



POLY CAB

Connection Zindagi Ka

ISO
9001:2008

ISO
14001:2004

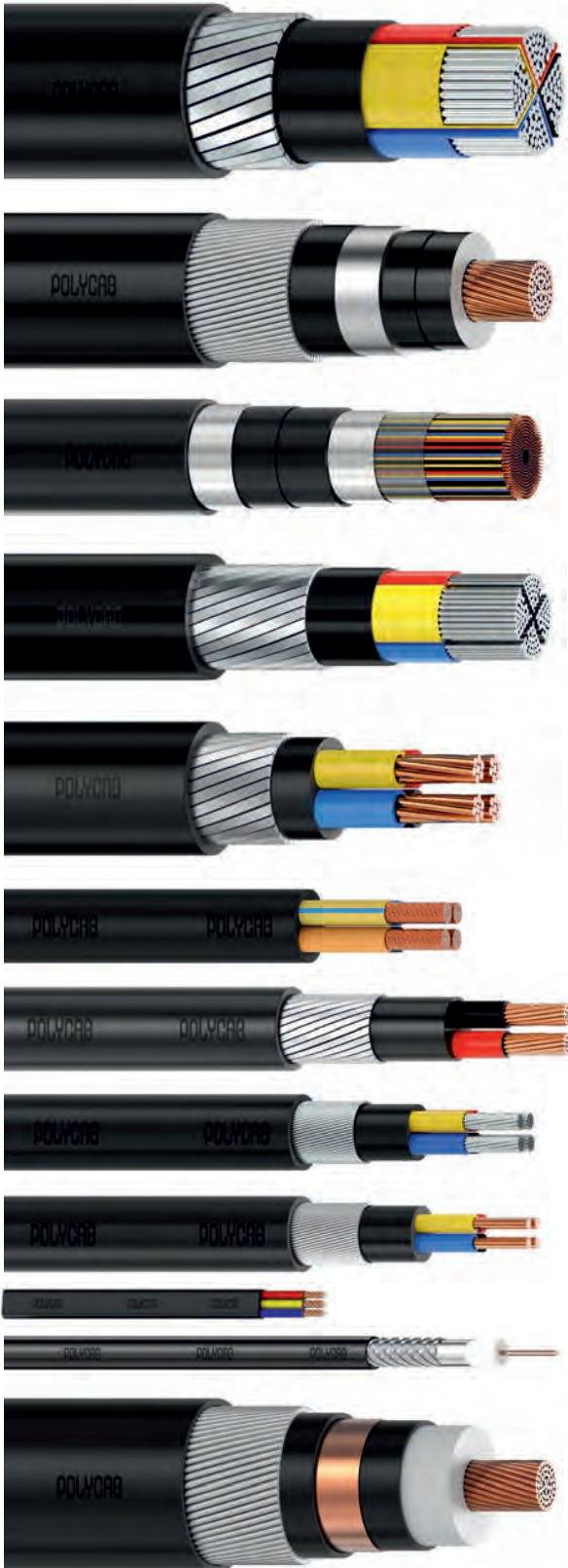
OHSAS
18001:2007


IS:7098 (Part I)

DETAILS
MAKE THE
DIFFERENCE

XLPE INSULATED
HEAVY DUTY CABLES
650 / 1100V.





- L.V. PVC & XLPE POWER CABLES WITH COPPER AND ALUMINIUM CONDUCTOR
- L.V. PCV & XLPE CONTROL CABLES WITH COPPER CONDUCTOR
- M.V. POWER CABLES UPTO 33 KV
- EHV CABLES FROM 66KV TO 220KV
- ZERO HALOGEN CABLES
- FIRE SURVIVAL CABLES (FS)
- INSTRUMENTATION CABLES SCREENED / UNSCREENED
- INDUSTRIAL BRAIDED CABLES
- THERMO COUPLE / COMPENSATING CABLES
- LEAD SHEATHED CABLES
- RUBBER CABLES
- RAILWAY SIGNALLING CABLES
- TELEPHONE CABLES DRY & JELLY FILLED
- BUILDING WIRES FR / FRLS / FRZH / FRLF / FRFS
- SINGLE CORE INDUSTRIAL FLEXIBLES PVC / FR / FRLS / FRZH / HRFR / HR / HR-FRLS / FRLF / FRFS
- MULTI CORE INDUSTRIAL FLEXIBLE CABLES
- SUBMERSIBLE FLAT AND ROUND CABLES
- COAXIAL CABLES
- LAN CAT-5E / CAT 6 CABLES
- WELDING CABLES
- SOLAR AC / DC CABLES
- STEEL BRAIDED CABLES
- SPECIALITY CABLES SUITED FOR MARINE / OIL & GAS / EXTREME FIRE CONDITIONS / HIGHLY CORROSIVE ENVIRONMENT / TRAFFIC / AIRCRAFT / SPACE STATION / AUTOMOBILES
- OPTIC FIBRE CABLES

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COMPANY PROFILE

POLYCAB AN ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 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 6000 CRORE'S IN THE FISCAL YEAR 2016-17. 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.

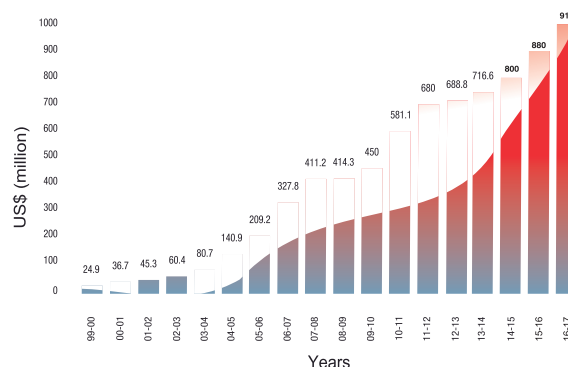
POLYCAB MANUFACTURES ENOUGH CABLE EACH YEAR TO CIRCUMNAVIGATE THE EARTH THREE AND A HALF TIMES AND ENOUGH WIRE TO GO TO THE MOON AND COME BACK - FOUR TIMES.

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:

- COMMERCIALY REASONABLE PRICES
- RELIABLE & CONSISTENT QUALITY
- PRODUCT DEVELOPMENT AS PER MARKET
- A TARGET STOCKING POLICY
- TECHNICAL SUPPORT FOR APPLICATION





CERTIFICATE



This is to certify that

Polycab India Limited
 Polycab House 771
 Pandit Sotwalekar Marg
 Malim (West)
 Mumbai - 400 016
 Maharashtra
 INDIA

with the organizational units/sites as listed in the annex

has implemented and maintains an
Occupational Health and Safety Management System.

Scope:
 The Occupational Health & Safety activities and supporting processes associated with the Design and Manufacture of PVC and XLPE compound.
 The Occupational Health & Safety activities and supporting processes associated with the manufacture of Conductors, Wires and Cables.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 45001 : 2018

| | |
|--------------------------------|----------------|
| Certificate registration no. | 20002384 OHS18 |
| Date of original certification | 2010-06-22 |
| Date of revision | 2019-09-10 |
| Date of certification | 2018-07-13 |
| Valid until | 2021-03-12 |




DQS Inc.
Brad McGuire
 Brad McGuire
 Managing Director

Accredited Body: DQS Inc., 1500 McCovnor Parkway, Suite 405, Schaumburg, IL 60173 USA
 Administrative Office: Deutsch Quality Systems (India) Pvt. Ltd., 5th Floor, Arjuna Techno Park, 147, HAL, Airport Road, Kothrud, Bangalore - 560 017 - India.


1 / 5



CERTIFICATE



This is to certify that

Polycab India Limited
 Polycab House 771
 Pandit Sotwalekar Marg
 Malim (West)
 Mumbai - 400 016
 Maharashtra
 INDIA

with the organizational units/sites as listed in the annex

has implemented and maintains an **Environmental Management System.**

Scope:
 The Environmental activities and supporting processes associated with the Design and Manufacture of PVC and XLPE compound.
 The Environmental activities and supporting processes associated with the Manufacture of Conductors, Wires and Cables.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 14001 : 2015


| | |
|--------------------------------|-------------|
| Certificate registration no. | 20002384 LM |
| Date of original certification | 2010-06-22 |
| Date of revision | 2019-09-10 |
| Date of certification | 2018-07-13 |
| Valid until | 2021-07-12 |




DQS Inc.
Brad McGuire
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 Managing Director

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1 / 5



CERTIFICATE



This is to certify that

Polycab India Limited
 Polycab House 771
 Pandit Sotwalekar Marg
 Malim (West)
 Mumbai - 400 016
 Maharashtra
 INDIA

with the organizational units/sites as listed in the annex



has implemented and maintains a **Quality Management System.**

Scope:
 The Design and Manufacture of PVC, XLPE, ZHFR and EBXL Compound and Ceiling Fans.
 The Manufacture of Galvanized Steel Wires, Strips, Conductors, Wires & Cables, Switchgears, Conduits & Fittings and Tapes.
 Trading of LED Lights, Fans, Switches & Luminaries
 Engineering, Procurement & Construction (EPC) of EHV, HV & LT Electrical Work, Fire Alarm System and Public Address Systems.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:


ISO 9001 : 2015

| | |
|--------------------------------|---------------|
| Certificate registration no. | 20002384 QM15 |
| Date of original certification | 1999-04-27 |
| Date of revision | 2019-09-10 |
| Date of certification | 2018-07-13 |
| Valid until | 2021-07-12 |

DQS Inc.
Brad McGuire
 Brad McGuire
 Managing Director

Accredited Body: DQS Inc., 1500 McCovnor Parkway, Suite 405, Schaumburg, IL 60173 USA
 Administrative Office: Deutsch Quality Systems (India) Pvt. Ltd., 5th Floor, Arjuna Techno Park, 147, HAL, Airport Road, Kothrud, Bangalore - 560 017 - India.


1 / 5



BASEC
BRITISH APPROVALS SERVICE FOR CABLES

Product Certification Schedule

Schedule No: 176/001/034
 Licensee: POLYCAB INDIA LIMITED, 74/8-11 DAMAN INDUSTRIAL ESTATE, VILLAGE KADAIYA, DAMAN-396210, UT, INDIA
 Factory: POLYCAB INDIA LIMITED, 74/8-11 DAMAN INDUSTRIAL ESTATE, VILLAGE KADAIYA, DAMAN-396210, UT, INDIA
 Specification: BS 6724:2016 Incorporating Compendia Nos. 1 and 2 Electric cables - Thermosetting insulated, armoured cables for voltages of 600/1000V and 1900/3300V having low emission of smoke and corrosive gases when affected by fire
 Type of Cable: Table 4 - Single-core 600/1000V cables with copper conductor
 Range of Approval: 1.5sqmm to 1000sqmm nominal cross-sectional area of conductors inclusive
 Single-core
 Sheath - LTS1 Insulation - GP8
 Origin Thread: Not applicable
 Origin Mark: POLYCAB

PERMISSIBLE MARKS



BASEC

Please refer to the BASEC Product Certification Requirements

YELLOW
ACETATE
THREAD

Expiry Date: 08/09/2021

Signed for and on behalf of the British Approvals Service for Cables

Patric Hunter (Date: 19/12/2018)

This Certificate and Compendia remain the property of BASEC, and will be revoked when required.






BASEC
BRITISH APPROVALS SERVICE FOR CABLES

Product Certification Schedule

Schedule No: 176/001/033
 Licensee: POLYCAB INDIA LIMITED, 74/8-11 DAMAN INDUSTRIAL ESTATE, VILLAGE KADAIYA, DAMAN-396210, UT, INDIA
 Factory: POLYCAB INDIA LIMITED, 74/8-11 DAMAN INDUSTRIAL ESTATE, VILLAGE KADAIYA, DAMAN-396210, UT, INDIA
 Specification: BS 5467:2016 Incorporating Compendium No. 1 Electric cables - Thermosetting insulated, armoured cables for voltages of 600/1000V and 1900/3300V
 Type of Cable: Table 9 - Multicore auxiliary 600/1000V cables with copper conductors
 Range of Approval: 1.5sqmm to 4sqmm nominal cross-sectional area of conductors inclusive
 7-core to 27-core inclusive
 Sheath - Type 9 Insulation - GP8
 Origin Thread: Not applicable
 Origin Mark: POLYCAB

PERMISSIBLE MARKS



BASEC

Please refer to the BASEC Product Certification Requirements

YELLOW
ACETATE
THREAD

Expiry Date: 08/09/2021

Signed for and on behalf of the British Approvals Service for Cables

Patric Hunter (Date: 19/12/2018)

This Certificate and Compendia remain the property of BASEC, and will be revoked when required.






BASEC
BRITISH APPROVALS SERVICE FOR CABLES

Product Certification Schedule

Schedule No: 176/001/036
 Licensee: POLYCAB INDIA LIMITED, 74/8-11 DAMAN INDUSTRIAL ESTATE, VILLAGE KADAIYA, DAMAN-396210, UT, INDIA
 Factory: POLYCAB INDIA LIMITED, 74/8-11 DAMAN INDUSTRIAL ESTATE, VILLAGE KADAIYA, DAMAN-396210, UT, INDIA
 Specification: BS 6724:2016 Incorporating Compendia Nos. 1 and 2 Electric cables - Thermosetting insulated, armoured cables of rated voltages of 600V and 1900/3300V for fixed installations, having low emission of smoke and corrosive gases when affected by fire - Specification
 Type of Cable: Table 9 - Multicore auxiliary 600/1000V cables with copper conductors
 Range of Approval: 1.5sqmm to 4sqmm nominal cross-sectional area of conductors inclusive
 7-core to 27-core inclusive
 Sheath - LTS1 Insulation - GP8
 Origin Thread: Not applicable
 Origin Mark: POLYCAB

PERMISSIBLE MARKS



BASEC

Please refer to the BASEC Product Certification Requirements

YELLOW
ACETATE
THREAD

Expiry Date: 08/09/2021

Signed for and on behalf of the British Approvals Service for Cables

Patric Hunter (Date: 19/12/2018)

This Certificate and Compendia remain the property of BASEC, and will be revoked when required.






BASEC
BRITISH APPROVALS SERVICE FOR CABLES

Product Certification Schedule

Schedule No: 176/001/035
 Licensee: POLYCAB INDIA LIMITED, 74/8-11 DAMAN INDUSTRIAL ESTATE, VILLAGE KADAIYA, DAMAN-396210, UT, INDIA
 Factory: POLYCAB INDIA LIMITED, 74/8-11 DAMAN INDUSTRIAL ESTATE, VILLAGE KADAIYA, DAMAN-396210, UT, INDIA
 Specification: BS 6724:2016 Incorporating Compendia Nos. 1 and 2 Electric cables - Thermosetting insulated, armoured cables of rated voltages of 600/1000V and 1900/3300V for fixed installations, having low emission of smoke and corrosive gases when affected by fire - Specification
 Type of Cable: Tables 5, 6, 7 and 8 - Two-core, three-core, four-core and five-core 600/1000V cables with copper conductors
 Range of Approval: 1.5sqmm to 400sqmm nominal cross-sectional area of conductors inclusive
 Two-core to four-core inclusive
 1.5sqmm to 70sqmm nominal cross-sectional area of conductors inclusive
 Five-core
 Sheath - LTS1 Insulation - GP8
 Origin Thread: Not applicable
 Origin Mark: POLYCAB

PERMISSIBLE MARKS



BASEC

Please refer to the BASEC Product Certification Requirements

YELLOW
ACETATE
THREAD

Expiry Date: 08/09/2021

Signed for and on behalf of the British Approvals Service for Cables

Patric Hunter (Date: 19/12/2018)

This Certificate and Compendia remain the property of BASEC, and will be revoked when required.




BASEC
BRITISH APPROVALS SERVICE FOR CABLES

Product Certification Schedule

Schedule No: 176/001/032
 Licensee: POLYCAB INDIA LIMITED, 74/8-11 DAMAN INDUSTRIAL ESTATE, VILLAGE KADAIYA, DAMAN-396210, UT, INDIA
 Factory: POLYCAB INDIA LIMITED, 74/8-11 DAMAN INDUSTRIAL ESTATE, VILLAGE KADAIYA, DAMAN-396210, UT, INDIA
 Specification: BS 5467:2016 Incorporating Compendium No. 1 Electric cables - Thermosetting insulated, armoured cables of rated voltages of 600/1000V and 1900/3300V for fixed installations - Specification
 Type of Cable: Tables 5, 6, 7 and 8 - Two-core, three-core, four-core and five-core 600/1000V cables with copper conductors
 Range of Approval: 1.5sqmm to 400sqmm nominal cross-sectional area of conductors inclusive. Two-core to four-core inclusive. 1.5sqmm to 70sqmm nominal cross-sectional area of conductor. Five-core.
 Sheath - Type 9, Insulation - GP8
 Origin Thread: Not applicable
 Origin Mark: POLYCAB

PERMISSIBLE MARKS

BASEC

PERMISSION TO USE THE BASEC PRODUCT CERTIFICATION REQUIREMENTS

YELLOW ACETATE THREAD

Expiry Date: 08/09/2021

Signed for and on behalf of the British Approvals Service for Cables
 Trace Hunter Date: 19/12/2018

BASEC
BRITISH APPROVALS SERVICE FOR CABLES

Product Certification Schedule

Schedule No: 176/001/031
 Licensee: POLYCAB INDIA LIMITED, 74/8-11 DAMAN INDUSTRIAL ESTATE, VILLAGE KADAIYA, DAMAN-396210, UT, INDIA
 Factory: POLYCAB INDIA LIMITED, 74/8-11 DAMAN INDUSTRIAL ESTATE, VILLAGE KADAIYA, DAMAN-396210, UT, INDIA
 Specification: BS 5467:2016 Incorporating Compendium No. 1 Electric cables - Thermosetting insulated, armoured cables of rated voltages of 600/1000V and 1900/3300V for fixed installations - Specification
 Type of Cable: Table 4 - Single-core 600/1000V cables with copper conductors
 Range of Approval: 50sqmm to 1000sqmm nominal cross-sectional area of conductors inclusive. Single-core
 Sheath - Type 9, Insulation - GP8
 Origin Thread: Not applicable
 Origin Mark: POLYCAB

PERMISSIBLE MARKS

BASEC

PERMISSION TO USE THE BASEC PRODUCT CERTIFICATION REQUIREMENTS

YELLOW ACETATE THREAD

Expiry Date: 08/09/2021

Signed for and on behalf of the British Approvals Service for Cables
 Trace Hunter Date: 19/12/2018

BASEC
BRITISH APPROVALS SERVICE FOR CABLES

Product Certification Licence

This is to certify that:

Polycab India Limited
 74/8-11 Daman Industrial Estate
 Village Kadaiya
 Daman-396210
 UT
 India

Is licensed to use the BASEC Marks as defined in the BASEC Product Certification Requirements, in respect of products identified in the Product Certification Schedules listed in the Tables, shown below, which form an integral part of this Certificate.

Licence Number: 176
 Issue Date: 19th December 2018
 Expiry Date: 8th September 2021

Table Numbers: 176/001/T

This Certificate is issued subject to and in accordance with BASEC Regulations and continued compliance.

Signed for and on behalf of the British Approvals Service for Cables
 Trace Hunter Date: 19/12/2018

BASEC
BRITISH APPROVALS SERVICE FOR CABLES

Table of Product Certificate Schedules

Polycab India Limited
 74/8-11 Daman Industrial Estate
 Village Kadaiya
 Daman-396210
 UT
 India

Table of Product Certification Schedules: 176/001/T

| Schedule Number | Date of Issue | Expiry Date |
|-----------------|---------------|-------------|
| 176/001/031 | 19/12/2018 | 08/09/2021 |
| 176/001/032 | 19/12/2018 | 08/09/2021 |
| 176/001/033 | 19/12/2018 | 08/09/2021 |
| 176/001/034 | 19/12/2018 | 08/09/2021 |
| 176/001/035 | 19/12/2018 | 08/09/2021 |
| 176/001/036 | 19/12/2018 | 08/09/2021 |

Signed for and on behalf of the British Approvals Service for Cables
 Trace Hunter Date: 19/12/2018



BASEC
BRITISH APPROVALS SERVICE FOR CABLES

CERTIFICATION SCHEDULE
PCR includes requirements for Environmental issues directly relating to the Product and Manufacturing processes as well as limited Health & Safety issues directly relating to the Product and Manufacturing processes.

SITE:
Polycab India Limited
748-11 Daman Industrial Estate
Village Kadaiya
Daman - 396 210
UT
India

Incorporating the following sites:
Polycab India Limited (Unit-I)
Survey No. 381-4, 421 & 2, 431-3, 451 & 2, 46/5, 5 & 9, 414, 5, 6, 7, 8 & 9
Daman Industrial Estate, Village Kadaiya, Daman 396 210, India

Polycab India Limited
Survey No. 521-4, Daman Industrial Estate, Village Kadaiya, Daman 396 210, India

Polycab India Limited
Survey No. 521, 2 & 53/1, 3, 4 Daman Industrial Estate, Village Kadaiya, Daman 396 210, India

Polycab India Limited
Survey No. 747, Daman Industrial Estate, Village Kadaiya, Daman 396 210, India

SCOPE OF CERTIFICATION:
The manufacture and supply of the following cable and wire products:
Low Voltage Power and Control Cables up to and including 1 kV

Schedule No.: PCR-216/002 Issue No.: 06 Issue Date: 19th December 2018

Date of initial certification: 0⁹ September 2009 Expiry Date: 0⁸ September 2021

Last certification cycle expiry date: 0⁷ June 2018

Not valid without the certificate No.: PCR-216

Signed for and on behalf of the British Approvals Service for Cables: *Trace Hunter* Date: 19/12/2018

BASEC
PCR



BASEC
BRITISH APPROVALS SERVICE FOR CABLES

CERTIFICATE OF CONFORMITY
BASEC hereby certifies that:

Polycab India Limited
Incorporating:
Head Office, 771 Polycab House, Mumbai, India
748-11 Daman Industrial Estate, UT

Has implemented and maintains a Product Management System that fulfils the requirements of the following
BASEC Product Certification Requirements
Including Clause 2.8
'Enhanced Quality Management Systems for Product Related Functions'

In respect of the site (s) and scope (s) specified, in the below schedule (s)

Schedule no.:-
PCR-216/001
PCR-216/002

Certificate No.: PCR-216 Issue: 06 Issue Date: 19th December 2018

Date of initial certification: 0⁹ September 2009 Expiry Date: 0⁸ September 2021

Last certification cycle expiry date: 20th June 2018

Lack of fulfilment of conditions as set out in the certification agreement may render this Certificate invalid. This certificate is issued subject to and in accordance with BASEC Regulations and continued compliance.

Includes requirements for Environmental issues directly relating to the Product and Manufacturing processes as well as limited Health & Safety issues directly relating to the Product and Manufacturing processes.

Signed for and on behalf of the British Approvals Service for Cables: *Trace Hunter* Date: 19/12/2018

BASEC
PCR



BASEC
BRITISH APPROVALS SERVICE FOR CABLES

CERTIFICATION SCHEDULE
PCR includes requirements for Environmental issues directly relating to the Product and Manufacturing processes as well as limited Health & Safety issues directly relating to the Product and Manufacturing processes.

SITE:
Polycab India Limited
Head Office
771 Polycab House
Pandit Satwalekar Marg,
Mogal Lane, Mahim (W)
Mumbai - 400 016
India

SCOPE OF CERTIFICATION
Head office activities including:
Sales, Purchasing, Design and Supply Chain, HR

Schedule No.: PCR-216/001 Issue No.: 06 Issue Date: 19th December 2018

Date of initial certification: 0⁹ September 2009 Expiry Date: 0⁸ September 2021

Last certification cycle expiry date: 0⁷ June 2018

Not valid without the certificate No.: PCR-216

Signed for and on behalf of the British Approvals Service for Cables: *Trace Hunter* Date: 19/12/2018

BASEC
PCR



BASEC
BRITISH APPROVALS SERVICE FOR CABLES

Certificate of Conformity
Certificate No.: PCR-216/001

BASEC hereby certifies that:

Polycab India Limited
771 Polycab House, Pandit Satwalekar Marg,
Mogal Lane, Mahim (W), Mumbai, India

Has implemented and maintains a Management System that fulfils the requirements of:

BASEC PCR Issue 10 2019

In respect of the location listed above and for the following scope of activities:

Scope of Certification:
Head Office Activities including: Sales, Purchasing, Design and Supply Chain, HR

Issue no.: 7

Date of initial certification: 09/09/2009

Issue date: 07/08/2019

Signed for and on behalf of the British Approvals Service for Cables: *Trace Hunter* Date: 07/08/2019

If the conditions set out in the certification agreement are not fulfilled this Certificate may be rendered invalid. This certificate is issued subject to ongoing surveillance for continued compliance, and in accordance with BASEC's Regulations.

BASEC
PCR

Expiry date: 08/09/2021



BASEC
BRITISH APPROVALS SERVICE FOR CABLES

Certificate of Conformity
Certificate No.: PCR-216/002

BASEC hereby certifies that:

Polycab India Limited
748-11 Daman Industrial Estate,
Village Kadaiya, Daman, 396210, UT, India

Has implemented and maintains a Management System that fulfils the requirements of:

BASEC PCR Issue 10 2019

In respect of the location listed above and for the following scope of activities:

Scope of Certification:
The manufacture and supply of the following cable and wire products: Low Voltage Power and Control Cables up to and including 1kV. Incorporating the following sites: Polycab India Limited (Unit-I), Survey No. 381-4, 421 & 2, 431-3, 441-3, 451 & 2, 46/5, 5 & 9, 414, 5, 6, 7, 8 & 9, Daman Industrial Estate, Village Kadaiya, Daman 396 210, India; Polycab India Limited, Survey No. 521-4, Daman Industrial Estate, Village Kadaiya, Daman 396 210, India; Polycab India Limited, Survey No. 521, 2 & 53/1, 3, 4 Daman Industrial Estate, Village Kadaiya, Daman 396 210, India; Polycab India Limited, Survey No. 747, Daman Industrial Estate, Village Kadaiya, Daman 396 210, India.

Issue no.: 7

Date of initial certification: 09/09/2009

Issue date: 07/08/2019

Signed for and on behalf of the British Approvals Service for Cables: *Trace Hunter* Date: 07/08/2019

If the conditions set out in the certification agreement are not fulfilled this Certificate may be rendered invalid. This certificate is issued subject to ongoing surveillance for continued compliance, and in accordance with BASEC's Regulations.

BASEC
PCR

Expiry date: 08/09/2021

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:

1. Higher current rating, higher short circuit rating approx. 1.2 times that of PVC.
2. Thermosetting in nature.
3. Higher insulation resistance 1000 times more than PVC cables.
4. Higher resistance to moisture.
5. Better resistance to surge currents.
6. Low dielectric losses.
7. Better resistance to chemicals.
8. Longer service life.
9. Comparatively higher cable operation temperature 90°C and short circuit temperature 250°C

B. Commercial Advantages:

1. Lower laying cost because of comparatively smaller diameter of cable and higher weight*.
2. Lower installation charges as the diameter of cable is comparatively lesser with smaller bending radius, requiring less space requirement for laying cables.
3. **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

HIGHER ELECTRICAL STRENGTH RETENTION

HIGHER SHORT CIRCUIT RATING

BETTER ELECTRICAL, MECHANICAL & THERMAL PROPERTIES

EASY JOINTING & TERMINATION

■ Selection of Cables

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.

- 1) Maximum operating voltage.
- 2) Fault level.
- 3) Load to be carried.
- 4) Possible overloading duration & magnitude.
- 5) Route length and voltage drop.
- 6) 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
- 7) Flame retardant properties.

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

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

■ Basic assumptions

The current rating given as per before mentioned following assumptions

- a) Maximum Conductor temperature : 90 °C
- b) Thermal resistivity of soil : 1.5k. m/w
- c) Ground temperature : 30 °C
- d) Ambient air temperature : 40 °C
- e) Depth of laying (measured to : 750 mm

Comparative Current Rating and short Circuits Rating for XLPE Cable Vis-a-Vis PVC Cables

COMPARATIVE CURRENT RATINGS OF 650/1100 VOLTS MULTICORE HEAVY DUTY PVC INSULATED CABLES & XLPE INSULATED CABLES.

(3. 3.5 & 4 Core Unarmoured / Armoured PVC Sheathed Cables with Aluminium Conductor.)

| Nominal Size of Cable | 3, 3.5 & 4 Core PVC Insulated & Sheathed Cables as per IS - 1554 (Part-1) | | | 3, 3.5 & 4 Core XLPE Insulated & Sheathed Cables as per IS - 7098 (Part-1) | | |
|-----------------------|---|--------|---------------------|--|--------|---------------------|
| | 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 | 1.80 | 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 |
| 1.5 | 0.173 | - | 0.21 | - |
| 2.5 | 0.29 | - | 0.36 | - |
| 4 | 0.46 | 0.30 | 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 | 1.90 | 3.58 | 2.36 |
| 35 | 4.03 | 2.66 | 5.01 | 3.31 |
| 50 | 5.75 | 3.80 | 7.16 | 4.73 |
| 70 | 8.05 | 5.32 | 10.02 | 6.62 |
| 95 | 10.93 | 7.22 | 13.59 | 8.98 |
| 120 | 13.80 | 9.12 | 17.17 | 11.34 |
| 150 | 17.25 | 11.40 | 21.47 | 14.18 |
| 185 | 21.27 | 14.06 | 26.47 | 17.48 |
| 240 | 27.60 | 18.24 | 34.34 | 22.68 |
| 300 | 34.50 | 22.80 | 42.93 | 28.35 |
| 400 | 46 | 30.40 | 57.24 | 37.80 |
| 500 | 57.50 | 38 | 71.55 | 47.25 |
| 630 | 72.45 | 47.88 | 90.15 | 59.54 |
| 800 | 92 | 60.80 | 114.48 | 75.60 |
| 1000 | 115 | 76 | 143.10 | 94.50 |

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

** PVC Cables as per IS-1554 (Part-1)

** XLPE Cables as per IS-7098 (Part-1)

1) Max. Conductor Temperature during Operation
 PVC 70°C XLPE 90°C

2) Max. Conductor Temperature During Short circuit. 160° C 250° C

Formula relating Short Circuit Rating with duration

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

A = Gross section area in Sq. mm

T = Duration in seconds

K = Constant

I_{sh} = Short circuit current, KA

■ APPROXIMATE CAPACITANCE (Microfarads / Km) 1.1 KV XLPE CABLES.

| 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 | 0.40 | 0.43 | 0.43 |
| 25 | 0.42 | 0.43 | 0.43 |
| 35 | 0.47 | 0.50 | 0.50 |
| 50 | 0.50 | 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 (0hm/Km) 1.1 KV XLPE CABLES.

| Nominal Area of Conductor | Single Core | | Multi Core |
|---------------------------|-------------|----------|------------|
| | Unarmoured | Armoured | |
| 1.5 | 0.154 | - | 0.105 |
| 2.5 | 0.143 | - | 0.0990 |
| 4 | 0.134 | - | 0.0933 |
| 6 | 0.125 | - | 0.0888 |
| 10 | 0.116 | 0.131 | 0.0842 |
| 16 | 0.110 | 0.124 | 0.0805 |
| 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 | 0.0720 |
| 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 | - |

■ CONDUCTOR TECHNICAL INFORMATION FOR SINGLE CORE AND MULTICORE CABLES CONFORMING TO IS-8130/1984 (STRANDED-CLASS-2) COPPER & ALUMINIUM CONDUCTORS.

| Nominal Size of Conductor | Minimum no. of wires | | | | Max D.C. Resistance at 20°C | | A. C. Resistance at 90°C | |
|---------------------------|----------------------|-----|-----------|-----|-----------------------------|-----------|--------------------------|-----------|
| | Non Compacted | | Compacted | | Plain Copper | Aluminium | Plain Copper | Aluminium |
| | Sq.mm | CU. | ALU. | CU. | | | | |
| 1.5* | 3 | 3 | - | - | 12.10 | 18.1 | 15.40 | 23.2 |
| 2.5* | 3 | 3 | - | - | 7.41 | 12.1 | 9.45 | 15.50 |
| 4* | 7 | 3 | - | - | 4.61 | 7.41 | 5.88 | 9.50 |
| 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 | 1.20 | 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 | 0.410 |
| 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 | 0.047 | 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

- The values given in the table are valid for on circuit in a three phase system under conditions specified. For grouping cables rating factor must be used.
- The current carrying capacities mentioned in POLYCAB technical data are intended as a guide, to assist operating engineers in selecting cables for safety and reliability.
- Basic assumption and condition of installation:
 - * Ambient ground Temperature: 30 °C
 - * Ambient air Temperature: 40 °C
 - * Depth of Cable Burial: 750 mm
 - * Thermal Resistivity of soil: 1.5 k.m/w
- Single Core Cables are installed as indicated in the table; spacing between cables in flat formation is as indicated.
- For 3 and 4 core cables, it is usual to assume the same current carrying capacity for 4 core cable as for 3 core cables. Our calculated values are based actually on 3 core cables. 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 cable surface and consequent high heat dissipation factor.
- To obtain the maximum current carrying capacity of a cable operating at different conditions from the standard, various rating factors are to be multiplied as follows:

$I_a = K I_s$ (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

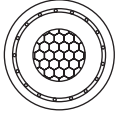


TABLE-I "POLYCAB" SINGLE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART-1

| 650/1100 VOLTS | | WEIGHT & DIMENSIONS | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------------|--|---------------------------------------|---------------------------------------|-----------------------------------|-------------------------|---|---|---------------------------------------|-----------------------------------|---------------------------|---|---------------------------------------|-----------------------------------|-------------------------|-------------------------|-----------|---------|------|------|---------|-------|-------|-------|
| Nominal Size of Conductor | Form of Conductor | Nominal Thickness of XLPE Insulation For U/A | Minimum Thickness of PVC Inner Sheath | Unarmoured Cable | | | Nominal Thickness of XLPE Insulation for Armoured Cable | Formed Wire / Strip Armoured Cable | | | Round Wire Armoured Cable | | | Current Rating,* | | *Normal Delivery Length | | | | | | | | |
| | | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | | Nominal Dimension of Aluminium Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of Aluminium Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | | In Ground | In Air | | | | | | |
| Sq.mm | mm | mm | mm | mm | mm | Kgs./Km | mm | mm | mm | mm | mm | mm | mm | mm | Kgs./Km | mm | mm | Kgs./Km | mm | mm | Kgs./Km | Amps. | Amps. | Mtrs. |
| 4 | Solid | 0.70 | -NA- | 1.80 | 7.50 | 60 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 43 | 38 | 1000 |
| 4 | Stranded | 0.70 | -NA- | 1.80 | 8 | 65 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 43 | 38 | 1000 |
| 6 | Solid | 0.70 | -NA- | 1.80 | 8 | 70 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 55 | 50 | 1000 |
| 6 | Stranded | 0.70 | -NA- | 1.80 | 8.50 | 75 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 55 | 50 | 1000 |
| 10 | Solid | 0.70 | -NA- | 1.80 | 9 | 80 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 69 | 64 | 1000 |
| 10 | Stranded | 0.70 | -NA- | 1.80 | 9.50 | 90 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 69 | 64 | 1000 |
| 16 | Stranded | 0.70 | -NA- | 1.80 | 10 | 115 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 89 | 84 | 1000 |
| 25 | Stranded | 0.90 | -NA- | 1.80 | 12 | 155 | 1.20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 115 | 112 | 1000 |
| 35 | Stranded | 0.90 | -NA- | 1.80 | 13 | 180 | 1.20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 137 | 137 | 1000 |
| 50 | Stranded | 1 | -NA- | 1.80 | 14 | 240 | 1.30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 161 | 165 | 1000 |
| 70 | Stranded | 1.10 | -NA- | 1.80 | 15.5 | 310 | 1.40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 198 | 209 | 1000 |
| 95 | Stranded | 1.10 | -NA- | 1.80 | 17.50 | 385 | 1.40 | 4 x 0.80 | - | 1.40 | 1.40 | 18.60 | 1.60 | 1.40 | 494.00 | 1.60 | 1.40 | 560 | 1.40 | 1.40 | 202.0 | 243 | 264 | 1000 |
| 120 | Stranded | 1.20 | -NA- | 1.80 | 19.5 | 470 | 1.50 | 4 x 0.80 | - | 1.40 | 1.40 | 20.40 | 1.60 | 1.40 | 589.00 | 1.60 | 1.40 | 665 | 1.40 | 1.40 | 22.50 | 276 | 308 | 1000 |
| 150 | Stranded | 1.40 | -NA- | 2 | 21.50 | 600 | 1.70 | 4 x 0.80 | - | 1.40 | 1.40 | 22.5 | 1.60 | 1.40 | 694.00 | 1.60 | 1.40 | 779 | 1.40 | 1.40 | 24.0 | 308 | 350 | 1000 |
| 185 | Stranded | 1.60 | -NA- | 2 | 23.50 | 710 | 1.90 | 4 x 0.80 | - | 1.40 | 1.40 | 24.5 | 1.60 | 1.40 | 827.00 | 1.60 | 1.40 | 921 | 1.40 | 1.40 | 26.50 | 349 | 406 | 1000 |
| 240 | Stranded | 1.70 | -NA- | 2 | 26 | 900 | 2 | 4 x 0.80 | - | 1.40 | 1.40 | 26.60 | 1.60 | 1.40 | 1026 | 1.60 | 1.40 | 1121 | 1.40 | 1.40 | 29 | 404 | 480 | 1000 |
| 300 | Stranded | 1.80 | -NA- | 2 | 28.50 | 1158 | 2.10 | 4 x 0.80 | - | 1.56 | 1.56 | 29.60 | 1.60 | 1.56 | 1235 | 1.60 | 1.56 | 1349 | 1.56 | 1.56 | 31.50 | 454 | 551 | 1000 |
| 400 | Stranded | 2 | -NA- | 2.20 | 31.5 | 1385 | 2.40 | 4 x 0.80 | - | 1.56 | 1.56 | 33.00 | 2 | 1.56 | 1548.5 | 2 | 1.56 | 1739 | 1.56 | 1.56 | 35.50 | 518 | 647 | 500 |
| 500 | Stranded | 2.20 | -NA- | 2.20 | 35.5 | 1650 | 2.60 | 4 x 0.80 | - | 1.56 | 1.56 | 36.70 | 2 | 1.56 | 1909.5 | 2 | 1.56 | 2128 | 1.56 | 1.56 | 39.50 | 588 | 751 | 500 |
| 630 | Stranded | 2.40 | -NA- | 2.20 | 39.5 | 2100 | 2.80 | 4 x 0.80 | - | 1.72 | 1.72 | 40.50 | 2 | 1.72 | 2413 | 2 | 1.72 | 2660 | 1.72 | 1.72 | 43 | 663 | 868 | 500 |
| 800 | Stranded | 2.60 | -NA- | 2.40 | 44.50 | 2730 | 3.10 | 4 x 0.80 | - | 1.72 | 1.72 | 46.00 | 2 | 1.88 | 2992.5 | 2 | 1.88 | 3296.5 | 1.88 | 1.88 | 47.90 | 740 | 992 | 500 |
| 1000 | Stranded | 2.80 | -NA- | 2.60 | 48.50 | 3350 | 3.30 | 4 x 0.80 | - | 1.88 | 1.88 | 50.00 | 2.50 | 2.04 | 3667 | 2.50 | 2.04 | 4142 | 2.04 | 2.04 | 54.37 | 812 | 1117 | 500 |

The above data is approximate and subject to manufacturing tolerance.
* Delivery Length tolerance is ±5%. Length more than normal as per customer request.

Weight, Dimension Data & Current Carrying Capacity of Cables

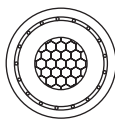


TABLE-2 "POLYCAP" SINGLE CORE COPPER CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART-1

WEIGHT & DIMENSIONS

650/1100 VOLTS

| Nominal Size of Conductor | Form of Conductor | Nominal Thickness of XLPE Insulation For U/A | Minimum Thickness of PVC Inner Sheath | Unarmoured Cable | | | Nominal Thickness of XLPE Insulation for Armoured Cable | Formed Wire / Strip Armoured Cable | | | Round Wire Armoured Cable | | | Current Rating.* | | *Normal Delivery Length | | |
|---------------------------|-------------------|--|---------------------------------------|---------------------------------------|-----------------------------------|-------------------------|---|---|---------------------------------------|-----------------------------------|---------------------------|---|---------------------------------------|-----------------------------------|-------------------------|-------------------------|-----------|--------|
| | | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | | Nominal Dimension of Aluminium Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of Aluminium Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | | In Ground | In Air |
| Sq.mm | mm | mm | mm | mm | mm | Kgs./Km | mm | mm | mm | mm | mm | mm | mm | mm | Kgs./Km | Amps. | Amps. | Mtrs. |
| 4 | Solid | 0.70 | -NA- | 1.80 | 7.50 | 85.5 | - | - | - | - | - | - | - | - | - | 54 | 48 | 1000 |
| 4 | Stranded | 0.70 | -NA- | 1.80 | 8 | 88 | - | - | - | - | - | - | - | - | - | 54 | 48 | 1000 |
| 6 | Solid | 0.70 | -NA- | 1.80 | 8 | 109 | - | - | - | - | - | - | - | - | - | 67 | 61 | 1000 |
| 6 | Stranded | 0.70 | -NA- | 1.80 | 8.50 | 114 | - | - | - | - | - | - | - | - | - | 67 | 61 | 1000 |
| 10 | Stranded | 0.70 | -NA- | 1.80 | 9.50 | 152 | 1 | - | - | - | - | - | 1.40 | 1.24 | 219 | 90 | 83 | 1000 |
| 16 | Stranded | 0.70 | -NA- | 1.80 | 10 | 209 | 1 | - | - | - | - | - | 1.40 | 1.24 | 281 | 115 | 108 | 1000 |
| 25 | Stranded | 0.90 | -NA- | 1.80 | 12 | 309 | 1.20 | - | - | - | - | - | 1.40 | 1.24 | 390 | 148 | 144 | 1000 |
| 35 | Stranded | 0.90 | -NA- | 1.80 | 13 | 399 | 1.20 | - | - | - | - | - | 1.40 | 1.24 | 485 | 177 | 176 | 1000 |
| 50 | Stranded | 1 | -NA- | 1.80 | 14 | 513 | 1.30 | - | - | - | - | - | 1.40 | 1.24 | 608 | 208 | 212 | 1000 |
| 70 | Stranded | 1.10 | -NA- | 1.80 | 16 | 712 | 1.40 | - | - | - | - | - | 1.40 | 1.24 | 817 | 255 | 269 | 1000 |
| 95 | Stranded | 1.10 | -NA- | 1.80 | 17.50 | 940 | 1.40 | 4 x 0.80 | 1.40 | 18.60 | 1036 | 1.60 | 1.40 | 22 | 1102 | 312 | 340 | 1000 |
| 120 | Stranded | 1.20 | -NA- | 1.80 | 19 | 1168 | 1.50 | 4 x 0.80 | 1.40 | 20.40 | 1264 | 1.60 | 1.40 | 23.50 | 1339 | 355 | 396 | 1000 |
| 150 | Stranded | 1.40 | -NA- | 2 | 21.50 | 1444 | 1.70 | 4 x 0.80 | 1.40 | 22.20 | 1530 | 1.60 | 1.40 | 24.50 | 1615 | 396 | 450 | 1000 |
| 185 | Stranded | 1.60 | -NA- | 2 | 23.50 | 1786 | 1.90 | 4 x 0.80 | 1.40 | 24.40 | 1890 | 1.60 | 1.40 | 26.50 | 1976 | 447 | 519 | 1000 |
| 240 | Stranded | 1.70 | -NA- | 2 | 26 | 2299 | 2 | 4 x 0.80 | 1.40 | 26.60 | 2404 | 1.60 | 1.40 | 29 | 2508 | 515 | 613 | 1000 |
| 300 | Stranded | 1.80 | -NA- | 2 | 28.50 | 2840.5 | 2.10 | 4 x 0.80 | 1.56 | 29.60 | 2974 | 1.60 | 1.56 | 31.50 | 3078 | 576 | 700 | 500 |
| 400 | Stranded | 2 | -NA- | 2.20 | 33 | 3629 | 2.40 | 4 x 0.80 | 1.56 | 33.20 | 3762 | 2 | 1.56 | 36.00 | 3962 | 651 | 813 | 500 |
| 500 | Stranded | 2.20 | -NA- | 2.20 | 36 | 4598 | 2.60 | 4 x 0.80 | 1.56 | 36.70 | 4770 | 2 | 1.56 | 39.50 | 4969 | 727 | 930 | 500 |
| 630 | Stranded | 2.40 | -NA- | 2.20 | 40 | 5880 | 2.80 | 4 x 0.80 | 1.72 | 41.20 | 6070 | 2 | 1.72 | 43 | 6318 | 806 | 1056 | 500 |
| 800 | Stranded | 2.60 | -NA- | 2.40 | 43.70 | 7486 | 3.10 | 4 x 0.80 | 1.72 | 45.10 | 7676 | 2 | 1.88 | 48.5 | 7990 | 877 | 1179 | 500 |
| 1000 | Stranded | 2.80 | -NA- | 2.60 | 49.20 | 9358 | 3.30 | 4 x 0.80 | 1.88 | 50.60 | 9567 | 2.50 | 2.04 | 54 | 10051 | 935 | 1288 | 500 |

The above data is approximate and subject to manufacturing tolerance.

* Delivery Length tolerance is ±5%. Length more than normal as per customer request.



TABLE-3 "POLYCAB" TWO CORE ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART-1

WEIGHT & DIMENSIONS

650/1100 VOLTS

| Nominal Size of Conductor | Form of Conductor Circular Shaped | Nominal Thickness of XLPE Insulation For U/A | Minimum Thickness of PVC Inner Sheath | Unarmoured Cable | | | Formed Wire / Strip Armoured Cable | | | Round Wire Armoured Cable | | | Current Rating * | | *Normal Delivery Length | | | |
|---------------------------|-----------------------------------|--|---------------------------------------|---------------------------------------|-----------------------------------|-------------------------|---|---------------------------------------|-----------------------------------|---------------------------|---|---------------------------------------|-----------------------------------|-------------------------|-------------------------|-----------|--------|-------|
| | | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of Aluminium Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of Aluminium Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | | In Ground | In Air | |
| Sq.mm | mm | mm | mm | mm | mm | Kgs./Km | mm | mm | mm | mm | Kgs./Km | mm | mm | mm | Kgs./Km | Amps. | Amps. | Mtrs. |
| 4 | Solid | 0.70 | 0.30 | 1.80 | 12.50 | 140 | -NA- | -NA- | -NA- | 1.40 | -NA- | -NA- | 1.24 | 14.50 | 375 | 42 | 38 | 1000 |
| 4 | Stranded | 0.70 | 0.30 | 1.80 | 13 | 150 | -NA- | -NA- | -NA- | 1.40 | -NA- | -NA- | 1.24 | 15.00 | 403 | 42 | 38 | 1000 |
| 6 | Solid | 0.70 | 0.30 | 1.80 | 13.50 | 170 | -NA- | -NA- | -NA- | 1.40 | -NA- | -NA- | 1.24 | 15.50 | 437 | 55 | 50 | 1000 |
| 6 | Stranded | 0.70 | 0.30 | 1.80 | 14 | 180 | -NA- | -NA- | -NA- | 1.40 | -NA- | -NA- | 1.24 | 16.50 | 465 | 55 | 50 | 1000 |
| 10 | Solid | 0.70 | 0.30 | 1.80 | 15 | 205 | -NA- | -NA- | -NA- | 1.40 | -NA- | -NA- | 1.24 | 16 | 503 | 68 | 64 | 1000 |
| 10 | Stranded | 0.70 | 0.30 | 1.80 | 16 | 225 | -NA- | -NA- | -NA- | 1.40 | -NA- | -NA- | 1.24 | 18 | 551 | 68 | 64 | 1000 |
| 16 | Stranded | 0.70 | 0.30 | 1.80 | 14 | 225 | -NA- | -NA- | -NA- | 1.40 | -NA- | -NA- | 1.40 | 17 | 480.16 | 89 | 83 | 1000 |
| 25 | Stranded | 0.90 | 0.30 | 2 | 17 | 330 | 4 x 0.80 | 1.40 | 18.50 | 509.13 | 1.60 | 1.40 | 1.40 | 20 | 671.84 | 114 | 109 | 1000 |
| 35 | Stranded | 0.90 | 0.30 | 2 | 19 | 410 | 4 x 0.80 | 1.40 | 20 | 605.51 | 1.60 | 1.40 | 1.40 | 22 | 775.55 | 136 | 133 | 1000 |
| 50 | Stranded | 1 | 0.30 | 2 | 21 | 510 | 4 x 0.80 | 1.40 | 22.50 | 753.28 | 1.60 | 1.40 | 1.40 | 24 | 937.97 | 161 | 162 | 1000 |
| 70 | Stranded | 1.10 | 0.30 | 2 | 23 | 675 | 4 x 0.80 | 1.56 | 22.50 | 989 | 1.60 | 1.56 | 1.56 | 27 | 1186.85 | 197 | 204 | 1000 |
| 95 | Stranded | 1.10 | 0.40 | 2.20 | 26.50 | 893 | 4 x 0.80 | 1.56 | 28 | 1204.30 | 2 | 1.56 | 1.56 | 28.68 | 1572.78 | 235 | 251 | 1000 |
| 120 | Stranded | 1.20 | 0.40 | 2.20 | 28.50 | 1050 | 4 x 0.80 | 1.56 | 30.50 | 1408.20 | 2 | 1.56 | 1.56 | 33 | 1849.49 | 266 | 287 | 500 |
| 150 | Stranded | 1.40 | 0.40 | 2.20 | 32 | 1215 | 4 x 0.80 | 1.72 | 31.79 | 1690.20 | 2 | 1.72 | 1.72 | 36 | 2182.96 | 296 | 328 | 500 |
| 185 | Stranded | 1.60 | 0.50 | 2.40 | 35.50 | 1510 | 4 x 0.80 | 1.72 | 34.95 | 2004.00 | 2 | 1.88 | 1.88 | 37.70 | 2597.60 | 335 | 379 | 500 |
| 240 | Stranded | 1.70 | 0.50 | 2.60 | 39.50 | 1900 | 4 x 0.80 | 1.88 | 38.69 | 2480.00 | 2.50 | 2.04 | 2.04 | 45 | 3418.52 | 385 | 448 | 500 |
| 300 | Stranded | 1.80 | 0.60 | 2.80 | 43.50 | 2360 | 4 x 0.80 | 2.04 | 42.53 | 2964.00 | 2.50 | 2.20 | 2.20 | 46.22 | 4019.07 | 432 | 513 | 500 |
| 400 | Stranded | 2 | 0.60 | 3 | 49 | 3100 | 4 x 0.80 | 2.36 | 48.24 | 3676.00 | 2.50 | 2.36 | 2.36 | 51.61 | 4854.00 | 487 | 593 | 500 |
| 500 | Stranded | 2.20 | 0.70 | 3.40 | 55.50 | 4000 | 4 x 0.80 | 2.52 | 56.50 | 4599.00 | 3.15 | 2.68 | 2.68 | 61.50 | 6517.00 | 548 | 683 | 500 |
| 630 | Stranded | 2.40 | 0.70 | 3.60 | 61.50 | 4997 | 4 x 0.80 | 2.68 | 62.50 | 5662.00 | 3.15 | 2.84 | 2.84 | 67.50 | 7790.00 | 612 | 784 | 500 |

The above data is approximate and subject to manufacturing tolerance.
* Delivery Length tolerance is ±5%. Length more than normal as per customer request.



TABLE-4 "POLYCAP" TWO CORE COPPER CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART-1

WEIGHT & DIMENSIONS

| Nominal Size of Conductor | Form of Conductor Circular Shaped | Nominal Thickness of XLPE Insulation | Minimum Thickness of PVC Inner Sheath | Unarmoured Cable | | | Formed Wire / Strip Armoured Cable | | | Round Wire Armoured Cable | | | Current Rating, * | | *Normal Delivery Length | | | |
|---------------------------|-----------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|-------------------------|------------------------------------|---------------------------------------|-----------------------------------|---------------------------|----------------------------------|---------------------------------------|-----------------------------------|-------------------------|-------------------------|-----------|--------|-------|
| | | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of Round Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | | In Ground | In Air | |
| Sq.mm | mm | mm | mm | mm | mm | Kgs./Km | mm | mm | mm | mm | Kgs./Km | mm | mm | mm | Kgs./Km | Amps. | Amps. | Mtrs. |
| 4 | Solid | 0.70 | 0.30 | 1.80 | 12.50 | 165 | -NA- | -NA- | -NA- | -NA- | -NA- | 1.40 | 1.24 | 14.00 | 408 | 54 | 48 | 1000 |
| 4 | Stranded | 0.70 | 0.30 | 1.80 | 13 | 175 | -NA- | -NA- | -NA- | -NA- | -NA- | 1.40 | 1.24 | 14.50 | 427 | 54 | 48 | 1000 |
| 6 | Solid | 0.70 | 0.30 | 1.80 | 13.50 | 210 | -NA- | -NA- | -NA- | -NA- | -NA- | 1.40 | 1.24 | 15.00 | 484 | 67 | 61 | 1000 |
| 6 | Stranded | 0.70 | 0.30 | 1.80 | 14 | 225 | -NA- | -NA- | -NA- | -NA- | -NA- | 1.40 | 1.24 | 16.00 | 522 | 67 | 61 | 1000 |
| 10 | Stranded | 0.70 | 0.30 | 1.80 | 16 | 300 | -NA- | -NA- | -NA- | -NA- | -NA- | 1.40 | 1.24 | 17.50 | 665 | 89 | 83 | 1000 |
| 16 | Stranded | 0.70 | 0.30 | 1.80 | 14 | 422 | -NA- | -NA- | -NA- | -NA- | -NA- | 1.40 | 1.40 | 17 | 696.50 | 115 | 108 | 1000 |
| 25 | Stranded | 0.90 | 0.30 | 2 | 17 | 636 | 4 x 0.80 | 1.40 | 18.50 | 804.40 | 1.60 | 1.40 | 1.40 | 20 | 1001.70 | 147 | 140 | 1000 |
| 35 | Stranded | 0.90 | 0.30 | 2 | 19 | 817 | 4 x 0.80 | 1.40 | 20 | 1019.70 | 1.60 | 1.40 | 1.40 | 22 | 1224.20 | 176 | 172 | 1000 |
| 50 | Stranded | 1 | 0.30 | 2 | 21 | 1054 | 4 x 0.80 | 1.40 | 22.50 | 1311.00 | 1.60 | 1.40 | 1.40 | 24 | 1520.00 | 208 | 208 | 1000 |
| 70 | Stranded | 1.10 | 0.30 | 2 | 23 | 1453 | 4 x 0.80 | 1.56 | 25.50 | 1757.00 | 1.60 | 1.56 | 1.56 | 27 | 2004.00 | 253 | 262 | 1000 |
| 95 | Stranded | 1.10 | 0.40 | 2.20 | 26.50 | 1966 | 4 x 0.80 | 1.56 | 28 | 2289.00 | 2 | 1.56 | 1.56 | 30.50 | 2736.00 | 302 | 322 | 500 |
| 120 | Stranded | 1.20 | 0.40 | 2.20 | 28.50 | 2413 | 4 x 0.80 | 1.56 | 30.50 | 2755.00 | 2 | 1.56 | 1.56 | 33 | 3230.00 | 340 | 368 | 500 |
| 150 | Stranded | 1.40 | 0.40 | 2.20 | 32 | 2935 | 4 x 0.80 | 1.72 | 31.80 | 3353.00 | 2 | 1.72 | 1.72 | 36 | 3876.00 | 379 | 419 | 500 |
| 185 | Stranded | 1.60 | 0.50 | 2.40 | 35.50 | 3676 | 4 x 0.80 | 1.72 | 37 | 4094.00 | 2 | 1.88 | 1.88 | 40 | 4731.00 | 425 | 482 | 500 |
| 240 | Stranded | 1.70 | 0.50 | 2.60 | 39.50 | 4750 | 4 x 0.80 | 1.88 | 38.70 | 5225.00 | 2.50 | 2.04 | 2.04 | 42.40 | 6203.00 | 486 | 566 | 500 |
| 300 | Stranded | 1.80 | 0.60 | 2.80 | 43.50 | 5918 | 4 x 0.80 | 2.04 | 42.50 | 6412.00 | 2.50 | 2.20 | 2.20 | 46.20 | 7514.00 | 541 | 644 | 500 |
| 400 | Stranded | 2 | 0.60 | 3 | 49 | 7495 | 4 x 0.80 | 2.36 | 48.20 | 8075.00 | 2.50 | 2.36 | 2.36 | 51.60 | 9262.00 | 602 | 734 | 500 |

The above data is approximate and subject to manufacturing tolerance.
* Delivery Length tolerance is ±5%. Length more than normal as per customer request.



WEIGHT & DIMENSIONS

TABLE-5 "POLYCAB" THREE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART-1

650/1100 VOLTS

| Nominal Size of Conductor | Form of Conductor Circular Shaped | Nominal Thickness of XLPE Insulation | Minimum Thickness of PVC Inner Sheath | Unarmoured Cable | | | Formed Wire / Strip Armoured Cable | | | Round Wire Armoured Cable | | | Current Rating * | | *Normal Delivery Length | | | |
|---------------------------|-----------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|-------------------------|------------------------------------|---------------------------------------|-----------------------------------|---------------------------|-------------------------------------|---------------------------------------|-----------------------------------|-------------------------|-------------------------|-----------|--------|-------|
| | | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Round Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | | In Ground | In Air | |
| Sq.mm | mm | mm | mm | mm | mm | Kgs./Km | mm | mm | mm | mm | Kgs./Km | mm | mm | Kgs./Km | mm | Amps. | Amps. | Mtrs. |
| 4 | Solid | 0.70 | 0.30 | 1.80 | 13 | 140 | -NA- | -NA- | -NA- | 1.40 | -NA- | 1.24 | 15 | 460 | 35 | 32 | 1000 | |
| 4 | Stranded | 0.70 | 0.30 | 1.80 | 13.50 | 160 | -NA- | -NA- | -NA- | 1.40 | -NA- | 1.24 | 16 | 399 | 35 | 32 | 1000 | |
| 6 | Solid | 0.70 | 0.30 | 1.80 | 14.50 | 170 | -NA- | -NA- | -NA- | 1.40 | -NA- | 1.24 | 16 | 530 | 46 | 42 | 1000 | |
| 6 | Stranded | 0.70 | 0.30 | 1.80 | 15 | 190 | -NA- | -NA- | -NA- | 1.40 | -NA- | 1.24 | 17 | 470 | 46 | 42 | 1000 | |
| 10 | Solid | 0.70 | 0.30 | 1.80 | 15.50 | 220 | -NA- | -NA- | -NA- | 1.40 | -NA- | 1.24 | 18 | 640 | 57 | 54 | 1000 | |
| 10 | Stranded | 0.70 | 0.30 | 1.80 | 17 | 230 | -NA- | -NA- | -NA- | 1.40 | -NA- | 1.24 | 18.50 | 551 | 57 | 54 | 1000 | |
| 16 | Stranded | 0.70 | 0.30 | 1.80 | 16.20 | 304 | 4 x 0.80 | 1.24 | 16.80 | 487.60 | 1.60 | 1.40 | 19 | 648.40 | 74 | 69 | 1000 | |
| 25 | Stranded | 0.90 | 0.30 | 2 | 19.50 | 446 | 4 x 0.80 | 1.40 | 20.10 | 670.70 | 1.60 | 1.40 | 21.70 | 855.00 | 95 | 93 | 1000 | |
| 35 | Stranded | 0.90 | 0.30 | 2 | 21.50 | 551 | 4 x 0.80 | 1.40 | 22 | 798.00 | 1.60 | 1.40 | 23.60 | 997.00 | 114 | 114 | 1000 | |
| 50 | Stranded | 1 | 0.30 | 2 | 24.50 | 693 | 4 x 0.80 | 1.40 | 24.80 | 960.00 | 1.60 | 1.56 | 26.80 | 1235.00 | 134 | 138 | 1000 | |
| 70 | Stranded | 1.10 | 0.40 | 2.20 | 28 | 950 | 4 x 0.80 | 1.56 | 28.50 | 1282 | 2 | 1.56 | 30.90 | 1729.00 | 164 | 175 | 500 | |
| 95 | Stranded | 1.10 | 0.40 | 2.20 | 30.80 | 1206 | 4 x 0.80 | 1.56 | 31.30 | 1577 | 2 | 1.56 | 33.70 | 2077.00 | 197 | 216 | 500 | |
| 120 | Stranded | 1.20 | 0.40 | 2.20 | 33.80 | 1463 | 4 x 0.80 | 1.56 | 34.30 | 1871 | 2 | 1.72 | 37 | 2422.00 | 223 | 249 | 500 | |
| 150 | Stranded | 1.40 | 0.50 | 2.40 | 37.90 | 1814 | 4 x 0.80 | 1.72 | 38.30 | 2100 | 2 | 1.88 | 41.10 | 2888.00 | 249 | 284 | 500 | |
| 185 | Stranded | 1.60 | 0.50 | 2.60 | 42 | 2242 | 4 x 0.80 | 1.88 | 42.30 | 2500 | 2.50 | 2.04 | 46 | 3733.00 | 282 | 329 | 500 | |
| 240 | Stranded | 1.70 | 0.60 | 2.80 | 46.90 | 2869 | 4 x 0.80 | 2.04 | 47.20 | 3382 | 2.50 | 2.20 | 50.90 | 4531.00 | 327 | 392 | 500 | |
| 300 | Stranded | 1.80 | 0.60 | 3 | 51.50 | 3505 | 4 x 0.80 | 2.20 | 51.80 | 4066 | 2.50 | 2.36 | 55.45 | 5339.00 | 369 | 452 | 500 | |
| 400 | Stranded | 2 | 0.70 | 3.20 | 58.60 | 4427 | 4 x 0.80 | 2.52 | 58.50 | 5101 | 3.15 | 2.68 | 64 | 7115.00 | 420 | 526 | 500 | |
| 500 | Stranded | 2.20 | 0.70 | 3.60 | 66 | 5681 | 4 x 0.80 | 2.68 | 65 | 6365 | 3.15 | 2.84 | 73 | 8597.00 | 478 | 612 | 250 | |
| 630 | Stranded | 2.40 | 0.70 | 3.80 | 72 | 7125 | 4 x 0.80 | 2.84 | 73 | 7894 | 4 | 3 | 78 | 11295 | 542 | 712 | 250 | |

The above data is approximate and subject to manufacturing tolerance.
* Delivery Length tolerance is ±5%. Length more than normal as per customer request.

Weight, Dimension Data & Current Carrying Capacity of Cables



TABLE-6 “POLYCAP” THREE CORE COPPER CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART-1

WEIGHT & DIMENSIONS

650/1100 VOLTS

| Nominal Size of Conductor | Form of Conductor Circular Shaped | Nominal Thickness of XLPE Insulation | Minimum Thickness of PVC Inner Sheath | Unarmoured Cable | | | Formed Wire / Strip Armoured Cable | | | Round Wire Armoured Cable | | | Current Rating, * | | *Normal Delivery Length | | | |
|---------------------------|-----------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|-------------------------|------------------------------------|---------------------------------------|-----------------------------------|---------------------------|-------------------------------------|---------------------------------------|-----------------------------------|-------------------------|-------------------------|-----------|--------|-------|
| | | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Round Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | | In Ground | In Air | |
| Sq.mm | mm | mm | mm | mm | mm | Kgs./Kkm | mm | mm | mm | mm | Kgs./Kkm | mm | mm | mm | Kgs./Kkm | Amps. | Amps. | Mtrs. |
| 4 | Solid | 0.70 | 0.30 | 1.80 | 13.00 | 210 | -NA- | -NA- | -NA- | 1.40 | -NA- | 1.40 | 1.24 | 15 | 530 | 45 | 41 | 1000 |
| 4 | Stranded | 0.70 | 0.30 | 1.80 | 13.50 | 232 | -NA- | -NA- | -NA- | 1.40 | -NA- | 1.40 | 1.24 | 16 | 460 | 45 | 41 | 1000 |
| 6 | Solid | 0.70 | 0.30 | 1.80 | 14.00 | 280 | -NA- | -NA- | -NA- | 1.40 | -NA- | 1.40 | 1.24 | 16 | 640 | 56 | 52 | 1000 |
| 6 | Stranded | 0.70 | 0.30 | 1.80 | 15.00 | 299 | -NA- | -NA- | -NA- | 1.40 | -NA- | 1.40 | 1.24 | 17 | 551 | 56 | 52 | 1000 |
| 10 | Stranded | 0.70 | 0.30 | 1.80 | 16.50 | 415 | -NA- | -NA- | -NA- | 1.40 | -NA- | 1.40 | 1.24 | 19 | 722 | 74 | 70 | 1000 |
| 16 | Stranded | 0.70 | 0.30 | 1.80 | 16.20 | 425 | 4 x 0.80 | 1.24 | 16.80 | 1.60 | 772.30 | 1.60 | 1.40 | 18.80 | 921 | 95 | 89 | 1000 |
| 25 | Stranded | 0.90 | 0.30 | 2 | 19.50 | 874 | 4 x 0.80 | 1.40 | 20.10 | 1.60 | 1102 | 1.60 | 1.40 | 21.70 | 1282 | 122 | 119 | 1000 |
| 35 | Stranded | 0.90 | 0.30 | 2 | 21.50 | 1150 | 4 x 0.80 | 1.40 | 22 | 1.60 | 1396 | 1.60 | 1.40 | 23.60 | 1596 | 146 | 147 | 1000 |
| 50 | Stranded | 1 | 0.30 | 2 | 24.50 | 1501 | 4 x 0.80 | 1.40 | 24.80 | 1.60 | 1767 | 1.60 | 1.56 | 26.80 | 2042 | 173 | 179 | 1000 |
| 70 | Stranded | 1.10 | 0.40 | 2.20 | 28.00 | 2118 | 4 x 0.80 | 1.56 | 28.50 | 2 | 2441 | 2 | 1.56 | 30.90 | 2888 | 212 | 226 | 500 |
| 95 | Stranded | 1.10 | 0.40 | 2.20 | 30.80 | 2821 | 4 x 0.80 | 1.56 | 31.30 | 2 | 3182 | 2 | 1.56 | 33.70 | 3686 | 254 | 279 | 500 |
| 120 | Stranded | 1.20 | 0.40 | 2.20 | 33.80 | 3496 | 4 x 0.80 | 1.56 | 34.30 | 2 | 3895 | 2 | 1.72 | 37 | 4455 | 287 | 320 | 500 |
| 150 | Stranded | 1.40 | 0.50 | 2.40 | 37.90 | 4322 | 4 x 0.80 | 1.72 | 38.30 | 2 | 4759 | 2 | 1.88 | 41.10 | 5396 | 321 | 365 | 500 |
| 185 | Stranded | 1.60 | 0.50 | 2.60 | 42 | 5377 | 4 x 0.80 | 1.88 | 42.30 | 2.50 | 5852 | 2.50 | 2.04 | 46 | 6868 | 362 | 422 | 500 |
| 240 | Stranded | 1.70 | 0.60 | 2.80 | 46.90 | 6992 | 4 x 0.80 | 2.04 | 47.20 | 2.50 | 7505 | 2.50 | 2.20 | 50.90 | 8654 | 418 | 500 | 500 |
| 300 | Stranded | 1.80 | 0.60 | 3 | 51.50 | 8683 | 4 x 0.80 | 2.20 | 51.80 | 2.50 | 9243 | 2.50 | 2.36 | 55.50 | 10526 | 469 | 574 | 500 |
| 400 | Stranded | 2 | 0.70 | 3.20 | 58.60 | 11029 | 4 x 0.80 | 2.52 | 58.50 | 3.15 | 11704 | 3.15 | 2.68 | 64 | 13718 | 528 | 662 | 250 |

The above data is approximate and subject to manufacturing tolerance.

* Delivery Length tolerance is ±5%. Length more than normal as per customer request.

TABLE-7 "POLYCAB" THREE AND HALF CORE ALUMINIUM CONDUCTOR, XLPE INSULATED UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART-1



WEIGHT & DIMENSIONS

650/1100 VOLTS

| Nominal Size of Conductor | Form of Conductor | Nominal Thickness of XLPE Insulation Main / Neutral | Minimum Thickness of PVC Inner Sheath | Unarmoured Cable | | Formed Wire / Strip Armoured Cable | | | Round Wire Armoured Cable | | | Current Rating * | | * Normal Delivery Length | | | | |
|---------------------------|-------------------|---|---------------------------------------|---------------------------------------|-----------------------------------|------------------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|-------------------------------------|---------------------------------------|-----------------------------------|--------------------------|-------------------------|-----------|--------|-------|
| | | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Round Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | | Approx. Weight of Cable | In Ground | In Air | |
| Sq.mm | | mm mm | mm | mm | mm | Kgs./Km | mm | mm | mm | mm | mm | Kgs./Km | mm | mm | Kgs./Km | Amps. | Amps. | Mtrs. |
| 25/16 | Stranded | 0.90 0.70 | 0.30 | 2 | 21.30 | 525 | 4 x 0.80 | 1.40 | 21.90 | 733 | 1.60 | 1.40 | 23.60 | 969 | 95 | 93 | 1000 | |
| 35/16 | Stranded | 0.90 0.70 | 0.30 | 2 | 23.60 | 625 | 4 x 0.80 | 1.40 | 24.20 | 886 | 1.60 | 1.40 | 25.80 | 1139 | 114 | 114 | 1000 | |
| 50/25 | Stranded | 1 0.90 | 0.30 | 2 | 26.80 | 800 | 4 x 0.80 | 1.40 | 27.40 | 1113 | 1.60 | 1.56 | 29.50 | 1387 | 134 | 138 | 1000 | |
| 70/35 | Stranded | 1.10 0.90 | 0.40 | 2.20 | 31 | 1100 | 4 x 0.80 | 1.56 | 31.50 | 1451 | 2 | 1.56 | 34 | 1938 | 164 | 175 | 500 | |
| 95/50 | Stranded | 1.10 1 | 0.40 | 2.20 | 34.30 | 1400 | 4 x 0.80 | 1.56 | 34.80 | 1796 | 2 | 1.56 | 37.20 | 2356 | 197 | 216 | 500 | |
| 120/70 | Stranded | 1.20 1.10 | 0.40 | 2.20 | 37.50 | 1650 | 4 x 0.80 | 1.72 | 38.50 | 2199 | 2 | 1.72 | 41 | 2800 | 223 | 249 | 500 | |
| 150/70 | Stranded | 1.40 1.10 | 0.50 | 2.40 | 41 | 2000 | 4 x 0.80 | 1.72 | 42 | 2579 | 2 | 1.88 | 45 | 3296 | 249 | 284 | 500 | |
| 185/95 | Stranded | 1.60 1.10 | 0.50 | 2.60 | 46.50 | 2550 | 4 x 0.80 | 1.88 | 47.20 | 3156 | 2.50 | 2.04 | 50 | 4313 | 282 | 329 | 500 | |
| 240/120 | Stranded | 1.70 1.20 | 0.60 | 2.80 | 52.50 | 3200 | 4 x 0.80 | 2.04 | 52.70 | 3913 | 2.50 | 2.20 | 56 | 5196 | 327 | 392 | 500 | |
| 300/150 | Stranded | 1.80 1.40 | 0.60 | 3 | 56 | 4000 | 4 x 0.80 | 2.20 | 57 | 4693 | 2.50 | 2.36 | 61 | 6108 | 369 | 452 | 500 | |
| 400/185 | Stranded | 2 1.60 | 0.70 | 3.40 | 64 | 5177 | 4 x 0.80 | 2.52 | 65 | 5890 | 3.15 | 2.68 | 70 | 8151 | 420 | 526 | 500 | |
| 500/240 | Stranded | 2.20 1.70 | 0.70 | 3.60 | 72.50 | 6500 | 4 x 0.80 | 2.68 | 73.50 | 7400 | 3.15 | 2.84 | 77 | 9880 | 478 | 612 | 250 | |

The above data is approximate and subject to manufacturing tolerance.

* Delivery Length tolerance is ±5%. Length more than normal as per customer request.



TABLE-8 "POLYCAB" THREE AND HALF CORE COPPER CONDUCTOR, XLPE INSULATED UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART-1

WEIGHT & DIMENSIONS

650/1100 VOLTS

| Nominal Size of Conductor | Form of Conductor Circular Shaped | Nominal Thickness of XLPE Insulation Main / Neutral | Minimum Thickness of PVC Inner Sheath | Unarmoured Cable | | | Formed Wire / Strip Armoured Cable | | | Round Wire Armoured Cable | | | Current Rating,* | | *Normal Delivery Length | | | |
|---------------------------|--------------------------------------|---|---------------------------------------|---------------------------------------|-----------------------------------|-------------------------|------------------------------------|---------------------------------------|-----------------------------------|---------------------------|-------------------------------------|---------------------------------------|-----------------------------------|-------------------------|-------------------------|-----------|--------|-------|
| | | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Round Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | | In Ground | In Air | |
| Sq.mm | | mm mm | mm | mm | mm | Kgs./Km | mm | mm | mm | mm | Kgs./Km | mm | mm | mm | Kgs./Km | Amps. | Amps. | Mtrs. |
| 25/16 | Stranded | 0.90 0.70 | 0.30 | 2 | 21.30 | 1035 | 4 x 0.80 | 1.40 | 21.90 | 1272 | 1.60 | 1.40 | 23.60 | 1491 | 122 | 119 | 1000 | |
| 35/16 | Stranded | 0.90 0.70 | 0.30 | 2 | 23.60 | 1311 | 4 x 0.80 | 1.40 | 24.20 | 1586 | 1.60 | 1.40 | 25.80 | 1824 | 146 | 147 | 1000 | |
| 50/25 | Stranded | 1 0.90 | 0.30 | 2 | 26.80 | 1748 | 4 x 0.80 | 1.40 | 27.40 | 2061 | 1.60 | 1.56 | 29 | 2337 | 173 | 179 | 1000 | |
| 70/35 | Stranded | 1.10 0.90 | 0.40 | 2.20 | 31 | 2460 | 4 x 0.80 | 1.56 | 31.50 | 2831 | 2 | 1.56 | 33.90 | 3296 | 212 | 226 | 500 | |
| 95/50 | Stranded | 1.10 1 | 0.40 | 2.20 | 34.30 | 3287 | 4 x 0.80 | 1.56 | 34.80 | 3686 | 2 | 1.56 | 37.20 | 4237 | 254 | 279 | 500 | |
| 120/70 | Stranded | 1.20 1.10 | 0.40 | 2.20 | 37.60 | 4142 | 4 x 0.80 | 1.72 | 38.50 | 4617 | 2 | 1.72 | 41 | 5225 | 287 | 320 | 500 | |
| 150/70 | Stranded | 1.40 1.10 | 0.50 | 2.40 | 42.30 | 4987 | 4 x 0.80 | 1.72 | 42.70 | 5481 | 2 | 1.88 | 45 | 6194 | 321 | 365 | 500 | |
| 185/95 | Stranded | 1.60 1.10 | 0.50 | 2.60 | 46.80 | 6279 | 4 x 0.80 | 1.88 | 47.20 | 6830 | 2.50 | 2.04 | 50 | 7989 | 362 | 422 | 500 | |
| 240/120 | Stranded | 1.70 1.20 | 0.60 | 2.80 | 52.40 | 8122 | 4 x 0.80 | 2.04 | 52.70 | 8711 | 2.50 | 2.20 | 56 | 10003 | 418 | 500 | 500 | |
| 300/150 | Stranded | 1.80 1.40 | 0.60 | 3 | 57 | 10079 | 4 x 0.80 | 2.20 | 57.90 | 10716 | 2.50 | 2.36 | 61 | 12131 | 469 | 574 | 500 | |
| 400/185 | Stranded | 2 1.60 | 0.70 | 3.40 | 65 | 12834.5 | 4 x 0.80 | 2.52 | 65.50 | 13556 | 3.15 | 2.68 | 70 | 15817 | 528 | 662 | 250 | |

The above data is approximate and subject to manufacturing tolerance.

* Delivery Length tolerance is ±5%. Length more than normal as per customer request.



TABLE-9 "POLYCAB" FOUR CORE ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART-1

WEIGHT & DIMENSIONS

650/1100 VOLTS

| Nominal Size of Conductor | Form of Conductor Circular Strapped | Nominal Thickness of XLPE Insulation | Minimum Thickness of PVC Inner Sheath | Unarmoured Cable | | | Formed Wire / Strip Armoured Cable | | | Round Wire Armoured Cable | | | Current Rating, * | | *Normal Delivery Length | | | |
|---------------------------|---|--------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|-------------------------|------------------------------------|---------------------------------------|-----------------------------------|---------------------------|-------------------------------------|---------------------------------------|-----------------------------------|-------------------------|-------------------------|-----------|--------|-------|
| | | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Round Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | | In Ground | In Air | |
| Sq.mm | | mm | mm | mm | mm | Kgs./Km | mm | mm | mm | mm | mm | Kgs./Km | mm | mm | Kgs./Km | Amps. | Amps. | Mtrs. |
| 4 | Solid | 0.70 | 0.30 | 1.80 | 13.50 | 160 | -NA- | -NA- | -NA- | 1.40 | 1.24 | -NA- | 1.40 | 15.30 | 413 | 35 | 32 | 1000 |
| 4 | Stranded | 0.70 | 0.30 | 1.80 | 14.20 | 180 | -NA- | -NA- | -NA- | 1.40 | 1.24 | -NA- | 1.40 | 16 | 435 | 35 | 32 | 1000 |
| 6 | Solid | 0.70 | 0.30 | 1.80 | 14.70 | 200 | -NA- | -NA- | -NA- | 1.40 | 1.24 | -NA- | 1.40 | 16.50 | 473 | 46 | 42 | 1000 |
| 6 | Stranded | 0.70 | 0.30 | 1.80 | 15.50 | 215 | -NA- | -NA- | -NA- | 1.40 | 1.24 | -NA- | 1.40 | 17.30 | 506 | 46 | 42 | 1000 |
| 10 | Solid | 0.70 | 0.30 | 1.80 | 16.60 | 250 | -NA- | -NA- | -NA- | 1.40 | 1.40 | -NA- | 1.40 | 18.60 | 592 | 57 | 54 | 1000 |
| 10 | Stranded | 0.70 | 0.30 | 1.80 | 17.50 | 260 | -NA- | -NA- | -NA- | 1.40 | 1.40 | -NA- | 1.40 | 19.80 | 633 | 57 | 54 | 1000 |
| 16 | Stranded | 0.70 | 0.30 | 1.80 | 17.80 | 350 | 4 x 0.80 | 1.40 | 20 | 1.60 | 1.40 | 608 | 1.60 | 21 | 795 | 74 | 69 | 1000 |
| 25 | Stranded | 0.90 | 0.30 | 2 | 21 | 550 | 4 x 0.80 | 1.40 | 23 | 1.60 | 1.40 | 828.50 | 1.60 | 25 | 1045 | 95 | 93 | 500 |
| 35 | Stranded | 0.90 | 0.30 | 2 | 23.50 | 680 | 4 x 0.80 | 1.40 | 25 | 1.60 | 1.40 | 997 | 1.60 | 26.50 | 1244 | 114 | 114 | 500 |
| 50 | Stranded | 1 | 0.30 | 2 | 26 | 875 | 4 x 0.80 | 1.56 | 28 | 1.60 | 1.56 | 1235 | 1.60 | 29.50 | 1520 | 134 | 138 | 500 |
| 70 | Stranded | 1.10 | 0.40 | 2.20 | 30.50 | 1200 | 4 x 0.80 | 1.56 | 32 | 2 | 1.56 | 1615 | 2 | 34 | 2137 | 164 | 175 | 500 |
| 95 | Stranded | 1.10 | 0.40 | 2.20 | 33.50 | 1530 | 4 x 0.80 | 1.56 | 35 | 2 | 1.72 | 2014 | 2 | 38 | 2622 | 197 | 216 | 500 |
| 120 | Stranded | 1.20 | 0.50 | 2.40 | 37.50 | 1850 | 4 x 0.80 | 1.72 | 39 | 2 | 1.88 | 2403 | 2 | 42 | 3087 | 223 | 249 | 500 |
| 150 | Stranded | 1.40 | 0.50 | 2.60 | 42 | 2280 | 4 x 0.80 | 1.88 | 43 | 2.50 | 2.04 | 2888 | 2.50 | 47 | 3980 | 249 | 284 | 500 |
| 185 | Stranded | 1.60 | 0.50 | 2.80 | 46.50 | 2800 | 4 x 0.80 | 2.04 | 48 | 2.50 | 2.20 | 3505 | 2.50 | 52 | 4721 | 282 | 329 | 500 |
| 240 | Stranded | 1.70 | 0.60 | 3 | 52.50 | 3700 | 4 x 0.80 | 2.20 | 54 | 2.50 | 2.36 | 4389 | 2.50 | 57.50 | 5709 | 327 | 392 | 500 |
| 300 | Stranded | 1.80 | 0.70 | 3.20 | 58 | 4600 | 4 x 0.80 | 2.36 | 59.50 | 3.15 | 2.52 | 5291 | 3.15 | 64.50 | 7372 | 369 | 452 | 500 |
| 400 | Stranded | 2 | 0.70 | 3.60 | 65.50 | 6000 | 4 x 0.80 | 2.68 | 66.50 | 3.15 | 2.84 | 6583 | 3.15 | 71.50 | 8985 | 420 | 526 | 500 |

The above data is approximate and subject to manufacturing tolerance.

* Delivery Length tolerance is ±5%. Length more than normal as per customer request.

Weight, Dimension Data & Current Carrying Capacity of Cables



TABLE-10 "POLYCAB" FOUR CORE COPPER CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART-1

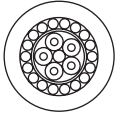
WEIGHT & DIMENSIONS

650/1100 VOLTS

| Nominal Size of Conductor | Form of Conductor Circular Shaped | Nominal Thickness of XLPE Insulation | Minimum Thickness of PVC Inner Sheath | Unarmoured Cable | | | Formed Wire / Strip Armoured Cable | | | Round Wire Armoured Cable | | | Current Rating,* | | *Normal Delivery Length | | |
|---------------------------|-----------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|-------------------------|------------------------------------|---------------------------------------|-----------------------------------|---------------------------|-------------------------------------|---------------------------------------|-----------------------------------|-------------------------|-------------------------|-----------|--------|
| | | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Round Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | | In Ground | In Air |
| Sq.mm | mm | mm | mm | mm | mm | Kgs./Km | mm | mm | mm | mm | Kgs./Km | mm | mm | Kgs./Km | Amps. | Amps. | Mtrs. |
| 4 | Solid | 0.70 | 0.30 | 1.80 | 13.50 | 260 | -NA- | -NA- | -NA- | 1.40 | -NA- | 1.24 | 15.30 | 503 | 45 | 41 | 1000 |
| 4 | Stranded | 0.70 | 0.30 | 1.80 | 14.20 | 280 | -NA- | -NA- | -NA- | 1.40 | -NA- | 1.24 | 16 | 533 | 45 | 41 | 1000 |
| 6 | Solid | 0.70 | 0.30 | 1.80 | 14.70 | 350 | -NA- | -NA- | -NA- | 1.40 | -NA- | 1.24 | 16.50 | 618 | 56 | 52 | 1000 |
| 6 | Stranded | 0.70 | 0.30 | 1.80 | 15.50 | 365 | -NA- | -NA- | -NA- | 1.40 | -NA- | 1.24 | 17.30 | 646 | 56 | 52 | 1000 |
| 10 | Stranded | 0.70 | 0.30 | 1.80 | 17.80 | 510 | -NA- | -NA- | -NA- | 1.40 | -NA- | 1.40 | 19.80 | 870 | 74 | 70 | 1000 |
| 16 | Stranded | 0.70 | 0.30 | 1.80 | 17.50 | 741 | 4 x 0.80 | 1.40 | 1.40 | 1.60 | 969 | 1.40 | 21 | 1159 | 95 | 89 | 1000 |
| 25 | Stranded | 0.90 | 0.30 | 2 | 21 | 1140 | 4 x 0.80 | 1.40 | 1.40 | 1.60 | 1406 | 1.40 | 25 | 1615 | 122 | 119 | 500 |
| 35 | Stranded | 0.90 | 0.30 | 2 | 23.50 | 1491 | 4 x 0.80 | 1.40 | 1.40 | 1.60 | 1786 | 1.40 | 26.50 | 2033 | 146 | 147 | 500 |
| 50 | Stranded | 1 | 0.30 | 2 | 26 | 1957 | 4 x 0.80 | 1.56 | 1.56 | 1.60 | 2308 | 1.56 | 29.50 | 2593 | 173 | 179 | 500 |
| 70 | Stranded | 1.10 | 0.40 | 2.20 | 30.50 | 2774 | 4 x 0.80 | 1.56 | 1.56 | 2 | 3154 | 1.56 | 34 | 3686 | 212 | 226 | 500 |
| 95 | Stranded | 1.10 | 0.40 | 2.20 | 33.50 | 3714 | 4 x 0.80 | 1.56 | 1.56 | 2 | 4161 | 1.72 | 38 | 4769 | 254 | 279 | 500 |
| 120 | Stranded | 1.20 | 0.50 | 2.40 | 37.50 | 4645 | 4 x 0.80 | 1.72 | 1.72 | 2 | 5101 | 1.88 | 42 | 5795 | 287 | 320 | 500 |
| 150 | Stranded | 1.40 | 0.50 | 2.60 | 42 | 5719 | 4 x 0.80 | 1.88 | 1.88 | 2.50 | 6232 | 2.04 | 47 | 7324 | 321 | 365 | 500 |
| 185 | Stranded | 1.60 | 0.50 | 2.80 | 46.50 | 7125 | 4 x 0.80 | 2.04 | 2.04 | 2.50 | 7676 | 2.20 | 52 | 8901 | 362 | 422 | 500 |
| 240 | Stranded | 1.70 | 0.60 | 3 | 52.50 | 9253 | 4 x 0.80 | 2.20 | 2.20 | 2.50 | 9880 | 2.36 | 57.50 | 11210 | 418 | 500 | 500 |
| 300 | Stranded | 1.80 | 0.70 | 3.20 | 58 | 11524 | 4 x 0.80 | 2.36 | 2.36 | 3.15 | 12198 | 2.52 | 64.50 | 14279 | 469 | 574 | 500 |

The above data is approximate and subject to manufacturing tolerance.
* Delivery Length tolerance is ±5%. Length more than normal as per customer request.

TABLE-I "POLYCAB" 650/1100 VOLTS MULTICORE CONTROL CABLE WITH SOLID COPPER CONDUCTOR OF SIZE 1.5 SQ.MM XLPE INSULATED UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART-1



WEIGHT & DIMENSIONS

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| Number of Cores | Nominal Thickness of XLPE Insulation | Minimum Thickness of PVC Inner Sheath | Unarmoured Cable | | | Formed Wire / Strip Armoured Cable | | | Round Wire Armoured Cable | | | Current Rating * | | *Normal Delivery Length | |
|-----------------|--------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|-------------------------|------------------------------------|---------------------------------------|-----------------------------------|---------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|-------------------------|-----------|
| | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | | In Ground |
| Sq.mm | mm | mm | mm | mm | Kgs./Km | mm | mm | mm | mm | mm | mm | Kgs./Km | Amps. | Amps. | Mtrs. |
| 2 | 0.70 | 0.30 | 1.80 | 10 | 140 | -NA- | -NA- | -NA- | 1.40 | 1.24 | 11.90 | 288 | 31 | 27 | 1000 |
| 3 | 0.70 | 0.30 | 1.80 | 10.50 | 160 | -NA- | -NA- | -NA- | 1.40 | 1.24 | 12.40 | 302 | 26 | 23 | 1000 |
| 4 | 0.70 | 0.30 | 1.80 | 11.50 | 171 | -NA- | -NA- | -NA- | 1.40 | 1.24 | 13.10 | 349 | 26 | 23 | 1000 |
| 5 | 0.70 | 0.30 | 1.80 | 12.10 | 195 | -NA- | -NA- | -NA- | 1.40 | 1.24 | 13.90 | 385 | 26 | 23 | 1000 |
| 6 | 0.70 | 0.30 | 1.80 | 12.90 | 222 | -NA- | -NA- | -NA- | 1.40 | 1.24 | 14.70 | 432 | 23 | 20 | 1000 |
| 7 | 0.70 | 0.30 | 1.80 | 12.90 | 239 | -NA- | -NA- | -NA- | 1.40 | 1.24 | 14.70 | 450 | 20 | 18 | 1000 |
| 8 | 0.70 | 0.30 | 1.80 | 14 | 275 | -NA- | -NA- | -NA- | 1.40 | 1.24 | 16.50 | 494 | 17 | 15 | 1000 |
| 9 | 0.70 | 0.30 | 1.80 | 15 | 308 | -NA- | -NA- | -NA- | 1.40 | 1.24 | 17.50 | 542 | 17 | 15 | 1000 |
| 10 | 0.70 | 0.30 | 1.80 | 15.70 | 327 | -NA- | -NA- | -NA- | 1.40 | 1.24 | 17.50 | 594 | 17 | 15 | 1000 |
| 12 | 0.70 | 0.30 | 1.80 | 16.10 | 365 | -NA- | -NA- | -NA- | 1.40 | 1.24 | 18 | 646 | 16 | 14 | 1000 |
| 14 | 0.70 | 0.30 | 1.80 | 16.80 | 413 | -NA- | -NA- | -NA- | 1.40 | 1.40 | 18.90 | 709 | 16 | 14 | 1000 |
| 16 | 0.70 | 0.30 | 1.80 | 17.70 | 460 | 4 x 0.80 | 18.50 | 18.50 | 1.60 | 1.40 | 20.10 | 807 | 14 | 12 | 1000 |
| 19 | 0.70 | 0.30 | 1.80 | 18.50 | 513 | 4 x 0.80 | 19.30 | 19.30 | 1.60 | 1.40 | 20.90 | 900 | 14 | 12 | 1000 |
| 21 | 0.70 | 0.30 | 2 | 19.80 | 560 | 4 x 0.80 | 20.20 | 20.20 | 1.60 | 1.40 | 21.80 | 960 | 12 | 11 | 500 |
| 24 | 0.70 | 0.30 | 2 | 21.70 | 627 | 4 x 0.80 | 22.10 | 22.10 | 1.60 | 1.40 | 23.70 | 1094 | 12 | 11 | 500 |
| 27 | 0.70 | 0.30 | 2 | 22.10 | 684 | 4 x 0.80 | 22.50 | 22.50 | 1.60 | 1.40 | 24.10 | 1152 | 11 | 9 | 500 |
| 30 | 0.70 | 0.30 | 2 | 22.80 | 741 | 4 x 0.80 | 23.20 | 23.20 | 1.60 | 1.40 | 24.90 | 1229 | 11 | 9 | 500 |
| 33 | 0.70 | 0.30 | 2 | 23.70 | 807 | 4 x 0.80 | 24.10 | 24.10 | 1.60 | 1.40 | 25.70 | 1322 | 11 | 9 | 500 |
| 37 | 0.70 | 0.30 | 2 | 24.50 | 874 | 4 x 0.80 | 24.90 | 24.90 | 1.60 | 1.40 | 26.50 | 1415 | 11 | 9 | 500 |
| 44 | 0.70 | 0.30 | 2 | 27.30 | 1026 | 4 x 0.80 | 27.70 | 27.70 | 1.60 | 1.56 | 29.70 | 1662 | 9 | 8 | 500 |
| 52 | 0.70 | 0.30 | 2 | 28.40 | 1178 | 4 x 0.80 | 29.20 | 29.20 | 1.60 | 1.56 | 30.90 | 1833 | 9 | 8 | 500 |
| 61 | 0.70 | 0.40 | 2.20 | 30.70 | 1387 | 4 x 0.80 | 31.10 | 31.10 | 2 | 1.56 | 33.50 | 2251 | 9 | 8 | 500 |

The above data is approximate and subject to manufacturing tolerance.
* Delivery Length tolerance is ±5%. Length more than normal as per customer request.

Weight, Dimension Data & Current Carrying Capacity of Cables

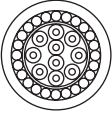


TABLE-12 "POLYCAB" 650/1100 VOLTS MULTICORE CONTROL WITH SOLID COPPER CONDUCTOR OF SIZE 2.5 SQ.MM XLPE INSULATED UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART-1

WEIGHT & DIMENSIONS

| Number of Cores | Nominal Thickness of XLPE Insulation | Minimum Thickness of PVC Inner Sheath | Unarmoured Cable | | Formed Wire / Strip Armoured Cable | | Round Wire Armoured Cable | | Current Rating,* | | *Normal Delivery Length | |
|-----------------|--------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|------------------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|-----------|-------------------------|--------|
| | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | In Ground | | In Air |
| Sq.mm | mm | mm | mm | mm | Kgs./Km | mm | mm | mm | Kgs./Km | Amps. | Amps. | Mtrs. |
| 2 | 0.70 | 0.30 | 1.80 | 10.90 | 173 | -NA- | 1.40 | 1.24 | 342 | 41 | 36 | 1000 |
| 3 | 0.70 | 0.30 | 1.80 | 11.40 | 202 | -NA- | 1.40 | 1.24 | 360 | 34 | 30 | 1000 |
| 4 | 0.70 | 0.30 | 1.80 | 12.20 | 218 | -NA- | 1.40 | 1.24 | 406 | 34 | 30 | 1000 |
| 5 | 0.70 | 0.30 | 1.80 | 13.10 | 254 | -NA- | 1.40 | 1.24 | 464 | 34 | 30 | 1000 |
| 6 | 0.70 | 0.30 | 1.80 | 14 | 291 | -NA- | 1.40 | 1.24 | 522 | 31 | 27 | 1000 |
| 7 | 0.70 | 0.30 | 1.80 | 14 | 313 | -NA- | 1.40 | 1.24 | 549 | 27 | 23 | 1000 |
| 8 | 0.70 | 0.30 | 1.80 | 16 | 342 | -NA- | 1.40 | 1.24 | 608 | 23 | 20 | 1000 |
| 9 | 0.70 | 0.30 | 1.80 | 16.50 | 385 | -NA- | 1.40 | 1.40 | 684 | 23 | 20 | 1000 |
| 10 | 0.70 | 0.30 | 1.80 | 17.20 | 427 | 4 x 0.80 | 1.60 | 1.40 | 789 | 23 | 20 | 1000 |
| 12 | 0.70 | 0.30 | 1.80 | 17.70 | 484 | 4 x 0.80 | 1.60 | 1.40 | 865 | 20 | 18 | 1000 |
| 14 | 0.70 | 0.30 | 1.80 | 18.50 | 551 | 4 x 0.80 | 1.60 | 1.40 | 944 | 20 | 18 | 1000 |
| 16 | 0.70 | 0.30 | 2 | 19.80 | 636 | 4 x 0.80 | 1.60 | 1.40 | 1023 | 18 | 16 | 1000 |
| 19 | 0.70 | 0.30 | 2 | 20.80 | 722 | 4 x 0.80 | 1.60 | 1.40 | 1147 | 18 | 16 | 1000 |
| 21 | 0.70 | 0.30 | 2 | 21.80 | 769 | 4 x 0.80 | 1.60 | 1.40 | 1243 | 16 | 14 | 500 |
| 24 | 0.70 | 0.30 | 2 | 24 | 864 | 4 x 0.80 | 1.60 | 1.40 | 1387 | 16 | 14 | 500 |
| 27 | 0.70 | 0.30 | 2 | 24.50 | 950 | 4 x 0.80 | 1.60 | 1.40 | 1482 | 14 | 13 | 500 |
| 30 | 0.70 | 0.30 | 2 | 25.30 | 1035 | 4 x 0.80 | 1.60 | 1.40 | 1586 | 14 | 13 | 500 |
| 33 | 0.70 | 0.30 | 2 | 26.20 | 1130 | 4 x 0.80 | 1.60 | 1.56 | 1729 | 14 | 13 | 500 |
| 37 | 0.70 | 0.30 | 2 | 27.20 | 1235 | 4 x 0.80 | 1.60 | 1.56 | 1852 | 14 | 13 | 500 |
| 44 | 0.70 | 0.40 | 2.20 | 30.90 | 1501 | 4 x 0.80 | 2 | 1.56 | 2356 | 12 | 11 | 500 |
| 52 | 0.70 | 0.40 | 2.20 | 32.20 | 1719 | 4 x 0.80 | 2 | 1.56 | 2631 | 12 | 11 | 500 |
| 61 | 0.70 | 0.40 | 2.20 | 34.10 | 1976 | 4 x 0.80 | 2 | 1.56 | 2926 | 12 | 11 | 500 |

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The above data is approximate and subject to manufacturing tolerance.
* Delivery Length tolerance is ±5%. Length more than normal as per customer request.

Table 1 Rating factors for variation in ambient air temperature for cables in free air

| Maximum conductor temperature | Ambient air temperature °C | | | | | | | |
|-------------------------------|----------------------------|------|------|----|------|------|------|------|
| | 15 | 30 | 35 | 40 | 45 | 50 | 55 | 60 |
| °C | | | | | | | | |
| 90 | 1.14 | 1.10 | 1.05 | 1 | 0.96 | 0.89 | 0.87 | 0.77 |

Table 2 Rating factors for variation in ground temperature for direct buried cables

| Maximum conductor temperature | Ground temperature °C | | | | | | | |
|-------------------------------|-----------------------|------|------|----|------|------|------|------|
| | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| °C | | | | | | | | |
| 90 | 1.12 | 1.08 | 1.04 | 1 | 0.96 | 0.91 | 0.87 | 0.82 |

Table 3 Rating factors for variation in ground temperature for cables in ducts

| Maximum conductor temperature | Ground temperature °C | | | | | | | |
|-------------------------------|-----------------------|------|------|----|------|------|------|------|
| | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| °C | | | | | | | | |
| 90 | 1.12 | 1.08 | 1.04 | 1 | 0.96 | 0.91 | 0.87 | 0.82 |

Table 4 Rating factors for depths of laying for direct buried cables

| Depth of laying mm | Up to 25 mm ² | | Above 25 mm ² Up to 300 mm ² | | Above 300 mm ² | |
|--------------------|--------------------------|------------|---|------------|---------------------------|------------|
| | Single-core | Multi-core | Single-core | Multi-core | Single-core | Multi-core |
| 750 | 1 | 1 | 1 | 1 | 1 | 1 |
| 900 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| 1050 | 0.97 | 0.98 | 0.96 | 0.97 | 0.96 | 0.96 |
| 1200 | 0.96 | 0.97 | 0.95 | 0.95 | 0.94 | 0.95 |
| 1500 | 0.94 | 0.95 | 0.93 | 0.93 | 0.92 | 0.93 |
| 1800 | 0.93 | 0.93 | 0.91 | 0.92 | 0.9 | 0.91 |
| 2000 | 0.92 | 0.93 | 0.90 | 0.91 | 0.89 | 0.90 |
| 2500 | 0.90 | 0.92 | 0.89 | 0.89 | 0.87 | 0.88 |
| 3000 | 0.90 | 0.90 | 0.87 | 0.88 | 0.86 | 0.87 |

Table 5 Rating factors for depths of laying for cables in ducts

| Depth of laying mm | Up to 25 mm ² | | Above 25 mm ² Up to 300 mm ² | | Above 300 mm ² | |
|--------------------|--------------------------|------------|---|------------|---------------------------|------------|
| | Single-core | Multi-core | Single-core | Multi-core | Single-core | Multi-core |
| 750 | 1 | 1 | 1 | 1 | 1 | 1 |
| 900 | 0.98 | 0.98 | 0.98 | 0.99 | 0.98 | 0.98 |
| 1050 | 0.97 | 0.98 | 0.96 | 0.97 | 0.96 | 0.97 |
| 1200 | 0.96 | 0.97 | 0.95 | 0.97 | 0.94 | 0.96 |
| 1500 | 0.94 | 0.96 | 0.93 | 0.95 | 0.92 | 0.94 |
| 1800 | 0.93 | 0.95 | 0.91 | 0.94 | 0.90 | 0.93 |
| 2000 | 0.92 | 0.94 | 0.90 | 0.93 | 0.89 | 0.92 |
| 2500 | 0.90 | 0.93 | 0.88 | 0.92 | 0.87 | 0.91 |
| 3000 | 0.89 | 0.92 | 0.87 | 0.91 | 0.86 | 0.90 |

Table 6 Rating factors for variations in soil thermal resistivities for two single-core cables laid direct in ground

| Nominal area of conductor mm ² | Values of soil thermal resistivity K.m/W | | | | | |
|---|--|------|-----|------|------|------|
| | 1 | 1.2 | 1.5 | 2 | 2.5 | 3 |
| 1.50 | 1.16 | 1.09 | 1 | 0.91 | 0.81 | 0.75 |
| 2.50 | 1.16 | 1.09 | 1 | 0.89 | 0.81 | 0.75 |
| 4 | 1.17 | 1.09 | 1 | 0.89 | 0.81 | 0.75 |
| 6 | 1.17 | 1.09 | 1 | 0.89 | 0.81 | 0.75 |
| 10 | 1.17 | 1.09 | 1 | 0.89 | 0.80 | 0.74 |
| 16 | 1.17 | 1.09 | 1 | 0.89 | 0.80 | 0.74 |
| 25 | 1.18 | 1.09 | 1 | 0.89 | 0.80 | 0.74 |
| 35 | 1.18 | 1.10 | 1 | 0.88 | 0.80 | 0.73 |
| 50 | 1.19 | 1.10 | 1 | 0.88 | 0.80 | 0.73 |
| 70 | 1.19 | 1.10 | 1 | 0.88 | 0.80 | 0.73 |
| 95 | 1.19 | 1.10 | 1 | 0.88 | 0.79 | 0.73 |
| 120 | 1.19 | 1.10 | 1 | 0.88 | 0.79 | 0.73 |
| 150 | 1.19 | 1.10 | 1 | 0.88 | 0.79 | 0.73 |
| 185 | 1.19 | 1.10 | 1 | 0.88 | 0.79 | 0.72 |
| 240 | 1.20 | 1.10 | 1 | 0.88 | 0.79 | 0.72 |
| 300 | 1.20 | 1.10 | 1 | 0.88 | 0.79 | 0.72 |
| 400 | 1.20 | 1.10 | 1 | 0.88 | 0.79 | 0.72 |
| 500 | 1.20 | 1.11 | 1 | 0.87 | 0.79 | 0.72 |
| 630 | 1.20 | 1.11 | 1 | 0.87 | 0.79 | 0.72 |
| 800 | 1.20 | 1.11 | 1 | 0.87 | 0.79 | 0.72 |
| 1000 | 1.20 | 1.11 | 1 | 0.87 | 0.79 | 0.72 |

■ **Table 7 Rating factors for variations in soil thermal resistivities for two single-core cables laid in buried duct**

| Nominal area of conductor mm ² | Values of soil thermal resistivity K.m/W | | | | | |
|---|--|------|-----|------|------|------|
| | 1 | 1.2 | 1.5 | 2 | 2.5 | 3 |
| 1.50 | 1.16 | 1.09 | 1 | 0.91 | 0.81 | 0.75 |
| 2.50 | 1.16 | 1.09 | 1 | 0.89 | 0.81 | 0.75 |
| 4 | 1.17 | 1.09 | 1 | 0.89 | 0.81 | 0.75 |
| 6 | 1.17 | 1.09 | 1 | 0.89 | 0.81 | 0.75 |
| 10 | 1.17 | 1.09 | 1 | 0.89 | 0.80 | 0.74 |
| 16 | 1.17 | 1.09 | 1 | 0.89 | 0.80 | 0.74 |
| 25 | 1.18 | 1.09 | 1 | 0.89 | 0.80 | 0.74 |
| 35 | 1.18 | 1.10 | 1 | 0.88 | 0.80 | 0.73 |
| 50 | 1.19 | 1.10 | 1 | 0.88 | 0.80 | 0.73 |
| 70 | 1.19 | 1.10 | 1 | 0.88 | 0.80 | 0.73 |
| 95 | 1.19 | 1.10 | 1 | 0.88 | 0.79 | 0.73 |
| 120 | 1.19 | 1.10 | 1 | 0.88 | 0.79 | 0.73 |
| 150 | 1.19 | 1.10 | 1 | 0.88 | 0.79 | 0.73 |
| 185 | 1.19 | 1.10 | 1 | 0.88 | 0.79 | 0.72 |
| 240 | 1.20 | 1.10 | 1 | 0.88 | 0.79 | 0.72 |
| 300 | 1.20 | 1.10 | 1 | 0.88 | 0.79 | 0.72 |
| 400 | 1.20 | 1.10 | 1 | 0.88 | 0.79 | 0.72 |
| 500 | 1.20 | 1.11 | 1 | 0.87 | 0.79 | 0.72 |
| 630 | 1.20 | 1.11 | 1 | 0.87 | 0.79 | 0.72 |
| 800 | 1.20 | 1.11 | 1 | 0.87 | 0.79 | 0.72 |
| 1000 | 1.20 | 1.11 | 1 | 0.87 | 0.79 | 0.72 |

■ **Table 8 Rating factors for variations in soil thermal resistivities for three single-core cables laid direct in ground**

| Nominal area of conductor mm ² | Values of soil thermal resistivity K.m/W | | | | | |
|---|--|------|-----|------|------|------|
| | 1 | 1.2 | 1.5 | 2 | 2.5 | 3 |
| 1.50 | 1.14 | 1.07 | 1 | 0.89 | 0.80 | 0.75 |
| 2.50 | 1.17 | 1.08 | 1 | 0.89 | 0.80 | 0.75 |
| 4 | 1.17 | 1.09 | 1 | 0.88 | 0.79 | 0.73 |
| 6 | 1.17 | 1.09 | 1 | 0.88 | 0.79 | 0.73 |
| 10 | 1.18 | 1.09 | 1 | 0.88 | 0.79 | 0.73 |
| 16 | 1.18 | 1.10 | 1 | 0.88 | 0.79 | 0.72 |
| 25 | 1.19 | 1.10 | 1 | 0.88 | 0.79 | 0.72 |
| 35 | 1.19 | 1.10 | 1 | 0.88 | 0.79 | 0.72 |
| 50 | 1.19 | 1.10 | 1 | 0.88 | 0.79 | 0.72 |
| 70 | 1.20 | 1.11 | 1 | 0.88 | 0.79 | 0.72 |
| 95 | 1.20 | 1.11 | 1 | 0.87 | 0.79 | 0.72 |
| 120 | 1.20 | 1.11 | 1 | 0.87 | 0.79 | 0.72 |
| 150 | 1.20 | 1.11 | 1 | 0.87 | 0.79 | 0.72 |
| 185 | 1.20 | 1.11 | 1 | 0.87 | 0.78 | 0.72 |
| 240 | 1.20 | 1.11 | 1 | 0.87 | 0.78 | 0.72 |
| 300 | 1.20 | 1.11 | 1 | 0.87 | 0.78 | 0.72 |
| 400 | 1.20 | 1.11 | 1 | 0.87 | 0.78 | 0.72 |
| 500 | 1.21 | 1.11 | 1 | 0.87 | 0.78 | 0.72 |
| 630 | 1.21 | 1.11 | 1 | 0.87 | 0.78 | 0.72 |
| 800 | 1.21 | 1.11 | 1 | 0.87 | 0.78 | 0.72 |
| 1000 | 1.21 | 1.11 | 1 | 0.87 | 0.78 | 0.72 |

■ **Table 9 Rating factors for variations in soil thermal resistivities for three single-core cables laid in buried duct**

| Nominal area of conductor mm ² | Values of soil thermal resistivity K.m/W | | | | | |
|---|--|------|-----|------|------|------|
| | 1 | 1.2 | 1.5 | 2 | 2.5 | 3 |
| 1.50 | 1.08 | 1.04 | 1 | 0.92 | 0.88 | 0.84 |
| 2.50 | 1.08 | 1.05 | 1 | 0.93 | 0.88 | 0.84 |
| 4 | 1.08 | 1.05 | 1 | 0.93 | 0.87 | 0.83 |
| 6 | 1.09 | 1.06 | 1 | 0.93 | 0.87 | 0.83 |
| 10 | 1.10 | 1.06 | 1 | 0.93 | 0.87 | 0.82 |
| 16 | 1.10 | 1.06 | 1 | 0.93 | 0.87 | 0.82 |
| 25 | 1.10 | 1.06 | 1 | 0.93 | 0.87 | 0.82 |
| 35 | 1.10 | 1.06 | 1 | 0.93 | 0.86 | 0.81 |
| 50 | 1.11 | 1.06 | 1 | 0.92 | 0.86 | 0.81 |
| 70 | 1.11 | 1.06 | 1 | 0.92 | 0.86 | 0.80 |
| 95 | 1.12 | 1.06 | 1 | 0.92 | 0.85 | 0.80 |
| 120 | 1.12 | 1.06 | 1 | 0.91 | 0.85 | 0.79 |
| 150 | 1.12 | 1.07 | 1 | 0.91 | 0.85 | 0.79 |
| 185 | 1.12 | 1.07 | 1 | 0.91 | 0.84 | 0.79 |
| 240 | 1.12 | 1.07 | 1 | 0.91 | 0.84 | 0.78 |
| 300 | 1.13 | 1.07 | 1 | 0.91 | 0.84 | 0.78 |
| 400 | 1.13 | 1.07 | 1 | 0.91 | 0.84 | 0.78 |
| 500 | 1.13 | 1.07 | 1 | 0.90 | 0.83 | 0.78 |
| 630 | 1.13 | 1.07 | 1 | 0.90 | 0.83 | 0.77 |
| 800 | 1.14 | 1.08 | 1 | 0.90 | 0.83 | 0.77 |
| 1000 | 1.14 | 1.08 | 1 | 0.90 | 0.82 | 0.77 |

■ **Table 10 Rating factors for variations in soil thermal resistivities for multi-core cables laid direct in ground**

| Nominal area of conductor mm ² | Values of soil thermal resistivity K.m/W | | | | | |
|---|--|------|-----|------|------|------|
| | 1 | 1.2 | 1.5 | 2 | 2.5 | 3 |
| 1.50 | 1.14 | 1.08 | 1 | 0.90 | 0.83 | 0.77 |
| 2.50 | 1.15 | 1.08 | 1 | 0.90 | 0.82 | 0.76 |
| 4 | 1.15 | 1.08 | 1 | 0.89 | 0.82 | 0.76 |
| 6 | 1.16 | 1.09 | 1 | 0.89 | 0.81 | 0.75 |
| 10 | 1.16 | 1.09 | 1 | 0.89 | 0.81 | 0.75 |
| 16 | 1.17 | 1.09 | 1 | 0.89 | 0.80 | 0.74 |
| 25 | 1.17 | 1.09 | 1 | 0.89 | 0.80 | 0.74 |
| 35 | 1.18 | 1.10 | 1 | 0.88 | 0.80 | 0.74 |
| 50 | 1.18 | 1.10 | 1 | 0.88 | 0.80 | 0.74 |
| 70 | 1.18 | 1.10 | 1 | 0.88 | 0.80 | 0.74 |
| 95 | 1.18 | 1.10 | 1 | 0.88 | 0.80 | 0.73 |
| 120 | 1.18 | 1.10 | 1 | 0.88 | 0.80 | 0.73 |
| 150 | 1.18 | 1.10 | 1 | 0.88 | 0.80 | 0.73 |
| 185 | 1.18 | 1.10 | 1 | 0.88 | 0.80 | 0.73 |
| 240 | 1.19 | 1.10 | 1 | 0.88 | 0.80 | 0.73 |
| 300 | 1.19 | 1.10 | 1 | 0.88 | 0.80 | 0.73 |
| 400 | 1.19 | 1.10 | 1 | 0.88 | 0.80 | 0.73 |
| 500 | 1.19 | 1.10 | 1 | 0.88 | 0.80 | 0.73 |
| 630 | 1.19 | 1.10 | 1 | 0.88 | 0.80 | 0.73 |

Table II Rating factors for variations in soil thermal resistivities for multi-core cables laid in buried duct

| Nominal area of conductor mm ² | Values of soil thermal resistivity K.m/W | | | | | |
|---|--|------|-----|------|------|------|
| | 1 | 1.2 | 1.5 | 2 | 2.5 | 3 |
| 1.50 | 1.05 | 1.03 | 1 | 0.96 | 0.92 | 0.88 |
| 2.50 | 1.05 | 1.03 | 1 | 0.95 | 0.91 | 0.88 |
| 4 | 1.06 | 1.03 | 1 | 0.95 | 0.91 | 0.87 |
| 6 | 1.06 | 1.03 | 1 | 0.95 | 0.91 | 0.87 |
| 10 | 1.06 | 1.04 | 1 | 0.95 | 0.90 | 0.86 |
| 16 | 1.06 | 1.04 | 1 | 0.95 | 0.90 | 0.86 |
| 25 | 1.07 | 1.04 | 1 | 0.95 | 0.90 | 0.86 |
| 35 | 1.07 | 1.04 | 1 | 0.94 | 0.90 | 0.85 |
| 50 | 1.07 | 1.04 | 1 | 0.94 | 0.89 | 0.85 |
| 70 | 1.07 | 1.04 | 1 | 0.94 | 0.89 | 0.84 |
| 95 | 1.08 | 1.04 | 1 | 0.94 | 0.88 | 0.84 |
| 120 | 1.08 | 1.05 | 1 | 0.94 | 0.88 | 0.84 |
| 150 | 1.08 | 1.05 | 1 | 0.93 | 0.88 | 0.83 |
| 185 | 1.08 | 1.05 | 1 | 0.93 | 0.88 | 0.83 |
| 240 | 1.09 | 1.05 | 1 | 0.93 | 0.87 | 0.83 |
| 300 | 1.09 | 1.05 | 1 | 0.93 | 0.87 | 0.82 |
| 400 | 1.09 | 1.05 | 1 | 0.93 | 0.87 | 0.82 |
| 500 | 1.09 | 1.05 | 1 | 0.93 | 0.87 | 0.82 |
| 630 | 1.10 | 1.06 | 1 | 0.92 | 0.86 | 0.81 |

■ **Table 12 Current rating (D.C.) for Two single core cable with XLPE Insulation and rated voltage 1500 V**

| Nominal area of conductor mm ² | Buried Direct in the Ground | | In Single-Way Ducts | | In Air | |
|---|-----------------------------|-----------|---------------------|-----------|--------|-----------|
| | Copper | Aluminium | Copper | Aluminium | Copper | Aluminium |
| 1.50 | 32 | 26 | 27 | 22 | 28 | 22 |
| 2.50 | 42 | 32 | 36 | 28 | 37 | 28 |
| 4 | 54 | | 46 | 36 | 48 | 38 |
| 6 | 67 | 55 | 57 | 47 | 61 | 50 |
| 10 | 90 | 69 | 76 | 58 | 83 | 64 |
| 16 | 115 | 89 | 97 | 75 | 108 | 84 |
| 25 | 148 | 115 | 124 | 96 | 144 | 112 |
| 35 | 177 | 137 | 148 | 115 | 176 | 137 |
| 50 | 208 | 161 | 174 | 135 | 212 | 165 |
| 70 | 255 | 198 | 213 | 165 | 269 | 209 |
| 95 | 314 | 243 | 258 | 200 | 342 | 265 |
| 120 | 358 | 278 | 293 | 227 | 399 | 310 |
| 150 | 401 | 310 | 328 | 254 | 455 | 352 |
| 185 | 455 | 352 | 371 | 288 | 528 | 409 |
| 240 | 528 | 409 | 431 | 334 | 628 | 487 |
| 300 | 598 | 463 | 487 | 377 | 726 | 561 |
| 400 | 687 | 533 | 558 | 433 | 857 | 664 |
| 500 | 790 | 613 | 640 | 497 | 1008 | 782 |
| 630 | 911 | 705 | 736 | 570 | 1189 | 921 |
| 800 | 1046 | 809 | 843 | 652 | 1398 | 1082 |
| 1000 | 1190 | 923 | 956 | 741 | 1629 | 1264 |

■ **Table 13 Current rating (D.C.) for Two core cable with XLPE Insulation and rated voltage 1500 V**

| Nominal area of conductor mm ² | Buried Direct in the Ground | | In Single-Way Ducts | | In Air | |
|---|-----------------------------|-----------|---------------------|-----------|--------|-----------|
| | Copper | Aluminium | Copper | Aluminium | Copper | Aluminium |
| 1.50 | 31 | 26 | 27 | 22 | 27 | 22 |
| 2.50 | 41 | 32 | 35 | 27 | 36 | 28 |
| 4 | 54 | 42 | 45 | 36 | 48 | 38 |
| 6 | 67 | 55 | 56 | 46 | 61 | 50 |
| 10 | 89 | 68 | 75 | 57 | 83 | 64 |
| 16 | 115 | 89 | 96 | 74 | 108 | 84 |
| 25 | 147 | 114 | 122 | 95 | 141 | 109 |
| 35 | 176 | 137 | 146 | 113 | 172 | 133 |
| 50 | 209 | 162 | 174 | 134 | 209 | 162 |
| 70 | 256 | 198 | 213 | 165 | 265 | 205 |
| 95 | 306 | 237 | 255 | 198 | 326 | 253 |
| 120 | 347 | 269 | 290 | 225 | 375 | 290 |
| 150 | 389 | 301 | 326 | 252 | 430 | 332 |
| 185 | 441 | 342 | 370 | 287 | 498 | 386 |
| 240 | 513 | 397 | 432 | 334 | 595 | 461 |
| 300 | 581 | 449 | 490 | 379 | 689 | 533 |
| 400 | 666 | 516 | 563 | 436 | 807 | 626 |
| 500 | 764 | 593 | 647 | 502 | 948 | 735 |
| 630 | 883 | 684 | 749 | 580 | 1123 | 870 |

Group Rating Factors

■ **Table 1 Group rating factors for circuits of two single-core cables laid direct in the ground, horizontal formation**

| Number of circuits | Spacing between group centres mm | | | | |
|--------------------|----------------------------------|------|------|------|------|
| | Touching | 150 | 300 | 450 | 600 |
| 2 | 0.80 | 0.85 | 0.90 | 0.92 | 0.95 |
| 3 | 0.70 | 0.78 | 0.85 | 0.88 | 0.91 |
| 4 | 0.64 | 0.73 | 0.81 | 0.86 | 0.89 |
| 5 | 0.59 | 0.70 | 0.79 | 0.84 | 0.88 |
| 6 | 0.55 | 0.67 | 0.77 | 0.83 | 0.87 |
| 7 | 0.53 | 0.65 | 0.76 | 0.82 | 0.86 |
| 8 | 0.51 | 0.64 | 0.75 | 0.82 | 0.86 |
| 9 | 0.49 | 0.63 | 0.74 | 0.81 | 0.85 |
| 10 | 0.48 | 0.63 | 0.74 | 0.81 | 0.85 |
| 11 | 0.47 | 0.62 | 0.73 | 0.80 | 0.84 |
| 12 | 0.46 | 0.61 | 0.73 | 0.80 | 0.84 |

■ **Table 2 Group rating factors for circuits of three single-core cables laid direct in the ground, horizontal formation**

| Number of circuits | Spacing between group centres mm | | | | |
|--------------------|----------------------------------|------|------|------|------|
| | Touching | 150 | 300 | 450 | 600 |
| 2 | 0.77 | 0.81 | 0.86 | 0.88 | 0.89 |
| 3 | 0.67 | 0.71 | 0.78 | 0.81 | 0.83 |
| 4 | 0.61 | 0.64 | 0.72 | 0.76 | 0.80 |
| 5 | 0.57 | 0.60 | 0.69 | 0.74 | 0.77 |
| 6 | 0.53 | 0.57 | 0.66 | 0.72 | 0.75 |
| 7 | 0.51 | 0.55 | 0.64 | 0.70 | 0.74 |
| 8 | 0.49 | 0.53 | 0.63 | 0.69 | 0.73 |
| 9 | 0.47 | 0.52 | 0.62 | 0.68 | 0.73 |
| 10 | 0.45 | 0.51 | 0.61 | 0.67 | 0.72 |
| 11 | 0.44 | 0.50 | 0.60 | 0.66 | 0.72 |
| 12 | 0.43 | 0.49 | 0.59 | 0.65 | 0.71 |

■ **Table 3 Group rating factors for circuits of three single-core cables in single-way ducts**

| Number of circuits | Spacing between duct group centres mm | | | | |
|--------------------|---------------------------------------|------|------|------|------|
| | Touching | 150 | 300 | 450 | 600 |
| 2 | 0.78 | 0.83 | 0.87 | 0.90 | 0.91 |
| 3 | 0.66 | 0.73 | 0.78 | 0.82 | 0.85 |
| 4 | 0.59 | 0.67 | 0.74 | 0.78 | 0.82 |
| 5 | 0.55 | 0.63 | 0.70 | 0.76 | 0.80 |
| 6 | 0.51 | 0.61 | 0.68 | 0.74 | 0.78 |
| 7 | 0.48 | 0.58 | 0.66 | 0.73 | 0.77 |
| 8 | 0.46 | 0.57 | 0.65 | 0.72 | 0.76 |
| 9 | 0.44 | 0.55 | 0.64 | 0.71 | 0.76 |
| 10 | 0.43 | 0.54 | 0.63 | 0.70 | - |
| 11 | 0.42 | 0.53 | 0.62 | 0.69 | - |
| 12 | 0.40 | 0.51 | 0.61 | 0.69 | - |

■ **Table 4 Group rating factors for multi-core cables laid direct in the ground, in tier formation**

| Number of cables | Number of tiers | Spacing between cable centres mm | | | | |
|------------------|-----------------|----------------------------------|------|------|------|------|
| | | Touching | 150 | 300 | 450 | 600 |
| 2 | 1 | 0.80 | 0.84 | 0.87 | 0.90 | 0.91 |
| 3 | 1 | 0.68 | 0.74 | 0.79 | 0.83 | 0.86 |
| 4 | 2 | 0.60 | 0.66 | 0.73 | 0.77 | 0.79 |
| 5 | 2 | 0.55 | 0.61 | 0.68 | 0.71 | 0.73 |
| 6 | 2 | 0.51 | 0.57 | 0.63 | 0.67 | 0.69 |
| 7 | 3 | 0.48 | 0.54 | 0.59 | 0.63 | 0.64 |
| 8 | 3 | 0.46 | 0.51 | 0.56 | 0.60 | 0.61 |
| 9 | 3 | 0.44 | 0.48 | 0.53 | 0.57 | 0.58 |
| 10 | 4 | 0.42 | 0.47 | 0.52 | 0.55 | 0.56 |
| 11 | 4 | 0.41 | 0.46 | 0.50 | 0.54 | 0.55 |
| 12 | 4 | 0.40 | 0.45 | 0.49 | 0.53 | 0.54 |

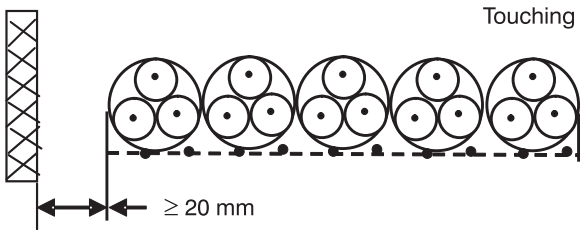
■ **Table 5 Group rating factors for multi-core cables laid direct in the ground, in horizontal formation**

| Number of cables | Spacing between cable centres mm | | | | |
|------------------|----------------------------------|------|------|------|------|
| | Touching | 150 | 300 | 450 | 600 |
| 2 | 0.80 | 0.84 | 0.87 | 0.90 | 0.91 |
| 3 | 0.68 | 0.74 | 0.79 | 0.83 | 0.86 |
| 4 | 0.62 | 0.69 | 0.75 | 0.80 | 0.83 |
| 5 | 0.58 | 0.65 | 0.72 | 0.77 | 0.80 |
| 6 | 0.55 | 0.62 | 0.69 | 0.75 | 0.78 |
| 7 | 0.52 | 0.59 | 0.67 | 0.73 | 0.77 |
| 8 | 0.50 | 0.57 | 0.66 | 0.72 | 0.75 |
| 9 | 0.48 | 0.55 | 0.65 | 0.71 | 0.75 |
| 10 | 0.46 | 0.54 | 0.64 | 0.70 | 0.74 |
| 11 | 0.45 | 0.53 | 0.63 | 0.70 | 0.74 |
| 12 | 0.44 | 0.52 | 0.62 | 0.69 | 0.73 |

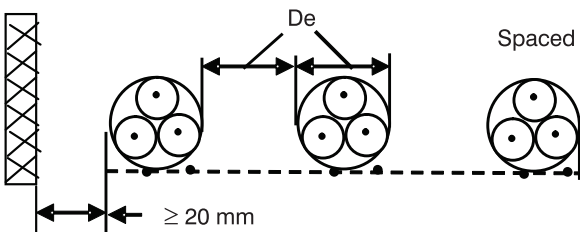
■ **Table 6 Group rating factors for three-core cables in single way ducts in horizontal formation**

| Number of cables | Spacing between duct group centres mm | | | | |
|------------------|---------------------------------------|------|------|------|------|
| | Touching | 150 | 300 | 450 | 600 |
| 2 | 0.85 | 0.87 | 0.90 | 0.92 | 0.94 |
| 3 | 0.75 | 0.79 | 0.83 | 0.86 | 0.88 |
| 4 | 0.69 | 0.74 | 0.79 | 0.83 | 0.86 |
| 5 | 0.65 | 0.70 | 0.76 | 0.80 | 0.84 |
| 6 | 0.62 | 0.67 | 0.73 | 0.79 | 0.83 |
| 7 | 0.59 | 0.65 | 0.72 | 0.78 | 0.82 |
| 8 | 0.57 | 0.63 | 0.70 | 0.77 | 0.81 |
| 9 | 0.55 | 0.62 | 0.69 | 0.76 | 0.80 |
| 10 | 0.54 | 0.61 | 0.68 | 0.75 | - |
| 11 | 0.52 | 0.60 | 0.68 | 0.75 | - |
| 12 | 0.51 | 0.59 | 0.67 | 0.74 | - |

Table 7 Group rating factors for multi-core cables in air on perforated trays



| Number of trays | Number of Cables | | | | | |
|-----------------|------------------|------|------|------|------|------|
| | 1 | 2 | 3 | 4 | 6 | 9 |
| 1 | 1 | 0.88 | 0.82 | 0.79 | 0.76 | 0.73 |
| 2 | 1 | 0.87 | 0.80 | 0.77 | 0.73 | 0.68 |
| 3 | 1 | 0.86 | 0.79 | 0.76 | 0.71 | 0.66 |

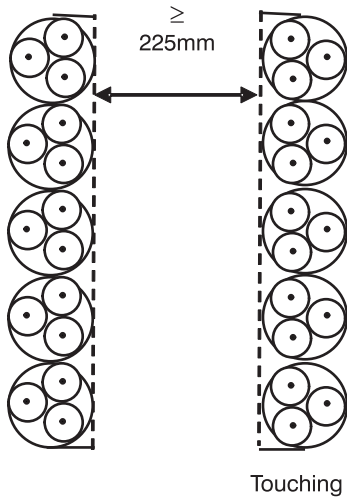


| Number of trays | Number of Cables | | | | | |
|-----------------|------------------|------|------|------|------|---|
| | 1 | 2 | 3 | 4 | 6 | 9 |
| 1 | 1 | 1 | 0.98 | 0.95 | 0.91 | - |
| 2 | 1 | 0.99 | 0.96 | 0.92 | 0.87 | - |
| 3 | 1 | 0.98 | 0.95 | 0.91 | 0.85 | - |

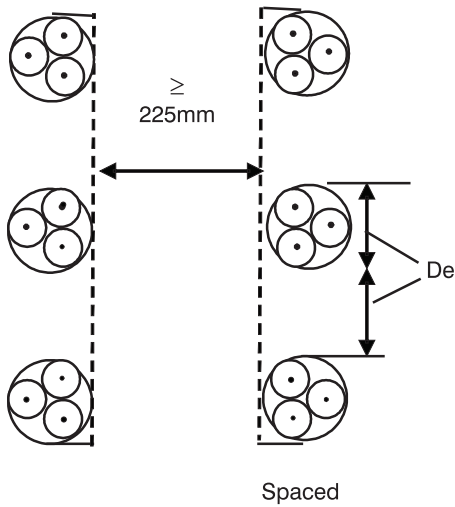
NOTE: 1 Factors apply to single layer groups of cables as shown above. Factors for cables installed in more than one layer touching each other will be significantly lower and must be determined by an appropriate method.

NOTE: 2 Factors are given for vertical spacing between trays of 300 mm and at least 20 mm between trays and wall. For closer spacing, the factors should be reduced.

■ Table 8 Group rating factors for multi-core cables in air on vertical perforated trays



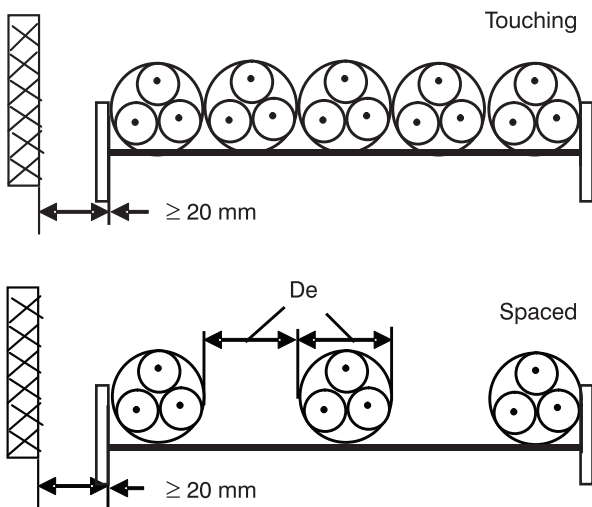
| Number of trays | Number of Cables | | | | | |
|-----------------|------------------|------|------|------|------|------|
| | 1 | 2 | 3 | 4 | 6 | 9 |
| 1 | 1 | 0.88 | 0.82 | 0.78 | 0.73 | 0.72 |
| 2 | 1 | 0.88 | 0.81 | 0.76 | 0.71 | 0.70 |



| Number of trays | Number of Cables | | | | | |
|-----------------|------------------|------|------|------|------|---|
| | 1 | 2 | 3 | 4 | 6 | 9 |
| 1 | 1 | 0.91 | 0.89 | 0.88 | 0.87 | - |
| 2 | 1 | 0.91 | 0.88 | 0.87 | 0.85 | - |

NOTE: 1 Factors are given for horizontal spacing between trays of 225 mm with trays mounted back to back. For closer spacing, the factors should be reduced.

Table 9 Group rating factors for multi-core cables in air on ladder supports, cleats, etc

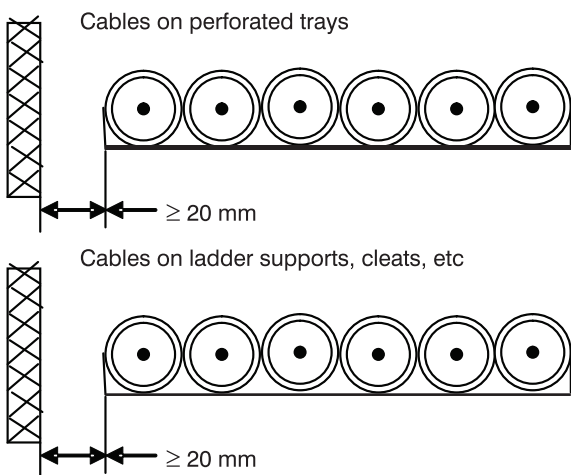


| Number of trays | Number of Cables | | | | | |
|-----------------|------------------|------|------|------|------|------|
| | 1 | 2 | 3 | 4 | 6 | 9 |
| 1 | 1 | 0.87 | 0.82 | 0.80 | 0.79 | 0.78 |
| 2 | 1 | 0.86 | 0.80 | 0.78 | 0.76 | 0.73 |
| 3 | 1 | 0.85 | 0.79 | 0.76 | 0.73 | 0.70 |
| 1 | 1 | 1 | 1 | 1 | 1 | - |
| 2 | 1 | 0.99 | 0.98 | 0.97 | 0.96 | - |
| 3 | 1 | 0.98 | 0.97 | 0.96 | 0.93 | - |

NOTE: 1 Factors apply to single layer groups of cables as shown above. Factors for cables installed in more than one layer touching each other will be significantly lower and must be determined by an appropriate method.

NOTE: 2 Factors are given for vertical spacing between trays of 300 mm and at least 20 mm between trays and wall. For closer spacing, the factors should be reduced.

Table 10 Group rating factors to be applied for circuits of three single core cables in air flat touching



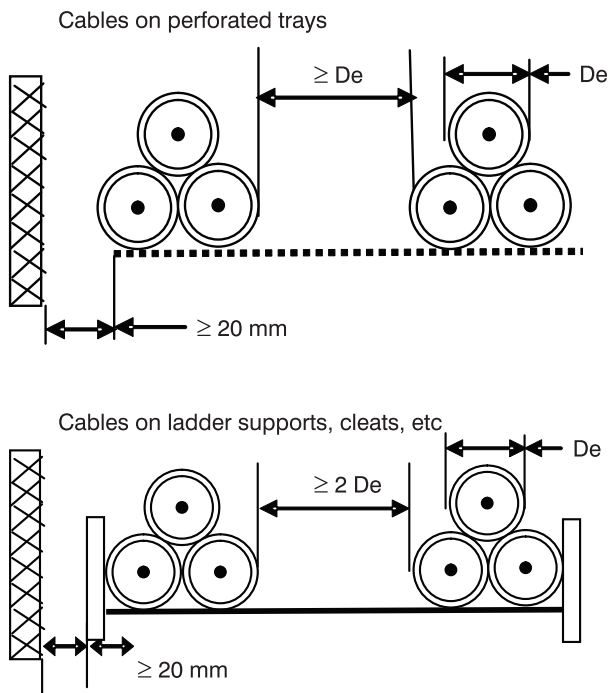
| Number of trays | Number of three-phase circuits | | |
|-----------------|--------------------------------|------|------|
| | 1 | 2 | 3 |
| 1 | 0.98 | 0.91 | 0.87 |
| 2 | 0.96 | 0.87 | 0.81 |
| 3 | 0.95 | 0.85 | 0.78 |
| 1 | 1 | 0.97 | 0.96 |
| 2 | 0.98 | 0.93 | 0.89 |
| 3 | 0.97 | 0.90 | 0.86 |

NOTE: 1 Factors are given for single layers of cables as shown above. Factors for cables installed in more than one layer touching each other will be significantly lower and must be determined by an appropriate method.

NOTE: 2 Factors are given for vertical spacing between trays of 300 mm and at least 20 mm between trays and wall. For closer spacing, the factors should be reduced.

NOTE: 3 For circuits having more than one cable in parallel per phase, each three phase set of conductors should be considered as a circuit for the purpose of this table.

■ **Table II Group rating to be applied for circuits of three single core cables in air on perforated trays and ladder air on perforated trays and ladder supports in trefoil formation**



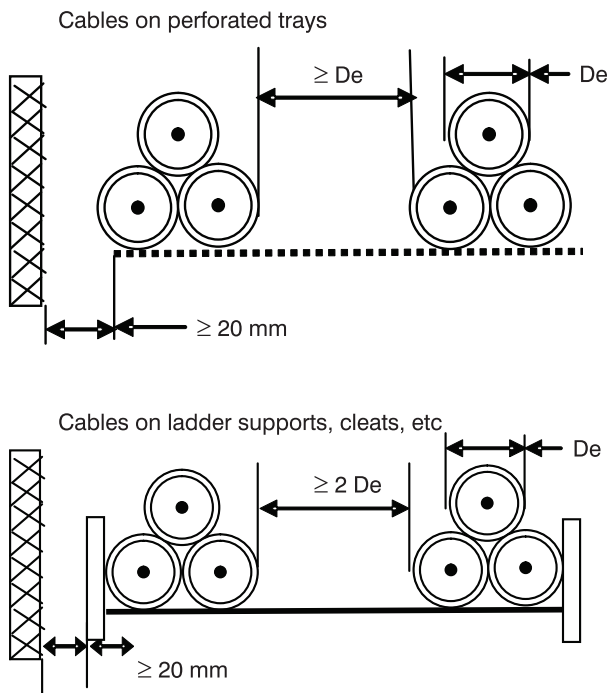
| Number of trays | Number of three-phase circuits | | |
|-----------------|--------------------------------|------|------|
| | 1 | 2 | 3 |
| 1 | 1 | 0.98 | 0.96 |
| 2 | 0.97 | 0.93 | 0.89 |
| 3 | 0.96 | 0.92 | 0.86 |
| 1 | 1 | 1 | 1 |
| 2 | 0.97 | 0.95 | 0.93 |
| 3 | 0.96 | 0.94 | 0.90 |

NOTE: 1 Factors are given for single layers of trefoil groups as shown above. Factors for trefoil groups installed in more than one layer touching each other will be significantly lower and must be determined by an appropriate method.

NOTE: 2 Factors are given for vertical spacing between trays of 300 mm and at least 20 mm between trays and wall. For closer spacing, the factors should be reduced.

NOTE: 3 For circuits having more than one cable in parallel per phase, each three phase set of conductors should be considered as a circuit for the purpose of this table.

■ **Table II Group rating to be applied for circuits of three single core cables in air on perforated trays and ladder air on perforated trays and ladder supports in trefoil formation**



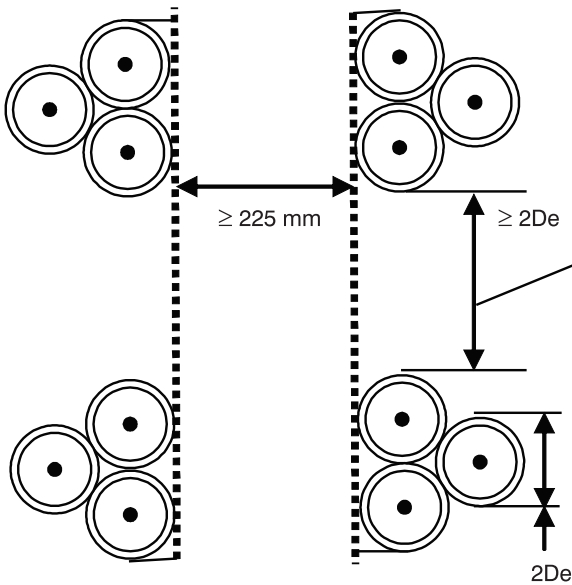
| Number of trays | Number of three-phase circuits | | |
|-----------------|--------------------------------|------|------|
| | 1 | 2 | 3 |
| 1 | 1 | 0.98 | 0.96 |
| 2 | 0.97 | 0.93 | 0.89 |
| 3 | 0.96 | 0.92 | 0.86 |
| 1 | 1 | 1 | 1 |
| 2 | 0.97 | 0.95 | 0.93 |
| 3 | 0.96 | 0.94 | 0.90 |

NOTE: 1 Factors are given for single layers of trefoil groups as shown above. Factors for trefoil groups installed in more than one layer touching each other will be significantly lower and must be determined by an appropriate method.

NOTE: 2 Factors are given for vertical spacing between trays of 300 mm and at least 20 mm between trays and wall. For closer spacing, the factors should be reduced.

NOTE: 3 For circuits having more than one cable in parallel per phase, each three phase set of conductors should be considered as a circuit for the purpose of this table.

■ **Table 12 Group rating factors to be applied for circuits of three single core cables in air on vertical perforated trays in trefoil formation**



| Number of trays | Number of three-phase circuits | | |
|-----------------|--------------------------------|------|------|
| | 1 | 2 | 3 |
| 1 | 1 | 0.91 | 0.89 |
| 2 | 1 | 0.90 | 0.86 |

NOTE: 1 Factors are given for single layers of trefoil groups as shown above. Factors for trefoil groups installed in more than one layer touching each other will be significantly lower and must be determined by an appropriate method.

NOTE: 2 Factors are given for horizontal spacing between vertical trays of 225 mm with trays mounted back to back. For closer spacing, the factors should be reduced.

NOTE: 3 For circuits having more than one cable in parallel per phase, each three phase set of conductors should be considered as a circuit for the purpose of this table.

A. Cable Inspection

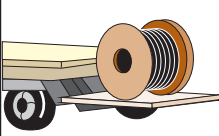
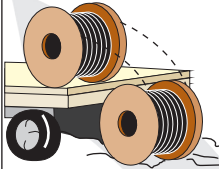
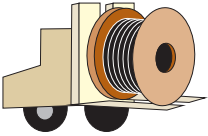
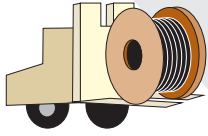
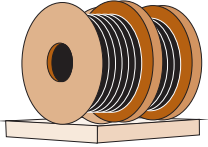
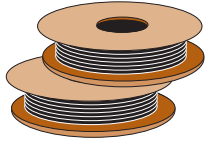
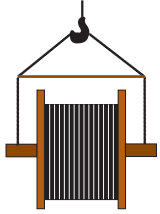
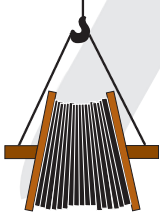
Inspect every cable reel for damage before accepting the shipment. Be particularly alert for cable damage if:

1. A reel lying flat on its side
2. Several reels are stacked
3. Other freight is stacked on a reel
4. Nails have been driven into reel flanges to secure shipping blocks
5. A reel flange is damaged
6. A cable covering is removed, stained or damaged
7. A cable end seal is removed or damaged. A reel has been dropped (hidden damage likely)

B. Cable Handling & Storage

Damage to cables can occur due to the incorrect handling to which the drum sand cables may be subjected; causing breakdown of the drum flanges and in exceptional cases, movement of the drum barrel takes place. Once this breakdown of the drum occurs, the cable is immediately exposed to damage. Cables damaged during handling & storage can cause service failures when the subject cable is put to use.

Thus the following is a list of Dos and Don'ts that should be followed while handling and storing the cables before it is put to use.

| Dos | | Donts | |
|---|---|---|--|
|  | When off loading reels from a truck, lower reels carefully using a hydraulic gate, hoist or fork lift truck. |  | Never drop reels. If reels must be rolled, roll in opposite direction of the cable wraps to keep cable from loosening on the reel. |
|  | If a fork lift is used, approach the reel from the flange side. Position the forks such that the reel is lifted by both reel flanges. Also consideration should be given to, traffic patterns during off-loading & damage during the time in storage. |  | Do not allow the lift forks to contact the cable. Care must be taken by the fork lift operator not to make sudden turns or stops. |
|  | Cable reels should be stored on hard surface resting on the flanges edge (flanges vertical). Align reel flange to flange and, if possible, arrange so that first in is first out. |  | Multiple reels stacked on top of each other (Pancake Storage) is not recommended for cable drums. The weight of the stack can total thousands of kgs. can create an enormous load on the bottom reel. Also, damage to three land/ or cable will likely occur when the reel is flipped for transit. A concentration of stress on the reel flange may cause it to break and subsequently damage the cable. |
|  | When using a hoist, install a mandrel through the reel arbor holes and attach asling. Use a spreader bar approximately 6 inches longer than the overall reel width placed between the sling ends just above the reel flanges. |  | This may lead to the bending of the reel flanges and mashing the cable |



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NAGPUR : Shree Ganesh Enclave, Plot No. 12, 1st Floor, Near ST Stand, Ganeshpeth, Nagpur - 440018

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HUBLI : Shop No. 99 to 119, 4th floor, Satellite Complex, Koppikar Road, Hubli - 580020, Tel. 0836 4259866

COIMBATORE : Kaanchan, Gr. Floor, No. 9, North Huzur Road, Coimbatore - 641018. Tel. 0422 2305339

CHENNAI : Gee Gee Universal, 8th Floor, No. 2, Mc Nichols Road, 3rd Lane, Near Metha Hospital, Chetpet, Chennai - 600 031. Tel. 044 42817272

SECUNDERABAD : 208-209, 2nd Floor Bhuvana Towers, S. D. Road, Secunderabad - 500003, Tel. 040 66326228

VIJAYAWADA : Plot No. 77, House No. 40-5/7-6, 3rd Cross, Municipal Employees Colony, Vijayawada - 520010. Tel. 0866 6601666

VISAKHAPATNAM : 3rd Floor, Krishna Enclave, Seethammapeta Main Road, Visakhapatnam - 530016.