                 |
| 16                        | 74                          | 61                  | 69     | 1.91                                 |
| 25                        | 95                          | 79                  | 93     | 1.2                                  |
| 35                        | 114                         | 94                  | 114    | 0.868                                |
| 50                        | 134                         | 112                 | 138    | 0.641                                |
| 70                        | 164                         | 137                 | 175    | 0.443                                |
| 95                        | 197                         | 164                 | 216    | 0.32                                 |
| 120                       | 223                         | 187                 | 249    | 0.253                                |
| 150                       | 249                         | 209                 | 284    | 0.206                                |
| 185                       | 282                         | 238                 | 329    | 0.164                                |
| 240                       | 327                         | 276                 | 392    | 0.125                                |
| 300                       | 369                         | 312                 | 452    | 0.1                                  |
| 400                       | 420                         | 356                 | 526    | 0.0778                               |
| 500                       | 478                         | 412                 | 612    | 0.0605                               |

Air Ambient temperature: 40°C,

Ground ambient temperature: 30°C,

The above table is in accordance with IS 3961(part 6):2016



#### APPLICATION

POLYCAB 2XFY MC-3.5, Stranded compacted copper conductor, XLPE insulated, PVC inner sheathed, Galvanised Steel Flat 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

#### STANDARD AND REFERENCES

IS 8130:2013  
IS 5831:1984  
IS 3975:1979  
IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### COMPLIANCE

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

#### CORE IDENTIFICATION

Red, Yellow, Blue & Black

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

- Stranded plain compacted sector shaped copper conductor as per IS 8130, class 2
- Insulated with Cross Linked Polyethylene (XLPE) to IS 7098-1
- Extruded inner sheath with PVC Type ST2/FRLS/FR/LSZH
- Armoured with Galvanised Flat Steel Strip to IS 3975
- Sheathed with Extruded PVC Type ST2/FRLS/FR/LSZH



## Weight & Dimension Data

| Product code              | Nominal cross-sectional area | Nominal Thickness of Insulation Main/Neutral | Nominal dimension of Armour flat wire | Minimum thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|----------------------------------------------|---------------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          | mm                                           | mm                                    | mm                                | mm               | kg/km            |
| LVIS09CXSFY23.5C025SA00IS | 3.5 x25                      | 0.9/0.7                                      | 4x0.8                                 | 1.4                               | 21.9             | 1272             |
| LVIS09CXSFY23.5C035SA00IS | 3.5 x35                      | 0.9/0.7                                      | 4x0.8                                 | 1.4                               | 24.2             | 1586             |
| LVIS09CXSFY23.5C050SA00IS | 3.5 x50                      | 1/0.9                                        | 4x0.8                                 | 1.4                               | 27.4             | 2061             |
| LVIS09CXSFY23.5C070SA00IS | 3.5 x70                      | 1.1/0.9                                      | 4x0.8                                 | 1.56                              | 31.5             | 2831             |
| LVIS09CXSFY23.5C095SA00IS | 3.5 x95                      | 1.1/1                                        | 4x0.8                                 | 1.56                              | 34.8             | 3686             |
| LVIS09CXSFY23.5C120SA00IS | 3.5 x120                     | 1.2/1.1                                      | 4x0.8                                 | 1.72                              | 38.5             | 4617             |
| LVIS09CXSFY23.5C150SA00IS | 3.5 x150                     | 1.4/1.1                                      | 4x0.8                                 | 1.72                              | 42.7             | 5481             |
| LVIS09CXSFY23.5C185SA00IS | 3.5 x185                     | 1.6/1.1                                      | 4x0.8                                 | 1.88                              | 47.2             | 6830             |
| LVIS09CXSFY23.5C240SA00IS | 3.5 x240                     | 1.7/1.2                                      | 4x0.8                                 | 2.04                              | 52.7             | 8711             |
| LVIS09CXSFY23.5C300SA00IS | 3.5 x300                     | 1.8/1.4                                      | 4x0.8                                 | 2.2                               | 57.9             | 10716            |
| LVIS09CXSFY23.5C400SA00IS | 3.5 x400                     | 2/1.6                                        | 4x0.8                                 | 2.52                              | 65.5             | 13556            |

The above data is approximate & subject to manufacturing tolerance.

## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

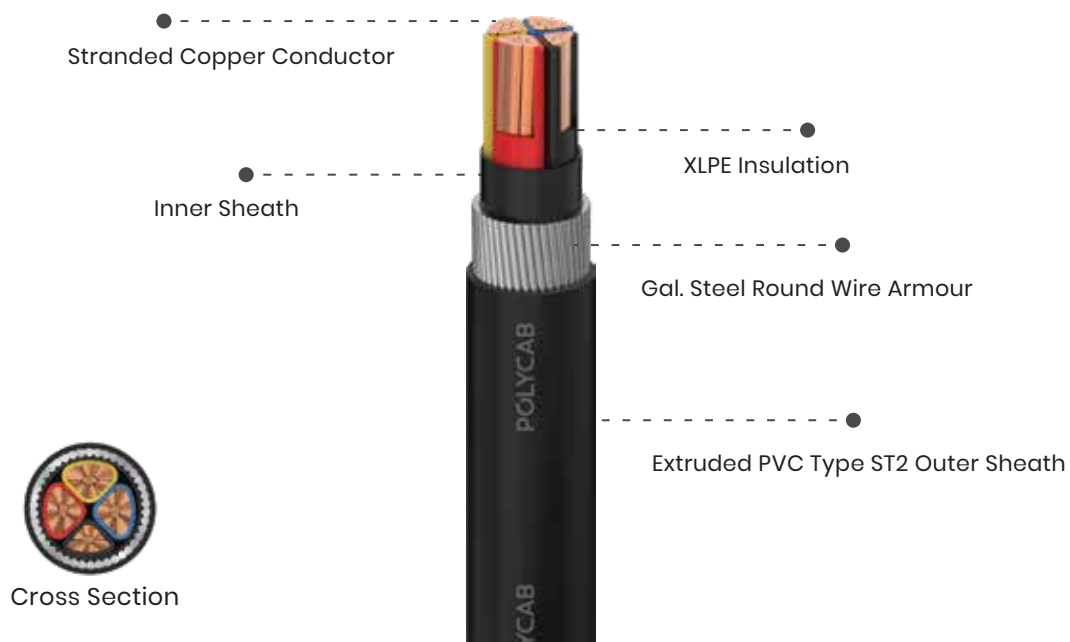
| Nominal area of conductor | Buried direct in the ground | In single way Ducts | In air | Max. DC conductor resistance at 20°C |
|---------------------------|-----------------------------|---------------------|--------|--------------------------------------|
| mm <sup>2</sup>           | Amp.                        | Amp.                | Amp.   | Ω/km                                 |
| 16                        | 95                          | 79                  | 89     | 1.15                                 |
| 25                        | 122                         | 102                 | 119    | 0.727                                |
| 35                        | 146                         | 122                 | 147    | 0.524                                |
| 50                        | 173                         | 144                 | 179    | 0.387                                |
| 70                        | 212                         | 177                 | 226    | 0.268                                |
| 95                        | 254                         | 212                 | 279    | 0.193                                |
| 120                       | 287                         | 240                 | 320    | 0.153                                |
| 150                       | 321                         | 269                 | 365    | 0.124                                |
| 185                       | 362                         | 304                 | 422    | 0.0991                               |
| 240                       | 418                         | 352                 | 500    | 0.0754                               |
| 300                       | 469                         | 396                 | 574    | 0.0601                               |
| 400                       | 528                         | 447                 | 662    | 0.047                                |

Air Ambient temperature: 40°C,

Ground ambient temperature: 30°C,

Conductor operating temperature: 90°C

The above table is in accordance with IS 3961(part 6):2016



#### APPLICATION

POLYCAB 2XWY MC-3.5, Stranded compacted copper conductor ,XLPE insulated, PVC inner sheathed, Galvanised Steel round wire 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

#### STANDARD AND REFERENCES

IS 8130:2013  
IS 5831:1984  
IS 3975:1979  
IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### COMPLIANCE

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

#### CORE IDENTIFICATION

Red, Yellow, Blue and Black

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

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



## Weight & Dimension Data

| Product code              | Nominal cross-sectional area | Nominal Thickness of Insulation Main/Neutral | Nominal dimension of Armour round wire | Minimum thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|----------------------------------------------|----------------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          | mm                                           | mm                                     | mm                                | mm               | kg/km            |
| LVIS09CXSWY23.5C025SA001S | 3.5 x25                      | 0.9/0.7                                      | 1.6                                    | 1.4                               | 23.6             | 1491             |
| LVIS09CXSWY23.5C035SA001S | 3.5 x35                      | 0.9/0.7                                      | 1.6                                    | 1.4                               | 25.8             | 1824             |
| LVIS09CXSWY23.5C050SA001S | 3.5 x50                      | 1/0.9                                        | 1.6                                    | 1.56                              | 29               | 2337             |
| LVIS09CXSWY23.5C070SA001S | 3.5 x70                      | 1.1/0.9                                      | 2                                      | 1.56                              | 33.9             | 3296             |
| LVIS09CXSWY23.5C095SA001S | 3.5 x95                      | 1.1/1                                        | 2                                      | 1.56                              | 37.2             | 4237             |
| LVIS09CXSWY23.5C120SA001S | 3.5 x120                     | 1.2/1.1                                      | 2                                      | 1.72                              | 41               | 5225             |
| LVIS09CXSWY23.5C150SA001S | 3.5 x150                     | 1.4/1.1                                      | 2                                      | 1.88                              | 45               | 6194             |
| LVIS09CXSWY23.5C185SA001S | 3.5 x185                     | 1.6/1.1                                      | 2.5                                    | 2.04                              | 50               | 7989             |
| LVIS09CXSWY23.5C240SA001S | 3.5 x240                     | 1.7/1.2                                      | 2.5                                    | 2.2                               | 56               | 10003            |
| LVIS09CXSWY23.5C300SA001S | 3.5 x300                     | 1.8/1.4                                      | 2.5                                    | 2.36                              | 61               | 12131            |
| LVIS09CXSWY23.5C400SA001S | 3.5 x400                     | 2/1.6                                        | 3.15                                   | 2.68                              | 70               | 15817            |

The above data is approximate & subject to manufacturing tolerance.

## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

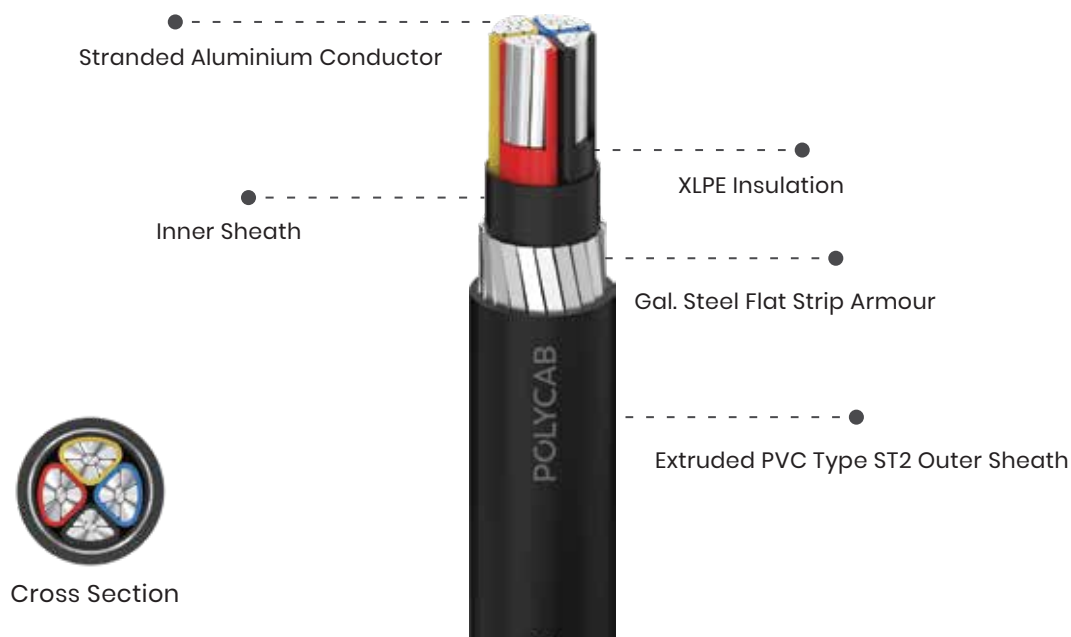
| Nominal area of conductor | Buried direct in the ground | In single way Ducts | In air | Max. DC conductor resistance at 20°C |
|---------------------------|-----------------------------|---------------------|--------|--------------------------------------|
| mm <sup>2</sup>           | Amp.                        | Amp.                | Amp.   | Ω/km                                 |
| 16                        | 95                          | 79                  | 89     | 1.15                                 |
| 25                        | 122                         | 102                 | 119    | 0.727                                |
| 35                        | 146                         | 122                 | 147    | 0.524                                |
| 50                        | 173                         | 144                 | 179    | 0.387                                |
| 70                        | 212                         | 177                 | 226    | 0.268                                |
| 95                        | 254                         | 212                 | 279    | 0.193                                |
| 120                       | 287                         | 240                 | 320    | 0.153                                |
| 150                       | 321                         | 269                 | 365    | 0.124                                |
| 185                       | 362                         | 304                 | 422    | 0.0991                               |
| 240                       | 418                         | 352                 | 500    | 0.0754                               |
| 300                       | 469                         | 396                 | 574    | 0.0601                               |
| 400                       | 528                         | 447                 | 662    | 0.047                                |

Air Ambient temperature: 40°C,

Ground ambient temperature: 30°C,

Conductor operating temperature: 90°C

The above table is in accordance with IS 3961(part 6):2016



#### APPLICATION

POLYCAB A2XFY MC-3.5, Stranded compacted aluminium conductor, XLPE insulated, PVC inner sheathed, Galvanised Steel Flat 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

#### STANDARD AND REFERENCES

IS 8130:2013  
IS 5831:1984  
IS 3975:1979  
IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### COMPLIANCE

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

#### CORE IDENTIFICATION

Red, Yellow, Blue and Black

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

- Stranded plain compacted sector shaped Aluminium conductor as per IS 8130, class 2
- Insulated with Cross Linked Polyethylene (XLPE) to IS 7098-1
- Extruded inner sheath with PVC Type ST2/FRLS/FR/LSZH
- Armoured with Galvanised Flat Steel Strip to IS 3975
- Sheathed with Extruded PVC Type ST2/FRLS/FR/LSZH



## Weight & Dimension Data

| Product code              | Nominal cross-sectional area | Nominal Thickness of Insulation Main/Neutral | Nominal dimension of Armour flat wire | Minimum thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|----------------------------------------------|---------------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          | mm                                           | mm                                    | mm                                | mm               | kg/km            |
| LVIS09AXSFYL3.5C025SA001S | 3.5 x25                      | 0.9/0.7                                      | 4x0.8                                 | 1.4                               | 21.9             | 733              |
| LVIS09AXSFYL3.5C035SA001S | 3.5 x35                      | 0.9/0.7                                      | 4x0.8                                 | 1.4                               | 24.2             | 886              |
| LVIS09AXSFYL3.5C050SA001S | 3.5 x50                      | 1/0.9                                        | 4x0.8                                 | 1.4                               | 27.4             | 1113             |
| LVIS09AXSFYL3.5C070SA001S | 3.5 x70                      | 1.1/0.9                                      | 4x0.8                                 | 1.56                              | 31.5             | 1451             |
| LVIS09AXSFYL3.5C095SA001S | 3.5 x95                      | 1.1/1                                        | 4x0.8                                 | 1.56                              | 34.8             | 1796             |
| LVIS09AXSFYL3.5C120SA001S | 3.5 x120                     | 1.2/1.1                                      | 4x0.8                                 | 1.72                              | 38.5             | 2199             |
| LVIS09AXSFYL3.5C150SA001S | 3.5 x150                     | 1.4/1.1                                      | 4x0.8                                 | 1.72                              | 42               | 2579             |
| LVIS09AXSFYL3.5C185SA001S | 3.5 x185                     | 1.6/1.1                                      | 4x0.8                                 | 1.88                              | 47.2             | 3156             |
| LVIS09AXSFYL3.5C240SA001S | 3.5 x240                     | 1.7/1.2                                      | 4x0.8                                 | 2.04                              | 52.7             | 3913             |
| LVIS09AXSFYL3.5C300SA001S | 3.5 x300                     | 1.8/1.4                                      | 4x0.8                                 | 2.2                               | 57               | 4693             |
| LVIS09AXSFYL3.5C400SA001S | 3.5 x400                     | 2/1.6                                        | 4x0.8                                 | 2.52                              | 65               | 5890             |
| LVIS09AXSFYL003C500SA001S | 3.5 x500                     | 2.2/1.7                                      | 4x0.8                                 | 2.68                              | 73.5             | 7400             |

The above data is approximate & subject to manufacturing tolerance.

## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

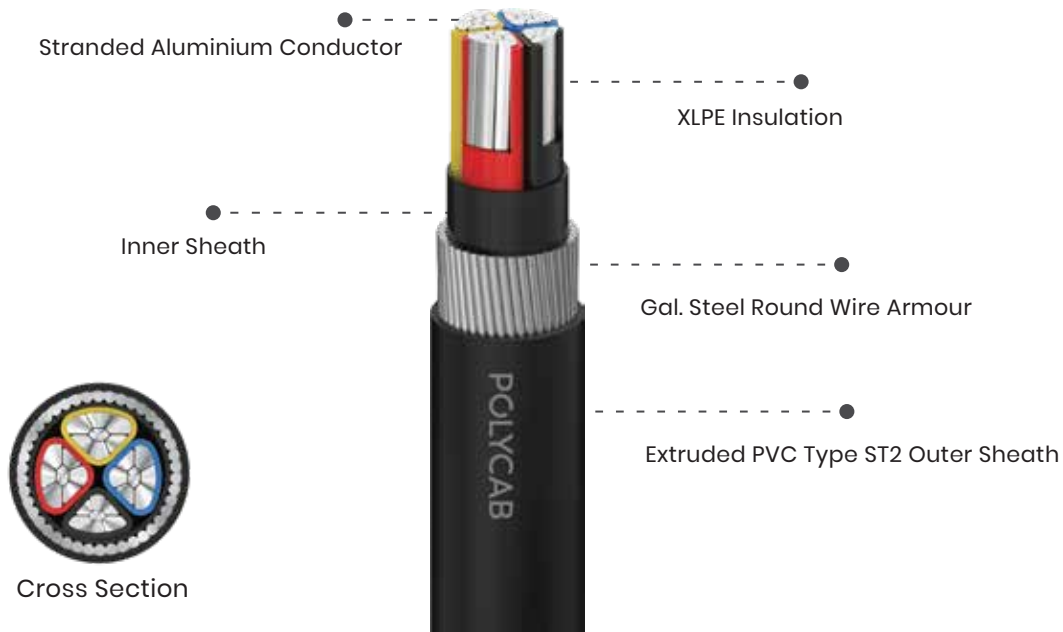
| Nominal area of conductor | Buried direct in the ground | In single way Ducts | In air | Max. DC conductor resistance at 20°C |
|---------------------------|-----------------------------|---------------------|--------|--------------------------------------|
| mm <sup>2</sup>           | Amp.                        | Amp.                | Amp.   | Ω/km                                 |
| 16                        | 74                          | 61                  | 69     | 1.91                                 |
| 25                        | 95                          | 79                  | 93     | 1.2                                  |
| 35                        | 114                         | 94                  | 114    | 0.868                                |
| 50                        | 134                         | 112                 | 138    | 0.641                                |
| 70                        | 164                         | 137                 | 175    | 0.443                                |
| 95                        | 197                         | 164                 | 216    | 0.32                                 |
| 120                       | 223                         | 187                 | 249    | 0.253                                |
| 150                       | 249                         | 209                 | 284    | 0.206                                |
| 185                       | 282                         | 238                 | 329    | 0.164                                |
| 240                       | 327                         | 276                 | 392    | 0.125                                |
| 300                       | 369                         | 312                 | 452    | 0.1                                  |
| 400                       | 420                         | 356                 | 526    | 0.0778                               |
| 500                       | 478                         | 412                 | 612    | 0.0605                               |

Air Ambient temperature: 40°C,

Ground ambient temperature: 30°C,

Conductor operating temperature: 90°C

The above table is in accordance with IS 3961(part 6):2016



#### APPLICATION

POLYCAB A2XWY MC-3.5, Stranded compacted aluminium 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

#### STANDARD AND REFERENCES

IS 8130:2013 | IS 5831:1984  
IS 3975:1979 | IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### COMPLIANCE

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

#### CORE IDENTIFICATION

Red, Yellow, Blue and Black

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

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



## Weight & Dimension Data

| Product code              | Nominal cross-sectional area | Nominal Thickness of Insulation Main/Neutral | Nominal dimension of Armour round wire | Minimum thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|----------------------------------------------|----------------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          | mm                                           | mm                                     | mm                                | mm               | kg/km            |
| LVIS09AXSWY23.5C025SA001S | 3.5 x25                      | 0.9/0.7                                      | 1.6                                    | 1.4                               | 23.6             | 969              |
| LVIS09AXSWY23.5C035SA001S | 3.5 x35                      | 0.9/0.7                                      | 1.6                                    | 1.4                               | 25.8             | 1139             |
| LVIS09AXSWY23.5C050SA001S | 3.5 x50                      | 1/0.9                                        | 1.6                                    | 1.56                              | 29.5             | 1387             |
| LVIS09AXSWY23.5C070SA001S | 3.5 x70                      | 1.1/0.9                                      | 2                                      | 1.56                              | 34               | 1938             |
| LVIS09AXSWY23.5C095SA001S | 3.5 x95                      | 1.1/1                                        | 2                                      | 1.56                              | 37.2             | 2356             |
| LVIS09AXSWY23.5C120SA001S | 3.5 x120                     | 1.2/1.1                                      | 2                                      | 1.72                              | 41               | 2800             |
| LVIS09AXSWY23.5C150SA001S | 3.5 x150                     | 1.4/1.1                                      | 2                                      | 1.88                              | 45               | 3296             |
| LVIS09AXSWY23.5C185SA001S | 3.5 x185                     | 1.6/1.1                                      | 2.5                                    | 2.04                              | 50               | 4313             |
| LVIS09AXSWY23.5C240SA001S | 3.5 x240                     | 1.7/1.2                                      | 2.5                                    | 2.2                               | 56               | 5156             |
| LVIS09AXSWY23.5C300SA001S | 3.5 x300                     | 1.8/1.4                                      | 2.5                                    | 2.36                              | 61               | 6108             |
| LVIS09AXSWY23.5C400SA001S | 3.5 x400                     | 2/1.6                                        | 3.15                                   | 2.68                              | 70               | 8151             |
| LVIS09AXSWY23.5C500SA001S | 3.5 x500                     | 2.2/1.7                                      | 3.15                                   | 2.84                              | 77               | 9880             |

The above data is approximate & subject to manufacturing tolerance.

## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

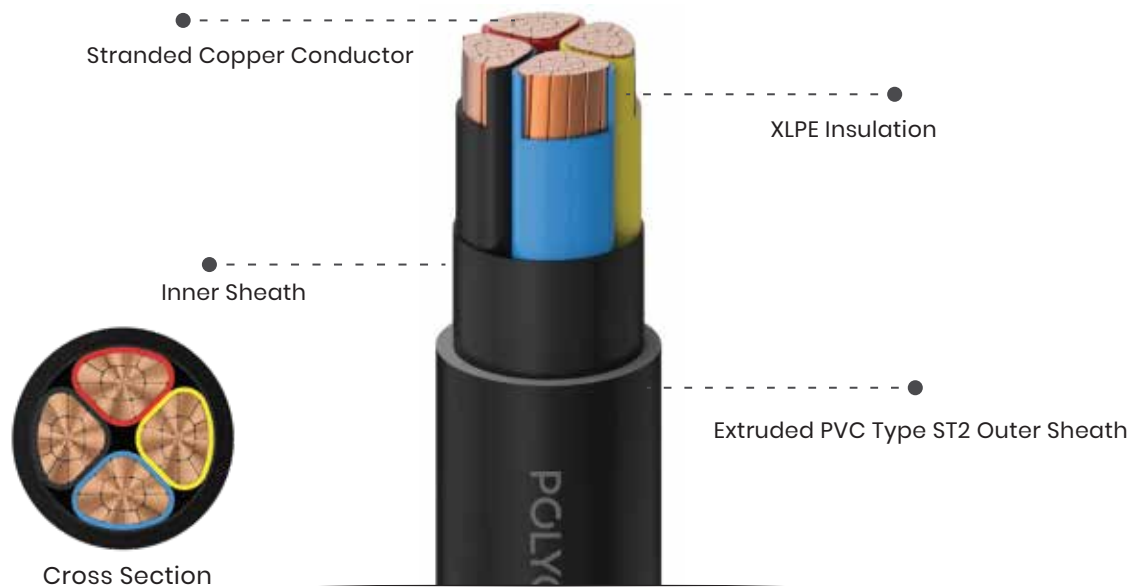
| Nominal area of conductor | Buried direct in the ground | In single way Ducts | In air | Max. DC conductor resistance at 20°C |
|---------------------------|-----------------------------|---------------------|--------|--------------------------------------|
| mm <sup>2</sup>           | Amp.                        | Amp.                | Amp.   | Ω/km                                 |
| 16                        | 74                          | 61                  | 69     | 1.91                                 |
| 25                        | 95                          | 79                  | 93     | 1.20                                 |
| 35                        | 114                         | 94                  | 114    | 0.868                                |
| 50                        | 134                         | 112                 | 138    | 0.641                                |
| 70                        | 164                         | 137                 | 175    | 0.443                                |
| 95                        | 197                         | 164                 | 216    | 0.32                                 |
| 120                       | 223                         | 187                 | 249    | 0.253                                |
| 150                       | 249                         | 209                 | 284    | 0.206                                |
| 185                       | 282                         | 238                 | 329    | 0.164                                |
| 240                       | 327                         | 276                 | 392    | 0.125                                |
| 300                       | 369                         | 312                 | 452    | 0.100                                |
| 400                       | 420                         | 356                 | 526    | 0.0778                               |
| 500                       | 478                         | 412                 | 612    | 0.0605                               |

Air Ambient temperature: 40°C,

Ground ambient temperature: 30°C,

Conductor operating temperature: 90°C

The above table is in accordance with IS 3961(part 6):2016



#### APPLICATION

POLYCAB 2XY MC-4, Stranded compacted copper conductor, XLPE insulated, 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

#### STANDARD AND REFERENCES

IS 8130:2013  
IS 5831:1984  
IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### COMPLIANCE

Conductor resistance - IS 8130:2013  
Insulation resistance - IS 7098-1:1988  
Flammability test - IEC 60332-1-2:2015

#### CORE IDENTIFICATION

Red, Yellow, Blue & Black

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

- Stranded plain compacted/Non-Compacted 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



## Weight & Dimension Data

| Product code              | Nominal cross-sectional area | Class of conductor | Nominal Thickness of Insulation | Nominal thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|--------------------|---------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          |                    | mm                              | mm                                | mm               | kg/km            |
| LVIS09CXUAY2004C004SA001S | 4 x 4                        | Class 1            | 0.7                             | 1.8                               | 13.5             | 260              |
| LVIS09CXUAY2004C006SA001S | 4 x 6                        | Class 1            | 0.7                             | 1.8                               | 14.7             | 350              |
| LVIS09CXUAY2004C004SA002S | 4 x 4                        | Class 2            | 0.7                             | 1.8                               | 14.2             | 280              |
| LVIS09CXUAY2004C006SA004S | 4 x 6                        | Class 2            | 0.7                             | 1.8                               | 15.5             | 365              |
| LVIS09CXUAY2004C010SA001S | 4 x 10                       | Class 2            | 0.7                             | 1.8                               | 17.8             | 510              |
| LVIS09CXUAY2004C016SA001S | 4 x 16                       | Class 2            | 0.7                             | 1.8                               | 17.5             | 741              |
| LVIS09CXUAY2004C025SA001S | 4 x 25                       | Class 2            | 0.9                             | 2                                 | 21               | 1140             |
| LVIS09CXUAY2004C035SA001S | 4 x 35                       | Class 2            | 0.9                             | 2                                 | 23.5             | 1491             |
| LVIS09CXUAY2004C050SA001S | 4 x 50                       | Class 2            | 1                               | 2                                 | 26               | 1957             |
| LVIS09CXUAY2004C070SA001S | 4 x 70                       | Class 2            | 1.1                             | 2.2                               | 30.5             | 2774             |
| LVIS09CXUAY2004C095SA001S | 4 x 95                       | Class 2            | 1.1                             | 2.2                               | 33.5             | 3714             |
| LVIS09CXUAY2004C120SA001S | 4 x 120                      | Class 2            | 1.2                             | 2.4                               | 37.5             | 4645             |
| LVIS09CXUAY2004C150SA001S | 4 x 150                      | Class 2            | 1.4                             | 2.6                               | 42               | 5719             |
| LVIS09CXUAY2004C185SA001S | 4 x 185                      | Class 2            | 1.6                             | 2.8                               | 46.5             | 7125             |
| LVIS09CXUAY2004C240SA001S | 4 x 240                      | Class 2            | 1.7                             | 3                                 | 52.5             | 9253             |
| LVIS09CXUAY2004C300SA001S | 4 x 300                      | Class 2            | 1.8                             | 3.2                               | 58               | 11524            |

The above data is approximate & subject to manufacturing tolerance.

## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

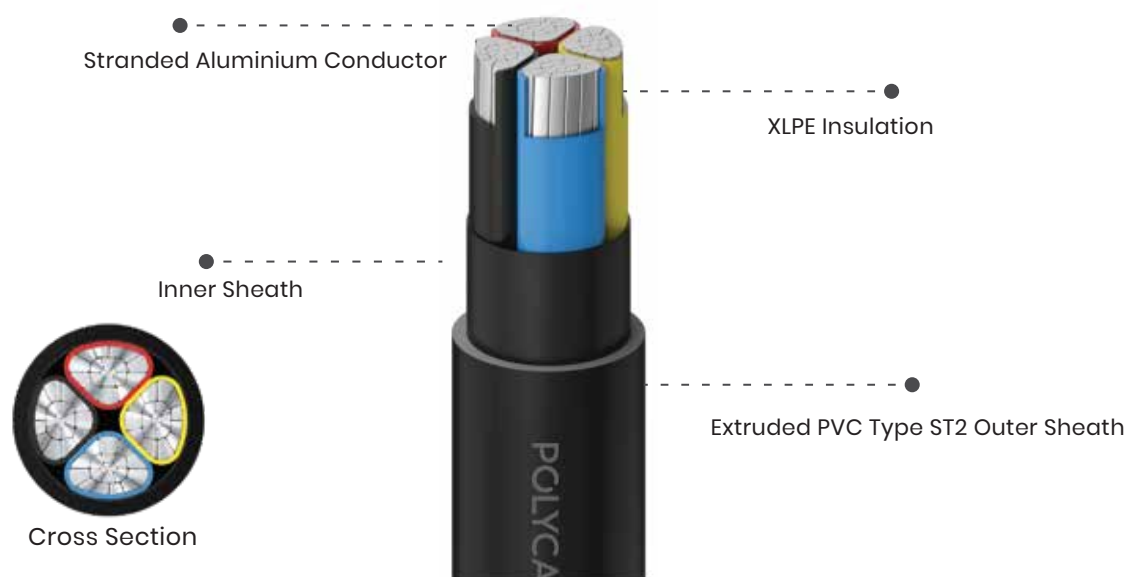
| Nominal area of conductor | Buried direct in the ground | In single way Ducts | In air | Max. DC conductor resistance at 20°C |
|---------------------------|-----------------------------|---------------------|--------|--------------------------------------|
| mm <sup>2</sup>           | Amp.                        | Amp.                | Amp.   | Ω/km                                 |
| 4                         | 45                          | 38                  | 41     | 4.61                                 |
| 6                         | 56                          | 47                  | 52     | 3.08                                 |
| 10                        | 74                          | 62                  | 70     | 1.83                                 |
| 16                        | 95                          | 79                  | 89     | 1.15                                 |
| 25                        | 122                         | 102                 | 119    | 0.727                                |
| 35                        | 146                         | 122                 | 147    | 0.524                                |
| 50                        | 173                         | 144                 | 179    | 0.387                                |
| 70                        | 212                         | 177                 | 226    | 0.268                                |
| 95                        | 254                         | 212                 | 279    | 0.193                                |
| 120                       | 287                         | 240                 | 320    | 0.153                                |
| 150                       | 321                         | 269                 | 365    | 0.124                                |
| 185                       | 362                         | 304                 | 422    | 0.0991                               |
| 240                       | 418                         | 352                 | 500    | 0.0754                               |
| 300                       | 469                         | 396                 | 574    | 0.0601                               |
| 400                       | 528                         | 447                 | 662    | 0.047                                |

Air Ambient temperature: 40°C,

Ground ambient temperature: 30°C,

The above table is in accordance with IS 3961(part 6):2016





#### APPLICATION

POLYCAB A2XY MC-4, Stranded compacted aluminium conductor, XLPE insulated, 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

#### STANDARD AND REFERENCES

IS 8130:2013  
IS 5831:1984  
IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### COMPLIANCE

Conductor resistance - IS 8130:2013  
Insulation resistance - IS 7098-1:1988  
Flammability test - IEC 60332-1-2:2015

#### CORE IDENTIFICATION

Red, Yellow, Blue & Black

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

- Stranded compacted ( $\leq 16 \text{ sqmm}$ )/Non compacted aluminium 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



## Weight & Dimension Data

| Product code              | Nominal cross-sectional area | Class of conductor | Nominal Thickness of Insulation | Nominal thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|--------------------|---------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          |                    | mm                              | mm                                | mm               | kg/km            |
| LVIS09AXUAY2004C004SA00IS | 4x4                          | Class 1            | 0.7                             | 1.8                               | 13.5             | 160              |
| LVIS09AXUAY2004C006SA003S | 4x6                          | Class 1            | 0.7                             | 1.8                               | 14.7             | 200              |
| LVIS09AXUAY2004C010SA00IS | 4x10                         | Class 1            | 0.7                             | 1.8                               | 16.6             | 250              |
| LVIS09AXUAY2004C004SA002S | 4x4                          | Class 2            | 0.7                             | 1.8                               | 14.2             | 180              |
| LVIS09AXUAY2004C006SA002S | 4x6                          | Class 2            | 0.7                             | 1.8                               | 15.5             | 215              |
| LVIS09AXUAY2004C010SA002S | 4x10                         | Class 2            | 0.7                             | 1.8                               | 17.5             | 260              |
| LVIS09AXUAY2004C016SA00IS | 4x16                         | Class 2            | 0.7                             | 1.8                               | 17.8             | 350              |
| LVIS09AXUAY2004C025SA00IS | 4x25                         | Class 2            | 0.9                             | 2                                 | 21               | 550              |
| LVIS09AXUAY2004C035SA00IS | 4x35                         | Class 2            | 0.9                             | 2                                 | 23.5             | 680              |
| LVIS09AXUAY2004C050SA00IS | 4x50                         | Class 2            | 1                               | 2                                 | 26               | 875              |
| LVIS09AXUAY2004C070SA00IS | 4x70                         | Class 2            | 1.1                             | 2.2                               | 30.5             | 1200             |
| LVIS09AXUAY2004C095SA00IS | 4x95                         | Class 2            | 1.1                             | 2.2                               | 33.5             | 1530             |
| LVIS09AXUAY2004C120SA00IS | 4x120                        | Class 2            | 1.2                             | 2.4                               | 37.5             | 1850             |
| LVIS09AXUAY2004C150SA00IS | 4x150                        | Class 2            | 1.4                             | 2.6                               | 42               | 2280             |
| LVIS09AXUAY2004C185SA00IS | 4x185                        | Class 2            | 1.6                             | 2.8                               | 46.5             | 2800             |
| LVIS09AXUAY2004C240SA00IS | 4x240                        | Class 2            | 1.7                             | 3                                 | 52.5             | 3700             |
| LVIS09AXUAY2004C300SA00IS | 4x300                        | Class 2            | 1.8                             | 3.2                               | 58               | 4600             |
| LVIS09AXUAY2004C400SA00IS | 4x400                        | Class 2            | 2                               | 3.6                               | 65.5             | 6000             |

The above data is approximate & subject to manufacturing tolerance.

## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

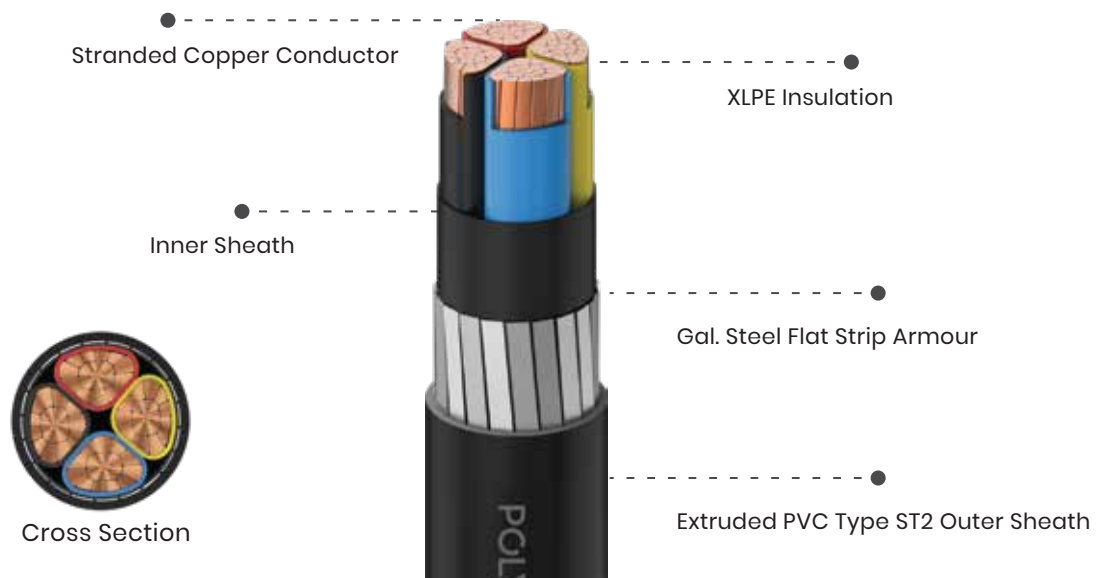
| Nominal area of conductor | Buried direct in the ground | In single way Ducts | In air | Max. DC conductor resistance at 20°C |
|---------------------------|-----------------------------|---------------------|--------|--------------------------------------|
| mm <sup>2</sup>           | Amp.                        | Amp.                | Amp.   | Ω/km                                 |
| 4                         | 35                          | 30                  | 32     | 7.41                                 |
| 6                         | 46                          | 38                  | 42     | 4.61                                 |
| 10                        | 57                          | 48                  | 54     | 3.08                                 |
| 16                        | 74                          | 61                  | 69     | 1.91                                 |
| 25                        | 95                          | 79                  | 93     | 1.2                                  |
| 35                        | 114                         | 94                  | 114    | 0.868                                |
| 50                        | 134                         | 112                 | 138    | 0.641                                |
| 70                        | 164                         | 137                 | 175    | 0.443                                |
| 95                        | 197                         | 164                 | 216    | 0.32                                 |
| 120                       | 223                         | 187                 | 249    | 0.253                                |
| 150                       | 249                         | 209                 | 284    | 0.206                                |
| 185                       | 282                         | 238                 | 329    | 0.164                                |
| 240                       | 327                         | 276                 | 392    | 0.125                                |
| 300                       | 369                         | 312                 | 452    | 0.1                                  |
| 400                       | 420                         | 356                 | 526    | 0.0778                               |
| 500                       | 478                         | 412                 | 612    | 0.0605                               |

Air Ambient temperature: 40°C,

Ground ambient temperature: 30°C,

The above table is in accordance with IS 3961(part 6):2016





#### APPLICATION

POLYCAB 2XFY MC-4, Stranded compacted copper conductor, XLPE insulated, PVC inner sheathed, Galvanised Steel Flat 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

#### STANDARD AND REFERENCES

IS 8130:2013 | IS 5831:1984

IS 3975:1979 | IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C

Short circuit temperature 250°C

#### COMPLIANCE

Conductor resistance – IS 8130:2013

Insulation resistance – IS 7098-1:1988

Flammability test – IEC 60332-1:2015

#### CORE IDENTIFICATION

Red, Yellow, Blue and Black

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

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



## Weight & Dimension Data

| Product code              | Nominal cross-sectional area | Nominal Thickness of Insulation Main/Neutral | Nominal dimension of Armour flat wire | Minimum thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|----------------------------------------------|---------------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          | mm                                           | mm                                    | mm                                | mm               | kg/km            |
| LVIS09CXSFY2004C016SA001S | 4 x16                        | 0.7                                          | 4x0.8                                 | 1.4                               | 20               | 969              |
| LVIS09CXSFY2004C025SA001S | 4 x25                        | 0.9                                          | 4x0.8                                 | 1.4                               | 23               | 1406             |
| LVIS09CXSFY2004C035SA001S | 4 x35                        | 0.9                                          | 4x0.8                                 | 1.4                               | 25               | 1786             |
| LVIS09CXSFY2004C050SA001S | 4 x50                        | 1                                            | 4x0.8                                 | 1.56                              | 28               | 2308             |
| LVIS09CXSFY2004C070SA001S | 4 x70                        | 1.1                                          | 4x0.8                                 | 1.56                              | 32               | 3154             |
| LVIS09CXSFY2004C095SA001S | 4 x95                        | 1.1                                          | 4x0.8                                 | 1.56                              | 35               | 4161             |
| LVIS09CXSFY2004C120SA001S | 4 x120                       | 1.2                                          | 4x0.8                                 | 1.72                              | 39               | 5101             |
| LVIS09CXSFY2004C150SA001S | 4 x150                       | 1.4                                          | 4x0.8                                 | 1.88                              | 43.5             | 6232             |
| LVIS09CXSFY2004C185SA001S | 4 x185                       | 1.6                                          | 4x0.8                                 | 2.04                              | 48               | 7676             |
| LVIS09CXSFY2004C240SA001S | 4 x240                       | 1.7                                          | 4x0.8                                 | 2.2                               | 54               | 9880             |
| LVIS09CXSFY2004C300SA001S | 4 x300                       | 1.8                                          | 4x0.8                                 | 2.36                              | 59.5             | 12198            |

The above data is approximate & subject to manufacturing tolerance.

## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

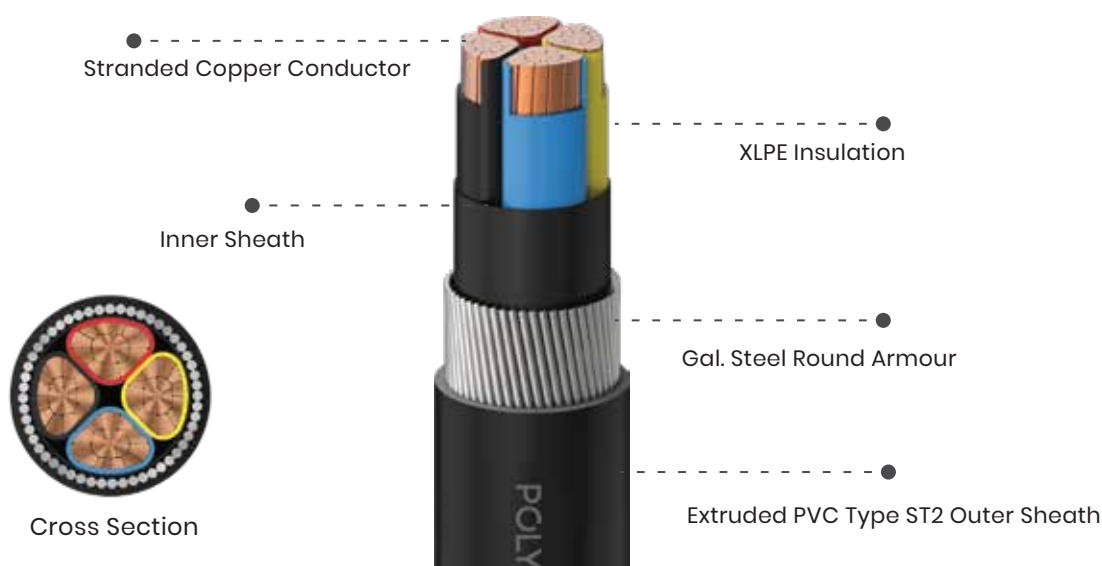
| Nominal area of conductor | Buried direct in the ground | In single way Ducts | In air | Max. DC conductor resistance at 20°C |
|---------------------------|-----------------------------|---------------------|--------|--------------------------------------|
| mm <sup>2</sup>           | Amp.                        | Amp.                | Amp.   | Ω/km                                 |
| 16                        | 95                          | 79                  | 89     | 1.91                                 |
| 25                        | 122                         | 102                 | 119    | 1.2                                  |
| 35                        | 146                         | 122                 | 147    | 0.868                                |
| 50                        | 173                         | 144                 | 179    | 0.641                                |
| 70                        | 212                         | 177                 | 226    | 0.443                                |
| 95                        | 254                         | 212                 | 279    | 0.32                                 |
| 120                       | 287                         | 240                 | 320    | 0.253                                |
| 150                       | 321                         | 269                 | 365    | 0.206                                |
| 185                       | 362                         | 304                 | 422    | 0.164                                |
| 240                       | 418                         | 352                 | 500    | 0.125                                |
| 300                       | 469                         | 396                 | 574    | 0.100                                |
| 400                       | 528                         | 447                 | 662    | 0.0778                               |

Air Ambient temperature: 40°C,

Ground ambient temperature: 30°C,

Conductor operating temperature: 90°C

The above table is in accordance with IS 3961(part 6):2016



#### APPLICATION

POLYCAB 2XWY MC-4, Stranded compacted copper conductor, XLPE insulated, PVC inner sheathed, Galvanised Steel round wire 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

#### STANDARD AND REFERENCES

IS 8130:2013 | IS 5831:1984  
IS 3975:1979 | IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### COMPLIANCE

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

#### CORE IDENTIFICATION

Red, Yellow, Blue and Black

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

- Stranded plain compacted sector shaped 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
- Armoured with Galvanised Steel round wire to IS 3975
- Sheathed with Extruded PVC Type ST2/FRLS/FR/LSZH



## Weight & Dimension Data

| Product code              | Nominal cross-sectional area | Class of conductor | Nominal Thickness of Insulation | Nominal dimension of Armour round wire | Minimum thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|--------------------|---------------------------------|----------------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          |                    | mm                              | mm                                     | mm                                | mm               | kg/km            |
| LVIS09CXSXY2004C004SA002P | 4x4                          | Class 1            | 0.7                             | 1.4                                    | 1.24                              | 15.3             | 503              |
| LVIS09CXSXY2004C004SA001P | 4x4                          | Class 2            | 0.7                             | 1.4                                    | 1.24                              | 16               | 533              |
| LVIS09CXSXY2004C006SA002P | 4x6                          | Class 1            | 0.7                             | 1.4                                    | 1.24                              | 16.5             | 618              |
| LVIS09CXSXY2004C006SA001P | 4x6                          | Class 2            | 0.7                             | 1.4                                    | 1.24                              | 17.3             | 646              |
| LVIS09CXSXY2004C010SA001S | 4x10                         | Class 2            | 0.7                             | 1.4                                    | 1.4                               | 19.8             | 870              |
| LVIS09CXSXY2004C016SA001S | 4x16                         | Class 2            | 0.7                             | 1.6                                    | 1.4                               | 21               | 1159             |
| LVIS09CXSXY2004C025SA001S | 4x25                         | Class 2            | 0.9                             | 1.6                                    | 1.4                               | 25               | 1615             |
| LVIS09CXSXY2004C035SA001S | 4x35                         | Class 2            | 0.9                             | 1.6                                    | 1.4                               | 26.5             | 2033             |
| LVIS09CXSXY2004C050SA001S | 4x50                         | Class 2            | 1                               | 1.6                                    | 1.56                              | 29.5             | 2593             |
| LVIS09CXSXY2004C070SA001S | 4x70                         | Class 2            | 1.1                             | 2                                      | 1.56                              | 34               | 3686             |
| LVIS09CXSXY2004C095SA001S | 4x95                         | Class 2            | 1.1                             | 2                                      | 1.72                              | 38               | 4769             |
| LVIS09CXSXY2004C120SA001S | 4x120                        | Class 2            | 1.2                             | 2                                      | 1.88                              | 42               | 5795             |
| LVIS09CXSXY2004C150SA001S | 4x150                        | Class 2            | 1.4                             | 2.5                                    | 2.04                              | 47               | 7324             |
| LVIS09CXSXY2004C185SA001S | 4x185                        | Class 2            | 1.6                             | 2.5                                    | 2.2                               | 52               | 8901             |
| LVIS09CXSXY2004C240SA001S | 4x240                        | Class 2            | 1.7                             | 2.5                                    | 2.36                              | 57.5             | 11210            |
| LVIS09CXSXY2004C300SA001S | 4x300                        | Class 2            | 1.8                             | 3.15                                   | 2.52                              | 64.5             | 14279            |

The above data is approximate & subject to manufacturing tolerance.

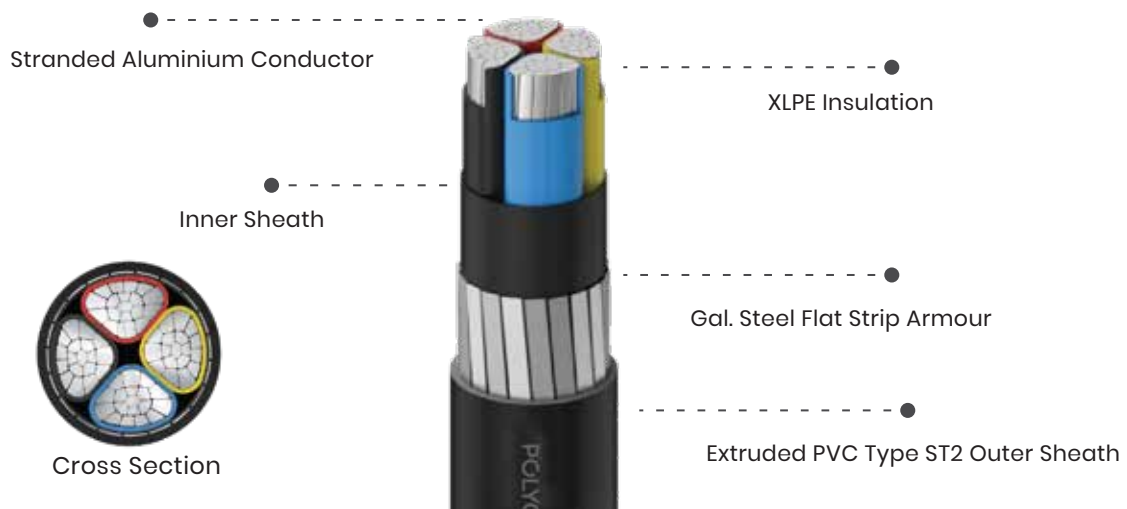
## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

| Nominal area of conductor | Buried direct in the ground | In single way Ducts | In air | Max. DC conductor resistance at 20°C |
|---------------------------|-----------------------------|---------------------|--------|--------------------------------------|
| mm <sup>2</sup>           | Amp.                        | Amp.                | Amp.   | Ω/km                                 |
| 4                         | 45                          | 38                  | 41     | 4.61                                 |
| 6                         | 56                          | 47                  | 52     | 3.08                                 |
| 10                        | 74                          | 62                  | 70     | 1.83                                 |
| 16                        | 95                          | 79                  | 89     | 1.15                                 |
| 25                        | 122                         | 102                 | 119    | 0.727                                |
| 35                        | 146                         | 122                 | 147    | 0.524                                |
| 50                        | 173                         | 144                 | 179    | 0.387                                |
| 70                        | 212                         | 177                 | 226    | 0.268                                |
| 95                        | 254                         | 212                 | 279    | 0.193                                |
| 120                       | 287                         | 240                 | 320    | 0.153                                |
| 150                       | 321                         | 269                 | 365    | 0.124                                |
| 185                       | 362                         | 304                 | 422    | 0.0991                               |
| 240                       | 418                         | 352                 | 500    | 0.0754                               |
| 300                       | 469                         | 396                 | 574    | 0.0601                               |
| 400                       | 528                         | 447                 | 662    | 0.047                                |

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

The above table is in accordance with IS 3961(part 6):2016



#### APPLICATION

POLYCAB A2XFY MC-4, Stranded compacted aluminium conductor, XLPE insulated, PVC inner sheathed, Galvanised Steel Flat 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

#### STANDARD AND REFERENCES

IS 8130:2013 | IS 5831:1984  
IS 3975:1979 | IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C

Short circuit temperature 250°C

#### COMPLIANCE

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

#### CORE IDENTIFICATION

Red, Yellow, Blue and Black

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

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



## Weight & Dimension Data

| Product code              | Nominal cross-sectional area | Nominal Thickness of Insulation Main/Neutral | Nominal dimension of Armour flat wire | Minimum thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|----------------------------------------------|---------------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          | mm                                           | mm                                    | mm                                | mm               | kg/km            |
| LVIS09AXSFY2004C016SA001S | 4 x16                        | 0.7                                          | 4x0.8                                 | 1.4                               | 20               | 608              |
| LVIS09AXSFY2004C025SA001S | 4 x25                        | 0.9                                          | 4x0.8                                 | 1.4                               | 23               | 828.5            |
| LVIS09AXSFY2004C035SA001S | 4 x35                        | 0.9                                          | 4x0.8                                 | 1.4                               | 25               | 997              |
| LVIS09AXSFY2004C050SA001S | 4 x50                        | 1                                            | 4x0.8                                 | 1.56                              | 28               | 1235             |
| LVIS09AXSFY2004C070SA001S | 4 x70                        | 1.1                                          | 4x0.8                                 | 1.56                              | 32               | 1615             |
| LVIS09AXSFY2004C095SA001S | 4 x95                        | 1.1                                          | 4x0.8                                 | 1.56                              | 35               | 2014             |
| LVIS09AXSFY2004C120SA001S | 4 x120                       | 1.2                                          | 4x0.8                                 | 1.72                              | 39               | 2403             |
| LVIS09AXSFY2004C150SA001S | 4 x150                       | 1.4                                          | 4x0.8                                 | 1.88                              | 43               | 2888             |
| LVIS09AXSFY2004C185SA001S | 4 x185                       | 1.6                                          | 4x0.8                                 | 2.04                              | 48               | 3505             |
| LVIS09AXSFY2004C240SA001S | 4 x240                       | 1.7                                          | 4x0.8                                 | 2.2                               | 54               | 4389             |
| LVIS09AXSFY2004C300SA001S | 4 x300                       | 1.8                                          | 4x0.8                                 | 2.36                              | 59.5             | 5291             |
| LVIS09AXSFY2004C400SA001S | 4 x400                       | 2                                            | 4x0.8                                 | 2.68                              | 66.5             | 6538             |

The above data is approximate & subject to manufacturing tolerance.

## Electrical characteristics

Current carrying capacity and Maximum DC conductor resistance.

| Nominal area of conductor | Buried direct in the ground | In single way Ducts | In air | Max. DC conductor resistance at 20°C |
|---------------------------|-----------------------------|---------------------|--------|--------------------------------------|
| mm <sup>2</sup>           | Amp.                        | Amp.                | Amp.   | Ω/km                                 |
| 16                        | 74                          | 61                  | 69     | 1.91                                 |
| 25                        | 95                          | 79                  | 93     | 1.20                                 |
| 35                        | 114                         | 94                  | 114    | 0.868                                |
| 50                        | 134                         | 112                 | 138    | 0.641                                |
| 70                        | 164                         | 137                 | 175    | 0.443                                |
| 95                        | 197                         | 164                 | 216    | 0.32                                 |
| 120                       | 223                         | 187                 | 249    | 0.253                                |
| 150                       | 249                         | 209                 | 284    | 0.206                                |
| 185                       | 282                         | 238                 | 329    | 0.164                                |
| 240                       | 327                         | 276                 | 392    | 0.125                                |
| 300                       | 369                         | 312                 | 452    | 0.100                                |
| 400                       | 420                         | 356                 | 526    | 0.0778                               |
| 500                       | 478                         | 412                 | 612    | 0.0605                               |

Air Ambient temperature: 40°C,

Ground ambient temperature: 30°C,

Conductor operating temperature: 90°C

The above table is in accordance with IS 3961(part 6):2016



#### APPLICATION

POLYCAB A2XWY MC-4, Stranded compacted aluminium 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

#### STANDARD AND REFERENCES

IS 8130:2013 | IS 5831:1984  
IS 3975:1979 | IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### COMPLIANCE

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

#### CORE IDENTIFICATION

Red, Yellow, Blue and Black

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### CONSTRUCTION

- Stranded compacted sector shaped Aluminium 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
- Armoured with Galvanised Steel round wire to IS 3975
- Sheathed with Extruded PVC Type ST2/FRLS/FR/LSZH



## Weight & Dimension Data

| Product code              | Nominal cross-sectional area | Class of conductor | Nominal Thickness of Insulation | Nominal dimension of Armour round wire | Minimum thickness of outer sheath | Overall Diameter | Weight (Approx.) |
|---------------------------|------------------------------|--------------------|---------------------------------|----------------------------------------|-----------------------------------|------------------|------------------|
|                           | n x mm <sup>2</sup>          |                    | mm                              | mm                                     | mm                                | mm               | kg/km            |
| LVIS09AXSWY2004C004SA002S | 4 x4                         | Class 1            | 0.7                             | 1.4                                    | 1.24                              | 15.3             | 413              |
| LVIS09AXSWY2004C004SA003P | 4 x4                         | Class 2            | 0.7                             | 1.4                                    | 1.24                              | 16               | 435              |
| LVIS09AXSWY2004C006SA002P | 4 x6                         | Class 1            | 0.7                             | 1.4                                    | 1.24                              | 16.5             | 473              |
| LVIS09AXSWY2004C006SA001P | 4 x6                         | Class 2            | 0.7                             | 1.4                                    | 1.24                              | 17.3             | 506              |
| LVIS09AXSWY2004C010SA003P | 4 x10                        | Class 1            | 0.7                             | 1.4                                    | 1.4                               | 18.6             | 592              |
| LVIS09AXSWY2004C010SA001P | 4 x10                        | Class 2            | 0.7                             | 1.4                                    | 1.4                               | 19.8             | 633              |
| LVIS09AXSWY2004C016SA003S | 4 x16                        | Class 2            | 0.7                             | 1.6                                    | 1.4                               | 21               | 795              |
| LVIS09AXSWY2004C025SA001S | 4 x25                        | Class 2            | 0.9                             | 1.6                                    | 1.4                               | 25               | 1045             |
| LVIS09AXSWY2004C035SA001S | 4 x35                        | Class 2            | 0.9                             | 1.6                                    | 1.4                               | 26.5             | 1244             |
| LVIS09AXSWY2004C050SA001S | 4 x50                        | Class 2            | 1                               | 1.6                                    | 1.56                              | 29.5             | 1520             |
| LVIS09AXSWY2004C070SA001S | 4 x70                        | Class 2            | 1.1                             | 2                                      | 1.56                              | 34               | 2137             |
| LVIS09AXSWY2004C095SA001S | 4 x95                        | Class 2            | 1.1                             | 2                                      | 1.72                              | 38               | 2622             |
| LVIS09AXSWY2004C120SA001S | 4 x120                       | Class 2            | 1.2                             | 2                                      | 1.88                              | 42               | 3087             |
| LVIS09AXSWY2004C150SA001S | 4 x150                       | Class 2            | 1.4                             | 2.5                                    | 2.04                              | 47               | 3980             |
| LVIS09AXSWY2004C185SA001S | 4 x185                       | Class 2            | 1.6                             | 2.5                                    | 2.2                               | 52               | 4721             |
| LVIS09AXSWY2004C240SA001S | 4 x240                       | Class 2            | 1.7                             | 2.5                                    | 2.36                              | 57.5             | 5709             |
| LVIS09AXSWY2004C300SA001S | 4 x300                       | Class 2            | 1.8                             | 3.15                                   | 2.52                              | 64.5             | 7372             |
| LVIS09AXSWY2004C400SA001S | 4 x400                       | Class 2            | 2                               | 3.15                                   | 2.84                              | 71.5             | 8985             |

The above data is approximate & subject to manufacturing tolerance.

## Electrical characteristics

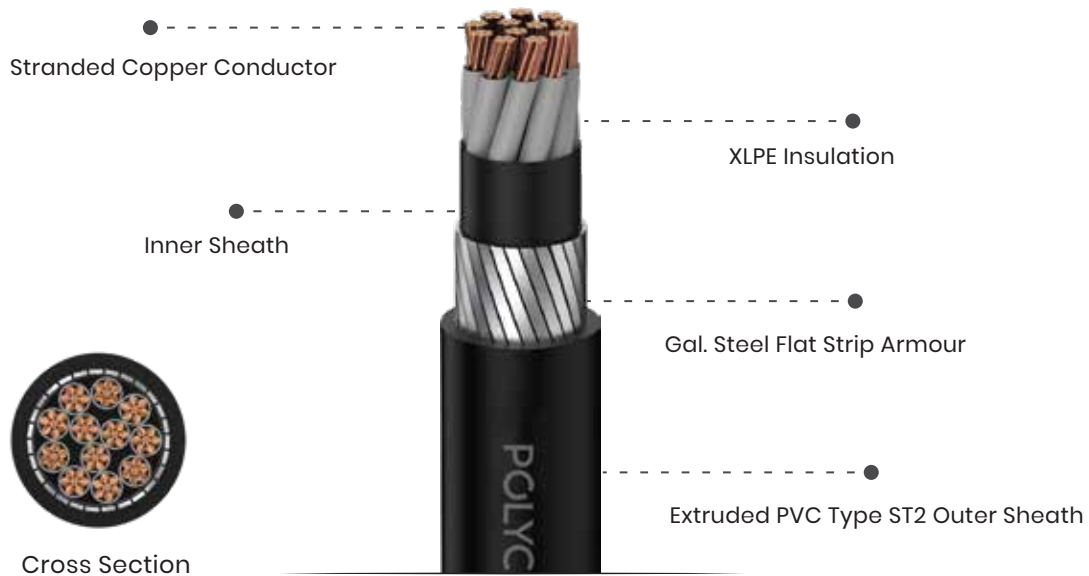
Current carrying capacity and Maximum DC conductor resistance.

| Nominal area of conductor | Buried direct in the ground | In single way Ducts | In air | Max. DC conductor resistance at 20°C |
|---------------------------|-----------------------------|---------------------|--------|--------------------------------------|
| mm <sup>2</sup>           | Amp.                        | Amp.                | Amp.   | Ω/km                                 |
| 4                         | 35                          | 30                  | 32     | 7.41                                 |
| 6                         | 46                          | 38                  | 42     | 4.61                                 |
| 10                        | 57                          | 48                  | 54     | 3.08                                 |
| 16                        | 74                          | 61                  | 69     | 1.91                                 |
| 25                        | 95                          | 79                  | 93     | 1.20                                 |
| 35                        | 114                         | 94                  | 114    | 0.868                                |
| 50                        | 134                         | 112                 | 138    | 0.641                                |
| 70                        | 164                         | 137                 | 175    | 0.443                                |
| 95                        | 197                         | 164                 | 216    | 0.32                                 |
| 120                       | 223                         | 187                 | 249    | 0.253                                |
| 150                       | 249                         | 209                 | 284    | 0.206                                |
| 185                       | 282                         | 238                 | 329    | 0.164                                |
| 240                       | 327                         | 276                 | 392    | 0.125                                |
| 300                       | 369                         | 312                 | 452    | 0.100                                |
| 400                       | 420                         | 356                 | 526    | 0.0778                               |
| 500                       | 478                         | 412                 | 612    | 0.0605                               |

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

The above table is in accordance with IS 3961(part 6):2016





#### 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

#### STANDARD AND REFERENCES

IS 8130:2013 | IS 5831:1984  
IS 3975:1979 | IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### 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 colour also available on request.

#### CONSTRUCTION

- Stranded Copper conductor as per IS 8130, class 1&2 Fixed installation | 12 x Overall diameter
- 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

#### BENDING RADIUS



## Weight & Dimension Data

| 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

Current carrying capacity and Maximum DC conductor resistance.

| 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



#### 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

#### STANDARD AND REFERENCES

IS 8130:2013 | IS 5831:1984  
IS 3975:1979 | IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### 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

#### 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

#### OUTER SHEATH COLOUR

Black  
\*Other colour also available on request.



## 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             |
| VIS09CXSWY2037C1.5SA001S  | 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.



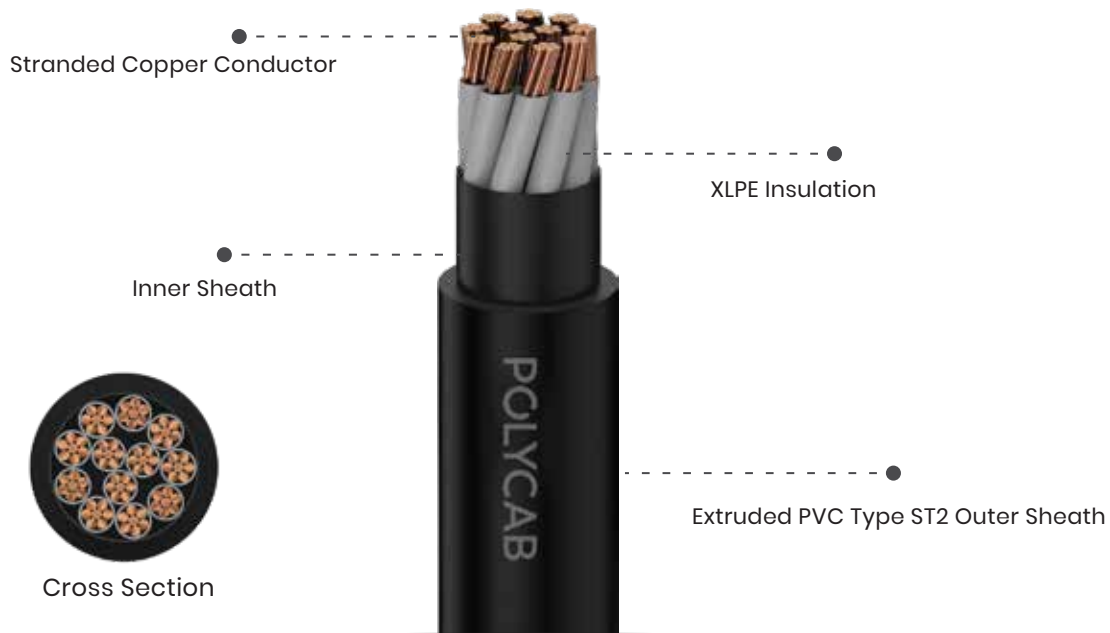
## Electrical parameter

Current carrying capacity and Maximum DC conductor resistance.

| Cross sectional area | Number of cores | Max. DC conductor resistance at 20°C | Current Rating |           |
|----------------------|-----------------|--------------------------------------|----------------|-----------|
| Sqmm                 | No's            | Ω/km                                 | 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





#### 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

#### STANDARD AND REFERENCES

IS 8130:2013  
IS 5831:1984  
IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### 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

#### 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



## 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               | mm               |
| 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 CERTIFICATION



## Electrical parameter

Current carrying capacity and Maximum DC conductor resistance.

| Cross sectional area | Number of cores | Max. DC conductor resistance at 20°C | 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





#### 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

#### STANDARD AND REFERENCES

IS 8130:2013 | IS 5831:1984  
IS 3975:1979 | IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### COMPLIANCE

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

#### CORE IDENTIFICATION

Grey with number printing

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### 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

#### OUTER SHEATH COLOUR

Black  
\*Other colour also available on request.



## 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             |

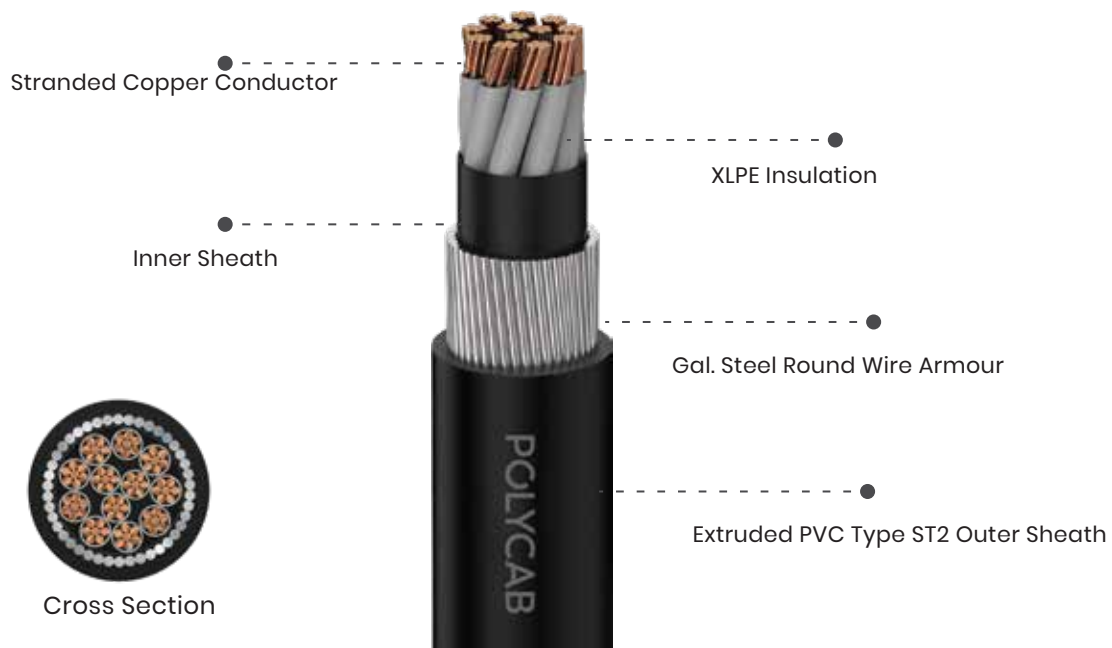
Solid & stranded conductor .The above data is approximate & subject to manufacturing tolerance.

## Electrical parameter

Current carrying capacity and Maximum DC conductor resistance.

| 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



#### APPLICATION

POLYCAB 2.5 2XWY MC, Stranded/solid copper conductor, XLPE insulated, Galvanised Steel round wire 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

#### STANDARD AND REFERENCES

IS 8130:2013 | IS 5831:1984  
IS 3975:1979 | IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### 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 5 Core & 6  
Core & above Grey with number printing

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### 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

#### OUTER SHEATH COLOUR

Black  
\*Other colour also available on request.



## 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            |
| 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

Current carrying capacity and Maximum DC conductor resistance.

| 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                  | 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         |

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

## Electrical parameter

Current carrying capacity and Maximum DC conductor resistance.

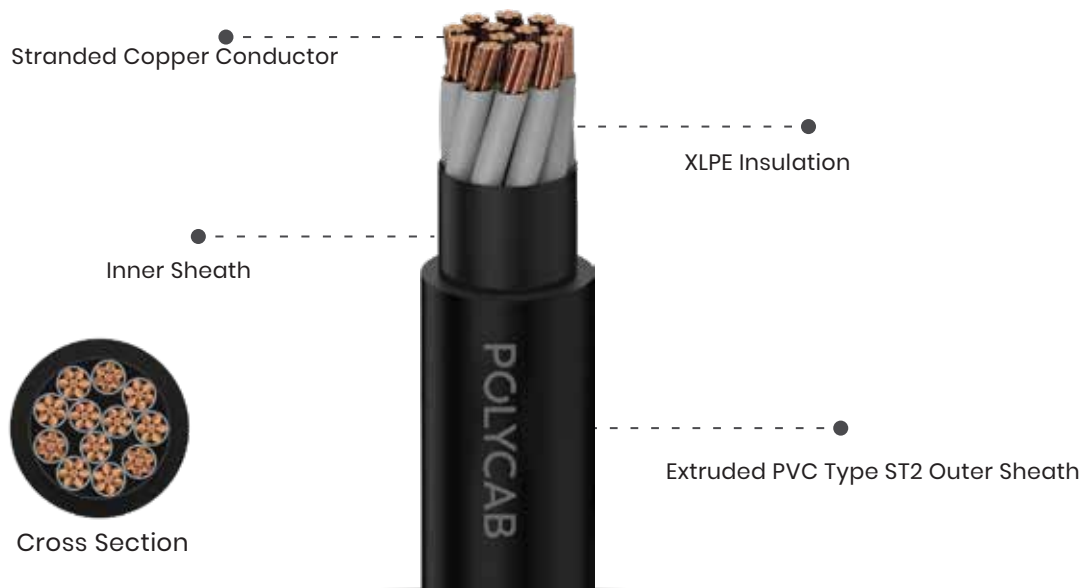
| Cross sectional area | Number of cores | Max. DC conductor resistance at 20°C | Current Rating |           |
|----------------------|-----------------|--------------------------------------|----------------|-----------|
| Sqmm                 | No's            | Ω/km                                 | In Ground (A)  | In Air(A) |
| 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





#### APPLICATION

POLYCAB 2.5 2XY MC, Stranded/solid copper conductor, XLPE insulated, PVC inner sheathed, 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

#### STANDARD AND REFERENCES

IS 8130:2013  
IS 5831:1984  
IS 7098-1:1988

#### OPERATION TEMPERATURE

Max.: 90°C  
Short circuit temperature 250°C

#### 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 5 Core & 6  
Core & above Grey with number printing

#### BENDING RADIUS

Fixed installation | 12 x Overall diameter

#### 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



## 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               | mm               |
| 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                             | 2.2                               | 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                             | 2.2                               | 25.3             | 1035             |
| LVIS09CXUAY2033C2.5SA001S | 33              | 0.7                             | 2.2                               | 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.

## Electrical parameter

Current carrying capacity and Maximum DC conductor resistance.

| Cross sectional area | Number of cores | Max. DC conductor resistance at 20°C | Current Rating |           |
|----------------------|-----------------|--------------------------------------|----------------|-----------|
| Sqmm                 | No's            | Ω/km                                 | 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        |
| 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



Rating factor for variation in ambient air temperature for cable in free air

| Ambient air Temperature | 25°C | 30°C | 35°C | 40°C | 45°C | 50°C | 55°C | 60°C |
|-------------------------|------|------|------|------|------|------|------|------|
| De-Rating Factor        | 1.14 | 1.10 | 1.05 | 1.00 | 0.95 | 0.89 | 0.84 | 0.77 |

Maximum conductor temperature 90°C

Rating factor for variation in ground temperature for direct buried cables.

| Ground Temperature | 15°C | 20°C | 25°C | 30°C | 35°C | 40°C | 45°C | 50°C |
|--------------------|------|------|------|------|------|------|------|------|
| De-Rating Factor   | 1.12 | 1.08 | 1.04 | 1.00 | 0.96 | 0.91 | 0.87 | 0.82 |

Maximum conductor temperature 90°C

Rating factor for variation in ground temperature for cable in duct.

| Ground Temperature | 15°C | 20°C | 25°C | 30°C | 35°C | 40°C | 45°C | 50°C |
|--------------------|------|------|------|------|------|------|------|------|
| De-Rating Factor   | 1.12 | 1.08 | 1.04 | 1.00 | 0.96 | 0.91 | 0.87 | 0.82 |

Maximum conductor temperature 90°C

\* For glands and lugs - Please consult with Polycab-Dowell Broucher



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