POLYCAB



INTERNATIONAL TECHNICAL CATALOGUE









2025-26



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Dear Customers,

The journey of over 4 decades would not have been as exciting and fulflling without the unconditional support of all our customers & our sales partners, I would like to express our deep gratitude to you for you all have made Polycab as one of the outstanding companies in our industry.

The advent of the second millennium has brought in its wake a transformation in the mindset of the customers. The expectation of customer has risen exponentially. This trend is here to stay and we have to gear up towards keeping our customers totally satisfed.

Despite our rapid growth and elevation to the leadership position in the industry, the simplicity in Polycab's flexibility and openness to new market trends and changing technology continue to be our driving force. The core values of, simplicity, team work, trust amongst people, customer focus and meeting commitments have given us a unique position and respectability among the Indian industry, gearing up for the future and to keep winning in tomorrow's world, we have our well recognized market presence with a strong product portfolio, streamlined and effcient manufacturing capabilities to withstand the winds of change. But we will need to be even more proactive, agile and customer centric, We will need to anticipate the future and be ready with solutions, even before the customer asks for them.

There are many new challenges the cable industry is facing with new market opportunities and product developments, due to thrust in renewable energy sector, We have enthusiastically achieved success towards developing and delivering products for this segment and at the same time ensured to be internationally competitive. Polycab's business model is evolving. We have identified focus areas of growth over the next 5 years and beyond. Polycab will diversify into adjacent product categories such as Lighting, Luminaires, Switches, Switchgear, Electric Fans and Appliances in the near future, Polycab aspires to be a USD 1,580+ millions company within the next 4-5 years.

We take this opportunity to thank you and convey our gratitude for the unabated support and trust you have always reposed in Polycab and encouraged it to move ahead confidently. I am confident that this will keep us ahead and winning in our constant endeavor to continue to be the preferred brand in this competitive market.

We hope to improve each day to serve you better and spread happiness.

INDER JAISINGHANI
Chairman & Managing Director



About Polycab



LEADING
MANUFACTURER OF CABLES AND WIRES IN INDIA

27
MANUFACTURING FACILITIES

80+
EXPORT PRESENCE IN COUNTRIES

MANUFACTURING CAPACITY
- 6 Million Km Of Cables
- 9 Million Fans
- 24 Million Switchgears
- 10 Million Switches

- 500+ Service Centres Across India
- NABL ACCREDITED LABORATORY
- R&D CENTRE UNDER MINISTRY OF INDUSTRIES
- IN-HOUSE FACILITY FOR SOFTWARE DEVELOPMENT
- STRONG DISTRIBUTION NETWORK OF 4,300+ AUTHORIZED DEALERS AND 200,000+ RETAIL OUTLETS 34 WAREHOUSES AND DEPOTS ACROSS INDIA

Our Strength









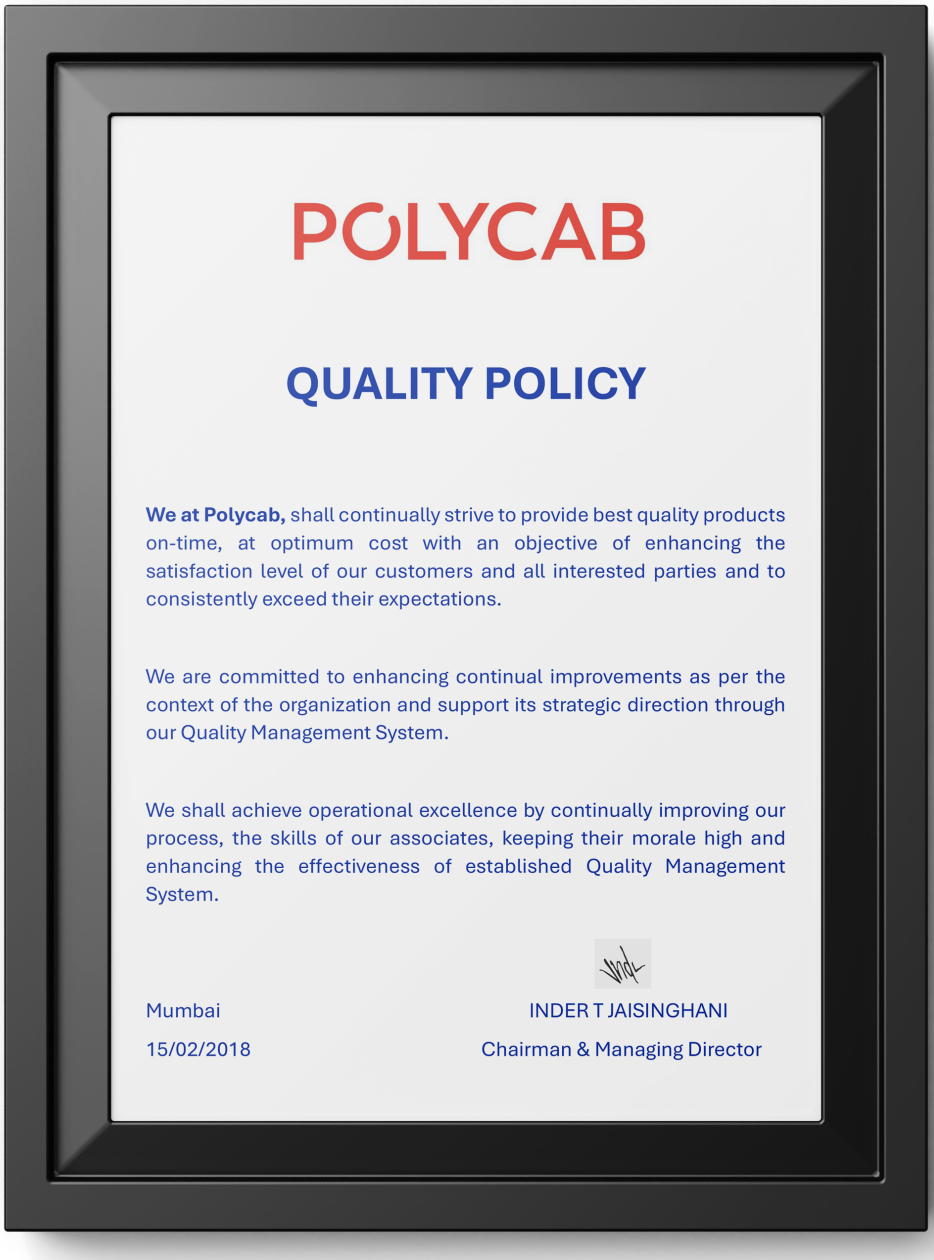




Portfolio



Quality Policy



POLYCAB

QUALITY POLICY

We at Polycab, shall continually strive to provide best quality products on-time, at optimum cost with an objective of enhancing the satisfaction level of our customers and all interested parties and to consistently exceed their expectations.

We are committed to enhancing continual improvements as per the context of the organization and support its strategic direction through our Quality Management System.

We shall achieve operational excellence by continually improving our process, the skills of our associates, keeping their morale high and enhancing the effectiveness of established Quality Management System.

Mumbai
15/02/2018

INDER T JAISINGHANI
Chairman & Managing Director

Quality & Reliability



Our aim is to achieve the highest level of product quality, reliability and safety, but we also know that this must be achieved at the lowest practical cost.

Quality Assurance & Manufacturing



Quality assurance is intrinsic to Polycab. We confirm to ISO 9001:2008 standards in our manufacturing processes and overall company operation. Our management system has been defined by experienced personnel who develop, implement and monitor quality assurance procedures. The same rigour is applied to the monitoring of materials and services provided by the vendors so that these also meet our quality system standards.

People



No quality is possible without the right people to carry through on the program. Everyone, from administrative staff to expert engineers, are committed to constant improvement. This commitment is backed by intensive training and education within an environment of Trust, Respect, Participation and Recognition.

Mission



To build a strong brand and maintain superior quality for customer satisfaction.

Vision



Our Vision is to improve the quality of life and bring greater happiness to our customers. We will do so through reliable, safe, sustainable and best in class products and services, while enhancing stake holder value continuously.

Quality Policy



We at Polycab, constantly aim to produce quality product to the customer's satisfaction through our Quality Management System.

Power Cables



EHV Power Cables

Application

• Power Transmission Grids • Industrial Applications

Compliance (Certifications)

• IEC 60840 • IEC 62067 • AS-NZS 1429.2 • ICEA S-108-720

Description

Extra high voltage power cables with extruded insulation rated from 66kV to 400kV



MV Power Cables

Application

• Power Distribution • Industrial Applications • Renewable Energy • Infrastructure Projects • Utility Substations • Mining Operations • Mobile Substations

Compliance (Certifications)

• IEC 60502-2 • BS 6622 • BS 7835 • BS 7870-4-10 • BS 7870-4-20
• AS-NZS 1429.1 • ICEA S-93-639 (NEMA WC-74) • ICEA S-94-649 • UL 1072

Description

Medium voltage power cables with extruded insulation rated from 6kV to 30kV



LV Power Cables

Application

• Residential Applications • Commercial Buildings • Industrial Applications
• Infrastructure Projects • Renewable Energy Systems • Safety and Emergency Systems

Compliance (Certifications)

• BS 5467 • BS 6724 • IEC 60502-1 • AS/NZS 5000.1 • UL 1277 (Type TC)

Description

Low voltage electric power cables with extruded insulation rated of 1kV and 3kV for fixed installation

Power Cables



Variable Frequency Drive (VFD) Cable

Application

- Industrial Motor Control • HVAC Systems • Water and Wastewater Treatment
- Oil, Gas, and Petrochemical • Marine and Offshore • Mining and Heavy Equipment
- Commercial and Infrastructure Projects

Compliance (Certifications)

- Gen. to IEC 60502-1

Description

Low Voltage VFD Cables with Extruded Insulation rated of 1kV and 3kV for fixed installation

Signaling Cables



Instrumentation Cable

Application

• Industrial Automation • Power Plants • Chemical and Petrochemical Industries • Building Management Systems (BMS) • Marine and Offshore • Aerospace and Defense • Infrastructure Projects

Compliance (Certifications)

• BS EN 50288-7 • UL 2250 (Type ITC)

Description

Multi-element instrumentation and control cables used in analogue and digital communication and control for rated voltage of 90 V, 300 V and 500 V a.c.



Thermocouple Cable

Application

• Temperature Measurement and Control • Process Industries • Aerospace and Defense • Automotive Industry • Research and Laboratories • Power Generation • Oil and Gas

Compliance (Certifications)

• BS EN 50288-7

Description

Multi-element thermocouple cables for rated voltage of 300 V and 500 V a.c.

Renewable Energy Cables



Windmill Cable

Application

• Power Transmission • Internal Turbine Cabling • Onshore and Offshore Wind Farms

Compliance (Certifications)

• IEC 60502-1 • IEC 60502-2 • BS EN- 50525-2-41 • BS EN 50525-2-21
• BS EN 50525-2-83

Description

Windmill cable up to and including 30kV are engineered for high performance, offering flexible, durable solutions for transmitting power and data in both onshore and offshore environments.



Solar DC String Cable

Application

• Connecting Solar Panels to Inverters • Rooftop and Ground-Mounted Solar Systems
• High Voltage DC Transmission • Outdoor and Harsh Environment Use
• Integration with String Combiner Boxes

Compliance (Certifications)

• BS EN 50618 • IEC 62930 • AS NZS 5000.1

Description

1.5kV Low smoke halogen free solar dc string cables for photovoltaic (PV) systems



Solar HIZ2Z2-K Twin Flat Parallel Cable

Application

• Interconnection of Solar Panels • Connection to Inverters and Junction Boxes
• Residential, Commercial, and Utility-Scale Solar Projects • Harsh Outdoor Environments
• Fire-Sensitive and Safety-Critical Installations • Flexible and Easy to Install

Compliance (Certifications)

• BS EN 50618

Description

1.5kV DC Low smoke halogen free flexible twin flat parallel cables for photovoltaic (PV) systems

Renewable Energy Cables



Solar UL 4703

Application

- Interconnection in Photovoltaic Systems • High Voltage Solar Installations
- Cost-Effective Large-Scale Projects • Outdoor and Harsh Environment Use
- Fire and Chemical Resistance • Residential, Commercial, and Industrial Solar Systems

Compliance (Certifications)

- UL 4703/NEC 690

Description

Solar cables for photovoltaic systems for rated voltages 600, 1000, or 2000 V



Solar Halogen Free Low Smoke

Application

- Fire-Sensitive Solar Installations • High-Density Urban Solar Projects
- Environmentally Conscious Solar Systems • Utility-Scale and Industrial Solar Farms
- Enhanced Safety in Public Infrastructure

Compliance (Certifications)

- IEC 62930

Description

1.5kV DC Low smoke halogen free solar cables for photovoltaic (PV) systems



Solar DC Feeder Cable

Application

- Power Transmission from PV Arrays • Utility-Scale and Commercial Solar Installations
- Outdoor and Harsh Environment Use • Safety-Critical Installations • Residential and Off-Grid Systems

Compliance (Certifications)

- AS NZS 5000.1 – ANTI TERMITE

Description

Single core solar dc feeder cable insulated with polymeric materials with voltage rating of 1.5kV DC

Renewable Energy Cables



Solar MV XLPE (RH5Z1-OL)

Application

- Renewable Energy Installations • Indoor, Outdoor, and Buried Installations
- Harsh Environmental Conditions

Compliance (Certifications)

- IEC 60502 -2

Description

Power cable with extruded insulation for rated voltages from 6 kV up to 30 kV for fixed installations.



Solar MV XLPE

Application

- Medium Voltage Power Transmission • Utility-Scale Solar Farms • Underground and Direct Burial Installations • Harsh Environmental Conditions • Fire-Sensitive Installations • Industrial and Commercial Solar Projects

Compliance (Certifications)

- AS NZS 1429

Description

Electric cables with polymeric insulation for working voltages 3.3 kV up to and including 33 kV.



Solar MV 105 TR -XLPE

Application

- Medium Voltage Power Distribution • Solar Energy Systems • Versatile Installation Environments • Fire and Environmental Safety • High Temperature and Emergency Conditions • Utility and Industrial Infrastructure

Compliance (Certifications)

- UL 1072

Description

Medium voltage MV 105 power cables with extruded insulation rated from 5kV to 35kV

Renewable Energy Cables



Solar MV 90 TR -XLPE

Application

- Utility-Scale Solar Installations • Underground and Wet Environments
- Fire-Sensitive and Safety-Critical Areas • Industrial and Renewable Energy Projects
- Flexible Installation Options

Compliance (Certifications)

- UL 1072

Description

Medium Voltage MV 90 Power Cables with Extruded Insulation rated from 5kV to 35kV

Communication Cables



OFC Cable (Optical Fibre Cable)

Application

• Telecommunications • Data Centers and Enterprise Networks • FTTH (Fiber to the Home) • Military and Aerospace • Transportation and Railways • Medical and Healthcare • Industrial Automation • Broadcasting and Media

Standard

IEC 60794; IEC 60793; ITU-T Rec. G.650; ITU-T Rec. G.652;ITU-T Rec. G.655; ITU-T Rec. G.656; ITU-T Rec G.657; EN 187000; Telecordia GR-20 issue 3rd May, 2008

Description

Optical fiber is a lightweight, secure, and high-capacity communication medium that transmits data using light signals through a core and cladding structure, leveraging total internal reflection. It operates primarily in the infrared spectrum (850 nm, 1310 nm, 1550 nm), offering low signal loss and immunity to electromagnetic interference, making it ideal for long-distance, high-speed data transmission.



Data Cable

Application

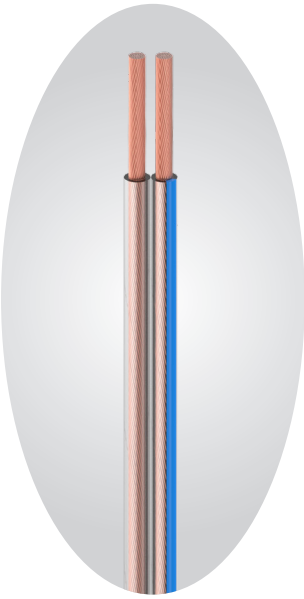
• Computer Networking • Device Connectivity • Audio/Video Transmission
• Data Storage and Transfer • Telecommunications • Industrial Automation
• Automotive and Transportation • Medical Equipment

Compliance (Certifications)

• Gen. to BS EN 50288-7

Description

Multi element DATA cables used in analogue and communication networks.



Speaker Cables

Application

• Home Audio Systems • Professional Audio and Stage Equipment • Commercial Sound Systems • Car Audio Systems • Educational and Institutional Use • Custom Installations and Smart Homes

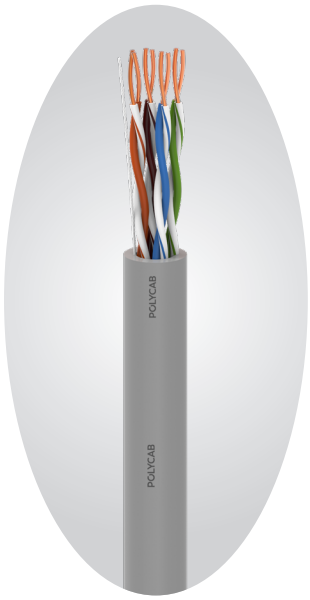
Compliance (Certifications)

• Polycab Customized specification

Description

Speakar cables for high-performance audio transmission, clear & distortion free sound.

Communication Cables



LAN Cables

Application

• Office and Business Networks • Home Networking • Data Centers • Gaming and Streaming • Educational Institutions • Industrial and IoT Systems • Healthcare Facilities

Compliance (Certifications)

• ANSI/TIA - 568 C2 • ISO/IEC- 11801 Class E Suffix A • IEC - 60332-1-1 • ASTM D2863

Description

LAN Cables Reliable high-speed data transmission for modern networking needs constructed with twisted pairs insulated in high-quality polyethylene.



Coaxial Cable

Application

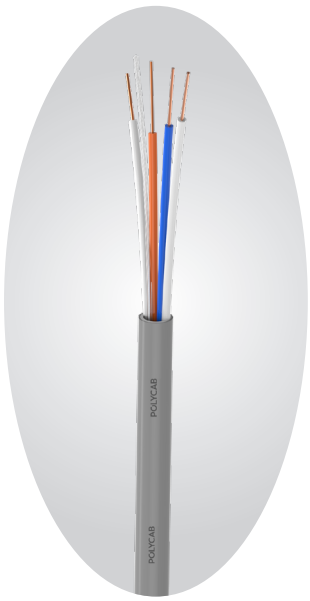
• Television and Cable TV • Internet and Broadband • Satellite Communication
• Radio Frequency (RF) Transmission • CCTV and Security Systems
• Industrial and Military Applications • Home Theater and Audio Systems

Compliance (Certifications)

• ANSI/SCTE 74-2011

Description

Coaxial Cables are engineered for high-frequency signal transmission with minimal interference, designed to withstand moisture and harsh environments with a water-resistant jelly flooding and a durable PVC outer sheath.



Telephone Cable

Application

• Landline Telephone Systems • Intercom and Paging Systems • DSL Internet Connections • Structured Cabling in Buildings • Industrial Communication Systems
• Home Automation and Security • Rural and Remote Communication

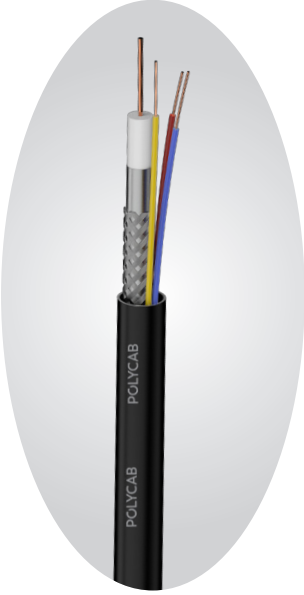
Compliance (Certifications)

• BSNL Spec. NO GR/ CUG-01/ 03AUG. 2023 • Gen. to GR/WIR-06/03 MAR2002

Description

Telephone Cable Reliable voice and data transmission for communication infrastructure, built with solid bare copper conductors, HDPE insulation, and twisted-pair construction for signal clarity.

Communication Cables



CCTV Cable

Application

• Video Surveillance Systems • Commercial and Industrial Security • Residential Security • Educational Institutions • Hospitals and Healthcare Facilities • Traffic and Public Infrastructure Monitoring • Construction and Remote Sites • Integrated Power and Video Transmission

Compliance (Certifications)

• Polycab Customized specification

Description

CCTV Cable, Secure and reliable transmission for surveillance and monitoring systems, designed with a solid bare copper conductor and RG59F core insulated with physically foamed HDPE.

Application Based Cables



Fire Survival Cables

Application

• Emergency Lighting Systems • Fire Alarm and Detection Systems • Hospitals and Healthcare Facilities • High-Rise Buildings and Commercial Complexes • Industrial Plants and Refineries • Tunnels, Airports, and Transport Hubs • Educational Institutions and Public Buildings • Power Supply to Critical Equipment

Compliance (Certifications)

• IEC 60331 • BS 7846 • BS 7629-1 • BS 8592 • BS 7211 • BS 6724 • IEC 60502-1
• BS EN 50288-7 • BS 6387 Cat. CWZ • BS EN 50200 (PH 30/60/120) • BS 8434
• BS 8491 • IS 17505

Description

Fire-resistant electric cables with polymeric insulation, suitable for fixed installations operating at voltages up to 1000V, used in critical power and control applications where circuit integrity during fire is essential.



Metro Rail Cable

Application

• Traction Power Supply • Signaling and Control Systems • Communication Networks
• Station and Tunnel Infrastructure • Rolling Stock (Train) Wiring • Emergency and Safety Systems

Compliance (Certifications)

• BS EN 50264-3-1, 2 • BS EN 50306-2, 3, 4 • BS EN 50382-1, 2

Description

Robust and high-performance cables for modern rail infrastructure are insulated with E-beam cross-linked flame retardant compounds or silicone rubber, suitable for operating temperatures between 90°C to 150°C



Rubber/Elastomeric Cable

Application

• Industrial Power Distribution • Construction Sites • Events and Entertainment
• Railways and Transport • Marine and Offshore • Mining and Tunneling
• Fire-Resistant and Emergency Systems • High-Temperature Applications

Compliance (Certifications)

• IEC 60502-1 & 2, BSEN 50525-2-21, VDE 0250-602

Description

Low voltage energy cables with cross-linked elastomeric insulation and sheath, rated up to 1kV, designed for general-purpose applications requiring enhanced flexibility.

Application Based Cables



Marine / Ship Wiring Cables

Application

• Power Distribution • Control and Instrumentation • Communication Systems • Fire-Resistant and Safety Systems • Navigation and Bridge Systems • Submersible and Underwater Equipment • Passenger and Crew Amenities

Compliance (Certifications)

• IEC 60092-353 • IEC 60092-376 • IEC 60092-350 • IEC 60092-360 • NEK 606 • BS 6883 • BS 7917

Description

Power , Control , Instrumentation and telecommunication cables with Rated Voltages 150V up to 36kV are intended for fixed installations (shipboard and offshore applications).



Fire Alarm Cable

Application

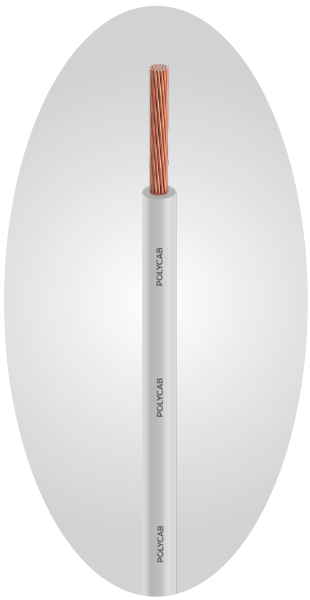
• Fire Detection Systems • Emergency Notification Systems • Commercial and Residential Buildings • Hospitals and Healthcare Facilities • Educational Institutions • Transport Hubs and Tunnels • Industrial and Hazardous Areas

Compliance (Certifications)

• Gen. To BS 5467 • Gen. to BS EN 50288-7

Description

Fire Alarm cable are designed for reliable signal transmission in critical fire detection and emergency response systems for enhanced safety and performance



Automotive Cables For Electric Vehicle

Application

• Battery Management System (BMS) • Charging Systems • Control and Communication • Interior and Comfort Systems

Compliance (Certifications)

• ISO 19642 • ISO 6722 • Chinese Std. (GP/T QC/T)

Description

Single and multicore cables designed for road vehicle applications, suitable for nominal system voltages up to 600V AC or 900V DC, and up to 1000V AC or 1500V DC

Application Based Cables



Cables For Electric Vehicle Charger

Application

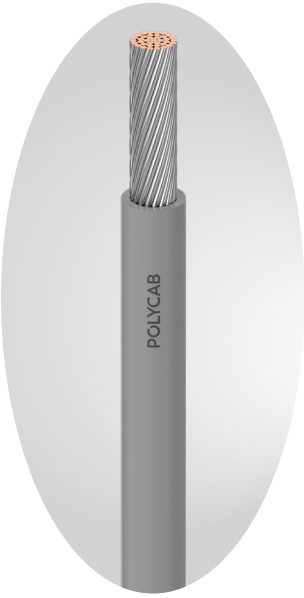
• AC Charging (Level 1 & Level 2) • DC Fast Charging (Level 3) • Portable EV Chargers • Communication and Control • Safety and Grounding • Outdoor and Harsh Environments

Compliance (Certifications)

• EN 50620 • IEC 62893

Description

Flexible cables for electric vehicle chargers, featuring halogen-free extruded insulation and sheath, suitable for voltages up to 450/750V.



Airport Lighting Cable

Application

• Runway and Taxiway Lighting • Approach Lighting Systems (ALS) • Apron and Ramp Lighting • Series Circuit Power Supply • Fire-Resistant and Safety-Critical Installations • Harsh Environmental Conditions

Compliance (Certifications)

• IEC 60502-1 • IEC 60227 • IEC 60228 • VDE 0295

Description

Airport Lighting Cables are single-core, flexible copper conductor cables insulated with TPE for critical airfield lighting systems.



LT Control Cables

Application

• Industrial Automation and Machinery • Power Plants and Substations • Commercial and Residential Buildings • Railways and Metro Systems • Oil, Gas, and Petrochemical Plants • Fire Alarm and Emergency Systems • Infrastructure Projects

Compliance (Certifications)

• IEC 60502-1 • BS 5467 • BS 6724 • BS EN 50288-7

Description

Low Voltage Electric Control Cables with Extruded Insulation rated of 1kV for fixed installation

Application Based Cables



Cables For Nuclear Power Plant

Application

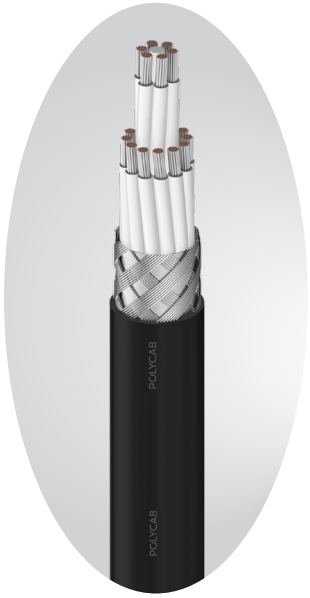
• Power Distribution • Control Systems • Instrumentation and Monitoring
• Communication Systems • Safety and Emergency Systems • Radiation and Fire Resistance

Compliance (Certifications)

• CERN Specification (EDMS)

Description

Specifically developed for nuclear facilities, these cables offer exceptional resistance to radiation, fire, and heat, meeting critical safety and operational requirements



Oil & Gas Cables Offshore & Onshore

Application

• Offshore Applications • Onshore Applications

Compliance (Certifications)

• IIEEE 1580:2010

Description

Single or multicore cables with or without metal armour and/or jacket 300V to 35kV ac (RMS phase-to-phase) or up to 2000V dc, intended to be installed aboard marine vessels, fixed and floating offshore facilities.



Industrial Braided Cable

Application

• Electromagnetic Interference (EMI) Shielding • Robotics and Automation
• Power and Control Systems • Railways and Transportation • Oil, Gas, and Petrochemical Plants • Aerospace and Defense • Marine and Offshore
• Medical Equipment

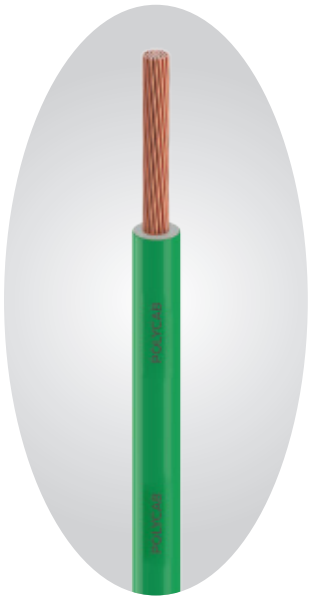
Compliance (Certifications)

• IEC 60227-7:1995+A1:2003

Description

Industrial braided cables with multicore PVC insulation, available in screened and unscreened variants, suitable for control applications up to 300/500V

Wires



Wires

Application

• Power Distribution • Conduit, Duct, or Tray Installations • Industrial and Utility Facilities • Outdoor and Underground Wiring • Renewable Energy Systems
• Residential & Commercial Buildings • Control Panels and Equipment Wiring

Compliance (Certifications)

• BS 6231:2006 • BS EN 50525-2-31 • BS EN 50525-2-11 • BS 6004:2012+A1
• BS 7211:2012+A1 • IEC 60227-3 • AS/NZS 5000.1 • AS/NZS 5000.2 • UL 44 • UL 83

Description

Thermoplastic or Thermosetting insulated cables for fixed wiring, flexible connections, and equipment wiring applications

MV Power Cables

Medium Voltage Cable (Multi-Core Armoured)

Standard	IEC 60502 & BS 6622 (Wherever applicable)
Conductor	Circular Stranded Compact Copper Conductor
Conductor Screen	Extruded Layer of semi Conducting Material
Insulation	XLPE/HEPR/EPR
Insulation Screen	Extruded Layer of Strippable/Bonded semi Conducting Material
Metallic Screen	Copper Tape
Core Identification	By coloured Tape (Red,Yellow,Blue)*
Separation Sheath	Extruded PVC
Armouring	Single layer of Galvanised Steel Wire / Flat Strip / Tape
Sheathing	Extruded PVC
Operating Temperature	90°C for continuous operation and 250°C for short circuit conditions.
Minimum Bending Radius	15 Times overall diameter of the cable

Note :

- Cables are also available with Aluminium conductors, Copper wire Screen and LSF Outersheath.
- Cables can be offered with BS & HD/VDE Specification.
- *Other colours may be provided upon request.

Voltage Grade (kv)	Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Extruded Separation (mm)	Nominal Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20°C	Short Circuit rating of phase conductor (kA/sec)
3.6/6 (7.2)	3 x 35	2.5	0.76	2.0	1.64	40.0	0.524	5.01
	3 x 50	2.5	0.84	2.5	1.80	44.0	0.387	7.16
	3 x 70	2.5	0.92	2.5	1.88	48.0	0.268	10.02
	3 x 95	2.5	0.92	2.5	1.96	52.0	0.193	13.59
	3 x 120	2.5	1.00	2.5	2.04	55.0	0.153	17.17
	3 x 150	2.5	1.00	2.5	2.12	59.0	0.124	21.47
	3 x 185	2.5	1.08	2.5	2.20	63.0	0.0991	26.47
	3 x 240	2.6	1.16	2.5	2.36	69.0	0.0754	34.34
	3 x 300	2.8	1.24	3.15	2.60	76.0	0.0601	42.93
	3 x 400	3.0	1.40	3.15	2.84	84.0	0.047	57.24
	3 x 500	3.2	1.48	3.15	3.00	93.0	0.0366	71.55
6/10 (12)	3 x 35	3.4	0.84	2.5	1.80	46.0	0.524	5.01
	3 x 50	3.4	0.92	2.5	1.88	48.0	0.387	7.16
	3 x 70	3.4	0.92	2.5	1.96	52.0	0.268	10.02
	3 x 95	3.4	1.00	2.5	2.12	56.0	0.193	13.59
	3 x 120	3.4	1.08	2.5	2.20	60.0	0.153	17.17
	3 x 150	3.4	1.08	2.5	2.28	63.0	0.124	21.47
	3 x 185	3.4	1.16	2.5	2.36	67.0	0.0991	26.47
	3 x 240	3.4	1.24	3.15	2.52	74.0	0.0754	34.34
	3 x 300	3.4	1.32	3.15	2.68	79.0	0.0601	42.93
	3 x 400	3.4	1.40	3.15	2.84	86.0	0.047	57.24
	3 x 500	3.4	1.48	3.15	3.00	94.0	0.0366	71.55

- Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

Medium Voltage Cable (Multi-Core Armoured)

Voltage Grade (kv)	Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Extruded Separation (mm)	Nominal Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20°C	Short Circuit rating of phase conductor (kA/sec)
8.7/15 (17.5)	3 x 50	4.5	1.00	2.5	2.04	54.0	0.387	7.16
	3 x 70	4.5	1.00	2.5	2.12	58.0	0.268	10.02
	3 x 95	4.5	1.08	2.5	2.20	61.0	0.193	13.59
	3 x 120	4.5	1.16	2.5	2.28	65.0	0.153	17.17
	3 x 150	4.5	1.16	2.5	2.36	68.0	0.124	21.47
	3 x 185	4.5	1.24	3.15	2.52	74.0	0.0991	26.47
	3 x 240	4.5	1.32	3.15	2.68	79.0	0.0754	34.34
	3 x 300	4.5	1.40	3.15	2.76	84.0	0.0601	42.93
	3 x 400	4.5	1.48	3.15	3.00	91.0	0.047	57.24
	3 x 500	4.5	1.56	3.15	3.16	99.0	0.0366	71.55
12/20 (24)	3 x 50	5.5	1.08	2.5	2.12	58.0	0.387	7.16
	3 x 70	5.5	1.08	2.5	2.28	62.0	0.268	10.02
	3 x 95	5.5	1.16	2.5	2.36	66.0	0.193	13.59
	3 x 120	5.5	1.16	3.15	2.44	71.0	0.153	17.17
	3 x 150	5.5	1.24	3.15	2.52	74.0	0.124	21.47
	3 x 185	5.5	1.32	3.15	2.68	79.0	0.0991	26.47
	3 x 240	5.5	1.40	3.15	2.76	84.0	0.0754	34.34
	3 x 300	5.5	1.40	3.15	2.92	89.0	0.0601	42.93
	3 x 400	5.5	1.56	3.15	3.08	96.0	0.047	57.24
	3 x 500	5.5	1.64	3.15	3.24	104.0	0.0366	71.55
18/30 (36)	3 x 70	8.0	1.24	3.15	2.60	76.0	0.268	10.02
	3 x 95	8.0	1.32	3.15	2.68	79.0	0.193	13.59
	3 x 120	8.0	1.40	3.15	2.76	83.0	0.153	17.17
	3 x 150	8.0	1.40	3.15	2.84	86.0	0.124	21.47
	3 x 185	8.0	1.48	3.15	3.00	91.0	0.0991	26.47
	3 x 240	8.0	1.56	3.15	3.08	96.0	0.0754	34.34
	3 x 300	8.0	1.64	3.15	3.24	101.0	0.0601	42.93
	3 x 400	8.0	1.72	3.15	3.40	108.0	0.047	57.24
	3 x 500	8.0	1.80	3.15	3.56	116.0	0.0366	71.55

- Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

Medium Voltage Cable (Single-Core Armoured)

Standard	IEC 60502 & BS 6622 (Wherever applicable)
Conductor	Circular Stranded Compact Copper Conductor
Conductor Screen	Extruded Layer of semi Conducting Material
Insulation	XLPE/HEPR/EPR
Insulation Screen	Extruded Layer of Strippable/Bonded semi Conducting Material
Metallic Screen	Copper Tape
Separation Sheath	Extruded PVC
Armouring	Single layer of Aluminium Wire / Flat Strip / Tape
Sheathing	Extruded PVC
Operating Temperature	90°C for continuous operation and 250°C for short circuit conditions.
Minimum Bending Radius	20 Times overall diameter of the cable

Note :

- Cables are also available with Aluminium conductors, Copper wire Screen and LSF Outersheath.
- Cables can be offered with BS & HD/VDE Specification.
- *Other colours may be provided upon request.

Voltage Grade (kv)	Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Extruded Separation (mm)	Nominal Aluminium Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20°C	Short Circuit rating of phase conductor (kA/sec)
3.6/6 (7.2)	1 x 35	2.5	0.76	1.6	1.24	22.0	0.524	5.01
	1 x 50	2.5	0.76	1.6	1.24	23.0	0.387	7.16
	1 x 70	2.5	0.76	1.6	1.24	25.0	0.268	10.02
	1 x 95	2.5	0.76	1.6	1.32	26.0	0.193	13.59
	1 x 120	2.5	0.76	1.6	1.32	28.0	0.153	17.17
	1 x 150	2.5	0.76	1.6	1.40	30.0	0.124	21.47
	1 x 185	2.5	0.76	2.0	1.40	32.0	0.0991	26.47
	1 x 240	2.6	0.76	2.0	1.48	35.0	0.0754	34.34
	1 x 300	2.8	0.76	2.0	1.56	37.0	0.0601	42.93
	1 x 400	3.0	0.76	2.0	1.64	41.0	0.047	57.24
	1 x 500	3.2	0.84	2.5	1.80	46.0	0.0366	71.55
	1 x 630	3.2	0.92	2.5	1.88	51.0	0.0283	90.2
	1 x 800	3.2	0.92	2.5	1.96	54.0	0.0221	114.5
	1 x 1000	3.2	1.00	2.5	2.12	59.0	0.0176	143.1
6/10 (12)	1 x 35	3.4	0.76	1.6	1.24	24.0	0.524	5.01
	1 x 50	3.4	0.76	1.6	1.24	25.0	0.387	7.16
	1 x 70	3.4	0.76	1.6	1.32	27.0	0.268	10.02
	1 x 95	3.4	0.76	1.6	1.32	28.0	0.193	13.59
	1 x 120	3.4	0.76	1.6	1.40	30.0	0.153	17.17
	1 x 150	3.4	0.76	2.0	1.48	32.0	0.124	21.47
	1 x 185	3.4	0.76	2.0	1.48	34.0	0.0991	26.47
	1 x 240	3.4	0.76	2.0	1.56	37.0	0.0754	34.34
	1 x 300	3.4	0.76	2.0	1.56	39.0	0.0601	42.93
	1 x 400	3.4	0.76	2.0	1.72	42.0	0.047	57.24
	1 x 500	3.4	0.84	2.5	1.80	47.0	0.0366	71.55
	1 x 630	3.4	0.92	2.5	1.88	51.0	0.0283	90.15
	1 x 800	3.4	0.92	2.5	1.96	55.0	0.0221	114.48
	1 x 1000	3.4	1.00	2.5	2.12	60.0	0.0176	143.10

- Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

Medium Voltage Cable (Single-Core Armoured)

Voltage Grade (kv)	Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Extruded Separation (mm)	Nominal Aluminium Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20°C	Short Circuit rating of phase conductor (kA/sec)
8.7/15 (17.5)	1 x 50	4.5	0.76	1.6	1.32	27.0	0.387	7.16
	1 x 70	4.5	0.76	1.6	1.32	29.0	0.268	10.02
	1 x 95	4.5	0.76	2.0	1.40	31.0	0.193	13.59
	1 x 120	4.5	0.76	2.0	1.48	33.0	0.153	17.17
	1 x 150	4.5	0.76	2.0	1.48	35.0	0.124	21.47
	1 x 185	4.5	0.76	2.0	1.56	37.0	0.0991	26.47
	1 x 240	4.5	0.76	2.0	1.64	39.0	0.0754	34.34
	1 x 300	4.5	0.76	2.0	1.64	41.0	0.0601	42.93
	1 x 400	4.5	0.84	2.5	1.80	45.0	0.047	57.24
	1 x 500	4.5	0.84	2.5	1.88	49.0	0.0366	71.55
	1 x 630	4.5	0.92	2.5	1.96	53.0	0.0283	90.2
	1 x 800	4.5	1.00	2.5	2.04	57.0	0.0221	114.5
	1 x 1000	4.5	1.08	2.5	2.20	62.0	0.0176	143.1
12/20 (24)	1 x 50	5.5	0.76	1.6	1.40	29.0	0.387	7.2
	1 x 70	5.5	0.76	2.0	1.40	32.0	0.268	10.0
	1 x 95	5.5	0.76	2.0	1.48	34.0	0.193	13.6
	1 x 120	5.5	0.76	2.0	1.48	35.0	0.153	17.2
	1 x 150	5.5	0.76	2.0	1.56	37.0	0.124	21.5
	1 x 185	5.5	0.76	2.0	1.56	39.0	0.0991	26.50
	1 x 240	5.5	0.76	2.0	1.64	41.0	0.0754	34.3
	1 x 300	5.5	0.84	2.5	1.72	44.0	0.0601	42.9
	1 x 400	5.5	0.84	2.5	1.80	47.0	0.047	57.2
	1 x 500	5.5	0.92	2.5	1.88	51.0	0.0366	71.6
	1 x 630	5.5	0.92	2.5	2.04	56.0	0.0283	90.2
	1 x 800	5.5	1.00	2.5	2.12	60.0	0.0221	114.5
	1 x 1000	5.5	1.08	2.5	2.20	64.0	0.0176	143.1
18/30 (36)	1 x 70	8.0	0.76	2.0	1.56	37.0	0.268	10.02
	1 x 95	8.0	0.76	2.0	1.64	39.0	0.193	13.59
	1 x 120	8.0	0.76	2.0	1.64	41.0	0.153	17.17
	1 x 150	8.0	0.84	2.5	1.72	43.0	0.124	21.47
	1 x 185	8.0	0.84	2.5	1.80	45.0	0.0991	26.47
	1 x 240	8.0	0.84	2.5	1.80	48.0	0.0754	34.34
	1 x 300	8.0	0.92	2.5	1.88	50.0	0.0601	42.93
	1 x 400	8.0	0.92	2.5	1.96	53.0	0.047	57.24
	1 x 500	8.0	1.00	2.5	2.04	57.0	0.0366	71.55
	1 x 630	8.0	1.00	2.5	2.12	61.0	0.0283	90.2
	1 x 800	8.0	1.08	2.5	2.28	65.0	0.0221	114.5
	1 x 1000	8.0	1.16	2.5	2.36	70.0	0.0176	143.1

- Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

Medium Voltage Cable (Multi-Core Un-Armoured)

Standard	IEC 60502 & BS 6622 (Wherever applicable)
Conductor	Circular Stranded Compact Copper Conductor
Conductor Screen	Extruded Layer of semi Conducting Material
Insulation	XLPE/HEPR/EPR
Insulation Screen	Extruded Layer of Strippable/Bonded semi Conducting Material
Metallic Screen	Copper Tape
Core Identification	By coloured Tape (Red,Yellow,Blue)*
Sheathing	Extruded PVC
Operating Temperature	90°C for continuous operation and 250°C for short circuit conditions
Minimum Bending Radius	15 Times overall diameter of the cable

Note :

- Cables are also available with Aluminium conductors, Copper wire Screen and LSF Outersheath.
- Cables can be offered with HD/VDE Specification.
- *Other colours may be provided upon request.

Voltage Grade (kv)	Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20°C	Short Circuit rating of phase conductor (kA/sec)
3.6/6 (7.2)	3 x 35	2.5	1.56	34.0	0.524	5.01
	3 x 50	2.5	1.64	37.0	0.387	7.16
	3 x 70	2.5	1.72	41.0	0.268	10.02
	3 x 95	2.5	1.80	44.0	0.193	13.59
	3 x 120	2.5	1.88	48.0	0.153	17.17
	3 x 150	2.5	1.96	51.0	0.124	21.47
	3 x 185	2.5	2.04	55.0	0.0991	26.47
	3 x 240	2.6	2.20	61.0	0.0754	34.34
	3 x 300	2.8	2.36	66.0	0.0601	42.93
	3 x 400	3.0	2.60	74.0	0.047	57.24
	3 x 500	3.2	2.76	82.0	0.0366	71.55
6/10 (12)	3 x 35	3.4	1.64	38.0	0.524	5.01
	3 x 50	3.4	1.72	41.0	0.387	7.16
	3 x 70	3.4	1.80	45.0	0.268	10.02
	3 x 95	3.4	1.96	48.0	0.193	13.59
	3 x 120	3.4	2.04	52.0	0.153	17.17
	3 x 150	3.4	2.12	55.0	0.124	21.47
	3 x 185	3.4	2.20	59.0	0.0991	26.47
	3 x 240	3.4	2.28	64.0	0.0754	34.34
	3 x 300	3.4	2.44	69.0	0.0601	42.93
	3 x 400	3.4	2.60	75.0	0.047	57.24
	3 x 500	3.4	2.76	83.0	0.0366	71.55

- Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

Medium Voltage Cable (Multi-Core Un-Armoured)

Voltage Grade (kv)	Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20°C	Short Circuit rating of phase conductor (kA/sec)
8.7/15 (17.5)	3 x 50	4.5	1.88	46.0	0.387	7.16
	3 x 70	4.5	1.96	50.0	0.268	10.02
	3 x 95	4.5	2.04	53.0	0.193	13.59
	3 x 120	4.5	2.12	57.0	0.153	17.17
	3 x 150	4.5	2.20	60.0	0.124	21.47
	3 x 185	4.5	2.28	64.0	0.0991	26.47
	3 x 240	4.5	2.44	69.0	0.0754	34.34
	3 x 300	4.5	2.60	74.0	0.0601	42.93
	3 x 400	4.5	2.76	80.0	0.047	57.24
	3 x 500	4.5	2.92	88.0	0.0366	71.55
12/20 (24)	3 x 50	5.5	1.96	51.0	0.387	7.16
	3 x 70	5.5	2.04	54.0	0.268	10.02
	3 x 95	5.5	2.20	58.0	0.193	13.59
	3 x 120	5.5	2.28	62.0	0.153	17.17
	3 x 150	5.5	2.36	65.0	0.124	21.47
	3 x 185	5.5	2.44	69.0	0.0991	26.47
	3 x 240	5.5	2.60	74.0	0.0754	34.34
	3 x 300	5.5	2.68	79.0	0.0601	42.93
	3 x 400	5.5	2.84	85.0	0.047	57.24
	3 x 500	5.5	3.00	93.0	0.0366	71.55
18/30 (36)	3 x 70	8.0	2.36	66.0	0.268	10.02
	3 x 95	8.0	2.44	69.0	0.193	13.59
	3 x 120	8.0	2.60	73.0	0.153	17.17
	3 x 150	8.0	2.68	76.0	0.124	21.47
	3 x 185	8.0	2.76	80.0	0.0991	26.47
	3 x 240	8.0	2.84	85.0	0.0754	34.34
	3 x 300	8.0	3.00	90.0	0.0601	42.93
	3 x 400	8.0	3.16	96.0	0.047	57.24
	3 x 500	8.0	3.32	104.0	0.0366	71.55

- Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

Medium Voltage Cable (Single-Core Un-Armoured)

Standard	IEC 60502 & BS 6622 (Wherever applicable)
Conductor	Circular Stranded Compact Copper Conductor
Conductor Screen	Extruded Layer of semi Conducting Material
Insulation	XLPE/HEPR/EPR
Insulation Screen	Extruded Layer of Strippable/Bonded semi Conducting Material
Metallic Screen	Copper Tape
Sheathing	Extruded PVC
Operating Temperature	90°C for continuous operation and 250°C for short circuit conditions
Minimum Bending Radius	20 Times overall diameter of the cable

Note :

- Cables are also available with Aluminium conductors, Copper wire Screen and LSF Outersheath.
- Cables can be offered with HD/VDE Specification.
- *Other colours may be provided upon request.

Voltage Grade (kv)	Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20°C	Short Circuit rating of phase conductor (kA/sec)
3.6/6 (7.2)	1 x 35	2.5	1.24	17.0	0.524	5.01
	1 x 50	2.5	1.24	18.0	0.387	7.16
	1 x 70	2.5	1.24	20.0	0.268	10.02
	1 x 95	2.5	1.24	22.0	0.193	13.59
	1 x 120	2.5	1.24	23.0	0.153	17.17
	1 x 150	2.5	1.24	25.0	0.124	21.47
	1 x 185	2.5	1.24	26.0	0.0991	26.47
	1 x 240	2.6	1.32	29.0	0.0754	34.34
	1 x 300	2.8	1.40	32.0	0.0601	42.93
	1 x 400	3.0	1.48	35.0	0.047	57.24
	1 x 500	3.2	1.56	39.0	0.0366	71.55
	1 x 630	3.2	1.64	43.0	0.0283	90.2
	1 x 800	3.2	1.72	47.0	0.0221	114.5
	1 x 1000	3.2	1.88	52.0	0.0176	143.1
6/10 (12)	1 x 35	3.4	1.24	19.0	0.524	5.0
	1 x 50	3.4	1.24	20.0	0.387	7.2
	1 x 70	3.4	1.24	22.0	0.268	10.0
	1 x 95	3.4	1.24	23.0	0.193	13.6
	1 x 120	3.4	1.24	25.0	0.153	17.2
	1 x 150	3.4	1.24	26.0	0.124	21.5
	1 x 185	3.4	1.32	28.0	0.0991	26.5
	1 x 240	3.4	1.40	31.0	0.0754	34.3
	1 x 300	3.4	1.40	33.0	0.0601	42.9
	1 x 400	3.4	1.48	36.0	0.047	57.2
	1 x 500	3.4	1.56	39.0	0.0366	71.6
	1 x 630	3.4	1.64	44.0	0.0283	90.2
	1 x 800	3.4	1.80	48.0	0.0221	114.5
	1 x 1000	3.4	1.88	52.0	0.0176	143.1

- Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

Medium Voltage Cable (Single-Core Un-Armoured)

Voltage Grade (kv)	Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20°C	Short Circuit rating of phase conductor (kA/sec)
8.7/15 (17.5)	1 x 50	4.5	1.24	22.0	0.387	7.16
	1 x 70	4.5	1.24	24.0	0.268	10.02
	1 x 95	4.5	1.24	26.0	0.193	13.59
	1 x 120	4.5	1.32	27.0	0.153	17.17
	1 x 150	4.5	1.32	29.0	0.124	21.47
	1 x 185	4.5	1.40	31.0	0.0991	26.47
	1 x 240	4.5	1.40	33.0	0.0754	34.34
	1 x 300	4.5	1.48	35.0	0.0601	42.93
	1 x 400	4.5	1.56	38.0	0.047	57.24
	1 x 500	4.5	1.64	42.0	0.0366	71.55
	1 x 630	4.5	1.72	46.0	0.0283	90.2
	1 x 800	4.5	1.80	50.0	0.0221	114.5
	1 x 1000	4.5	1.96	55.0	0.0176	143.1
12/20 (24)	1 x 50	5.5	1.24	24.0	0.387	7.2
	1 x 70	5.5	1.24	26.0	0.268	10.0
	1 x 95	5.5	1.32	28.0	0.193	13.6
	1 x 120	5.5	1.32	29.0	0.153	17.2
	1 x 150	5.5	1.40	31.0	0.124	21.5
	1 x 185	5.5	1.40	33.0	0.0991	26.5
	1 x 240	5.5	1.48	35.0	0.0754	34.3
	1 x 300	5.5	1.56	37.0	0.0601	42.9
	1 x 400	5.5	1.64	40.0	0.047	57.2
	1 x 500	5.5	1.72	44.0	0.0366	71.6
	1 x 630	5.5	1.80	48.0	0.0283	90.2
	1 x 800	5.5	1.88	52.0	0.0221	114.5
	1 x 1000	5.5	1.96	57.0	0.0176	143.1
18/30 (36)	1 x 70	8.0	1.40	31.0	0.268	10.02
	1 x 95	8.0	1.48	33.0	0.193	13.59
	1 x 120	8.0	1.48	35.0	0.153	17.17
	1 x 150	8.0	1.48	36.0	0.124	21.47
	1 x 185	8.0	1.56	38.0	0.0991	26.47
	1 x 240	8.0	1.64	41.0	0.0754	34.34
	1 x 300	8.0	1.64	43.0	0.0601	42.93
	1 x 400	8.0	1.80	46.0	0.047	57.24
	1 x 500	8.0	1.80	49.0	0.0366	71.55
	1 x 630	8.0	1.96	54.0	0.0283	90.2
	1 x 800	8.0	2.04	57.0	0.0221	114.5
	1 x 1000	8.0	2.12	62.0	0.0176	143.1

- Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

Medium Voltage Cable (Multi-Core Armoured)

Standard	BS 7835
Conductor	Circular Stranded Compact Copper Conductor
Conductor Screen	Extruded Layer of semi Conducting Material
Insulation	XLPE (Type GP8)/EPR (Type GP7)
Insulation Screen	Extruded Layer of Strippable/Bonded semi Conducting Material
Metallic Screen	Copper Tape
Core Identification	By coloured Tape (Brown,Black,Grey)*
Separation Sheath	Extruded Thermoplastic material over non-hygroscopic filler.
Armouring	Single layer of Galvanised Steel Wire
Sheathing	Extruded Thermoplastic material,Type LTS 1
Operating Temperature	90°C for continuous operation and 250°C for short circuit conditions.
Minimum Bending Radius	12 Times overall diameter of the cable

Note :

• Cables are also available with Aluminium conductors and Copper wire Screen.

Voltage Grade (kv)	Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Extruded Separation (mm)	Nominal Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20°C	Short Circuit rating of phase conductor (kA/sec)
3.8/6.6 (7.2)	3 x 70	2.5	0.92	2.5	1.88	48.0	0.268	10.02
	3 x 95	2.5	0.92	2.5	1.96	52.0	0.193	13.59
	3 x 120	2.5	1.00	2.5	2.04	55.0	0.153	17.17
	3 x 150	2.5	1.00	2.5	2.12	59.0	0.124	21.47
	3 x 185	2.5	1.08	2.5	2.20	63.0	0.0991	26.47
	3 x 240	2.6	1.16	2.5	2.36	69.0	0.0754	34.34
	3 x 300	2.8	1.24	3.15	2.60	76.0	0.0601	42.93
	3 x 400	3.0	1.40	3.15	2.84	84.0	0.047	57.24
	3 x 500	3.2	1.48	3.15	3.00	93.0	0.0366	71.55
6.35/11 (12)	3 x 70	3.4	0.92	2.5	1.96	52.0	0.268	10.02
	3 x 95	3.4	1.00	2.5	2.12	56.0	0.193	13.59
	3 x 120	3.4	1.08	2.5	2.20	60.0	0.153	17.17
	3 x 150	3.4	1.08	2.5	2.28	63.0	0.124	21.47
	3 x 185	3.4	1.16	2.5	2.36	67.0	0.0991	26.47
	3 x 240	3.4	1.24	3.15	2.52	74.0	0.0754	34.34
	3 x 300	3.4	1.32	3.15	2.68	79.0	0.0601	42.93
	3 x 400	3.4	1.40	3.15	2.84	86.0	0.047	57.24
	3 x 500	3.4	1.48	3.15	3.00	94.0	0.0366	71.55
8.7/15 (17.5)	3 x 70	4.5	1.00	2.5	2.12	58.0	0.268	10.02
	3 x 95	4.5	1.08	2.5	2.20	61.0	0.193	13.59
	3 x 120	4.5	1.16	2.5	2.28	65.0	0.153	17.17
	3 x 150	4.5	1.16	2.5	2.36	68.0	0.124	21.47
	3 x 185	4.5	1.24	3.15	2.52	74.0	0.0991	26.47
	3 x 240	4.5	1.32	3.15	2.68	79.0	0.0754	34.34
	3 x 300	4.5	1.40	3.15	2.76	84.0	0.0601	42.93
	3 x 400	4.5	1.48	3.15	3.00	91.0	0.047	57.24
	3 x 500	4.5	1.56	3.15	3.16	99.0	0.0366	71.55

• Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

Medium Voltage Cable (Multi-Core Armoured)

Voltage Grade (kv)	Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Extruded Separation (mm)	Nominal Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20°C	Short Circuit rating of phase conductor (kA/sec)
12.7/22 (24)	3 x 70	5.5	1.08	2.5	2.28	62.0	0.268	10.02
	3 x 95	5.5	1.16	2.5	2.36	66.0	0.193	13.59
	3 x 120	5.5	1.16	3.15	2.44	71.0	0.153	17.17
	3 x 150	5.5	1.24	3.15	2.52	74.0	0.124	21.47
	3 x 185	5.5	1.32	3.15	2.68	79.0	0.0991	26.47
	3 x 240	5.5	1.40	3.15	2.76	84.0	0.0754	34.34
	3 x 300	5.5	1.40	3.15	2.92	89.0	0.0601	42.93
	3 x 400	5.5	1.56	3.15	3.08	96.0	0.047	57.24
	3 x 500	5.5	1.64	3.15	3.24	104.0	0.0366	71.55
19/33 (36)	3 x 70	8.0	1.24	3.15	2.60	76.0	0.268	10.02
	3 x 95	8.0	1.32	3.15	2.68	79.0	0.193	13.59
	3 x 120	8.0	1.40	3.15	2.76	83.0	0.153	17.17
	3 x 150	8.0	1.40	3.15	2.84	86.0	0.124	21.47
	3 x 185	8.0	1.48	3.15	3.00	91.0	0.0991	26.47
	3 x 240	8.0	1.56	3.15	3.08	96.0	0.0754	34.34
	3 x 300	8.0	1.64	3.15	3.24	101.0	0.0601	42.93
	3 x 400	8.0	1.72	3.15	3.40	108.0	0.047	57.24
	3 x 500	8.0	1.80	3.15	3.56	116.0	0.0366	71.55

- Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

Medium Voltage Cable (Single-Core Armoured)

Standard	BS 7835
Conductor	Circular Stranded Compact Copper Conductor
Conductor Screen	Extruded Layer of semi Conducting Material
Insulation	XLPE (Type GP8)/EPR (Type GP7)
Insulation Screen	Extruded Layer of Strippable/Bonded semi Conducting Material
Metallic Screen	Copper Tape
Separation Sheath	Extruded Thermoplastic material
Armouring	Single layer of Aluminium Wire
Sheathing	Extruded Thermoplastic material,Type LTS 1
Operating Temperature	90°C for continuous operation and 250°C for short circuit conditions.
Minimum Bending Radius	15 Times overall diameter of the cable

Note :

• Cables are also available with Aluminium conductors and Copper wire Screen.

Voltage Grade (kv)	Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Extruded Separation (mm)	Nominal Aluminium Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20°C	Short Circuit rating of phase conductor (kA/sec)
3.8/6.6 (7.2)	1 x 70	2.5	0.76	1.6	1.24	25.0	0.268	10.02
	1 x 95	2.5	0.76	1.6	1.32	26.0	0.193	13.59
	1 x 120	2.5	0.76	1.6	1.32	28.0	0.153	17.17
	1 x 150	2.5	0.76	1.6	1.40	30.0	0.124	21.47
	1 x 185	2.5	0.76	2.0	1.40	32.0	0.0991	26.47
	1 x 240	2.6	0.76	2.0	1.48	35.0	0.0754	34.34
	1 x 300	2.8	0.76	2.0	1.56	37.0	0.0601	42.93
	1 x 400	3.0	0.76	2.0	1.64	41.0	0.047	57.24
	1 x 500	3.2	0.84	2.5	1.80	46.0	0.0366	71.55
	1 x 630	3.2	0.92	2.5	1.88	51.0	0.0283	90.2
	1 x 800	3.2	0.92	2.5	1.96	54.0	0.0221	114.5
	1 x 1000	3.2	1.00	2.5	2.12	59.0	0.0176	143.1
6.35/11 (12)	1 x 70	3.4	0.76	1.6	1.32	27.0	0.268	10.0
	1 x 95	3.4	0.76	1.6	1.32	28.0	0.193	13.6
	1 x 120	3.4	0.76	1.6	1.40	30.0	0.153	17.2
	1 x 150	3.4	0.76	2.0	1.48	32.0	0.124	21.5
	1 x 185	3.4	0.76	2.0	1.48	34.0	0.0991	26.5
	1 x 240	3.4	0.76	2.0	1.56	37.0	0.0754	34.3
	1 x 300	3.4	0.76	2.0	1.56	39.0	0.0601	42.9
	1 x 400	3.4	0.76	2.0	1.72	42.0	0.047	57.2
	1 x 500	3.4	0.84	2.5	1.80	47.0	0.0366	71.6
	1 x 630	3.4	0.92	2.5	1.88	51.0	0.0283	90.2
	1 x 800	3.4	0.92	2.5	1.96	55.0	0.0221	114.5
	1 x 1000	3.4	1.00	2.5	2.12	60.0	0.0176	143.1

• Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

Medium Voltage Cable (Single-Core Armoured)

Voltage Grade (kv)	Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Extruded Separation (mm)	Nominal Aluminium Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20°C	Short Circuit rating of phase conductor (kA/sec)
8.7/15 (17.5)	1 x 70	4.5	0.76	1.6	1.32	29.0	0.268	10.02
	1 x 95	4.5	0.76	2.0	1.40	31.0	0.193	13.59
	1 x 120	4.5	0.76	2.0	1.48	33.0	0.153	17.17
	1 x 150	4.5	0.76	2.0	1.48	35.0	0.124	21.47
	1 x 185	4.5	0.76	2.0	1.56	37.0	0.0991	26.47
	1 x 240	4.5	0.76	2.0	1.64	39.0	0.0754	34.34
	1 x 300	4.5	0.76	2.0	1.64	41.0	0.0601	42.93
	1 x 400	4.5	0.84	2.5	1.80	45.0	0.047	57.24
	1 x 500	4.5	0.84	2.5	1.88	49.0	0.0366	71.55
	1 x 630	4.5	0.92	2.5	1.96	53.0	0.0283	90.2
	1 x 800	4.5	1.00	2.5	2.04	57.0	0.0221	114.5
	1 x 1000	4.5	1.08	2.5	2.20	62.0	0.0176	143.1
12.7/22 (24)	1 x 70	5.5	0.76	2.0	1.40	32.0	0.268	10.0
	1 x 95	5.5	0.76	2.0	1.48	34.0	0.193	13.6
	1 x 120	5.5	0.76	2.0	1.48	35.0	0.153	17.2
	1 x 150	5.5	0.76	2.0	1.56	37.0	0.124	21.5
	1 x 185	5.5	0.76	2.0	1.56	39.0	0.0991	26.5
	1 x 240	5.5	0.76	2.0	1.64	41.0	0.0754	34.3
	1 x 300	5.5	0.84	2.5	1.72	44.0	0.0601	42.9
	1 x 400	5.5	0.84	2.5	1.80	47.0	0.047	57.2
	1 x 500	5.5	0.92	2.5	1.88	51.0	0.0366	71.6
	1 x 630	5.5	0.92	2.5	2.04	56.0	0.0283	90.2
	1 x 800	5.5	1.00	2.5	2.12	60.0	0.0221	114.5
	1 x 1000	5.5	1.08	2.5	2.20	64.0	0.0176	143.1
19/33 (36)	1 x 70	8.0	0.76	2.0	1.56	37.0	0.268	10.02
	1 x 95	8.0	0.76	2.0	1.64	39.0	0.193	13.59
	1 x 120	8.0	0.76	2.0	1.64	41.0	0.153	17.17
	1 x 150	8.0	0.84	2.5	1.72	43.0	0.124	21.47
	1 x 185	8.0	0.84	2.5	1.80	45.0	0.0991	26.47
	1 x 240	8.0	0.84	2.5	1.80	48.0	0.0754	34.34
	1 x 300	8.0	0.92	2.5	1.88	50.0	0.0601	42.93
	1 x 400	8.0	0.92	2.5	1.96	53.0	0.047	57.24
	1 x 500	8.0	1.00	2.5	2.04	57.0	0.0366	71.55
	1 x 630	8.0	1.00	2.5	2.12	61.0	0.0283	90.2
	1 x 800	8.0	1.08	2.5	2.28	65.0	0.0221	114.5
	1 x 1000	8.0	1.16	2.5	2.36	70.0	0.0176	143.1

- Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

Medium Voltage Cable (Single-Core with Termite Protection)

Standard	AS/NZS 1429.1
Conductor	Circular Stranded Compact Aluminium Conductor as per AS/NZS 1125
Conductor Screen	Extruded Layer of semi Conducting Material
Insulation	XLPE
Insulation Screen	Extruded Layer of Strippable semi Conducting Material
Longitudinal Water blocking	Water blocking tape above and below copper screen (Optional)
Metallic Screen	Copper Wire Screen + helically applied copper tape (E/F current capacity – Based on requirement)*
Composite Sheath (PVC + HDPE) with Termite Protection	
Inner Layer	Extruded Polyvinyl Chloride (Orange)
Termite Protection	Polyamide (Nylon -12) (Black)
Outer layer	HDPE (Black)
Operating temperature	Min. installation temperature: 0°C Operating temperature: -25°C to +90°C Emergency operating temperature: 105°C (max. operation of 36hrs, at 3 periods for 12 consecutive months use) Max. Short Circuit Temperature: 250°C"
Minimum Bending Radius	Fixed Installation : 20 Times overall diameter of the cable During Installation : 30 Times overall diameter of the cable

Note

- Cables are also available with Copper conductors.
- Above mentioned parameters are based on 3kA/sec earth fault current capacity of copper screen.

Voltage Grade (kv)	Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20°C	Short Circuit rating of phase conductor (kA/sec)
6.35/11 (12)	1 x 50	3.4	24.0	0.641	4.72
	1 x 70	3.4	25.0	0.443	6.61
	1 x 95	3.4	27.0	0.320	8.98
	1 x 120	3.4	29.0	0.253	11.34
	1 x 150	3.4	30.0	0.206	14.17
	1 x 185	3.4	32.0	0.164	17.48
	1 x 240	3.4	34.0	0.125	22.68
	1 x 300	3.4	36.0	0.100	28.35
	1 x 400	3.4	39.0	0.078	37.79
	1 x 500	3.4	43.0	0.061	47.24
	1 x 630	3.4	46.0	0.047	59.52
	1 x 800	3.4	51.0	0.037	75.59
	1 x 1000	3.4	55.0	0.029	94.48

- Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

Medium Voltage Cable (Single-Core with Termite Protection)

Voltage Grade (kv)	Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20°C	Short Circuit rating of phase conductor (kA/sec)
12.7/22 (24)	1 x 50	5.5	28.0	0.641	4.72
	1 x 70	5.5	30.0	0.443	6.61
	1 x 95	5.5	31.0	0.320	8.98
	1 x 120	5.5	33.0	0.253	11.34
	1 x 150	5.5	34.0	0.206	14.17
	1 x 185	5.5	36.0	0.164	17.48
	1 x 240	5.5	38.0	0.125	22.68
	1 x 300	5.5	41.0	0.100	28.35
	1 x 400	5.5	44.0	0.078	37.79
	1 x 500	5.5	47.0	0.061	47.24
	1 x 630	5.5	51.0	0.047	59.52
	1 x 800	5.5	55.0	0.037	75.59
	1 x 1000	5.5	60.0	0.029	94.48
19/33 (36)	1 x 50	8.0	33.0	0.641	4.72
	1 x 70	8.0	35.0	0.443	6.61
	1 x 95	8.0	36.0	0.320	8.98
	1 x 120	8.0	38.0	0.253	11.34
	1 x 150	8.0	39.0	0.206	14.17
	1 x 185	8.0	41.0	0.164	17.48
	1 x 240	8.0	44.0	0.125	22.68
	1 x 300	8.0	46.0	0.100	28.35
	1 x 400	8.0	49.0	0.078	37.79
	1 x 500	8.0	53.0	0.061	47.24
	1 x 630	8.0	56.0	0.047	59.52
	1 x 800	8.0	60.0	0.037	75.59
	1 x 1000	8.0	65.0	0.029	94.48

- Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

Medium Voltage Cable (Single-Core without Termite Protection)

Standard	AS/NZS 1429.1
Conductor	Circular Stranded Compact Aluminium Conductor as per AS/NZS 1125
Conductor Screen	Extruded Layer of semi Conducting Material
Insulation	XLPE
Insulation Screen	Extruded Layer of Strippable semi Conducting Material
Longitudinal Water blocking	Water blocking tape above and below copper screen (Optional)
Metallic Screen	Copper Wire Screen + helically applied copper tape (E/F current capacity – Based on requirement)*
Composite Sheath (PVC + HDPE)	
Inner Layer	Extruded Polyvinyl Chloride (Orange)
Outer layer	HDPE (Black)
Operating temperature	Min. installation temperature: 0°C Operating temperature: -25°C to +90°C Emergency operating temperature: 105°C (max. operation of 36hrs, at 3 periods for 12 consecutive months use) Max. Short Circuit Temperature: 250°C"
Minimum Bending Radius	Fixed Installation : 20 Times overall diameter of the cable During Installation : 30 Times overall diameter of the cable

Note

- Cables are also available with Copper conductors.
- Above mentioned parameters are based on 3kA/sec earth fault current capacity of copper screen.

Voltage Grade (kv)	Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20°C	Short Circuit rating of phase conductor (kA/sec)
6.35/11 (12)	1 x 50	3.4	23.0	0.641	4.72
	1 x 70	3.4	24.0	0.443	6.61
	1 x 95	3.4	26.0	0.320	8.98
	1 x 120	3.4	28.0	0.253	11.34
	1 x 150	3.4	29.0	0.206	14.17
	1 x 185	3.4	31.0	0.164	17.48
	1 x 240	3.4	33.0	0.125	22.68
	1 x 300	3.4	35.0	0.100	28.35
	1 x 400	3.4	38.0	0.078	37.79
	1 x 500	3.4	42.0	0.061	47.24
	1 x 630	3.4	45.0	0.047	59.52
	1 x 800	3.4	49.0	0.037	75.59
	1 x 1000	3.4	54.0	0.029	94.48

- Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

Medium Voltage Cable (Single-Core without Termite Protection)

Voltage Grade (kv)	Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20°C	Short Circuit rating of phase conductor (kA/sec)
12.7/22 (24)	1 x 50	5.5	27.0	0.641	4.72
	1 x 70	5.5	29.0	0.443	6.61
	1 x 95	5.5	30.0	0.320	8.98
	1 x 120	5.5	32.0	0.253	11.34
	1 x 150	5.5	33.0	0.206	14.17
	1 x 185	5.5	35.0	0.164	17.48
	1 x 240	5.5	37.0	0.125	22.68
	1 x 300	5.5	40.0	0.100	28.35
	1 x 400	5.5	43.0	0.078	37.79
	1 x 500	5.5	46.0	0.061	47.24
	1 x 630	5.5	50.0	0.047	59.52
	1 x 800	5.5	54.0	0.037	75.59
	1 x 1000	5.5	58.0	0.029	94.48
19/33 (36)	1 x 50	8.0	32.0	0.641	4.72
	1 x 70	8.0	34.0	0.443	6.61
	1 x 95	8.0	36.0	0.320	8.98
	1 x 120	8.0	37.0	0.253	11.34
	1 x 150	8.0	38.0	0.206	14.17
	1 x 185	8.0	40.0	0.164	17.48
	1 x 240	8.0	43.0	0.125	22.68
	1 x 300	8.0	45.0	0.100	28.35
	1 x 400	8.0	48.0	0.078	37.79
	1 x 500	8.0	51.0	0.061	47.24
	1 x 630	8.0	55.0	0.047	59.52
	1 x 800	8.0	59.0	0.037	75.59
	1 x 1000	8.0	64.0	0.029	94.48

- Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

Medium Voltage Cable (Three-Core with Termite Protection)

Standard	AS/NZS 1429.1
Conductor	Circular Stranded Compact Aluminium Conductor as per AS/NZS 1125
Conductor Screen	Extruded Layer of semi Conducting Material
Insulation	XLPE
Insulation Screen	Extruded Layer of Strippable semi Conducting Material
Longitudinal Water blocking	Water blocking tape above and below copper screen (Optional)
Metallic Screen	Copper Wire Screen + helically applied copper tape (E/F current capacity – Based on requirement)*
Core Identification	By coloured Tape (Red,White,Blue)
Assembly	All 3 phase cores laid up together with non hygroscopic fillers
Composite Sheath (PVC + HDPE) with Termite Protection	
Inner Layer	Extruded Polyvinyl Chloride (Orange)
Outer layer	HDPE (Black)
Operating temperature	Min. installation temperature: 0°C Operating temperature: -25°C to +90°C Emergency operating temperature: 105°C (max. operation of 36hrs, at 3 periods for 12 consecutive months use) Max. Short Circuit Temperature: 250°C"
Minimum Bending Radius	Fixed Installation : 20 Times overall diameter of the cable During Installation : 30 Times overall diameter of the cable

Note

- Cables are also available with Copper conductors.
- Above mentioned parameters are based on 3kA/sec earth fault current capacity of copper screen.

Voltage Grade (kv)	Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20°C	Short Circuit rating of phase conductor (kA/sec)
6.35/11 (12)	3 x 50	3.4	46.0	0.641	4.72
	3 x 70	3.4	50.0	0.443	6.61
	3 x 95	3.4	54.0	0.320	8.98
	3 x 120	3.4	57.0	0.253	11.34
	3 x 150	3.4	60.0	0.206	14.17
	3 x 185	3.4	64.0	0.164	17.48
	3 x 240	3.4	70.0	0.125	22.68
	3 x 300	3.4	75.0	0.100	28.35
	3 x 400	3.4	81.0	0.078	37.79

- Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

Medium Voltage Cable (Three-Core with Termite Protection)

Voltage Grade (kv)	Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20°C	Short Circuit rating of phase conductor (kA/sec)
12.7/22 (24)	3 x 50	5.5	56.0	0.641	4.72
	3 x 70	5.5	60.0	0.443	6.61
	3 x 95	5.5	63.0	0.320	8.98
	3 x 120	5.5	67.0	0.253	11.34
	3 x 150	5.5	70.0	0.206	14.17
	3 x 185	5.5	74.0	0.164	17.48
	3 x 240	5.5	79.0	0.125	22.68
	3 x 300	5.5	84.0	0.100	28.35
	3 x 400	5.5	90.0	0.078	37.79
19/33 (36)	3 x 50	8.0	68.0	0.641	4.72
	3 x 70	8.0	71.0	0.443	6.61
	3 x 95	8.0	75.0	0.320	8.98
	3 x 120	8.0	78.0	0.253	11.34
	3 x 150	8.0	82.0	0.206	14.17
	3 x 185	8.0	85.0	0.164	17.48
	3 x 240	8.0	91.0	0.125	22.68
	3 x 300	8.0	96.0	0.100	28.35
	3 x 400	8.0	102.0	0.078	37.79

- Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

Medium Voltage Cable (Three-Core without Termite Protection)

Standard	AS/NZS 1429.1
Conductor	Circular Stranded Compact Aluminium Conductor as per AS/NZS 1125
Conductor Screen	Extruded Layer of semi Conducting Material
Insulation	XLPE
Insulation Screen	Extruded Layer of Strippable semi Conducting Material
Longitudinal Water blocking	Water blocking tape above and below copper screen (Optional)
Metallic Screen	Copper Wire Screen + helically applied copper tape (E/F current capacity – Based on requirement)*
Core Identification	By coloured Tape (Red,White,Blue)
Assembly	All 3 phase cores laid up together with non hygroscopic fillers
Composite Sheath (PVC + HDPE)	
Inner Layer	Extruded Polyvinyl Chloride (Orange)
Outer layer	HDPE (Black)
Operating temperature	Min. installation temperature: 0°C Operating temperature: -25°C to +90°C Emergency operating temperature: 105°C (max. operation of 36hrs, at 3 periods for 12 consecutive months use) Max. Short Circuit Temperature: 250°C"
Minimum Bending Radius	Fixed Installation : 20 Times overall diameter of the cable During Installation : 30 Times overall diameter of the cable

Note

- Cables are also available with Copper conductors.
- Above mentioned parameters are based on 3kA/sec earth fault current capacity of copper screen.

Voltage Grade (kv)	Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20°C	Short Circuit rating of phase conductor (kA/sec)
6.35/11 (12)	3 x 50	3.4	45.0	0.641	4.72
	3 x 70	3.4	49.0	0.443	6.61
	3 x 95	3.4	53.0	0.320	8.98
	3 x 120	3.4	56.0	0.253	11.34
	3 x 150	3.4	59.0	0.206	14.17
	3 x 185	3.4	63.0	0.164	17.48
	3 x 240	3.4	69.0	0.125	22.68
	3 x 300	3.4	74.0	0.100	28.35
	3 x 400	3.4	80.0	0.078	37.79

- Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

Medium Voltage Cable (Three-Core without Termite Protection)

Voltage Grade (kv)	Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20°C	Short Circuit rating of phase conductor (kA/sec)
12.7/22 (24)	3 x 50	5.5	55.0	0.641	4.72
	3 x 70	5.5	59.0	0.443	6.61
	3 x 95	5.5	62.0	0.320	8.98
	3 x 120	5.5	66.0	0.253	11.34
	3 x 150	5.5	69.0	0.206	14.17
	3 x 185	5.5	73.0	0.164	17.48
	3 x 240	5.5	78.0	0.125	22.68
	3 x 300	5.5	83.0	0.100	28.35
	3 x 400	5.5	89.0	0.078	37.79
19/33 (36)	3 x 50	8.0	67.0	0.641	4.72
	3 x 70	8.0	70.0	0.443	6.61
	3 x 95	8.0	74.0	0.320	8.98
	3 x 120	8.0	77.0	0.253	11.34
	3 x 150	8.0	81.0	0.206	14.17
	3 x 185	8.0	84.0	0.164	17.48
	3 x 240	8.0	90.0	0.125	22.68
	3 x 300	8.0	95.0	0.100	28.35
	3 x 400	8.0	101.0	0.078	37.79

- Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

Medium Voltage Cable (Single-Core Copper Wire Screened Cables)

Standard	BS 7870-4.10
Conductor	Circular Stranded Compact Copper Conductor
Conductor Screen	Extruded Layer of semi Conducting Material
Insulation	XLPE (Type DIX 3) /EPR (Type DIE 5)
Insulation Screen	Extruded Layer of Strippable/Bonded semi Conducting Material
Metallic Screen	Copper Wire Screen with Counter Helix Copper Tape (Area 35mm2)
Sheathing	Extruded MDPE
Operating temperature	90°C for continuous operation and 250°C for short circuit conditions.
Minimum Bending Radius	20 Times overall diameter of the cable

Note

• Cables are also available with Aluminium conductors.

Voltage Grade (kv)	Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum average thickness of outersheath (mm)	Minimum thickness of outersheath at any point (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20°C	Short Circuit rating of phase conductor (kA/sec)
6.35/11 (12)	1 x 70	3.4	1.7	1.34	26.0	0.268	10.02
	1 x 95	3.4	1.8	1.43	27.5	0.193	13.59
	1 x 120	3.4	1.8	1.43	29.0	0.153	17.17
	1 x 150	3.4	1.9	1.51	31.0	0.124	21.47
	1 x 185	3.4	1.9	1.51	32.5	0.0991	26.47
	1 x 240	3.4	2.0	1.60	35.0	0.0754	34.34
	1 x 300	3.4	2.1	1.68	37.5	0.0601	42.93
	1 x 400	3.4	2.2	1.77	40.5	0.047	57.24
	1 x 500	3.4	2.3	1.85	44.5	0.0366	71.55
	1 x 630	3.4	2.4	1.94	48.5	0.0283	90.2
	1 x 800	3.4	2.5	2.02	53.0	0.0221	114.5
	1 x 1000	3.4	2.6	2.11	57.5	0.0176	143.1
12.7/22 (24)	1 x 70	5.5	1.9	1.51	32.0	0.268	10.0
	1 x 95	5.5	1.9	1.51	34.0	0.193	13.6
	1 x 120	5.5	2.0	1.60	35.0	0.153	17.2
	1 x 150	5.5	2.0	1.60	37.0	0.124	21.5
	1 x 185	5.5	2.1	1.68	39.5	0.0991	26.5
	1 x 240	5.5	2.2	1.77	41.5	0.0754	34.3
	1 x 300	5.5	2.2	1.77	44.0	0.0601	42.9
	1 x 400	5.5	2.3	1.85	47.0	0.047	57.2
	1 x 500	5.5	2.4	1.94	51.0	0.0366	71.6
	1 x 630	5.5	2.5	2.02	54.5	0.0283	90.2
	1 x 800	5.5	2.7	2.19	60.0	0.0221	114.5
	1 x 1000	5.5	2.8	2.28	64.5	0.0176	143.1
	1 x 70	8.0	2.0	1.60	36.0	0.268	10.02
	1 x 95	8.0	2.1	1.68	38.0	0.193	13.59
	1 x 120	8.0	2.1	1.68	39.5	0.153	17.17
	1 x 150	8.0	2.2	1.77	41.0	0.124	21.47
19/33 (36)	1 x 185	8.0	2.2	1.77	42.5	0.0991	26.47
	1 x 240	8.0	2.3	1.85	45.0	0.0754	34.34
	1 x 300	8.0	2.4	1.94	47.5	0.0601	42.93
	1 x 400	8.0	2.5	2.02	51.0	0.047	57.24
	1 x 500	8.0	2.6	2.11	54.5	0.0366	71.55
	1 x 630	8.0	2.7	2.19	58.5	0.0283	90.2
	1 x 800	8.0	2.8	2.28	63.5	0.0221	114.5
	1 x 1000	8.0	3.0	2.45	68.0	0.0176	143.1

• Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

35kV Single-Core MV 105 Aluminium TR-XLPE 100% IL with XLPE Jacket

Standard	UL 1072, ICEA S-94-649
Conductor	Filled (i.e. Water Blocked) Stranded Aluminium Alloy 1350 conductor, Class B as per ASTM B-231
Conductor Screen	Extruded Layer of semi Conducting Material
Insulation	Tree-Retardant Cross-linked Polyethylene (TRXLPE) - 100% or 133% insulation level.
Insulation Screen	Extruded Layer of Strippable/Bonded semi Conducting Material
Metallic Screen	Concentric Copper Wire Screening
Water Blocking Agent	Shall be applied around the neutral wires to resist longitudinal water penetration.
Outer Sheath	Extruded-to-fill non-conducting cross-linked polyethene jacket
Colour	Black Colour with three longitudinal extruded red stripes.
Operating temperature	Fixed: -40˚C to +105˚C 105ºC for Continuous operation 140ºC for Emergency conditions 350ºC for Short circuit conditions (* Operation at the emergency overload temperature shall not exceed 1500 hours cumulative during the lifetime of the cable.)
Minimum Bending Radius	For fixed installation - > 20 Times overall diameter of the cable For occasional movement - > 15 Times overall diameter of the cable

Note

- Cables are also available with Copper conductors.
- Ampacities based on cables operating in a 3-phase installation with one cable per phase, flat spaced and touching, earth rho of 90 °C-cm/W, earth ambient of 20ºC, neutral wires grounded at both ends, 75% load factor, conductor temperature of 105ºC, and 36" depth of burial.

Nominal Cross Section (Core x AWG/kcmil)	Nominal Insulation Thickness (mils) 100%IL	Concentric Neutral			Nominal Thickness of Jacket (mils)	Approx. Overall Diameter (inch)	Ampacity Direct Buried		Conductor DC Resistance @ 20˚C (ohm/km)
		Size	No.of Wires	Size of Wires (AWG)			Flat (Amp)	Trefoil (Amp)	
1 x 1500	345	1/6	14	14	60	2.56	892	934	0.0380
1 x 1500	345	1/6	19	14	60	2.56	892	934	0.0380
1 x 1500	345	1/6	18	12	60	2.56	892	934	0.0380
1 x 1500	345	1/6	24	12	60	2.56	892	934	0.0380
1 x 1500	345	1/6	22	10	60	2.60	892	934	0.0380
1 x 1250	345	1/12	12	14	60	2.44	836	863	0.0453
1 x 1250	345		17	14	60	2.44	836	863	0.0453
1 x 1250	345		11	12	60	2.44	836	863	0.0453
1 x 1250	345	1/6	15	12	60	2.44	836	863	0.0453
1 x 1250	345	1/3	18	10	60	2.52	836	863	0.0453
1 x 1000	345	1/12	10	14	60	2.36	761	772	0.0568
1 x 1000	345		12	14	60	2.36	761	772	0.0568
1 x 1000	345		15	14	60	2.36	761	772	0.0568
1 x 1000	345		10	12	60	2.40	761	772	0.0568
1 x 1000	345	1/6	12	12	60	2.40	761	772	0.0568
1 x 1000	345	1/3	23	12	60	2.40	761	772	0.0568
1 x 1000	345	1/2	22	10	60	2.44	761	772	0.0568
1 x 750	345	1/6	15	16	60	2.17	638	648	0.0758
1 x 750	345		13	14	60	2.20	638	648	0.0758
1 x 750	345	1/6	14	14	60	2.20	638	648	0.0758
1 x 750	345		8	12	60	2.24	638	648	0.0758
1 x 750	345	1/3	18	12	60	2.24	638	648	0.0758
1 x 750	345	1/2	17	10	60	2.28	638	648	0.0758

- Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

35kV Single-Core MV 105 Aluminium TR-XLPE 100% IL with XLPE Jacket

Nominal Cross Section (Core x AWG/kcmil)	Nominal Insulation Thickness (mils) 100%IL	Concentric Neutral			Nominal Thickness of Jacket (mils)	Approx. Overall Diameter (inch)	Ampacity Direct Buried		Conductor DC Resistance @ 20°C (ohm/km)
		Size	No.of Wires	Size of Wires (AWG)			Flat (Amp)	Trefoil (Amp)	
1 x 500	345	1/6	10	14	60	2.01	530	533	0.1140
1 x 500	345	1/3	12	14	60	2.01	530	533	0.1140
1 x 500	345	1/3	12	12	60	2.05	530	533	0.1140
1 x 500	345	1/2	18	12	60	2.05	530	533	0.1140
1 x 500	345	2/3	23	12	60	2.05	530	533	0.1140
1 x 350	345	1/6	11	16	45	1.77	431	434	0.1620
1 x 350	345		11	14	45	1.81	431	434	0.1620
1 x 350	345	1/3	13	14	45	1.81	431	434	0.1620
1 x 350	345	1/2	20	14	45	1.81	431	434	0.1620
1 x 350	345		7	12	45	1.81	431	434	0.1620
1 x 350	345	2/3	16	12	45	1.81	431	434	0.1620
1 x 250	345	2/3	8	16	45	1.65	361	363	0.2280
1 x 250	345	1/3	10	14	45	1.65	361	363	0.2280
1 x 250	345	1/2	14	14	45	1.65	361	363	0.2280
1 x 250	345	2/3	19	14	45	1.65	361	363	0.2280
1 x 4/0	345	1/3	8	14	45	1.65	327	328	0.269
1 x 4/0	345	1/2	12	14	45	1.65	327	328	0.269
1 x 4/0	345	2/3	15	14	45	1.65	327	328	0.269
1 x 4/0	345	Full	23	14	45	1.65	327	328	0.269
1 x 3/0	345	1/3	11	16	45	1.54	285	286	0.338
1 x 3/0	345	1/2	15	16	45	1.54	285	286	0.338
1 x 3/0	345	2/3	13	14	45	1.54	285	286	0.338
1 x 3/0	345		15	14	45	1.54	285	286	0.338
1 x 3/0	345	Full	19	14	45	1.54	285	286	0.338
1 x 3/0	345		7	12	45	1.57	285	286	0.338
1 x 2/0	345	1/3	9	16	45	1.50	250	251	0.427
1 x 2/0	345	1/2	12	16	45	1.50	250	251	0.427
1 x 2/0	345	2/3	16	16	45	1.50	250	251	0.427
1 x 2/0	345	Full	15	14	45	1.54	250	251	0.427
1 x 1/0	345	1/3	7	16	45	1.42	216	217	0.538
1 x 1/0	345	1/2	10	16	45	1.42	216	217	0.538
1 x 1/0	345	2/3	13	16	45	1.42	216	217	0.538
1 x 1/0	345	Full	15	16	45	1.42	216	217	0.538
1 x 1/0	345	Full	12	14	45	1.46	216	217	0.538
1 x 1/0	345		16	14	45	1.46	216	217	0.538
1 x 1/0	345		6	14	45	1.46	216	217	0.538

- Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

35kV Single-Core MV 90 Aluminium TR-XLPE 100% IL with LLDPE Jacket

Standard	UL 1072, ICEA S-94-649
Conductor	Filled (i.e. Water Blocked) Stranded Aluminium Alloy 1350 conductor, Class B as per ASTM B-231
Conductor Screen	Extruded Layer of semi Conducting Material
Insulation	Tree-Retardant Cross-linked Polyethylene (TRXLPE) - 100% or 133% insulation level.
Insulation Screen	Extruded Layer of Strippable/Bonded semi Conducting Material
Metallic Screen	Concentric Copper Wire Screening
Water Blocking Agent	Shall be applied around the neutral wires to resist longitudinal water penetration.
Outer Sheath	Extruded-to-fill non-conducting linear low density polyethene jacket
Colour	Black Colour with three longitudinal extruded red stripes.
Operating temperature	Fixed: -40˚C to +90˚C 90°C for Continuous operation 130°C for Emergency conditions 250°C for Short circuit conditions (* Operation at the emergency overload temperature shall not exceed 1500 hours cumulative during the lifetime of the cable.)
Minimum Bending Radius	For fixed installation - > 20 Times overall diameter of the cable For occasional movement - > 15 Times overall diameter of the cable

Note

- Cables are also available with Copper conductors.
- Ampacities based on cables operating in a 3-phase installation with one cable per phase, flat spaced and touching, earth rho of 90 °C-cm/W, earth ambient of 20°C, neutral wires grounded at both ends, 75% load factor, conductor temperature of 105°C, and 36" depth of burial.

Nominal Cross Section (Core x AWG/kcmil)	Nominal Insulation Thickness (mils) 100%IL	Concentric Neutral			Nominal Thickness of Jacket (mils)	Approx. Overall Diameter (inch)	Ampacity Direct Buried		Conductor DC Resistance @ 20˚C (ohm/km)
		Size	No.of Wires	Size of Wires (AWG)			Flat (Amp)	Trefoil (Amp)	
1 x 1500	345	1/12	19	14	80	2.56	892	934	0.038
1 x 1500	345	1/6	24	12	80	2.56	892	934	0.038
1 x 1500	345	1/3	24	9	80	2.64	892	934	0.038
1 x 1250	345	1/12	16	14	80	2.44	836	863	0.0453
1 x 1250	345	1/8	15	12	80	2.44	836	863	0.0453
1 x 1250	345	1/6	20	12	80	2.44	836	863	0.0453
1 x 1250	345	1/6	22	12	80	2.44	836	863	0.0453
1 x 1250	345	1/3	25	10	80	2.52	836	863	0.0453
1 x 1250	345	1/2	30	9	80	2.52	836	863	0.0453
1 x 1000	345	1/12	13	14	80	2.36	761	772	0.0568
1 x 1000	345	1/6	16	12	80	2.40	761	772	0.0568
1 x 1000	345	1/3	22	12	80	2.40	761	772	0.0568
1 x 1000	345	1/3	20	10	80	2.44	761	772	0.0568
1 x 1000	345	1/2	30	10	80	2.44	761	772	0.0568
1 x 750	345	1/12	10	14	80	2.20	638	648	0.0758
1 x 750	345	1/6	19	14	80	2.20	638	648	0.0758
1 x 750	345	1/3	22	12	80	2.24	638	648	0.0758
1 x 750	345	1/3	24	12	80	2.24	638	648	0.0758
1 x 750	345	1/2	23	10	80	2.28	638	648	0.0758
1 x 500	345	1/12	10	16	80	1.97	530	533	0.114
1 x 500	345	1/6	13	14	80	2.01	530	533	0.114
1 x 500	345	1/3	16	12	80	2.05	530	533	0.114
1 x 500	345	1/2	24	12	80	2.05	530	533	0.114

- Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

35kV Single-Core MV 90 Aluminium TR-XLPE 100%IL with LLDPE Jacket

Nominal Cross Section (Core x AWG/kcmil)	Nominal Insulation Thickness (mils) 100%IL	Concentric Neutral			Nominal Thickness of Jacket (mils)	Approx. Overall Diameter (inch)	Ampacity Direct Buried		Conductor DC Resistance @ 20°C (ohm/km)
		Size	No.of Wires	Size of Wires (AWG)			Flat (Amp)	Trefoil (Amp)	
1 x 500	345	2/3	20	10	80	2.09	530	533	0.114
1 x 350	345	1/12	7	16	80	1.77	431	434	0.162
1 x 350	345	1/6	9	14	80	1.81	431	434	0.162
1 x 350	345	1/3	18	14	80	1.81	431	434	0.162
1 x 350	345	1/2	17	12	80	1.81	431	434	0.162
1 x 350	345	2/3	22	12	80	1.81	431	434	0.162
1 x 350	345	Full	16	9	80	1.89	431	434	0.162
1 x 250	345	1/12	6	16	50	1.65	361	363	0.228
1 x 250	345	1/6	10	16	50	1.65	361	363	0.228
1 x 250	345	1/3	13	14	50	1.65	361	363	0.228
1 x 250	345	1/2	16	12	50	1.69	361	363	0.228
1 x 250	345	2/3	21	12	50	1.69	361	363	0.228
1 x 250	345	Full	16	10	50	1.73	361	363	0.228
1 x 4/0	345	1/6	6	14	50	1.65	327	328	0.269
1 x 4/0	345	1/3	11	14	50	1.65	327	328	0.269
1 x 4/0	345	1/2	16	14	50	1.65	327	328	0.269
1 x 4/0	345	2/3	21	14	50	1.65	327	328	0.269
1 x 4/0	345	Full	20	12	50	1.65	327	328	0.269
1 x 3/0	345	1/6	7	16	50	1.54	285	286	0.338
1 x 3/0	345	1/3	9	14	50	1.54	285	286	0.338
1 x 3/0	345	1/2	13	14	50	1.54	285	286	0.338
1 x 3/0	345	2/3	17	14	50	1.54	285	286	0.338
1 x 3/0	345	Full	16	12	50	1.57	285	286	0.338
1 x 3/0	345		19	12	50	1.57	285	286	0.338
1 x 2/0	345	1/6	6	16	50	1.50	250	251	0.427
1 x 2/0	345	1/3	7	14	50	1.54	250	251	0.427
1 x 2/0	345	1/2	10	14	50	1.54	250	251	0.427
1 x 2/0	345	2/3	14	14	50	1.54	250	251	0.427
1 x 2/0	345		20	14	50	1.54	250	251	0.427
1 x 2/0	345	Full	13	12	50	1.57	250	251	0.427
1 x 1/0	345	1/6	6	16	50	1.42	216	217	0.538
1 x 1/0	345	1/3	9	16	50	1.42	216	217	0.538
1 x 1/0	345	1/3	6	14	50	1.46	216	217	0.538
1 x 1/0	345	1/3	8	14	50	1.46	216	217	0.538
1 x 1/0	345	2/3	11	14	50	1.46	216	217	0.538
1 x 1/0	345	Full	16	14	50	1.46	216	217	0.538

- Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

35kV Single-Core MV 105 Aluminium TR-XLPE 100% IL with PVC Jacket

Standard	UL 1072, ICEA S-97-682
Conductor	Filled (i.e. Water Blocked) Stranded Aluminium Alloy 1350 conductor, Class B as per ASTM B-231
Conductor Screen	Extruded Layer of semi Conducting Material
Insulation	Tree-Retardant Cross-linked Polyethylene (TRXLPE) - 100% or 133% insulation level.
Insulation Screen	Extruded Layer of Strippable/Bonded semi Conducting Material
Metallic Screen	Copper Tape screening with 25% overlap
Outer Sheath	Extruded non-conducting PVC jacket
Colour	Black
Operating temperature	Fixed: -40˚C to +105˚C 105°C for Continuous operation 140°C for Emergency conditions 350°C for Short circuit conditions (*Operation at the emergency overload temperature shall not exceed 1500 hours cumulative during the lifetime of the cable.)
Minimum Bending Radius	For fixed installation - > 20 Times overall diameter of the cable For occasional movement - > 15 Times overall diameter of the cable

Note

• Cables are also available with Copper conductors.

• Ampacities based on cables operating in a 3-phase installation with one cable per phase, flat spaced and touching, earth rho of 90 °C-cm/W, earth ambient of 20°C, neutral wires grounded at both ends, 75% load factor, conductor temperature of 105°C, and 36" depth of burial.

Nominal Cross Section (Core x AWG/kcmil)	Nominal Insulation Thickness (mils) 100%IL	Copper Tape Size (mil)	Nominal Thickness of Jacket (mils)	Approx. Overall Diameter (inch)	Ampacity Direct Buried		Conductor DC Resistance @ 20˚C (ohm/km)
					Flat (Amp)	Trefoil (Amp)	
1 x 1000	345	5	110	2.24	745	615	0.0568
1 x 750	345	5	110	2.09	640	525	0.0758
1 x 500	345	5	110	1.93	510	410	0.114
1 x 350	345	5	80	1.73	415	340	0.162
1 x 250	345	5	80	1.61	345	275	0.228
1 x 4/0	345	5	80	1.57	310	250	0.269
1 x 3/0	345	5	80	1.46	275	220	0.338
1 x 2/0	345	5	80	1.46	240	190	0.427
1 x 1/0	345	5	80	1.38	210	170	0.538

• Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

Single-Core MV 105 Copper EPR 100% IL with PVC Jacket

Standard	UL 1072, ICEA S-93-639
Conductor	Stranded Copper conductor, Class B as per ASTM B8
Conductor Screen	Extruded Layer of semi Conducting Material
Insulation	EPR - 100% or 133% insulation level.
Insulation Screen	Extruded Layer of Strippable/Bonded semi Conducting Material
Metallic Screen	Copper Tape screening with 25% overlap
Outer Sheath	Extruded non-conducting PVC jacket
Colour	Black
Operating temperature	Fixed: -40˚C to +105˚C 105°C for Continuous operation 140°C for Emergency conditions 350°C for Short circuit conditions (* Operation at the emergency overload temperature shall not exceed 1500 hours cumulative during the lifetime of the cable.)
Minimum Bending Radius	For fixed installation - > 20 Times overall diameter of the cable For occasional movement - > 15 Times overall diameter of the cable

Note

* Ampacities are in accordance with Table 310.60(C)(73) of the NEC for three single Type MV-105 conductors, or single conductors twisted together (triplexed) and installed in an isolated conduit in air at an ambient temperatureof 40°C and a conductor temperature of 105°C.

** Ampacities are in accordance with Table 310.60(C)(81) of the NEC for an insulated single conductor directly buried with a conductor temperature rating of 105°C, ambient earth temperature of 20°C, 100% Load Factor, thermal resistance (RHO) of 90, 7 1/2 inch spacing between conductor center lines, and 24 inch spacing between circuits.

***Ampacities are in accordance with Table 310.60(C)(77) of the NEC for three single conductors or triplexed cable in one underground raceway, three feet deep with a conductor temperature of 105°C, 100% Load Factor, an ambient earth temperature of 20°C, and thermal resistance (RHO) of 90.

Voltage Grade	Nominal Cross Section (Core x AWG/kcmil)	Nominal Insulation Thickness (mils) 100%IL	Copper Tape Size (mil)	Nominal Thickness of Jacket (mils)	Approx. Overall Diameter (inch)	Ampacities			Conductor DC Resistance @ 20˚C (ohm/km)
						Conduit in Air (Amp)*	Direct Burial (Amp)**	Underground Duct (Amp)***	
35kV	1 x 1000	345	5	100	2.24	755	1005	690	0.035
	1 x 750	345	5	100	2.09	655	865	610	0.047
	1 x 500	345	5	100	1.93	535	700	500	0.071
	1 x 350	345	5	70	1.73	440	575	415	0.101
	1 x 250	345	5	70	1.61	365	475	345	0.142
	1 x 4/0	345	5	70	1.57	330	435	315	0.167
	1 x 3/0	345	5	70	1.46	290	380	275	0.211
	1 x 2/0	345	5	70	1.46	255	335	245	0.266
	1 x 1/0	345	5	70	1.38	215	295	215	0.335
15kV	1 x 1000	175	5	70	1.72	755	1005	690	0.035
	1 x 750	175	5	70	1.55	655	865	610	0.047
	1 x 500	175	5	70	1.38	535	700	500	0.071
	1 x 350	175	5	70	1.26	440	575	415	0.101
	1 x 250	175	5	70	1.18	365	475	345	0.142
	1 x 4/0	175	5	70	1.12	330	435	315	0.167
	1 x 3/0	175	5	70	1.07	290	380	275	0.211
	1 x 2/0	175	5	70	1.02	255	335	245	0.266
	1 x 1/0	175	5	70	0.98	215	295	215	0.335
5kV or 8kV	1 x 1000	115	5	70	1.57	755	1005	690	0.035
	1 x 750	115	5	70	1.43	655	865	610	0.047
	1 x 500	115	5	70	1.25	535	700	500	0.071
	1 x 350	115	5	70	1.14	440	575	415	0.101
	1 x 250	115	5	70	1.04	365	475	345	0.142
	1 x 4/0	115	5	70	0.99	330	435	315	0.167
	1 x 3/0	115	5	70	0.93	290	380	275	0.211
	1 x 2/0	115	5	55	0.85	255	335	245	0.266
	1 x 1/0	115	5	55	0.81	215	295	215	0.335

- Dimensions & Weights are representative figures and may vary ± 5%

MV Power Cables

Three-Core MV 105 Copper EPR 100% IL with PVC Jacket

Standard	UL 1072, ICEA S-93-639
Conductor	Stranded Copper conductor, Class B as per ASTM B8
Conductor Screen	Extruded Layer of semi Conducting Material
Insulation	EPR - 100% or 133% insulation level.
Insulation Screen	Extruded Layer of Strippable/Bonded semi Conducting Material
Metallic Screen	Copper Tape screening with 12.5% overlap
Phase Identification	By Coloured Tape (Black,Red,Blue)
Grounding Conductor	Uncoated copper compact stranded per ASTM B-496 and sized in accordance with UL 1072.
Assembly	Cabled with fillers and ground wire in the interstices, binder tape overall
Outer Sheath	Extruded non-conducting PVC jacket
Colour	Black
Operating temperature	Fixed: -40˚C to +105˚C 105°C for Continuous operation 140°C for Emergency conditions 350°C for Short circuit conditions (* Operation at the emergency overload temperature shall not exceed 1500 hours cumulative during the lifetime of the cable.)
Minimum Bending Radius	For fixed installation - > 20 Times overall diameter of the cable For occasional movement - > 15 Times overall diameter of the cable

Note

* Ampacities are in accordance with Table 310.60(C)(71) of the NEC for an insulated three conductor cable, isolated in air, with a conductor operating temperature of 105°C and an ambient air temperature of 40°C.

** Ampacities are in accordance with Table 310.60(C)(75) of the NEC for a three conductor Type MV-105 cable installed in uncovered cable tray in accordance with Section 392.80(B) of the NEC with a conductor operating temperature of 105°C and ambient air temperature of 40°C. Where the cable tray is covered for more than six feet with solid unventilated covers, the ampacities shall not be more than 95% of the values shown above.

***Ampacities are in accordance with Table 310.60(C)(83) of the NEC for an insulated three conductor cable directly buried in the earth with a conductor operating temperature of 105°C, ambient earth temperature of 20°C, 100% load factor, thermal resistance (RHO) of 90.

Voltage Grade	Nominal Cross Section (Core x AWG/kcmil)	Nominal Insulation Thickness (mils) 100%IL	Grounding conductor size AWG	Copper Tape Size (mil)	Nominal Thickness of Jacket (mils)	Approx. Overall Diameter (inch)	Ampacity			Conductor DC Resistance @ 20˚C (ohm/km)
							Conduit in Air (Amp)*	Direct Burial (Amp)**	Underground Duct (Amp)***	
15kV	3 x 750	175	1/0	5	100	2.90	745	635	720	0.047
	3 x 500	175	1	5	100	2.62	600	525	590	0.071
	3 x 350	175	2	5	100	2.59	490	430	495	0.101
	3 x 250	175	3	5	100	2.39	400	350	410	0.142
	3 x 4/0	175	3	5	100	2.28	360	320	375	0.167
	3 x 2/0	175	4	5	70	2.06	275	245	290	0.266
	3 x 1/0	175	4	5	70	1.97	240	215	255	0.335
5kV or 8kV	3 x 500	115	1	5	100	2.50	545	475	570	0.071
	3 x 350	115	2	5	100	2.23	440	390	475	0.101
	3 x 250	115	3	5	70	2.13	355	315	395	0.142
	3 x 4/0	115	3	5	70	2.02	320	285	360	0.167
	3 x 2/0	115	4	5	70	1.80	240	210	280	0.266
	3 x 1/0	115	4	5	70	1.65	205	185	245	0.335
35kV	3 x 500	345	1	5	125	3.82	600	525	590	0.071
	3 x 350	345	2	5	125	3.54	490	430	495	0.101
	3 x 250	345	3	5	125	3.35	400	350	410	0.142
	3 x 4/0	345	3	5	125	3.23	360	320	375	0.167

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Single Core Armoured Power Cables to BS 5467

Standard	BS 5467 Latest
Voltage	600/1000 V
Conductor	Annealed Circular Copper conductor Class 2 as per EN 60228
Insulation	Thermosetting insulation either type GP 8 conforming to BS 7655-1.3, or Type GP 6 conforming to BS 7655-1.2
Core identification	Brown or Blue.
Bedding	Extruded Polymeric material (PVC)
Armouring	Single layer of Aluminium Wire
Sheath	PVC Type 9 confirming to BS 7655-4.2.
Color of Outer Sheath	Black
Temperature limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 times Overall diameter

Should not be installed at temperatures below 0°C

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Extruded Bedding (mm)	Nominal Aluminium Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)
1 x 50	1.0	0.44	0.9	1.00	17.5
1 x 70	1.1	0.44	1.25	1.00	20.2
1 x 95	1.1	0.44	1.25	1.08	22.3
1 x 120	1.2	0.44	1.25	1.08	24.2
1 x 150	1.4	0.60	1.6	1.16	27.4
1 x 185	1.6	0.60	1.6	1.24	30.0
1 x 240	1.7	0.60	1.6	1.24	32.8
1 x 300	1.8	0.60	1.6	1.32	35.6
1 x 400	2.0	0.76	2.0	1.40	40.5
1 x 500	2.2	0.76	2.0	1.48	44.2
1 x 630	2.4	0.76	2.0	1.56	48.8
1 x 800	2.6	0.92	2.5	1.72	55.4
1 x 1000	2.8	0.92	2.5	1.80	60.6

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multicore Armoured Power Cables to BS 5467

Standard	BS 5467 Latest
Voltage	600/1000 V
Conductor	Annealed Copper conductor Class 2 as per EN 60228 Upto 16mm2 - Stranded Circular Above 16mm2 - Stranded Sector Shaped
Insulation	Thermosetting insulation either type GP 8 conforming to BS 7655-1.3, or Type GP 6 conforming to BS 7655-1.2
Core identification	Two core: Brown, Blue. Three-core: Brown, Black, Grey. Four-core: Blue, Brown, Black, Grey. Five-core: Green-and-yellow, Blue, Brown, Black, Grey.
Bedding	Extruded Polymeric material (PVC)
Armouring	Single layer of Galvanised Steel Wire
Sheath	PVC Type 9 confirming to BS 7655-4.2.
Color of Outer Sheath	Black
Temperature limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	12 times Overall diameter

Should not be installed at temperatures below 0°C

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Extruded Bedding (mm)	Nominal Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)
2 x 1.5	0.6	0.44	0.9	0.84	12.1
2 x 2.5	0.7	0.44	0.9	0.92	13.6
2 x 4	0.7	0.44	0.9	0.92	14.7
2 x 6	0.7	0.44	0.9	0.92	15.9
2 x 10	0.7	0.44	0.9	1.00	18.0
2 x 16	0.7	0.44	1.25	1.00	20.4
2 x 25	0.9	0.44	1.25	1.08	20.4
2 x 35	0.9	0.60	1.6	1.16	23.3
2 x 50	1.0	0.60	1.6	1.24	25.8
2 x 70	1.1	0.60	1.6	1.32	29.0
2 x 95	1.1	0.76	2.0	1.40	33.1
2 x 120	1.2	0.76	2.0	1.48	36.1
2 x 150	1.4	0.76	2.0	1.56	39.3
2 x 185	1.6	0.92	2.5	1.72	44.7
2 x 240	1.7	0.92	2.5	1.80	49.0
2 x 300	1.8	1.08	2.5	1.88	53.5
2 x 400	2.0	1.08	2.5	2.04	59.0
3 x 1.5	0.6	0.44	0.9	0.84	12.6
3 x 2.5	0.7	0.44	0.9	0.92	14.1
3 x 4	0.7	0.44	0.9	0.92	15.3
3 x 6	0.7	0.44	0.9	0.92	16.6
3 x 10	0.7	0.44	1.25	1.00	19.5
3 x 16	0.7	0.44	1.25	1.08	21.6
3 x 25	0.9	0.60	1.6	1.16	23.6

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multicore Armoured Power Cables to BS 5467

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Extruded Bedding (mm)	Nominal Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)
3 x 35	0.9	0.60	1.6	1.24	25.7
3 x 50	1.0	0.60	1.6	1.24	28.5
3 x 70	1.1	0.60	1.6	1.32	32.2
3 x 95	1.1	0.76	2.0	1.48	37.0
3 x 120	1.2	0.76	2.0	1.56	40.4
3 x 150	1.4	0.92	2.5	1.64	45.5
3 x 185	1.6	0.92	2.5	1.72	49.8
3 x 240	1.7	0.92	2.5	1.88	55.1
3 x 300	1.8	1.08	2.5	1.96	60.2
3 x 400	2.0	1.08	2.5	2.12	66.6
4 x 1.5	0.6	0.44	0.9	0.84	13.3
4 x 2.5	0.7	0.44	0.9	0.92	15.0
4 x 4	0.7	0.44	0.9	0.92	16.4
4 x 6	0.7	0.44	1.25	1.00	18.7
4 x 10	0.7	0.44	1.25	1.00	21.1
4 x 16	0.7	0.44	1.25	1.08	23.4
4 x 25	0.9	0.60	1.6	1.16	26.1
4 x 35	0.9	0.60	1.6	1.24	28.6
4 x 50	1.0	0.60	1.6	1.32	32.0
4 x 70	1.1	0.76	2.0	1.48	37.7
4 x 95	1.1	0.76	2.0	1.56	41.7
4 x 120	1.2	0.92	2.5	1.64	47.1
4 x 150	1.4	0.92	2.5	1.72	51.4
4 x 185	1.6	0.92	2.5	1.88	56.6
4 x 240	1.7	1.08	2.5	1.96	63.0
4 x 300	1.8	1.08	2.5	2.12	68.8
4 x 400	2.0	1.24	3.15	2.36	78.1
5 x 1.5	0.6	0.44	0.9	0.92	14.3
5 x 2.5	0.7	0.44	0.9	0.92	16.1
5 x 4	0.7	0.44	0.9	1.00	17.8
5 x 6	0.7	0.44	1.25	1.00	20.0
5 x 10	0.7	0.44	1.25	1.08	22.9
5 x 16	0.7	0.60	1.6	1.16	26.6
5 x 25	0.9	0.60	1.6	1.24	31.5
5 x 35	0.9	0.60	1.6	1.32	34.8
5 x 50	1.0	0.76	2.0	1.40	40.4
5 x 70	1.1	0.76	2.0	1.56	46.3

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multicore Armoured Control Cables to BS 5467

Standard	BS 5467 Latest
Voltage	600/1000 V
Conductor	Annealed Circular Copper conductor Class 2 as per EN 60228
Insulation	Thermosetting insulation either type GP 8 conforming to BS 7655-1.3, or Type GP 6 conforming to BS 7655-1.2
Core identification	All cores white with black number printing
Bedding	Extruded Polymeric material (PVC)
Armouring	Single layer of Galvanised Steel Wire
Sheath	PVC Type 9 confirming to BS 7655-4.2.
Color of Outer Sheath	Black
Temperature limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	12 times Overall diameter

Should not be installed at temperatures below 0°C

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Extruded Bedding (mm)	Nominal Gal. Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)
7 x 1.5	0.6	0.44	0.9	0.92	15.2
12 x 1.5	0.6	0.44	1.25	1.00	19.4
19 x 1.5	0.6	0.44	1.25	1.08	22.2
27 x 1.5	0.6	0.60	1.6	1.16	26.7
37 x 1.5	0.6	0.60	1.6	1.16	29.0
7 x 2.5	0.7	0.44	0.90	0.92	17.1
12 x 2.5	0.7	0.44	1.25	1.08	22.4
19 x 2.5	0.7	0.60	1.6	1.16	26.6
27 x 2.5	0.7	0.60	1.6	1.24	30.7
37 x 2.5	0.7	0.60	1.6	1.24	33.8
7 x 4	0.7	0.44	1.25	1.00	19.7
12 x 4	0.7	0.60	1.6	1.08	25.7
19 x 4	0.7	0.60	1.6	1.16	29.3
27 x 4	0.7	0.60	1.6	1.32	34.4
37 x 4	0.7	0.76	2.0	1.40	39.2

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Single Core Armoured Power Cables to BS 6724

Standard	BS 6724 latest
Voltage	600/1000 V
Conductor	Annealed Circular Copper conductor Class 2 as per EN 60228
Insulation	Thermosetting insulation either type GP 8 conforming to BS 7655-1.3, or type EI 5 conforming to BS EN 50363-5.
Core identification	Brown or Blue.
Bedding	Extruded Low Smoke Zero Halogen material (LSZH)
Armouring	Single layer of Aluminium Wire
Sheath	LSZH Type LTS 1 conforming to BS 7655-6.1.
Color of Outer Sheath	Black
Temperature limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 times Overall diameter

Should not be installed at temperatures below 0°C

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Extruded Bedding (mm)	Nominal Aluminium Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)
1 x 50	1.0	0.44	0.9	1.00	17.5
1 x 70	1.1	0.44	1.25	1.00	20.2
1 x 95	1.1	0.44	1.25	1.08	22.3
1 x 120	1.2	0.44	1.25	1.08	24.2
1 x 150	1.4	0.60	1.6	1.16	27.4
1 x 185	1.6	0.60	1.60	1.24	30.0
1 x 240	1.7	0.60	1.60	1.24	32.8
1 x 300	1.8	0.60	1.6	1.32	35.6
1 x 400	2.0	0.76	2.0	1.40	40.5
1 x 500	2.2	0.76	2.0	1.48	44.2
1 x 630	2.4	0.76	2.0	1.56	48.8
1 x 800	2.6	0.92	2.5	1.72	55.4
1 x 1000	2.8	0.92	2.5	1.80	60.6

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multicore Armoured Power Cables to BS 6724

Standard	BS 6724 latest
Voltage	600/1000 V
Conductor	Annealed Copper conductor Class 2 as per EN 60228 Upto 16mm2 - Stranded Circular Above 16mm2 - Stranded Sector Shaped
Insulation	Thermosetting insulation either type GP 8 conforming to BS 7655-1.3, or type EI 5 conforming to BS EN 50363-5.
Core identification	Two core: Brown, Blue. Three-core: Brown, Black, Grey. Four-core: Blue, Brown, Black, Grey. Five-core: Green-and-yellow, Blue, Brown, Black, Grey.
Bedding	Extruded Low Smoke Zero Halogen material (LSZH)
Armouring	Single layer of Galvanised Steel Wire
Sheath	LSZH Type LTS 1 conforming to BS 7655-6.1
Color of Outer Sheath	Black
Temperature limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	12 times Overall diameter

Should not be installed at temperatures below 0°C

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Extruded Bedding (mm)	Nominal Gal. Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)
2 x 1.5	0.6	0.44	0.9	0.84	12.1
2 x 2.5	0.7	0.44	0.9	0.92	13.6
2 x 4	0.7	0.44	0.9	0.92	14.7
2 x 6	0.7	0.44	0.9	0.92	15.9
2 x 10	0.7	0.44	0.9	1.00	18.0
2 x 16	0.7	0.44	1.25	1.00	20.4
2 x 25	0.9	0.44	1.25	1.08	20.4
2 x 35	0.9	0.60	1.6	1.16	23.3
2 x 50	1.0	0.60	1.6	1.24	25.8
2 x 70	1.1	0.60	1.6	1.32	29.0
2 x 95	1.1	0.76	2.0	1.40	33.1
2 x 120	1.2	0.76	2.0	1.48	36.1
2 x 150	1.4	0.76	2.0	1.56	39.3
2 x 185	1.6	0.92	2.5	1.72	44.7
2 x 240	1.7	0.92	2.5	1.80	49.0
2 x 300	1.8	1.08	2.5	1.88	53.5
2 x 400	2.0	1.08	2.5	2.04	59.0
3 x 1.5	0.6	0.44	0.9	0.84	12.6
3 x 2.5	0.7	0.44	0.9	0.92	14.1
3 x 4	0.7	0.44	0.9	0.92	15.3
3 x 6	0.7	0.44	0.9	0.92	16.6
3 x 10	0.7	0.44	1.25	1.00	19.5
3 x 16	0.7	0.44	1.25	1.08	21.6
3 x 25	0.9	0.60	1.6	1.16	23.6

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multicore Armoured Power Cables to BS 6724

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Extruded Bedding (mm)	Nominal Gal. Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)
3 x 35	0.9	0.60	1.6	1.24	25.7
3 x 50	1.0	0.60	1.6	1.24	28.5
3 x 70	1.1	0.60	1.6	1.32	32.2
3 x 95	1.1	0.76	2.0	1.48	37.0
3 x 120	1.2	0.76	2.0	1.56	40.4
3 x 150	1.4	0.92	2.5	1.64	45.5
3 x 185	1.6	0.92	2.5	1.72	49.8
3 x 240	1.7	0.92	2.5	1.88	55.1
3 x 300	1.8	1.08	2.5	1.96	60.2
3 x 400	2.0	1.08	2.5	2.12	66.6
4 x 1.5	0.6	0.44	0.9	0.84	13.3
4 x 2.5	0.7	0.44	0.9	0.92	15.0
4 x 4	0.7	0.44	0.9	0.92	16.4
4 x 6	0.7	0.44	1.25	1.00	18.7
4 x 10	0.7	0.44	1.25	1.00	21.1
4 x 16	0.7	0.44	1.25	1.08	23.4
4 x 25	0.9	0.60	1.6	1.16	26.1
4 x 35	0.9	0.60	1.6	1.24	28.6
4 x 50	1.0	0.60	1.6	1.32	32.0
4 x 70	1.1	0.76	2.0	1.48	37.7
4 x 95	1.1	0.76	2.0	1.56	41.7
4 x 120	1.2	0.92	2.5	1.64	47.1
4 x 150	1.4	0.92	2.5	1.72	51.4
4 x 185	1.6	0.92	2.5	1.88	56.6
4 x 240	1.7	1.08	2.5	1.96	63.0
4 x 300	1.8	1.08	2.5	2.12	68.8
4 x 400	2.0	1.24	3.15	2.36	78.1
5 x 1.5	0.6	0.44	0.9	0.92	14.3
5 x 2.5	0.7	0.44	0.9	0.92	16.1
5 x 4	0.7	0.44	0.9	1.00	17.8
5 x 6	0.7	0.44	1.25	1.00	20.0
5 x 10	0.7	0.44	1.25	1.08	22.9
5 x 16	0.7	0.60	1.6	1.16	26.6
5 x 25	0.9	0.60	1.6	1.24	31.5
5 x 35	0.9	0.60	1.6	1.32	34.8
5 x 50	1.0	0.76	2.0	1.40	40.4
5 x 70	1.1	0.76	2.0	1.56	46.3

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multicore Armoured Control Cables to BS 6724

Standard	BS 6724 latest
Voltage	600/1000 V
Conductor	Annealed Circular Copper conductor Class 2 as per EN 60228
Insulation	Thermosetting insulation either type GP 8 conforming to BS 7655-1.3, or type EI 5 conforming to BS EN 50363-5.
Core identification	All cores white with black number printing
Bedding	Extruded Low Smoke Zero Halogen material (LSZH)
Armouring	Single layer of Galvanised Steel Wire
Sheath	LSZH Type LTS 1 conforming to BS 7655-6.1.
Color of Outer Sheath	Black
Temperature limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	12 times Overall diameter

Should not be installed at temperatures below 0°C

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Extruded Bedding (mm)	Nominal Gal. Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)
7 x 1.5	0.6	0.44	0.9	0.92	15.2
12 x 1.5	0.6	0.44	1.25	1.00	19.4
19 x 1.5	0.6	0.44	1.25	1.08	22.2
27 x 1.5	0.6	0.60	1.6	1.16	26.7
37 x 1.5	0.6	0.60	1.6	1.16	29.0
7 x 2.5	0.7	0.44	0.90	0.92	17.1
12 x 2.5	0.7	0.44	1.25	1.08	22.4
19 x 2.5	0.7	0.60	1.6	1.16	26.6
27 x 2.5	0.7	0.60	1.6	1.24	30.7
37 x 2.5	0.7	0.60	1.6	1.24	33.8
7 x 4	0.7	0.44	1.25	1.00	19.7
12 x 4	0.7	0.60	1.6	1.08	25.7
19 x 4	0.7	0.60	1.6	1.16	29.3
27 x 4	0.7	0.60	1.6	1.32	34.4
37 x 4	0.7	0.76	2.0	1.40	39.2

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Single Core Copper Armoured Power Cables to IEC 60502-1 (XLPE or HEPR Insulation)

Standard	IEC 60502-1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Annealed Circular Copper conductor Class 2 as per EN 60228
Insulation	XLPE or HEPR
Core identification	Natural
Inner Sheath	Extruded Polymeric material (PVC or LSZH)
Armouring	Single layer of Aluminium Round Wire / Flat Strip / Double tape
Sheath	PVC Type ST2
	LSZH Type ST8
Color of Outer Sheath	Black
Temperature limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 times Overall diameter

Should not be installed at temperatures below 0°C

Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Nominal Aluminium Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1 x 10	0.7	0.90	0.92	11.5	1.83
1 x 16	0.7	0.90	0.92	12.5	1.15
1 x 25	0.9	0.90	0.92	14.0	0.727
1 x 35	0.9	0.90	0.92	15.0	0.524
1 x 50	1.0	1.25	0.97	17.0	0.387
1 x 70	1.1	1.25	1.02	19.0	0.268
1 x 95	1.1	1.25	1.06	20.5	0.193
1 x 120	1.2	1.60	1.13	23.5	0.153
1 x 150	1.4	1.60	1.18	25.5	0.124
1 x 185	1.6	1.60	1.23	27.5	0.0991
1 x 240	1.7	1.60	1.30	30.0	0.0754
1 x 300	1.8	1.60	1.36	32.5	0.0601
1 x 400	2.0	2.00	1.48	37.0	0.0470
1 x 500	2.2	2.00	1.56	41.0	0.0366
1 x 630	2.4	2.00	1.66	45.0	0.0283
1 x 800	2.6	2.50	1.80	50.5	0.0221
1 x 1000	2.8	2.50	1.93	55.5	0.0176

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Single Core Aluminium Armoured Power Cables to IEC 60502-1 (XLPE or HEPR Insulation)

Standard	IEC 60502-1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Circular Aluminium conductor Class-2 to IEC 60228
Insulation	XLPE or HEPR
Core identification	Natural
Inner Sheath	Extruded Polymeric material (PVC or LSZH)
Armouring	Single layer of Aluminium Round Wire / Flat Strip / Double tape
Sheath	PVC Type ST2
	LSZH Type ST8
Color of Outer Sheath	Black
Temperature limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 times Overall diameter

Should not be installed at temperatures below 0°C

Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Nominal Aluminium Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1 x 10	0.7	0.90	0.92	11.5	3.08
1 x 16	0.7	0.90	0.92	12.5	1.91
1 x 25	0.9	0.90	0.92	14.0	1.20
1 x 35	0.9	0.90	0.92	15.0	0.87
1 x 50	1.0	1.25	0.97	17.0	0.64
1 x 70	1.1	1.25	1.02	19.0	0.44
1 x 95	1.1	1.25	1.06	20.5	0.32
1 x 120	1.2	1.60	1.13	23.5	0.25
1 x 150	1.4	1.60	1.18	25.0	0.21
1 x 185	1.6	1.60	1.23	27.5	0.164
1 x 240	1.7	1.60	1.30	30.0	0.125
1 x 300	1.8	1.60	1.36	32.5	0.100
1 x 400	2.0	2.00	1.48	37.0	0.0778
1 x 500	2.2	2.00	1.56	41.0	0.0605
1 x 630	2.4	2.00	1.66	44.5	0.0469
1 x 800	2.6	2.50	1.80	50.5	0.0367
1 x 1000	2.8	2.50	1.93	55.5	0.0291

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Single Core Copper Armoured Power Cables to IEC 60502-1 (PVC Insulation)

Standard	IEC 60502-1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Annealed Circular Copper conductor Class 2 as per IEC 60228
Insulation	PVC/A
Core identification	Natural
Inner Sheath	Extruded Polymeric material (PVC)
Armouring	Single layer of Aluminium Round Wire / Flat Strip / Double tape
Sheath	PVC Type ST1
Color of Outer Sheath	Black
Temperature limits	-15°C to + 70°C
Short Circuit Temperature	160°C
Minimum Bending Radius	15 times Overall diameter

Should not be installed at temperatures below 0°C

Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Nominal Aluminium Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1 x 10	1.0	0.90	0.92	12.5	1.83
1 x 16	1.0	0.90	0.92	13.0	1.15
1 x 25	1.2	0.90	0.92	14.5	0.727
1 x 35	1.2	0.90	0.93	15.5	0.524
1 x 50	1.4	1.25	0.99	18.0	0.387
1 x 70	1.4	1.25	1.03	19.5	0.268
1 x 95	1.6	1.25	1.09	22.0	0.193
1 x 120	1.6	1.60	1.15	24.5	0.153
1 x 150	1.8	1.60	1.20	26.0	0.124
1 x 185	2.0	1.60	1.25	28.5	0.0991
1 x 240	2.2	1.60	1.33	31.5	0.0754
1 x 300	2.4	2.00	1.41	34.5	0.0601
1 x 400	2.6	2.00	1.51	38.0	0.0470
1 x 500	2.8	2.00	1.60	42.0	0.0366
1 x 630	2.8	2.00	1.68	46.0	0.0283
1 x 800	2.8	2.50	1.81	51.0	0.0221
1 x 1000	3.0	2.50	1.94	56.0	0.0176

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Single Core Aluminium Armoured Power Cables to IEC 60502-1 (PVC Insulation)

Standard	IEC 60502-1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Circular Aluminium Conductor Class 2 as per IEC 60228
Insulation	PVC/A
Core identification	Natural
Inner Sheath	Extruded Polymeric material (PVC)
Armouring	Single layer of Aluminium Round Wire / Flat Strip / Double tape
Sheath	PVC Type ST1
Color of Outer Sheath	Black
Temperature limits	-15°C to + 70°C
Short Circuit Temperature	160°C
Minimum Bending Radius	15 times Overall diameter

Should not be installed at temperatures below 0°C

Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Nominal Aluminium Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1 x 10	1.0	0.90	0.92	12.5	3.08
1 x 16	1.0	0.90	0.92	13.0	1.91
1 x 25	1.2	0.90	0.92	14.5	1.20
1 x 35	1.2	0.90	0.93	15.5	0.87
1 x 50	1.4	1.25	0.99	18.0	0.64
1 x 70	1.4	1.25	1.03	19.5	0.44
1 x 95	1.6	1.25	1.09	22.0	0.32
1 x 120	1.6	1.60	1.15	24.5	0.25
1 x 150	1.8	1.60	1.20	26.0	0.21
1 x 185	2.0	1.60	1.25	28.5	0.164
1 x 240	2.2	1.60	1.33	31.0	0.125
1 x 300	2.4	2.00	1.41	35.0	0.100
1 x 400	2.6	2.00	1.51	38.0	0.0778
1 x 500	2.8	2.00	1.60	42.0	0.0605
1 x 630	2.8	2.00	1.68	45.5	0.0469
1 x 800	2.8	2.50	1.81	51.0	0.0367
1 x 1000	3.0	2.50	1.94	56.0	0.0291

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Single Core Copper Unarmoured Power Cables to IEC 60502-1 (XLPE or HEPR Insulation)

Standard	IEC 60502-1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Annealed Circular Copper conductor Class 2 as per IEC 60228
Insulation	XLPE or HEPR
Core identification	Natural
Sheath	PVC Type ST2
	LSZH Type ST8
Color of Outer Sheath	Black
Temperature limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 times Overall diameter

Should not be installed at temperatures below 0°C

Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1 x 4	0.7	0.92	6.5	4.61
1 x 6	0.7	0.92	7.0	3.08
1 x 10	0.7	0.92	8.0	1.83
1 x 16	0.7	0.92	8.5	1.15
1 x 25	0.9	0.92	10.0	0.727
1 x 35	0.9	0.92	11.0	0.524
1 x 50	1.0	0.92	12.5	0.387
1 x 70	1.1	0.92	14.5	0.268
1 x 95	1.1	0.97	16.0	0.193
1 x 120	1.2	1.01	18.0	0.153
1 x 150	1.4	1.06	20.0	0.124
1 x 185	1.6	1.12	22.0	0.0991
1 x 240	1.7	1.19	25.0	0.0754
1 x 300	1.8	1.25	27.0	0.0601
1 x 400	2.0	1.34	30.5	0.0470
1 x 500	2.2	1.43	34.5	0.0366
1 x 630	2.4	1.53	39.0	0.0283
1 x 800	2.6	1.64	43.0	0.0221
1 x 1000	2.8	1.76	48.0	0.0176

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Single Core Aluminium Unarmoured Power Cables to IEC 60502-1 (XLPE or HEPR Insulation)

Standard	IEC 60502-1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Circular Aluminium conductor Class-2 to IEC 60228
Insulation	XLPE or HEPR
Core identification	Natural
Sheath	PVC Type ST2
	LSZH Type ST8
Color of	Black
Temperature limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 times Overall diameter

Should not be installed at temperatures below 0°C

Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1 x 10	0.7	0.92	8.0	3.08
1 x 16	0.7	0.92	8.5	1.91
1 x 25	0.9	0.92	10.0	1.2
1 x 35	0.9	0.92	11.0	0.868
1 x 50	1.0	0.92	12.5	0.641
1 x 70	1.1	0.92	14.5	0.443
1 x 95	1.1	0.97	16.0	0.32
1 x 120	1.2	1.01	18.0	0.253
1 x 150	1.4	1.06	19.5	0.206
1 x 185	1.6	1.12	22.0	0.164
1 x 240	1.7	1.19	24.5	0.125
1 x 300	1.8	1.25	27.0	0.100
1 x 400	2.0	1.34	30.5	0.0778
1 x 500	2.2	1.43	34.5	0.0605
1 x 630	2.4	1.53	38.5	0.0469
1 x 800	2.6	1.64	43.0	0.0367
1 x 1000	2.8	1.76	48.0	0.0291

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Single Core Copper Unarmoured Power Cables to IEC 60502-1 (PVC Insulation)

Standard	IEC 60502-1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Annealed Circular Copper conductor Class 2 as per IEC 60228
Insulation	PVC/A
Core identification	Natural
Sheath	PVC Type ST1
Color of Outer Sheath	Black
Temperature limits	-15°C to + 70°C
Short Circuit Temperature	160°C
Minimum Bending Radius	15 times Overall diameter

Should not be installed at temperatures below 0°C

Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1 x 4	1.0	1.09	7.5	4.61
1 x 6	1.0	1.09	8.0	3.08
1 x 10	1.0	1.09	9.0	1.83
1 x 16	1.0	1.09	9.5	1.15
1 x 25	1.2	1.09	11.0	0.727
1 x 35	1.2	1.09	12.0	0.524
1 x 50	1.4	1.09	13.5	0.387
1 x 70	1.4	1.11	15.5	0.268
1 x 95	1.6	1.17	17.5	0.193
1 x 120	1.6	1.21	19.0	0.153
1 x 150	1.8	1.27	21.0	0.124
1 x 185	2.0	1.32	23.5	0.0991
1 x 240	2.2	1.40	26.5	0.0754
1 x 300	2.4	1.47	29.0	0.0601
1 x 400	2.6	1.58	32.5	0.0470
1 x 500	2.8	1.67	36.5	0.0366
1 x 630	2.8	1.76	40.0	0.0283
1 x 800	2.8	1.87	44.0	0.0221
1 x 1000	3.0	1.99	49.0	0.0176

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Single Core Aluminium Unarmoured Power Cables to IEC 60502-1 (PVC Insulation)

Standard	IEC 60502-1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Circular Aluminium conductor Class-2 to IEC 60228
Insulation	PVC/A
Core identification	Natural
Sheath	PVC Type ST1
Color of Outer Sheath	Black
Temperature limits	-15°C to + 70°C
Short Circuit Temperature	160°C
Minimum Bending Radius	15 times Overall diameter

Should not be installed at temperatures below 0°C

Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1 x 10	1.0	1.09	9.0	3.08
1 x 16	1.0	1.09	9.5	1.91
1 x 25	1.2	1.09	11.0	1.2
1 x 35	1.2	1.09	12.0	0.868
1 x 50	1.4	1.09	13.5	0.641
1 x 70	1.4	1.11	15.5	0.443
1 x 95	1.6	1.17	17.5	0.32
1 x 120	1.6	1.21	19.0	0.253
1 x 150	1.8	1.27	21.0	0.206
1 x 185	2.0	1.32	23.5	0.1640
1 x 240	2.2	1.40	26.0	0.125
1 x 300	2.4	1.47	29.0	0.1
1 x 400	2.6	1.58	32.5	0.0778
1 x 500	2.8	1.67	36.5	0.0605
1 x 630	2.8	1.76	40.0	0.0469
1 x 800	2.8	1.87	44.0	0.0367
1 x 1000	3.0	1.99	49.0	0.0291

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Copper Armoured Power Cables to IEC 60502-1 (XLPE or HEPR Insulation)

Standard	IEC 60502-1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Annealed copper conductor Class 2 as per IEC 60228
	Upto 16mm2 - Stranded Circular
	Above 16mm2 -Stranded Sector Shaped
Insulation	XLPE or HEPR
Core identification	2 Core Red, Black
	3 Core Red, Yellow, Blue
	4 Core Red, Yellow, Blue,Black
	5 Core Red, Yellow, Blue, Black, Grey"
Inner Sheath	Extruded Polymeric material (PVC or LSZH)
Armouring	Single layer of Galvanised Steel Round Wire / Flat Strip / Double tape
Sheath	PVC Type ST2
	LSZH Type ST8
Color of Outer Sheath	Black
Temperature limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	12 times Overall diameter

Should not be installed at temperatures below 0°C

Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Nominal Gal. Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
2 x 4	0.7	0.90	1.24	15.0	4.61
2 x 6	0.7	0.90	1.24	16.0	3.08
2 x 10	0.7	1.25	1.24	18.5	1.83
2 x 16	0.7	1.25	1.24	20.0	1.15
2 x 25	0.9	1.60	1.24	21.5	0.727
2 x 35	0.9	1.60	1.24	23.0	0.524
2 x 50	1.0	1.60	1.24	25.5	0.387
2 x 70	1.1	1.60	1.40	29.0	0.268
2 x 95	1.1	2.00	1.48	32.5	0.193
2 x 120	1.2	2.00	1.56	34.5	0.153
2 x 150	1.4	2.00	1.64	38.0	0.124
2 x 185	1.6	2.50	1.80	42.5	0.0991
2 x 240	1.7	2.50	1.96	47.0	0.0754
2 x 300	1.8	2.50	2.04	51.0	0.0601
2 x 400	2.0	2.50	2.28	56.5	0.047
3 x 4	0.7	0.90	1.24	15.5	4.61
3 x 6	0.7	0.90	1.24	17.0	3.08
3 x 10	0.7	1.25	1.24	19.5	1.83
3 x 16	0.7	1.25	1.24	21	1.15
3 x 25	0.9	1.6	1.24	23.5	0.727
3 x 35	0.9	1.6	1.24	25.5	0.524
3 x 50	1.0	1.6	1.32	28	0.387
3 x 70	1.1	2.0	1.4	32.5	0.268

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Copper Armoured Power Cables to IEC 60502-1 (XLPE or HEPR Insulation)

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Nominal Gal. Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
3 x 95	1.1	2.0	1.56	36.5	0.193
3 x 120	1.2	2.0	1.64	38.5	0.153
3 x 150	1.4	2.5	1.8	43	0.124
3 x 185	1.6	2.5	1.88	47.5	0.0991
3 x 240	1.7	2.5	2.04	52.5	0.0754
3 x 300	1.8	2.5	2.2	57	0.0601
3 x 400	2.0	2.5	2.36	63	0.047
4 x 4	0.7	0.9	1.24	16.5	4.61
4 x 6	0.7	1.25	1.24	18.5	3.08
4 x 10	0.7	1.25	1.24	21	1.83
4 x 16	0.7	1.6	1.24	23.5	1.15
4 x 25	0.9	1.6	1.24	26	0.727
4 x 35	0.9	1.6	1.32	28.5	0.524
4 x 50	1.0	1.6	1.40	31.5	0.387
4 x 70	1.1	2.0	1.56	37	0.268
4 x 95	1.1	2.0	1.64	41	0.193
4 x 120	1.2	2.5	1.80	45	0.153
4 x 150	1.4	2.5	1.88	49	0.124
4 x 185	1.6	2.5	2.04	54	0.0991
4 x 240	1.7	2.5	2.20	60	0.0754
4 x 300	1.8	2.5	2.36	65.5	0.0601
4 x 400	2.0	3.15	2.60	74	0.047
5 x 4	0.7	1.25	1.24	18.5	4.61
5 x 6	0.7	1.25	1.24	20	3.08
5 x 10	0.7	1.25	1.24	22.5	1.83
5 x 16	0.7	1.6	1.24	25	1.15
5 x 25	0.9	1.6	1.24	29.5	0.727
5 x 35	0.9	1.6	1.32	32.5	0.524
5 x 50	1	2.0	1.48	37	0.387
5 x 70	1.1	2.0	1.64	42.5	0.268

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Aluminium Armoured Power Cables to IEC 60502-1 (XLPE or HEPR Insulation)

Standard	IEC 60502-1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Stranded Aluminium conductor Class-2 to IEC 60228
	Upto 16mm2 - Stranded Circular
	Above 16mm2 - Stranded Sector Shaped
Insulation	XLPE or HEPR
Core identification	2 Core Red, Black
	3 Core Red, Yellow, Blue
	4 Core Red, Yellow, Blue,Black
	5 Core Red, Yellow, Blue, Black, Grey"
Inner Sheath	Extruded Polymeric material (PVC or LSZH)
Armouring	Single layer of Galvanised Steel Round Wire / Flat Strip / Double tape
Sheath	PVC Type ST2
	LSZH Type ST8
Color of Outer Sheath	Black
Temperature limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	12 times Overall diameter

Should not be installed at temperatures below 0°C

Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Nominal Gal. Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
2 x 10	0.7	1.25	1.24	18.5	3.08
2 x 16	0.7	1.25	1.24	20.0	1.91
2 x 25	0.9	1.60	1.24	21.5	1.2
2 x 35	0.9	1.60	1.24	23.0	0.868
2 x 50	1.0	1.60	1.24	25.5	0.641
2 x 70	1.1	1.60	1.40	29.0	0.443
2 x 95	1.1	2.00	1.48	32.5	0.32
2 x 120	1.2	2.00	1.56	34.5	0.253
2 x 150	1.4	2.00	1.64	38.0	0.206
2 x 185	1.6	2.50	1.80	42.5	0.164
2 x 240	1.7	2.50	1.96	47.0	0.125
2 x 300	1.8	2.50	2.04	51.0	0.1
2 x 400	2.0	2.50	2.28	56.5	0.0778
3 x 10	0.7	1.25	1.24	19.5	3.08
3 x 16	0.7	1.25	1.24	20.5	1.91
3 x 25	0.9	1.6	1.24	23.5	1.2
3 x 35	0.9	1.6	1.24	25.5	0.868
3 x 50	1.0	1.6	1.32	28	0.641
3 x 70	1.1	2.0	1.4	32.5	0.443
3 x 95	1.1	2.0	1.56	36.5	0.32
3 x 120	1.2	2.0	1.64	38.5	0.253
3 x 150	1.4	2.5	1.8	43	0.206
3 x 185	1.6	2.5	1.88	47.5	0.164

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Aluminium Armoured Power Cables to IEC 60502-1 (XLPE or HEPR Insulation)

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Nominal Gal. Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
3 x 240	1.7	2.5	2.04	52.5	0.125
3 x 300	1.8	2.5	2.2	57	0.1
3 x 400	2.0	2.5	2.36	63	0.0778
4 x 10	0.7	1.25	1.24	21	3.08
4 x 16	0.7	1.6	1.24	23	1.91
4 x 25	0.9	1.6	1.24	26	1.2
4 x 35	0.9	1.6	1.32	28.5	0.868
4 x 50	1.0	1.6	1.40	31.5	0.641
4 x 70	1.1	2.0	1.56	37	0.443
4 x 95	1.1	2.0	1.64	41	0.32
4 x 120	1.2	2.5	1.80	45	0.253
4 x 150	1.4	2.5	1.88	49	0.206
4 x 185	1.6	2.5	2.04	54	0.164
4 x 240	1.7	2.5	2.20	60	0.125
4 x 300	1.8	2.5	2.36	65.5	0.1
4 x 400	2.0	3.15	2.60	74	0.0778
5 x 10	0.7	1.25	1.24	22.5	3.08
5 x 16	0.7	1.6	1.24	24.5	1.91
5 x 25	0.9	1.6	1.24	29.5	1.2
5 x 35	0.9	1.6	1.32	32.5	0.868
5 x 50	1	2.0	1.48	37	0.641
5 x 70	1.1	2.0	1.64	42.5	0.443

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Copper Armoured Power Cables to IEC 60502-1 (PVC Insulation)

Standard	IEC 60502-1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Annealed copper conductor Class-2 to IEC 60228
	Upto 16mm2 - Stranded Circular
	Above 16mm2 -Stranded Sector Shaped
Insulation	PVC/A
Core identification	2 Core Red, Black
	3 Core Red, Yellow, Blue
	4 Core Red, Yellow, Blue,Black
	5 Core Red, Yellow, Blue, Black, Grey
Inner Sheath	Extruded Polymeric material (PVC or LSZH)
Armouring	Single layer of Galvanised Steel Round Wire / Flat Strip / Double tape
Sheath	PVC Type ST1
Color of Outer Sheath	Black
Temperature limits	-15°C to + 70°C
Short Circuit Temperature	160°C
Minimum Bending Radius	12 times Overall diameter

Should not be installed at temperatures below 0°C

Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Nominal Gal. Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
2 x 4	1.0	0.90	1.24	16.0	4.61
2 x 6	1.0	1.25	1.24	18.0	3.08
2 x 10	1.0	1.25	1.24	20.0	1.83
2 x 16	1.0	1.25	1.24	21.0	1.15
2 x 25	1.2	1.60	1.24	23.0	0.727
2 x 35	1.2	1.60	1.24	24.5	0.524
2 x 50	1.4	1.60	1.32	27.5	0.387
2 x 70	1.4	2.00	1.40	31.0	0.268
2 x 95	1.6	2.00	1.56	35.0	0.193
2 x 120	1.6	2.00	1.64	36.5	0.153
2 x 150	1.8	2.50	1.72	40.5	0.124
2 x 185	2.0	2.50	1.88	44.5	0.0991
2 x 240	2.2	2.50	2.04	49.5	0.0754
2 x 300	2.4	2.50	2.12	53.5	0.0601
2 x 400	2.6	2.50	2.36	59.0	0.047
3 x 4	1.0	1.25	1.24	17.5	4.61
3 x 6	1.0	1.25	1.24	19.0	3.08
3 x 10	1.0	1.25	1.24	21.0	1.83
3 x 16	1.0	1.25	1.24	22.5	1.15
3 x 25	1.2	1.6	1.24	24.5	0.727
3 x 35	1.2	1.6	1.24	26.5	0.524
3 x 50	1.4	1.6	1.40	30.0	0.387
3 x 70	1.4	2.0	1.48	34.0	0.268

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Copper Armoured Power Cables to IEC 60502-1 (PVC Insulation)

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Nominal Gal. Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
3 x 95	1.6	2.0	1.56	38.5	0.193
3 x 120	1.6	2.0	1.64	40.5	0.153
3 x 150	1.8	2.5	1.80	45.0	0.124
3 x 185	2.0	2.5	1.96	49.5	0.0991
3 x 240	2.2	2.5	2.12	55.0	0.0754
3 x 300	2.4	2.5	2.28	60.0	0.0601
3 x 400	2.6	3.15	2.52	67.5	0.047
4 x 4	1.0	1.25	1.24	19.0	4.61
4 x 6	1.0	1.25	1.24	20.0	3.08
4 x 10	1.0	1.25	1.24	22.5	1.83
4 x 16	1.0	1.6	1.24	25.0	1.15
4 x 25	1.2	1.6	1.24	27.5	0.727
4 x 35	1.2	1.6	1.32	29.5	0.524
4 x 50	1.4	2	1.48	33.5	0.387
4 x 70	1.4	2.0	1.56	38.5	0.268
4 x 95	1.6	2.5	1.72	44.5	0.193
4 x 120	1.6	2.5	1.80	47.0	0.153
4 x 150	1.8	2.5	1.96	51.0	0.124
4 x 185	2.0	2.5	2.12	56.0	0.0991
4 x 240	2.2	2.5	2.28	62.5	0.0754
4 x 300	2.4	2.5	2.44	68.5	0.0601
4 x 400	2.6	3.15	2.68	77.0	0.047
5 x 4	1.0	1.25	1.24	20.0	4.61
5 x 6	1.0	1.25	1.24	21.5	3.08
5 x 10	1.0	1.6	1.24	25.0	1.83
5 x 16	1.0	1.6	1.24	26.5	1.15
5 x 25	1.2	1.6	1.32	31.5	0.727
5 x 35	1.2	2.0	1.4	35.0	0.524
5 x 50	1.4	2.0	1.56	39.5	0.387
5 x 70	1.4	2.0	1.64	44.0	0.268

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Aluminium Armoured Power Cables to IEC 60502-1 (PVC Insulation)

Standard	IEC 60502-1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Aluminium conductor Class-2 to IEC 60228
	Upto 16mm2 - Stranded Circular
	Above 16mm2 - tranded Sector Shaped
Insulation	PVC/A
Core identification	2 Core Red, Black
	3 Core Red, Yellow, Blue
	4 Core Red, Yellow, Blue,Black
	5 Core Red, Yellow, Blue, Black, Grey"
Inner Sheath	Extruded Polymeric material (PVC or LSZH)
Armouring	Single layer of Galvanised Steel Round Wire / Flat Strip / Double tape
Sheath	PVC Type ST1
Color of Outer Sheath	Black
Temperature limits	-15°C to + 70°C
Short Circuit Temperature	160°C
Minimum Bending Radius	12 times Overall diameter

Should not be installed at temperatures below 0°C

Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Nominal Gal. Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
2 x 10	1.0	1.25	1.24	20.0	3.08
2 x 16	1.0	1.25	1.24	21.0	1.91
2 x 25	1.2	1.60	1.24	23.0	1.2
2 x 35	1.2	1.60	1.24	24.5	0.868
2 x 50	1.4	1.60	1.32	27.5	0.641
2 x 70	1.4	2.00	1.40	31.0	0.443
2 x 95	1.6	2.00	1.56	35.0	0.32
2 x 120	1.6	2.00	1.64	36.5	0.253
2 x 150	1.8	2.50	1.72	40.5	0.206
2 x 185	2.0	2.50	1.88	44.5	0.164
2 x 240	2.2	2.50	2.04	49.5	0.125
2 x 300	2.4	2.50	2.12	53.5	0.1
2 x 400	2.6	2.50	2.36	59.0	0.0778
3 x 10	1.0	1.25	1.24	21.0	3.08
3 x 16	1.0	1.25	1.24	22.5	1.91
3 x 25	1.2	1.6	1.24	24.5	1.2
3 x 35	1.2	1.6	1.24	26.5	0.868
3 x 50	1.4	1.6	1.40	30.0	0.641
3 x 70	1.4	2.0	1.48	34.0	0.443
3 x 95	1.6	2.0	1.56	38.5	0.32
3 x 120	1.6	2.0	1.64	40.5	0.253
3 x 150	1.8	2.5	1.80	45.0	0.206
3 x 185	2.0	2.5	1.96	49.5	0.164

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Aluminium Armoured Power Cables to IEC 60502-1 (PVC Insulation)

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Nominal Gal. Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
3 x 240	2.2	2.5	2.12	55.0	0.125
3 x 300	2.4	2.5	2.28	60.0	0.1
3 x 400	2.6	3.15	2.52	67.5	0.0778
4 x 10	1.0	1.25	1.24	22.5	3.08
4 x 16	1.0	1.6	1.24	25.0	1.91
4 x 25	1.2	1.6	1.24	27.5	1.2
4 x 35	1.2	1.6	1.32	29.5	0.868
4 x 50	1.4	2	1.48	33.5	0.641
4 x 70	1.4	2.0	1.56	38.5	0.443
4 x 95	1.6	2.5	1.72	44.5	0.32
4 x 120	1.6	2.5	1.80	47.0	0.253
4 x 150	1.8	2.5	1.96	51.0	0.206
4 x 185	2.0	2.5	2.12	56.0	0.164
4 x 240	2.2	2.5	2.28	62.5	0.125
4 x 300	2.4	2.5	2.44	68.5	0.1
4 x 400	2.6	3.15	2.68	77.0	0.0778
5 x 10	1.0	1.6	1.24	25.0	3.08
5 x 16	1.0	1.6	1.24	26.5	1.91
5 x 25	1.2	1.6	1.32	31.5	1.2
5 x 35	1.2	2.0	1.4	35.0	0.868
5 x 50	1.4	2.0	1.56	39.5	0.641
5 x 70	1.4	2.0	1.64	44.0	0.443

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Copper Unarmoured Power Cables to IEC 60502-1 (XLPE or HEPR Insulation)

Standard	IEC 60502-1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Annealed copper conductor Class 2 as per IEC 60228
	Upto 16mm2 - Stranded Circular
	Above 16mm2 - Stranded Sector Shaped
Insulation	XLPE or HEPR
Core identification	2 Core Red, Black
	3 Core Red, Yellow, Blue
	4 Core Red, Yellow, Blue,Black
	5 Core Red, Yellow, Blue, Black, Grey
Sheath	PVC Type ST2
	LSZH Type ST8
Color of Outer Sheath	Black
Temperature limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	12 times Overall diameter

Should not be installed at temperatures below 0°C

Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
2 x 4	0.7	1.24	11.0	4.61
2 x 6	0.7	1.24	12.5	3.08
2 x 10	0.7	1.24	14.0	1.83
2 x 16	0.7	1.24	15.5	1.15
2 x 25	0.9	1.24	16.5	0.727
2 x 35	0.9	1.24	18.0	0.524
2 x 50	1.0	1.24	20.5	0.387
2 x 70	1.1	1.24	23.5	0.268
2 x 95	1.1	1.40	26.5	0.193
2 x 120	1.2	1.48	28.5	0.153
2 x 150	1.4	1.56	31.5	0.124
2 x 185	1.6	1.64	35.0	0.0991
2 x 240	1.7	1.80	39.5	0.0754
2 x 300	1.8	1.96	43.5	0.0601
2 x 400	2.0	2.12	49.0	0.047
3 x 4	0.7	1.24	12.0	4.61
3 x 6	0.7	1.24	13.0	3.08
3 x 10	0.7	1.24	15.0	1.83
3 x 16	0.7	1.24	16.5	1.15
3 x 25	0.9	1.24	18.0	0.727
3 x 35	0.9	1.24	20.0	0.524
3 x 50	1.0	1.24	23.0	0.387
3 x 70	1.1	1.32	26.5	0.268
3 x 95	1.1	1.40	30.0	0.193
3 x 120	1.2	1.48	32.0	0.153

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Copper Unarmoured Power Cables to IEC 60502-1 (XLPE or HEPR Insulation)

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
3 x 150	1.4	1.64	36.0	0.124
3 x 185	1.6	1.72	40.0	0.0991
3 x 240	1.7	1.88	45.0	0.0754
3 x 300	1.8	2.04	50.0	0.0601
3 x 400	2.0	2.28	56.0	0.047
4 x 4	0.7	1.24	13.0	4.61
4 x 6	0.7	1.24	14.0	3.08
4 x 10	0.7	1.24	16.5	1.83
4 x 16	0.7	1.24	18.0	1.15
4 x 25	0.9	1.24	20.5	0.727
4 x 35	0.9	1.24	23.0	0.524
4 x 50	1.0	1.32	26.5	0.387
4 x 70	1.1	1.40	30.5	0.268
4 x 95	1.1	1.48	34.5	0.193
4 x 120	1.2	1.64	37.5	0.153
4 x 150	1.4	1.72	41.5	0.124
4 x 185	1.6	1.88	46.5	0.0991
4 x 240	1.7	2.04	52.5	0.0754
4 x 300	1.8	2.20	58.0	0.0601
4 x 400	2.0	2.44	65.5	0.047
5 x 4	0.7	1.24	14.0	4.61
5 x 6	0.7	1.24	15.5	3.08
5 x 10	0.7	1.24	18.0	1.83
5 x 16	0.7	1.24	20.0	1.15
5 x 25	0.9	1.24	24.0	0.727
5 x 35	0.9	1.24	27.0	0.524
5 x 50	1.0	1.40	31.0	0.387
5 x 70	1.1	1.48	36.0	0.268

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Aluminium Unarmoured Power Cables to IEC 60502-1 (XLPE or HEPR Insulation)

Standard	IEC 60502-1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Stranded Aluminium conductor Class-2 to IEC 60228
	Upto 16mm2-Stranded Circular
	Above 16mm2 - Stranded Sector Shaped
Insulation	XLPE or HEPR
Core identification	2 Core Red, Black
	3 Core Red, Yellow, Blue
	4 Core Red, Yellow, Blue,Black
	5 Core Red, Yellow, Blue, Black, Grey
Sheath	PVC Type ST2
	LSZH Type ST8
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	12 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
2 x 10	0.7	1.24	14.0	3.08
2 x 16	0.7	1.24	15.5	1.91
2 x 25	0.9	1.24	16.5	1.2
2 x 35	0.9	1.24	18.0	0.868
2 x 50	1.0	1.24	20.5	0.641
2 x 70	1.1	1.24	23.5	0.443
2 x 95	1.1	1.40	26.5	0.32
2 x 120	1.2	1.48	28.5	0.253
2 x 150	1.4	1.56	31.5	0.206
2 x 185	1.6	1.64	35.0	0.164
2 x 240	1.7	1.80	39.5	0.125
2 x 300	1.8	1.96	43.5	0.1
2 x 400	2.0	2.12	49.0	0.0778
3 x 10	0.7	1.24	15.0	3.08
3 x 16	0.7	1.24	16.0	1.91
3 x 25	0.9	1.24	18.0	1.2
3 x 35	0.9	1.24	20.0	0.868
3 x 50	1.0	1.24	23.0	0.641
3 x 70	1.1	1.32	26.5	0.443
3 x 95	1.1	1.40	30.0	0.32
3 x 120	1.2	1.48	32.0	0.253
3 x 150	1.4	1.64	36.0	0.206
3 x 185	1.6	1.72	40.0	0.164
3 x 240	1.7	1.88	45.0	0.125v

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Aluminium Unarmoured Power Cables to IEC 60502-1 (XLPE or HEPR Insulation)

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
3 x 300	1.8	2.04	50.0	0.1
3 x 400	2.0	2.28	56.0	0.0778
4 x 10	0.7	1.24	16.5	3.08
4 x 16	0.7	1.24	18.0	1.91
4 x 25	0.9	1.24	20.5	1.2
4 x 35	0.9	1.24	23.0	0.868
4 x 50	1.0	1.32	26.5	0.641
4 x 70	1.1	1.40	30.5	0.443
4 x 95	1.1	1.48	34.5	0.32
4 x 120	1.2	1.64	37.5	0.253
4 x 150	1.4	1.72	41.5	0.206
4 x 185	1.6	1.88	46.5	0.164
4 x 240	1.7	2.04	52.5	0.125
4 x 300	1.8	2.20	58.0	0.1
4 x 400	2.0	2.44	65.5	0.0778
5 x 10	0.7	1.24	18.0	3.08
5 x 16	0.7	1.24	19.5	1.91
5 x 25	0.9	1.24	24.0	1.2
5 x 35	0.9	1.24	27.0	0.868
5 x 50	1.0	1.40	31.0	0.641
5 x 70	1.1	1.48	36.0	0.443

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Aluminium Unarmoured Power Cables to IEC 60502-1 (PVC Insulation)

Standard	IEC 60502-1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Stranded Aluminium conductor Class-2 to IEC 60228 Upto 16mm2 - Stranded Circular Above 16mm2 - Stranded Sector Shaped
Insulation	PVC/A
Core identification	2 Core Red, Black
	3 Core Red, Yellow, Blue
	4 Core Red, Yellow, Blue, Black
	5 Core Red, Yellow, Blue, Black, Grey
Sheath	PVC Type ST1
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 70°C
Short Circuit Temperature	160°C
Minimum Bending Radius	12 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
2 x 4	1.0	1.24	12.5	4.61
2 x 6	1.0	1.24	13.5	3.08
2 x 10	1.0	1.24	15.5	1.83
2 x 16	1.0	1.24	16.5	1.15
2 x 25	1.2	1.24	17.5	0.727
2 x 35	1.2	1.24	19.5	0.524
2 x 50	1.4	1.24	22.0	0.387
2 x 70	1.4	1.32	25.0	0.268
2 x 95	1.6	1.40	28.5	0.193
2 x 120	1.6	1.48	30.0	0.153
2 x 150	1.8	1.56	33.5	0.124
2 x 185	2.0	1.72	37.0	0.0991
2 x 240	2.2	1.88	42.0	0.0754
2 x 300	2.4	1.96	46.5	0.0601
2 x 400	2.6	2.20	52.0	0.047
3 x 4	1.0	1.24	13.0	4.61
3 x 6	1.0	1.24	14.5	3.08
3 x 10	1.0	1.24	16.5	1.83
3 x 16	1.0	1.24	18.0	1.15
3 x 25	1.2	1.24	19.5	0.727
3 x 35	1.2	1.24	21.5	0.524
3 x 50	1.4	1.24	24.5	0.387
3 x 70	1.4	1.40	28.0	0.268
3 x 95	1.6	1.48	32.5	0.193

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Aluminium Unarmoured Power Cables to IEC 60502-1 (PVC Insulation)

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
3 x 120	1.6	1.56	34.0	0.253
3 x 150	1.8	1.64	37.5	0.206
3 x 185	2.0	1.80	42.0	0.164
3 x 240	2.2	1.96	47.5	0.1250
3 x 300	2.4	2.12	52.5	0.1
3 x 400	2.6	2.28	58.5	0.0778
4 x 10	1.0	1.24	18.0	3.08
4 x 16	1.0	1.24	19.5	1.91
4 x 25	1.2	1.24	22.0	1.2
4 x 35	1.2	1.24	24.5	0.868
4 x 50	1.4	1.32	27.0	0.641
4 x 70	1.4	1.48	32.5	0.443
4 x 95	1.6	1.56	37.5	0.32
4 x 120	1.6	1.72	39.5	0.253
4 x 150	1.8	1.80	44.0	0.206
4 x 185	2.0	1.96	49.0	0.164
4 x 240	2.2	2.12	55.0	0.1250
4 x 300	2.4	2.28	61.5	0.1
4 x 400	2.6	2.52	68.5	0.0778
5 x 10	1.0	1.24	19.5	3.08
5 x 16	1.0	1.24	21.0	1.91
5 x 25	1.2	1.24	26.0	1.2
5 x 35	1.2	1.32	29.0	0.868
5 x 50	1.4	1.48	33.5	0.641
5 x 70	1.4	1.56	37.5	0.443

- Dimensions & Weights are representative figures and may vary ± 5%

LV Control and Control Cables

Low Voltage Multi Core Control Copper Armoured Cables to IEC 60502-1 (XLPE or HEPR Insulation)

Standard	IEC 60502-1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Annealed circular copper conductor Class 2 as per IEC 60228
Insulation	XLPE or HEPR
Core identification	All cores white with black number printing
Inner Sheath	Extruded Polymeric material (PVC or LSZH)
Armouring	Single layer of Galvanised Steel Round Wire / Flat Strip / Double tape
Sheath	PVC Type ST2
	LSZH Type ST8
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	12 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Nominal Gal. Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
2 x 1.5	0.7	0.90	1.24	13.0	12.1
3 x 1.5	0.7	0.90	1.24	13.5	12.1
4 x 1.5	0.7	0.90	1.24	14.5	12.1
5 x 1.5	0.7	0.90	1.24	15.0	12.1
7 x 1.5	0.7	0.90	1.24	16.0	12.1
10 x 1.5	0.7	1.25	1.24	20.0	12.1
12 x 1.5	0.7	1.25	1.24	20.5	12.1
19 x 1.5	0.7	1.25	1.24	23.0	12.1
27 x 1.5	0.7	1.60	1.24	27.5	12.1
37 x 1.5	0.7	1.60	1.24	30.0	12.1
48 x 1.5	0.7	1.60	1.32	33.5	12.1
2 x 2.5	0.7	0.90	1.24	14.0	7.41
3 x 2.5	0.7	0.90	1.24	14.5	7.41
4 x 2.5	0.7	0.90	1.24	15.5	7.41
5 x 2.5	0.7	0.90	1.24	16.5	7.41
7 x 2.5	0.7	1.25	1.24	18.0	7.41
10 x 2.5	0.7	1.25	1.24	21.5	7.41
12 x 2.5	0.7	1.25	1.24	22.0	7.41
19 x 2.5	0.7	1.60	1.24	26.0	7.41
27 x 2.5	0.7	1.60	1.24	30.0	7.41
37 x 2.5	0.7	1.60	1.32	33.0	7.41
48 x 2.5	0.7	2.00	1.48	38.0	7.41

- Dimensions & Weights are representative figures and may vary ± 5%

LV Control and Control Cables

Low Voltage Multi Core Control Copper Armoured Cables to IEC 60502-1 (PVC Insulation)

Standard	IEC 60502-1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Annealed circular copper conductor Class 2 as per IEC 60228
Insulation	PVC/A
Core identification	All cores white with black number printing
Inner Sheath	Extruded Polymeric material (PVC or LSZH)
Armouring	Single layer of Galvanised Steel Round Wire / Flat Strip / Double tape
Sheath	PVC Type ST1
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 70°C
Short Circuit Temperature	160°C
Minimum Bending Radius	12 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Nominal Gal. Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
2 x 1.5	0.8	0.90	1.24	13.5	12.1
3 x 1.5	0.8	0.90	1.24	14.0	12.1
4 x 1.5	0.8	0.90	1.24	15.0	12.1
5 x 1.5	0.8	0.90	1.24	16.0	12.1
7 x 1.5	0.8	0.90	1.24	17.0	12.1
10 x 1.5	0.8	1.25	1.24	21.0	12.1
12 x 1.5	0.8	1.25	1.24	21.5	12.1
19 x 1.5	0.8	1.60	1.24	25.0	12.1
27 x 1.5	0.8	1.60	1.24	28.5	12.1
37 x 1.5	0.8	1.60	1.32	31.5	12.1
48 x 1.5	0.8	2.00	1.40	36.5	12.1
2 x 2.5	0.8	0.90	1.24	14.5	7.41
3 x 2.5	0.8	0.90	1.24	15.0	7.41
4 x 2.5	0.8	0.90	1.24	16.0	7.41
5 x 2.5	0.8	0.90	1.24	17.0	7.41
7 x 2.5	0.8	1.25	1.24	18.5	7.41
10 x 2.5	0.8	1.25	1.24	22.5	7.41
12 x 2.5	0.8	1.25	1.24	23.0	7.41
19 x 2.5	0.8	1.60	1.24	27.0	7.41
27 x 2.5	0.8	1.60	1.32	31.5	7.41
37 x 2.5	0.8	1.60	1.40	34.5	7.41
48 x 2.5	0.8	2.00	1.48	40.0	7.41

- Dimensions & Weights are representative figures and may vary ± 5%

LV Control and Control Cables

Low Voltage Multi Core Control Copper Unarmoured Cables to IEC 60502-1 (XLPE or HEPR Insulation)

Standard	IEC 60502-1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Annealed circular copper conductor Class 2 as per IEC 60228
Insulation	XLPE or HEPR
Core identification	All cores white with black number printing
Sheath	PVC Type ST2
	LSZH Type ST8
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	12 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
2 x 1.5	0.7	1.24	9.5	12.1
3 x 1.5	0.7	1.24	10.0	12.1
4 x 1.5	0.7	1.24	10.5	12.1
5 x 1.5	0.7	1.24	11.5	12.1
7 x 1.5	0.7	1.24	12.5	12.1
10 x 1.5	0.7	1.24	15.5	12.1
12 x 1.5	0.7	1.24	16.0	12.1
19 x 1.5	0.7	1.24	18.5	12.1
27 x 1.5	0.7	1.24	22.0	12.1
37 x 1.5	0.7	1.24	24.5	12.1
48 x 1.5	0.7	1.24	28.5	12.1
2 x 2.5	0.7	1.24	10.0	7.41
3 x 2.5	0.7	1.24	10.5	7.41
4 x 2.5	0.7	1.24	11.5	7.41
5 x 2.5	0.7	1.24	12.5	7.41
7 x 2.5	0.7	1.24	13.5	7.41
10 x 2.5	0.7	1.24	17.0	7.41
12 x 2.5	0.7	1.24	17.5	7.41
19 x 2.5	0.7	1.24	20.5	7.41
27 x 2.5	0.7	1.24	24.5	7.41
37 x 2.5	0.7	1.24	27.5	7.41
48 x 2.5	0.7	1.32	32.0	7.41

- Dimensions & Weights are representative figures and may vary ± 5%

LV Control and Control Cables

Low Voltage Multi Core Control Copper Unarmoured Cables to IEC 60502-1 (PVC Insulation)

Standard	IEC 60502-1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Annealed circular copper conductor Class 2 as per IEC 60228
Insulation	PVC/A
Core identification	All cores white with black number printing
Sheath	PVC Type ST1
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 70°C
Short Circuit Temperature	160°C
Minimum Bending Radius	12 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
2 x 1.5	0.8	1.24	9.5	12.1
3 x 1.5	0.8	1.24	10.0	12.1
4 x 1.5	0.8	1.24	11.0	12.1
5 x 1.5	0.8	1.24	12.0	12.1
7 x 1.5	0.8	1.24	13.0	12.1
10 x 1.5	0.8	1.24	16.5	12.1
12 x 1.5	0.8	1.24	17.0	12.1
19 x 1.5	0.8	1.24	19.5	12.1
27 x 1.5	0.8	1.24	23.5	12.1
37 x 1.5	0.8	1.24	26.0	12.1
48 x 1.5	0.8	1.32	30.0	12.1
2 x 2.5	0.8	1.24	10.5	7.41
3 x 2.5	0.8	1.24	11.0	7.41
4 x 2.5	0.8	1.24	12.0	7.41
5 x 2.5	0.8	1.24	13.0	7.41
7 x 2.5	0.8	1.24	14.0	7.41
10 x 2.5	0.8	1.24	18.0	7.41
12 x 2.5	0.8	1.24	18.5	7.41
19 x 2.5	0.8	1.24	21.5	7.41
27 x 2.5	0.8	1.24	26.0	7.41
37 x 2.5	0.8	1.32	29.0	7.41
48 x 2.5	0.8	1.40	33.5	7.41

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Single Core Copper Armoured Power Cables to IEC 60502-1 (EPR Insulation)

Standard	IEC 60502-1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Tinned Circular Copper conductor Class 2 as per IEC 60228
Insulation	EPR Insulation
Core identification	Natural
Inner Sheath	Extruded Polymeric material (PVC or LSZH)
Armouring	Single layer of Aluminium Round Wire / Flat Strip / Double tape
Sheath	PVC Type ST2
	LSZH Type ST8
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Nominal Aluminium Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1 x 10	1.0	0.90	0.92	12.5	1.84
1 x 16	1.0	0.90	0.92	13.0	1.16
1 x 25	1.2	0.90	0.92	14.5	0.734
1 x 35	1.2	0.90	0.93	15.5	0.529
1 x 50	1.4	1.25	0.99	18.0	0.391
1 x 70	1.4	1.25	1.03	19.5	0.27
1 x 95	1.6	1.25	1.09	22.0	0.195
1 x 120	1.6	1.60	1.15	24.5	0.154
1 x 150	1.8	1.60	1.20	26.0	0.126
1 x 185	2.0	1.60	1.25	28.5	0.1000
1 x 240	2.2	1.60	1.33	31.5	0.0762
1 x 300	2.4	2.00	1.41	34.5	0.0607
1 x 400	2.6	2.00	1.51	38.0	0.0475
1 x 500	2.8	2.00	1.60	42.0	0.0369
1 x 630	2.8	2.00	1.68	46.0	0.0286
1 x 800	2.8	2.50	1.81	51.0	0.0224
1 x 1000	3.0	2.50	1.94	56.0	0.0177

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Single Core Copper Unarmoured Power Cables to IEC 60502-1 (EPR Insulation)

Standard	IEC 60502-1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Tinned Circular Copper conductor Class 2 as per IEC 60228
Insulation	EPR Insulation
Core identification	Natural
Sheath	PVC Type ST2
	LSZH Type ST8
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1 x 4	1.0	0.92	7.0	4.7
1 x 6	1.0	0.92	7.5	3.11
1 x 10	1.0	0.92	8.5	1.84
1 x 16	1.0	0.92	9.0	1.16
1 x 25	1.2	0.92	11.0	0.734
1 x 35	1.2	0.92	12.0	0.529
1 x 50	1.4	0.92	13.5	0.391
1 x 70	1.4	0.94	15.0	0.27
1 x 95	1.6	1.00	17.0	0.195
1 x 120	1.6	1.04	19.0	0.154
1 x 150	1.8	1.09	20.5	0.126
1 x 185	2.0	1.14	23.0	0.10
1 x 240	2.2	1.21	26.0	0.0762
1 x 300	2.4	1.28	28.5	0.0607
1 x 400	2.6	1.38	32.0	0.0475
1 x 500	2.8	1.46	36.0	0.0369
1 x 630	2.8	1.55	39.5	0.0286
1 x 800	2.8	1.65	43.5	0.0224
1 x 1000	3.0	1.77	48.5	0.0177

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Copper Armoured Power Cables to IEC 60502-1 (EPR Insulation)

Standard	IEC 60502-1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Tinned Circular Copper conductor Class 2 as per IEC 60228
Insulation	EPR
Core identification	2 Core Red, Black
	3 Core Red, Yellow, Blue
	4 Core Red, Yellow, Blue,Black
	5 Core Red, Yellow, Blue, Black, Grey
Inner Sheath	Extruded Polymeric material (PVC or LSZH)
Armouring	Single layer of Galvanised Steel Round Wire / Flat Strip / Double tape
Sheath	PVC Type ST2
	LSZH Type ST8
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	12 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Nominal Gal. Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
2 x 4	1.0	0.90	1.24	16.0	4.7
2 x 6	1.0	1.25	1.24	18.0	3.11
2 x 10	1.0	1.25	1.24	20.0	1.84
2 x 16	1.0	1.25	1.24	21.0	1.16
2 x 25	1.2	1.60	1.24	25.0	0.734
2 x 35	1.2	1.60	1.24	27.0	0.529
2 x 50	1.4	1.60	1.32	30.5	0.391
2 x 70	1.4	2.00	1.40	35.0	0.27
2 x 95	1.6	2.00	1.56	39.0	0.195
2 x 120	1.6	2.00	1.64	42.5	0.154
2 x 150	1.8	2.50	1.72	47.0	0.126
2 x 185	2.0	2.50	1.88	52.0	0.1
2 x 240	2.2	2.50	2.04	57.5	0.0762
2 x 300	2.4	2.50	2.12	62.5	0.0607
2 x 400	2.6	2.50	2.36	69.5	0.0475
3 x 4	1.0	1.25	1.24	17.5	4.7
3 x 6	1.0	1.25	1.24	19.0	3.11
3 x 10	1.0	1.25	1.24	21.0	1.84
3 x 16	1.0	1.25	1.24	22.5	1.16
3 x 25	1.2	1.60	1.24	26.5	0.734
3 x 35	1.2	1.60	1.24	28.5	0.529
3 x 50	1.4	1.60	1.40	32.5	0.391
3 x 70	1.4	2.00	1.48	37.0	0.27

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Copper Armoured Power Cables to IEC 60502-1 (EPR Insulation)

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Nominal Gal. Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20˚C (Ω/km)
3 x 95	1.6	2.00	1.56	41.5	0.195
3 x 120	1.6	2.00	1.64	45.0	0.154
3 x 150	1.8	2.50	1.80	50.5	0.126
3 x 185	2.0	2.50	1.96	55.0	0.1
3 x 240	2.2	2.50	2.12	61.5	0.0762
3 x 300	2.4	2.50	2.28	67.0	0.0607
3 x 400	2.6	3.15	2.52	76.0	0.0475
4 x 4	1.0	1.25	1.24	19.0	4.7
4 x 6	1.0	1.25	1.24	20.0	3.11
4 x 10	1.0	1.25	1.24	22.5	1.84
4 x 16	1.0	1.60	1.24	25.0	1.16
4 x 25	1.2	1.60	1.24	28.5	0.734
4 x 35	1.2	1.60	1.32	31.5	0.529
4 x 50	1.4	2.00	1.48	36.0	0.391
4 x 70	1.4	2.00	1.56	40.5	0.27
4 x 95	1.6	2.50	1.72	46.5	0.195
4 x 120	1.6	2.50	1.80	50.5	0.154
4 x 150	1.8	2.50	1.96	55.5	0.126
4 x 185	2.0	2.50	2.12	61.0	0.1
4 x 240	2.2	2.50	2.28	68.0	0.0762
4 x 300	2.4	2.50	2.44	74.0	0.0607
4 x 400	2.6	3.15	2.68	83.5	0.0475
5 x 4	1.0	1.25	1.24	20.0	4.7
5 x 6	1.0	1.25	1.24	21.5	3.11
5 x 10	1.0	1.60	1.24	25.0	1.84
5 x 16	1.0	1.60	1.24	26.5	1.16
5 x 25	1.2	1.60	1.32	31.5	0.734
5 x 35	1.2	2.00	1.40	35.0	0.529
5 x 50	1.4	2.00	1.56	39.5	0.391
5 x 70	1.4	2.00	1.64	44.0	0.27

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Copper Unarmoured Power Cables to IEC 60502-1 (EPR Insulation)

Standard	IEC 60502-1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Tinned Circular Copper conductor Class 2 as per IEC 60228
Insulation	EPR
Core identification	2 Core Red, Black
	3 Core Red, Yellow, Blue
	4 Core Red, Yellow, Blue,Black
	5 Core Red, Yellow, Blue, Black, Grey
Sheath	PVC Type ST2
	LSZH Type ST8
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	12 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
2 x 4	1.0	1.24	12.5	4.7
2 x 6	1.0	1.24	13.5	3.11
2 x 10	1.0	1.24	15.5	1.84
2 x 16	1.0	1.24	16.5	1.16
2 x 25	1.2	1.24	20.0	0.734
2 x 35	1.2	1.24	22.0	0.529
2 x 50	1.4	1.24	25.0	0.391
2 x 70	1.4	1.32	28.5	0.27
2 x 95	1.6	1.40	32.5	0.195
2 x 120	1.6	1.48	36.0	0.154
2 x 150	1.8	1.56	40.0	0.126
2 x 185	2.0	1.72	44.5	0.1
2 x 240	2.2	1.88	50.5	0.0762
2 x 300	2.4	1.96	55.5	0.0607
2 x 400	2.6	2.20	62.5	0.0475
3 x 4	1.0	1.24	13.0	4.7
3 x 6	1.0	1.24	14.5	3.11
3 x 10	1.0	1.24	16.5	1.84
3 x 16	1.0	1.24	18.0	1.16
3 x 25	1.2	1.24	21.5	0.734
3 x 35	1.2	1.24	23.5	0.529
3 x 50	1.4	1.24	27.0	0.391
3 x 70	1.4	1.40	31.0	0.27
3 x 95	1.6	1.48	35.0	0.195
3 x 120	1.6	1.56	39.0	0.154
3 x 150	1.8	1.64	43.0	0.126

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Copper Unarmoured Power Cables to IEC 60502-1 (EPR Insulation)

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
3 x 185	2.0	1.80	48.0	0.1
3 x 240	2.2	1.96	54.0	0.0762
3 x 300	2.4	2.12	59.5	0.0607
3 x 400	2.6	2.28	67.0	0.0475
4 x 4	1.0	1.24	14.5	4.7
4 x 6	1.0	1.24	15.5	3.11
4 x 10	1.0	1.24	18.0	1.84
4 x 16	1.0	1.24	19.5	1.16
4 x 25	1.2	1.24	23.5	0.734
4 x 35	1.2	1.24	26.0	0.529
4 x 50	1.4	1.32	30.0	0.391
4 x 70	1.4	1.48	34.5	0.27
4 x 95	1.6	1.56	39.0	0.195
4 x 120	1.6	1.72	43.5	0.154
4 x 150	1.8	1.80	48.0	0.126
4 x 185	2.0	1.96	53.5	0.1
4 x 240	2.2	2.12	60.5	0.0762
4 x 300	2.4	2.28	66.5	0.0607
4 x 400	2.6	2.52	75.0	0.0475
5 x 4	1.0	1.24	15.5	4.7
5 x 6	1.0	1.24	17.0	3.11
5 x 10	1.0	1.24	19.5	1.84
5 x 16	1.0	1.24	21.5	1.16
5 x 25	1.2	1.24	26.0	0.734
5 x 35	1.2	1.32	29.0	0.529
5 x 50	1.4	1.48	33.5	0.391
5 x 70	1.4	1.56	38.0	0.27

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

1.8/3 (3.6) kV Single Core Copper Armoured Power Cables to IEC 60502-1 (XLPE or HEPR Insulation)

Standard	IEC 60502-1 Latest
Voltage	1.8/3 (3.6)kV
Conductor	Annealed Circular Copper conductor Class 2 as per IEC 60228
Insulation	XLPE or HEPR
Core identification	Natural
Inner Sheath	Extruded Polymeric material (PVC or LSZH)
Armouring	Single layer of Aluminium Round Wire / Flat Strip / Double tape
Sheath	PVC Type ST2
	LSZH Type ST8
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Nominal Aluminium Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1 x 10	2.0	0.90	0.92	14.5	1.83
1 x 16	2.0	0.90	0.92	15.0	1.15
1 x 25	2.0	1.25	0.96	17.0	0.727
1 x 35	2.0	1.25	0.99	18.0	0.524
1 x 50	2.0	1.25	1.03	19.5	0.387
1 x 70	2.0	1.25	1.07	21.0	0.268
1 x 95	2.0	1.60	1.13	23.5	0.193
1 x 120	2.0	1.60	1.17	25.0	0.153
1 x 150	2.0	1.60	1.21	26.5	0.124
1 x 185	2.0	1.60	1.25	28.5	0.0991
1 x 240	2.0	1.60	1.31	31.0	0.0754
1 x 300	2.0	1.60	1.37	33.0	0.0601
1 x 400	2.0	2.00	1.48	37.0	0.0470
1 x 500	2.2	2.00	1.56	41.0	0.0366
1 x 630	2.4	2.00	1.66	45.0	0.0283
1 x 800	2.6	2.50	1.80	50.5	0.0221
1 x 1000	2.8	2.50	1.93	55.5	0.0176

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

1.8/3 (3.6) kV Single Core Aluminium Armoured Power Cables to IEC 60502-1 (XLPE or HEPR Insulation)

Standard	IEC 60502-1 Latest
Voltage	1.8/3 (3.6)kV
Conductor	Circular Aluminium conductor Class-2 to IEC 60228
Insulation	XLPE or HEPR
Core identification	Natural
Inner Sheath	Extruded Polymeric material (PVC)
Armouring	Single layer of Aluminium Round Wire / Flat Strip / Double tape
Sheath	PVC Type ST2
	LSZH Type ST8
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Nominal Aluminium Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1 x 10	2.0	0.90	0.92	14.5	3.08
1 x 16	2.0	0.90	0.92	15.0	1.91
1 x 25	2.0	1.25	0.96	17.0	1.20
1 x 35	2.0	1.25	0.99	18.0	0.87
1 x 50	2.0	1.25	1.03	19.5	0.64
1 x 70	2.0	1.25	1.07	21.0	0.44
1 x 95	2.0	1.60	1.13	23.5	0.32
1 x 120	2.0	1.60	1.17	25.0	0.25
1 x 150	2.0	1.60	1.21	26.5	0.21
1 x 185	2.0	1.60	1.25	28.5	0.164
1 x 240	2.0	1.60	1.31	31.0	0.125
1 x 300	2.0	1.60	1.37	33.0	0.100
1 x 400	2.0	2.00	1.48	37.0	0.0778
1 x 500	2.2	2.00	1.56	41.0	0.0605
1 x 630	2.4	2.00	1.66	44.5	0.0469
1 x 800	2.6	2.50	1.80	50.5	0.0367
1 x 1000	2.8	2.50	1.93	55.5	0.0291

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

1.8/3 (3.6) kV Single Core Copper Unarmoured Power Cables to IEC 60502-1 (XLPE or HEPR Insulation)

Standard	IEC 60502-1 Latest
Voltage	1.8/3 (3.6)kV
Conductor	Annealed Circular Copper conductor Class 2 as per IEC 60228
Insulation	XLPE or HEPR
Core identification	Natural
Sheath	PVC Type ST2
	LSZH Type ST8
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1 x 10	2.0	0.92	10.5	1.83
1 x 16	2.0	0.92	11.5	1.15
1 x 25	2.0	0.92	12.5	0.727
1 x 35	2.0	0.92	13.5	0.524
1 x 50	2.0	0.94	14.5	0.387
1 x 70	2.0	0.98	16.5	0.268
1 x 95	2.0	1.02	18.0	0.193
1 x 120	2.0	1.06	19.5	0.153
1 x 150	2.0	1.10	21.0	0.124
1 x 185	2.0	1.14	23.0	0.0991
1 x 240	2.0	1.20	25.5	0.0754
1 x 300	2.0	1.26	27.5	0.0601
1 x 400	2.0	1.34	30.5	0.0470
1 x 500	2.2	1.43	34.5	0.0366
1 x 630	2.4	1.53	39.0	0.0283
1 x 800	2.6	1.64	43.0	0.0221
1 x 1000	2.8	1.76	48.0	0.0176

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

1.8/3 (3.6) kV Single Core Aluminium Unarmoured Power Cables to IEC 60502-1 (XLPE or HEPR Insulation)

Standard	IEC 60502-1 Latest
Voltage	1.8/3 (3.6)kV
Conductor	Circular Aluminium conductor Class-2 to IEC 60228
Insulation	XLPE or HEPR
Core identification	Natural
Sheath	PVC Type ST2
	LSZH Type ST8
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1 x 10	2.0	0.92	10.5	3.08
1 x 16	2.0	0.92	11.0	1.91
1 x 25	2.0	0.92	12.5	1.20
1 x 35	2.0	0.92	13.5	0.87
1 x 50	2.0	0.94	14.5	0.64
1 x 70	2.0	0.98	16.5	0.44
1 x 95	2.0	1.02	18.0	0.32
1 x 120	2.0	1.06	19.5	0.25
1 x 150	2.0	1.10	21.0	0.21
1 x 185	2.0	1.14	23.0	0.164
1 x 240	2.0	1.20	25.5	0.125
1 x 300	2.0	1.26	27.5	0.100
1 x 400	2.0	1.34	30.5	0.0778
1 x 500	2.2	1.43	34.5	0.0605
1 x 630	2.4	1.53	38.5	0.0469
1 x 800	2.6	1.64	43.0	0.0367
1 x 1000	2.8	1.76	48.0	0.0291

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Three Core Copper VFD Armoured Cables to IEC 60502-1 (XLPE Insulation)

Standard	IEC 60502-1 Latest
Voltage	0.6/1 (1.2) kV
Conductor	Annealed Circular Copper conductor Class 2 as per IEC 60228
Insulation	XLPE
Core identification	3Phase - Red, Yellow, Blue
	3 Ground - Green with Yellow Stripe
Ground Conductor	Three split insulated ground conductors are placed in interstices of phase cores.
Screening	Copper Tape
Separation Sheath	PVC Type ST2
	LSZH Type ST8
Armouring	Single layer of Galvanised Steel Round Wire / Flat Strip / Double tape
Sheath	PVC Type ST2
	LSZH Type ST8
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	12 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Nominal Gal. Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
3 x 2.5 + 3 x 1	0.7	1.25	1.24	16	7.41
3 x 4 + 3 x 2.5	0.7	1.25	1.24	19	4.61
3 x 6 + 3 x 2.5	0.7	1.25	1.24	19	3.08
3 x 10 + 3 x 4	0.7	1.25	1.24	21.5	1.83
3 x 16 + 3 x 6	0.7	1.6	1.24	25	1.15
3 x 25 + 3 x 6	0.9	1.6	1.24	25	0.727
3 x 35 + 3 x 6	0.9	1.6	1.32	27.5	0.524
3 x 50 + 3 x 10	1.0	1.6	1.4	30.5	0.387
3 x 70 + 3 x 16	1.1	2	1.48	35.5	0.268
3 x 95 + 3 x 16	1.1	2	1.56	39	0.193
3 x 120 + 3 x 25	1.2	2.5	1.72	44.5	0.153
3 x 150 + 3 x 25	1.4	2.5	1.88	48.5	0.124
3 x 185 + 3 x 35	1.6	2.5	1.96	53.5	0.0991
3 x 240 + 3 x 50	1.7	2.5	2.12	59.5	0.0754
3 x 300 + 3 x 50	1.8	2.5	2.28	65	0.0601

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Single Core Flexible Copper Unarmoured Cables with X-HF-110 insulation to AS/NZS:5000.1

Standard	AS/NZS 5000.1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Flexible Copper conductor Class-5 to AS/NZS 1125
Insulation	Cross linked X-HF-110
Core identification	Natural
Sheath	HFS-110-TP
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 110°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1 x 4	0.7	1.09	7.0	4.95
1 x 6	0.7	1.09	7.5	3.3
1 x 10	0.7	1.09	8.5	1.91
1 x 16	0.7	1.09	9.5	1.21
1 x 25	0.9	1.09	11.0	0.78
1 x 35	0.9	1.09	12.0	0.554
1 x 50	1.0	1.09	14.0	0.386
1 x 70	1.1	1.09	16.0	0.272
1 x 95	1.1	1.18	17.5	0.206
1 x 120	1.2	1.18	19.5	0.161
1 x 150	1.4	1.26	21.5	0.129
1 x 185	1.6	1.26	23.5	0.11
1 x 240	1.7	1.35	26.5	0.0801
1 x 300	1.8	1.43	29.5	0.0641
1 x 400	2.0	1.52	33.5	0.0486
1 x 500	2.2	1.60	37.0	0.0384
1 x 630	2.4	1.77	43.0	0.0287

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Single Core Stranded Copper Unarmoured Cables with XLPE X-90 insulation to AS/NZS:5000.1

Standard	AS/NZS 5000.1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Stranded Copper conductor Class-2 to AS/NZS 1125
Insulation	XLPE X-90
Core identification	Natural
Sheath	PVC 5V-90
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1 x 10	0.7	1.09	8.5	1.83
1 x 16	0.7	1.09	9.0	1.15
1 x 25	0.9	1.09	10.5	0.727
1 x 35	0.9	1.09	11.5	0.524
1 x 50	1.0	1.09	13.0	0.387
1 x 70	1.1	1.09	15.0	0.268
1 x 95	1.1	1.18	17.0	0.193
1 x 120	1.2	1.18	18.5	0.153
1 x 150	1.4	1.26	20.5	0.124
1 x 185	1.6	1.26	22.5	0.10
1 x 240	1.7	1.35	25.5	0.0754
1 x 300	1.8	1.43	28.0	0.0601
1 x 400	2.0	1.52	31.5	0.0470
1 x 500	2.2	1.60	35.0	0.0366
1 x 630	2.4	1.77	39.5	0.0283

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Single Core Flexible Copper Unarmoured Cables with XLPE X-90 insulation to AS/NZS:5000.1

Standard	AS/NZS 5000.1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Flexible Copper conductor Class-5 to AS/NZS 1125
Insulation	XLPE X-90
Core identification	Natural
Sheath	PVC 5V-90
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1 x 10	0.7	1.09	8.5	1.91
1 x 16	0.7	1.09	9.5	1.21
1 x 25	0.9	1.09	11.0	0.78
1 x 35	0.9	1.09	12.5	0.554
1 x 50	1.0	1.09	14.0	0.386
1 x 70	1.1	1.09	16.0	0.272
1 x 95	1.1	1.18	17.5	0.206
1 x 120	1.2	1.18	19.5	0.161
1 x 150	1.4	1.26	21.5	0.129
1 x 185	1.6	1.26	23.5	0.11
1 x 240	1.7	1.35	26.5	0.0801
1 x 300	1.8	1.43	29.5	0.0641
1 x 400	2.0	1.52	33.5	0.0486
1 x 500	2.2	1.60	37.0	0.0384
1 x 630	2.4	1.77	43.0	0.0287

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Single Core Stranded Aluminium Unarmoured Cables with XLPE X-90 insulation to AS/NZS:5000.1

Standard	AS/NZS 5000.1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Stranded Aluminium conductor Class-2 to AS/NZS 1125
Insulation	XLPE X-90
Core identification	Natural
Sheath	PVC 5V-90
	HDPE
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1 x 16	0.7	1.09	9.0	1.91
1 x 25	0.9	1.09	10.5	1.2
1 x 35	0.9	1.09	11.5	0.868
1 x 50	1.0	1.09	13.0	0.641
1 x 70	1.1	1.09	14.5	0.443
1 x 95	1.1	1.18	16.5	0.32
1 x 120	1.2	1.18	18.0	0.253
1 x 150	1.4	1.26	20.0	0.206
1 x 185	1.6	1.26	22.5	0.16
1 x 240	1.7	1.35	25.0	0.125
1 x 300	1.8	1.43	27.5	0.1
1 x 400	2.0	1.52	31.0	0.0778

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Flexible Copper Unarmoured Cables with X-HF-110 insulation to AS/NZS:5000.1

Standard	AS/NZS 5000.1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Flexible Copper conductor Class-5 to AS/NZS 1125
Insulation	Cross linked X-HF-110
Core identification	Red, White, Blue, Black & Green/Yellow
Sheath	HFS-110-TP
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 110°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
4C x 10 + E x 4	0.7	1.43	18.5	1.91
4C x 16 + E x 6	0.7	1.43	21.5	1.21
4C x 25 + E x 6	0.9	1.43	26.0	0.78
4C x 35 + E x 10	0.9	1.43	29.0	0.554
4C x 50 + E x 16	1.0	1.60	34.0	0.386
4C x 70 + E x 25	1.1	1.69	39.5	0.272
4C x 95 + E x 25	1.1	1.86	44.0	0.206
4C x 120 + E x 35	1.2	1.94	49.0	0.161
4C x 150 + E x 50	1.4	2.11	55.0	0.129
4C x 185 + E x 70	1.6	2.28	61.0	0.11
4C x 240 + E x 95	1.7	2.45	68.5	0.0801
4C x 300 + E x 120	1.8	2.62	76.0	0.0641
4C x 400 + E x 120	2.0	2.96	87.5	0.0486

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Stranded Copper Unarmoured Cables with XLPE X-90 insulation to AS/NZS:5000.1

Standard	AS/NZS 5000.1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Stranded Copper conductor Class-2 to AS/NZS 1125
Insulation	XLPE X-90
Core identification	2C + E - Red, White & Green/Yellow
	3C + E - Red, White, Blue & Green/Yellow
	4C + E - Red, White, Blue, Black & Green/Yellow
Sheath	PVC 5V-90
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
2C x 2.5 + E x 2.5	0.7	1.43	11.0	7.41
2C x 4 + E x 2.5	0.7	1.43	12.0	4.61
2C x 6 + E x 2.5	0.7	1.43	13.5	3.08
2C x 10 + E x 4	0.7	1.43	15.5	1.83
2C x 16 + E x 6	0.7	1.43	17.0	1.15
2C x 25 + E x 6	0.9	1.43	20.5	0.727
2C x 35 + E x 10	0.9	1.43	23.0	0.524
2C x 50 + E x 16	1.0	1.43	26.0	0.387
2C x 70 + E x 25	1.1	1.52	29.5	0.268
2C x 95 + E x 25	1.1	1.60	34.0	0.19
2C x 120 + E x 35	1.2	1.69	37.5	0.153
2C x 150 + E x 50	1.4	1.86	42.0	0.124
2C x 185 + E x 70	1.6	1.94	46.5	0.0991
3C x 2.5 + E x 2.5	0.7	1.43	12	7.41
3C x 4 + E x 2.5	0.7	1.43	13	4.61
3C x 6 + E x 2.5	0.7	1.43	14.5	3.08
3C x 10 + E x 4	0.7	1.43	17	1.83
3C x 16 + E x 6	0.7	1.43	18.5	1.15
3C x 25 + E x 6	0.9	1.43	22.5	0.727
3C x 35 + E x 10	0.9	1.43	25	0.524
3C x 50 + E x 16	1.0	1.52	28.5	0.387
3C x 70 + E x 25	1.1	1.6	33	0.268
3C x 95 + E x 25	1.1	1.69	37.5	0.193
3C x 120 + E x 35	1.2	1.86	42	0.153
3C x 150 + E x 50	1.4	1.94	46.5	0.124
3C x 185 + E x 70	1.6	2.11	52	0.0991
4C x 2.5 + E x 2.5	0.7	1.43	13	7.41

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Stranded Copper Unarmoured Cables with XLPE X-90 insulation to AS/NZS:5000.1

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
4C x 4 + E x 2.5	0.7	1.43	14.5	4.61
4C x 6 + E x 2.5	0.7	1.43	16	3.08
4C x 10 + E x 4	0.7	1.43	18.5	1.83
4C x 16 + E x 6	0.7	1.43	20.5	1.15
4C x 25 + E x 6	0.9	1.43	24.5	0.727
4C x 35 + E x 10	0.9	1.43	27.5	0.524
4C x 50 + E x 16	1.0	1.6	32	0.387
4C x 70 + E x 25	1.1	1.69	36.5	0.268
4C x 95 + E x 25	1.1	1.86	42	0.193
4C x 120 + E x 35	1.2	1.94	46.5	0.153
4C x 150 + E x 50	1.4	2.11	52	0.124
4C x 185 + E x 70	1.6	2.28	57.5	0.0991
4C x 240 + E x 95	1.7	2.45	65.5	0.0754
4C x 300 + E x 120	1.8	2.62	72	0.0601
4C x 400 + E x 120	2.0	2.96	81.5	0.047

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Flexible Copper Unarmoured Cables with XLPE X-90 insulation to AS/NZS:5000.1

Standard	AS/NZS 5000.1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Flexible Copper conductor Class-5 to AS/NZS 1125
Insulation	XLPE X-90
Core identification	2C + E - Red, White & Green/Yellow
	3C + E - Red, White, Blue & Green/Yellow
	4C + E - Red, White, Blue, Black & Green/Yellow
Sheath	PVC 5V-90
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
2C x 1.5 + E x 1.5	0.7	1.43	10.0	13.3
2C x 2.5 + E x 2.5	0.7	1.43	11.0	7.98
2C x 4 + E x 2.5	0.7	1.43	12.5	4.95
2C x 6 + E x 2.5	0.7	1.43	13.5	3.3
2C x 10 + E x 4	0.7	1.43	15.5	1.91
2C x 16 + E x 6	0.7	1.43	18.0	1.21
2C x 25 + E x 6	0.9	1.43	21.5	0.78
2C x 35 + E x 10	0.9	1.43	24.0	0.554
2C x 50 + E x 16	1.0	1.43	28.0	0.386
2C x 70 + E x 25	1.1	1.52	32.0	0.27
2C x 95 + E x 25	1.1	1.60	35.5	0.206
2C x 120 + E x 35	1.2	1.69	39.5	0.161
2C x 150 + E x 50	1.4	1.86	44.5	0.1290
2C x 185 + E x 70	1.6	1.94	49	0.106
3C x 1.5 + E x 1.5	0.7	1.43	11	13.3
3C x 2.5 + E x 2.5	0.7	1.43	12	7.98
3C x 4 + E x 2.5	0.7	1.43	13.5	4.95
3C x 6 + E x 2.5	0.7	1.43	15	3.3
3C x 10 + E x 4	0.7	1.43	17	1.91
3C x 16 + E x 6	0.7	1.43	19.5	1.21
3C x 25 + E x 6	0.9	1.43	24	0.78
3C x 35 + E x 10	0.9	1.43	26.5	0.554
3C x 50 + E x 16	1.0	1.52	31	0.386
3C x 70 + E x 25	1.1	1.6	35.5	0.272
3C x 95 + E x 25	1.1	1.69	39.5	0.206
3C x 120 + E x 35	1.2	1.86	44.5	0.161
3C x 150 + E x 50	1.4	1.94	49.5	0.129

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Flexible Copper Unarmoured Cables with XLPE X-90 insulation to AS/NZS:5000.1

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
3C x 185 + E x 70	1.6	2.11	54.5	0.106
4C x 1.5 + E x 1.5	0.7	1.43	12	13.3
4C x 2.5 + E x 2.5	0.7	1.43	13	7.98
4C x 4 + E x 2.5	0.7	1.43	14.5	4.95
4C x 6 + E x 2.5	0.7	1.43	16	3.3
4C x 10 + E x 4	0.7	1.43	18.5	1.91
4C x 16 + E x 6	0.7	1.43	21.5	1.21
4C x 25 + E x 6	0.9	1.43	26	0.78
4C x 35 + E x 10	0.9	1.43	29	0.554
4C x 50 + E x 16	1.0	1.6	34	0.386
4C x 70 + E x 25	1.1	1.69	39.5	0.272
4C x 95 + E x 25	1.1	1.86	44	0.206
4C x 120 + E x 35	1.2	1.94	49	0.161
4C x 150 + E x 50	1.4	2.11	55	0.129
4C x 185 + E x 70	1.6	2.28	61	0.106
4C x 240 + E x 95	1.7	2.45	68.5	0.0801
4C x 300 + E x 120	1.8	2.62	76	0.0641
4C x 400 + E x 120	2.0	2.96	87.5	0.0486

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Stranded Copper without Earth Core Unarmoured Cables with XLPE X-90 insulation to AS/NZS:5000.1

Standard	AS/NZS 5000.1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Stranded Copper conductor Class-2 to AS/NZS 1125
Insulation	XLPE X-90
Core identification	3C - Red, White & Blue
	4C - Red, White, Blue & Black
	5C - Red, White, Blue, Black & Green/Yellow
Sheath	PVC 5V-90
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
3 x 2.5	0.7	1.43	11.0	7.41
3 x 4	0.7	1.43	12.0	4.61
3 x 6	0.7	1.43	13.5	3.08
3 x 10	0.7	1.43	15.5	1.83
3 x 16	0.7	1.43	17.0	1.15
3 x 25	0.9	1.43	20.5	0.727
3 x 35	0.9	1.43	23.0	0.524
3 x 50	1.0	1.43	26.0	0.387
3 x 70	1.1	1.52	29.5	0.268
3 x 95	1.1	1.60	34.0	0.19
3 x 120	1.2	1.69	37.5	0.153
3 x 150	1.4	1.86	42.0	0.124
3 x 185	1.6	1.94	46.5	0.0991
4 x 2.5	0.7	1.43	12	7.41
4 x 4	0.7	1.43	13	4.61
4 x 6	0.7	1.43	14.5	3.08
4 x 10	0.7	1.43	17	1.83
4 x 16	0.7	1.43	18.5	1.15
4 x 25	0.9	1.43	22.5	0.727
4 x 35	0.9	1.43	25	0.524
4 x 50	1.0	1.52	28.5	0.387
4 x 70	1.1	1.6	33	0.268
4 x 95	1.1	1.69	37.5	0.193
4 x 120	1.2	1.86	42	0.153
4 x 150	1.4	1.94	46.5	0.124
4 x 185	1.6	2.11	52	0.0991
4 x 240	1.7	2.28	58.5	0.0754

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Stranded Copper without Earth Core Unarmoured Cables with XLPE X-90 insulation to AS/NZS:5000.1

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
4 x 300	1.8	2.45	65	0.0601
5 x 2.5	0.7	1.43	13	7.41
5 x 4	0.7	1.43	14.5	4.61
5 x 6	0.7	1.43	16	3.08
5 x 10	0.7	1.43	18.5	1.83
5 x 16	0.7	1.43	20	1.15
5 x 25	0.9	1.43	24.5	0.727
5 x 35	0.9	1.43	27.5	0.524
5 x 50	1.0	1.6	31.5	0.387
5 x 70	1.1	1.69	36.5	0.268
5 x 95	1.1	1.86	42	0.193
5 x 120	1.2	1.94	46.5	0.153
5 x 150	1.4	2.11	52	0.124
5 x 185	1.6	2.28	57.5	0.0991
5 x 240	1.7	2.45	65	0.0754
5 x 300	1.8	2.62	72	0.0601
5 x 400	2.0	2.96	81.5	0.047

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Stranded Aluminium Unarmoured Cables with XLPE X-90 insulation to AS/NZS:5000.1

Standard	AS/NZS 5000.1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Stranded Aluminium conductor Class-2 to AS/NZS 1125
Insulation	XLPE X-90
Core identification	2C + E - Red, White & Green/Yellow
	3C + E - Red, White, Blue & Green/Yellow
	4C + E - Red, White, Blue, Black & Green/Yellow
Sheath	PVC 5V-90
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
2C x 16 + E x 6	0.7	1.43	17.0	1.91
2C x 25 + E x 6	0.9	1.43	20.5	1.2
2C x 35 + E x 10	0.9	1.43	23.0	0.868
2C x 50 + E x 16	1.0	1.43	26.0	0.641
2C x 70 + E x 25	1.1	1.52	29.5	0.443
2C x 95 + E x 25	1.1	1.60	34.0	0.32
2C x 120 + E x 35	1.2	1.69	37.5	0.253
2C x 150 + E x 50	1.4	1.86	42.0	0.206
2C x 185 + E x 70	1.6	1.94	46.5	0.16
3C x 16 + E x 6	0.7	1.43	18.5	1.91
3C x 25 + E x 6	0.9	1.43	22.5	1.2
3C x 35 + E x 10	0.9	1.43	25.0	0.8680
3C x 50 + E x 16	1.0	1.52	28.5	0.6410
3C x 70 + E x 25	1.1	1.60	33.0	0.4430
3C x 95 + E x 25	1.1	1.69	37.5	0.3200
3C x 120 + E x 35	1.2	1.86	42.0	0.2530
3C x 150 + E x 50	1.4	1.94	46.5	0.2060
3C x 185 + E x 70	1.6	2.11	52.0	0.1640
4C x 16 + E x 6	0.7	1.43	20.5	1.9100
4C x 25 + E x 6	0.9	1.43	24.5	1.2000
4C x 35 + E x 10	0.9	1.43	27.5	0.8680
4C x 50 + E x 16	1.0	1.60	32.0	0.6410
4C x 70 + E x 25	1.1	1.69	36.5	0.4430
4C x 95 + E x 25	1.1	1.86	42.0	0.3200
4C x 120 + E x 35	1.2	1.94	46.5	0.2530
4C x 150 + E x 50	1.4	2.11	52.0	0.2060
4C x 185 + E x 70	1.6	2.28	57.5	0.1640
4C x 240 + E x 95	1.7	2.45	65.5	0.1250
4C x 300 + E x 120	1.8	2.62	72.0	0.1000
4C x 400 + E x 120	2.0	2.96	81.5	0.0778

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Single Core Stranded Copper Unarmoured Cables with PVC V-90 insulation to AS/NZS:5000.1

Standard	AS/NZS 5000.1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Flexible Copper conductor Class-5 to AS/NZS 1125
Insulation	PVC V-90
Core identification	Natural
Sheath	PVC 5V-90
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1 x 1.5	0.8	1.09	6.0	12.1
1 x 2.5	0.8	1.09	6.5	7.41
1 x 4	1.0	1.09	7.5	4.61
1 x 6	1.0	1.09	8.0	3.08
1 x 10	1.0	1.09	9.0	1.83
1 x 16	1.0	1.09	9.5	1.15
1 x 25	1.2	1.09	11.0	0.727
1 x 35	1.2	1.09	12.5	0.524
1 x 50	1.4	1.09	14.0	0.387
1 x 70	1.4	1.09	15.5	0.27
1 x 95	1.6	1.18	17.5	0.193
1 x 120	1.6	1.18	19.0	0.153
1 x 150	1.8	1.26	21.0	0.1240
1 x 185	2.0	1.35	23.5	0.0991
1 x 240	2.2	1.43	26.5	0.0754
1 x 300	2.4	1.52	29.0	0.0601

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Stranded Copper Unarmoured Cables with PVC V-90 insulation to AS/NZS:5000.1

Standard	AS/NZS 5000.1 Latest
Voltage	0.6/1 (1.2)kV
Conductor	Stranded Copper conductor Class-2 to AS/NZS 1125
Insulation	PVC V-90
Core identification	2C + E - Red, White & Green/Yellow
	3C + E - Red, White, Blue & Green/Yellow
	4C + E - Red, White, Blue, Black & Green/Yellow
Sheath	PVC 5V-90
Color of Outer Sheath	Black
Temperature Limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 Times overall diameter of the cable

- Should not be installed at temperatures below 0°C
- Other Insulation and sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
2C x 2.5 + E x 2.5	0.8	1.43	11.5	7.41
2C x 4 + E x 2.5	1.0	1.43	13.5	4.61
2C x 6 + E x 2.5	1.0	1.43	15.0	3.08
2C x 10 + E x 4	1.0	1.43	16.5	1.83
2C x 16 + E x 6	1.0	1.43	18.5	1.15
2C x 25 + E x 6	1.2	1.43	22.0	0.727
2C x 35 + E x 10	1.2	1.43	24.0	0.524
2C x 50 + E x 16	1.4	1.52	27.5	0.387
2C x 70 + E x 25	1.4	1.60	31.5	0.268
2C x 95 + E x 25	1.6	1.69	36.0	0.19
2C x 120 + E x 35	1.6	1.77	39.5	0.153
2C x 150 + E x 50	1.8	1.94	44.0	0.124
2C x 185 + E x 70	2.0	2.03	48.5	0.0991
2C x 240 + E x 95	2.2	2.2	54.5	0.0754
3C x 2.5 + E x 2.5	0.8	1.43	12.5	7.41
3C x 4 + E x 2.5	1.0	1.43	14.5	4.61
3C x 6 + E x 2.5	1.0	1.43	16	3.08
3C x 10 + E x 4	1.0	1.43	18.5	1.83
3C x 16 + E x 6	1.0	1.43	20	1.15
3C x 25 + E x 6	1.2	1.43	24	0.727
3C x 35 + E x 10	1.2	1.43	26.5	0.524
3C x 50 + E x 16	1.4	1.52	30.5	0.387
3C x 70 + E x 25	1.4	1.6	34.5	0.268
3C x 95 + E x 25	1.6	1.69	39.5	0.193
3C x 120 + E x 35	1.6	1.77	43.5	0.153
3C x 150 + E x 50	1.8	1.94	48.5	0.124
3C x 185 + E x 70	2.0	2.03	53.5	0.0991
3C x 240 + E x 95	2.2	2.2	60.5	0.0754
4C x 2.5 + E x 2.5	0.8	1.43	13.5	7.41

- Dimensions & Weights are representative figures and may vary ± 5%

LV Power and Control Cables

Low Voltage Multi Core Stranded Copper Unarmoured Cables with PVC V-90 insulation to AS/NZS:5000.1

Number and nominal cross-sectional area of conductors (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
4C x 4 + E x 2.5	1.0	1.43	16	4.61
4C x 6 + E x 2.5	1.0	1.43	17.5	3.08
4C x 10 + E x 4	1.0	1.43	20	1.83
4C x 16 + E x 6	1.0	1.43	22	1.15
4C x 25 + E x 6	1.2	1.43	26.5	0.727
4C x 35 + E x 10	1.2	1.43	29.5	0.524
4C x 50 + E x 16	1.4	1.52	33.5	0.387
4C x 70 + E x 25	1.4	1.6	38	0.268
4C x 95 + E x 25	1.6	1.69	44	0.193
4C x 120 + E x 35	1.6	1.77	48	0.153
4C x 150 + E x 50	1.8	1.94	53.5	0.124
4C x 185 + E x 70	2.0	2.03	59.5	0.0991
4C x 240 + E x 95	2.2	2.2	67	0.0754

- Dimensions & Weights are representative figures and may vary ± 5%

Type TC

600V, Copper, XLPE Insulation XHHW-2,PVC Jacket Power Cable (Type TC)

Standard	UL 1277,UL 44
Conductor	Class B Stranded copper conductor as per ASTM B3 & ASTM B8
Insulation	Cross Linked Polyethylene (XLPE) Type XHHW -2
Grounding Conductor	Class B compressed stranded bare copper as per ASTM B3 and ASTM B8
Filler	Non-Hygroscopic fillers (If Applicable)
Binder	Polyester Binder Tape (If Applicable)
Jacket	Flame Retardant, Polyvinyl Chloride (PVC) Jacket
Operating Temperature	Wet or dry locations not to exceed 90°C
	Emergency Overload Temperature : 130°C
	Max. Short Circuit Temperature: 250°C
Minimum Bending Radius	D - Overall diameter of the cable
	1.00 inch and less - 4D
	1.01 to 2.0 inch - 5D
	2.01inch and over - 6D

Note:

• -ER rating shall be provided 4AWG & above cross sections only

Conductor Size (AWG / kcmil)	No. of Cores	Insulation Thickness (mils)	Ground Conductor	Jacket Thickness (mils)	Approx. OD (inch)	Max. DC Resistance of conductor (Ω/1000ft)	Allowable Ampacities		
			No x AWG				60° C Amps	75° C Amps	90° C Amps
14	2/G	30	1 x 14	45	0.37	2.62	15	20	25
12	2/G	30	1 x 12	45	0.41	1.65	20	25	30
10	2/G	30	1 x 10	45	0.47	1.04	30	35	40
8	2/G	45	1 x 10	60	0.61	0.654	40	50	55
6	2/G	45	1 x 8	60	0.69	0.411	55	65	75
4	2/G	45	1 x 8	60	0.79	0.259	70	85	95
2	2/G	45	1 x 6	80	0.94	0.163	95	115	130
14	3/G	30	1 x 14	45	0.39	2.62	15	20	25
12	3/G	30	1 x 12	45	0.43	1.65	20	25	30
10	3/G	30	1 x 10	45	0.49	1.04	30	35	40
8	3/G	45	1 x 10	60	0.65	0.654	40	50	55
6	3/G	45	1 x 8	60	0.75	0.411	55	65	75
4	3/G	45	1 x 8	60	0.85	0.259	70	85	95
2	3/G	45	1 x 6	80	1.02	0.163	95	115	130
2/0	3/G	55	1 x 6	80	1.34	0.0811	145	175	195
4/0	3/G	55	1 x 4	80	1.54	0.051	195	230	260
250	3/G	65	1 x 4	80	1.67	0.0432	215	255	290
350	3/G	65	1 x 3	110	1.97	0.0308	260	310	350
500	3/G	65	1 x 2	110	2.24	0.0216	320	380	430
10	4/G	30	1 x 10	45	0.53	1.04	24	28	32
8	4/G	45	1 x 10	60	0.73	0.654	32	40	44
6	4/G	45	1 x 8	60	0.81	0.411	44	52	60
4	4/G	45	1 x 8	80	0.96	0.259	56	68	76
2	4/G	45	1 x 6	80	1.12	0.163	76	92	104
2/0	4/G	55	1 x 6	80	1.48	0.0811	116	140	156
4/0	4/G	55	1 x 4	110	1.77	0.051	156	184	208

• Dimensions & Weights are representative figures and may vary ± 5%

Type TC

600V, Copper, XLPE Insulation XHHW-2,PVC Jacket Power Cable (Type TC)

Conductor Size (AWG / kcmil)	No. of Cores	Insulation Thickness (mils)	Ground Conductor	Jacket Thickness (mils)	Approx. OD (inch)	Max. DC Resistance of conductor (Ω/1000ft)	Allowable Ampacities		
			No x AWG				60° C Amps	75° C Amps	90° C Amps
250	4/G	65	1 x 4	110	1.93	0.0432	172	204	232
350	4/G	65	1 x 3	110	2.17	0.0308	208	248	280
500	4/G	65	1 x 2	110	2.48	0.0216	256	304	344
14	3	30	-	45	0.39	2.62	15	20	25
14	5	30	-	45	0.47	2.62	12	16	20
14	7	30	-	45	0.51	2.62	11	14	18
14	12	30	-	60	0.71	2.62	8	10	13
14	19	30	-	60	0.81	2.62	8	10	13
10	3	30	-	45	0.49	1.04	30	35	40
10	5	30	-	60	0.63	1.04	24	28	32
4/0	1	55	-	60	0.77	0.102	125	150	170
12	3/3G	30	3 x 12	45	0.433	1.65	20	25	30
10	3/3G	30	3 x 10	45	0.492	1.04	30	35	40
8	3/3G	45	3 x 10	60	0.65	0.654	40	50	55
6	3/3G	45	3 x 8	60	0.748	0.411	55	65	75
4	3/3G	45	3 x 8	60	0.846	0.259	70	85	95
2	3/3G	45	3 x 6	80	1.024	0.163	95	115	130
2/0	3/3G	55	3 x 6	80	1.339	0.0811	145	175	195
4/0	3/3G	55	3 x 4	80	1.535	0.051	195	230	260
250	3/3G	65	3 x 4	80	1.673	0.0432	215	255	290
350	3/3G	65	3 x 3	110	2.244	0.0308	260	310	350
500	3/3G	65	3 x 2	110	1.969	0.0216	320	380	430

Table E-2 as per ICEA S-73-532/NEMA WC 57-2004 Sizes 8 AWG and larger:
Numbered printing on Black colour Insulation as per ICEA Method 4

Conductor Number	Base Color	Tracer Color
1	Black	
2	Red	
3	Blue	
4	Orange	
5	Yellow	
6	Brown	
7	Red	Black
8	Blue	Black
9	Orange	Black
10	Yellow	Black
11	Brown	Black
12	Black	Red
13	Blue	Red
14	Orange	Red
15	Yellow	Red
16	Brown	Red
17	Black	Blue
18	Red	Blue
19	Orange	Blue

- Dimensions & Weights are representative figures and may vary ± 5%

Type MC

600V, Copper, XLPE Insulation XHHW-2,Aluminium Interlocked Armour (AIA) PVC Jacket Power Cable (Type MC)

Standard	UL 1569,UL 44
Conductor	Class B Stranded copper conductor as per ASTM B3 & ASTM B8
Insulation	Cross Linked Polyethylene (XLPE) Type XHHW -2
Grounding Conductor	Class B compressed stranded bare copper as per ASTM B3 and ASTM B8
Filler	Non-Hygroscopic fillers (If Applicable)
Binder	Polyester Binder Tape (If Applicable)
Armouring	Aluminium Interlocked Armour (AIA)
Jacket	Flame Retardant, Polyvinyl Chloride (PVC) Jacket
Operating Temperature	Wet or dry locations not to exceed 90°C
	Emergency Overload Temperature : 130°C
	Max. Short Circuit Temperature: 250°C
Minimum Bending Radius	7 Times Overall diameter of the cable

Conductor Size (AWG / kcmil)	No. of Cores	Insulation Thickness (mils)	Ground Conductor	Jacket Thickness (mils)	Approx. OD (inch)	Max. DC Resistance of conductor (Ω/1000ft)	Allowable Ampacities		
			No x AWG				60° C Amps	75° C Amps	90° C Amps
14	2/G	30	1 x 14	50	0.55	2.62	15	20	25
12	2/G	30	1 x 12	50	0.59	1.65	20	25	30
10	2/G	30	1 x 10	50	0.65	1.04	30	35	40
8	2/G	45	1 x 10	50	0.77	0.654	40	50	55
6	2/G	45	1 x 8	50	0.85	0.411	55	65	75
4	2/G	45	1 x 8	50	0.94	0.259	70	85	95
2	2/G	45	1 x 6	50	1.06	0.163	95	115	130
12	3/G	30	1 x 12	50	0.61	1.65	20	25	30
10	3/G	30	1 x 10	50	0.67	1.04	30	35	40
8	3/G	45	1 x 10	50	0.81	0.654	40	50	55
6	3/G	45	1 x 8	50	0.89	0.411	55	65	75
4	3/G	45	1 x 8	50	0.98	0.259	70	85	95
2	3/G	45	1 x 6	50	1.12	0.163	95	115	130
2/0	3/G	55	1 x 6	50	1.44	0.0811	145	175	195
4/0	3/G	55	1 x 4	60	1.65	0.051	195	230	260
250	3/G	65	1 x 4	60	1.81	0.0432	215	255	290
350	3/G	65	1 x 3	60	2.03	0.0308	260	310	350
500	3/G	65	1 x 2	60	2.32	0.0216	320	380	430
10	4/G	30	1 x 10	50	0.71	1.04	24	28	32
8	4/G	45	1 x 10	50	0.87	0.654	32	40	44
6	4/G	45	1 x 8	50	0.96	0.411	44	52	60
4	4/G	45	1 x 8	50	1.08	0.259	56	68	76
2	4/G	45	1 x 6	50	1.22	0.163	76	92	104
2/0	4/G	55	1 x 6	50	1.57	0.0811	116	140	156
4/0	4/G	55	1 x 4	60	1.83	0.051	156	184	208
250	4/G	65	1 x 4	60	1.99	0.0432	172	204	232
350	4/G	65	1 x 3	60	2.24	0.0308	208	248	280
500	4/G	65	1 x 2	75	2.58	0.0216	256	304	344

- Dimensions & Weights are representative figures and may vary ± 5%

Type MC

600V, Copper, XLPE Insulation XHHW-2,Aluminium Interlocked Armour (AIA) PVC Jacket Power Cable (Type MC)

Conductor Size (AWG / kcmil)	No. of Cores	Insulation Thickness (mils)	Ground Conductor	Jacket Thickness (mils)	Approx. OD (inch)	Max. DC Resistance of conductor (Ω/1000ft)	Allowable Ampacities		
			No x AWG				60° C Amps	75° C Amps	90° C Amps
14	3	30	-	50	0.57	2.62	15	20	25
14	5	30	-	50	0.65	2.62	12	16	20
14	7	30	-	50	0.69	2.62	11	14	18
14	12	30	-	50	0.85	2.62	8	10	13
14	19	30	-	50	0.96	2.62	8	10	13
10	3	30	-	50	0.67	1.04	30	35	40
10	7	30	-	50	0.83	1.04	17	20	22
12	3/G	30	1 x 12	50	0.61	1.65	20	25	30
10	3/G	30	1 x 10	50	0.67	1.04	30	35	40
8	3/G	45	1 x 10	50	0.81	0.654	40	50	55
6	3/G	45	1 x 8	50	0.89	0.411	55	65	75
4	3/G	45	1 x 8	50	0.98	0.259	70	85	95
2	3/G	45	1 x 6	50	1.12	0.163	95	115	130

Table E-2 as per ICEA S-73-532/NEMA WC 57-2004 Sizes 8 AWG and larger:
Numbered printing on Black colour Insulation as per ICEA Method 4

Conductor Number	Base Color	Tracer Color
1	Black	
2	Red	
3	Blue	
4	Orange	
5	Yellow	
6	Brown	
7	Red	Black
8	Blue	Black
9	Orange	Black
10	Yellow	Black
11	Brown	Black
12	Black	Red
13	Blue	Red
14	Orange	Red
15	Yellow	Red
16	Brown	Red
17	Black	Blue
18	Red	Blue
19	Orange	Blue

- Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

300 Volts, Single and Multi Pair Overall Shielded Armoured Cables

Standard	BS EN 50288-7 Latest
Voltage	300 V
Conductor	Annealed Circular Copper conductor Class 2 as per EN 60228
Insulation	PVC as per EN 50290-2-21
	PE as per EN 50290-2-23
	XLPE as per EN 50290-2-29
Core Identification	White, Blue with Pair number Printing
Collective screen	Aluminium Mylar tape with Tinned Copper drain Wire
Bedding	PVC as per EN 50290-2-22
	Halogen free flame retardant compound (LSZH) to EN 50290-2-27
Armouring	Single layer of Galvanised Steel Wire
Sheath	PVC as per EN 50290-2-22
	Halogen free flame retardant compound (LSZH) to EN 50290-2-27
Color of Outer Sheath	Black
Temperature limits	-15°C
	For PVC and PE - + 70°C
	For XLPE - +90°C
Short Circuit Temperature	For PVC and PE - + 160°C
	For XLPE - +250°C

• Should not be installed at temperatures below 0°C

Area of Conductor (mm2)	No. of Pair	Minimum Thickness of Insulation (mm)	Nominal Thickness of Inner Sheath (mm)	Nominal Diameter of Gal. Steel Armour Wire (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.5	1	0.26	0.8	0.90	0.84	9.5	36.0
0.5	2	0.26	0.9	0.90	0.84	12.0	36.7
0.5	4	0.26	0.9	0.90	0.92	13.0	36.7
0.5	5	0.26	1.0	0.90	0.92	14.0	36.7
0.5	6	0.26	1.0	0.90	0.92	15.0	36.7
0.5	8	0.26	1.0	0.90	0.92	16.5	36.7
0.5	10	0.26	1.1	0.90	1.00	18.5	36.7
0.5	12	0.26	1.1	0.90	1.00	18.5	36.7
0.5	16	0.26	1.1	0.90	1.00	20.5	36.7
0.5	18	0.26	1.1	0.90	1.00	21.0	36.7
0.5	19	0.26	1.1	0.90	1.00	21.0	36.7
0.5	20	0.26	1.2	0.90	1.08	22.5	36.7
0.5	24	0.26	1.2	1.25	1.08	25.0	36.7
0.5	30	0.26	1.3	1.25	1.08	26.5	36.7
0.5	37	0.26	1.3	1.25	1.16	28.5	36.7
0.75	1	0.26	0.8	0.90	0.84	9.5	24.5
0.75	2	0.26	0.9	0.90	0.92	12.5	25.0
0.75	4	0.26	1.0	0.90	0.92	14.0	25.0
0.75	5	0.26	1.0	0.90	0.92	15.0	25.0
0.75	6	0.26	1.0	0.90	0.92	16.0	25.0
0.75	8	0.26	1.1	0.90	1.00	17.5	25.0
0.75	10	0.26	1.1	0.90	1.00	19.5	25.0

• Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

300 Volts, Single and Multi Pair Overall Shielded Armoured Cables

Area of Conductor (mm2)	No. of Pair	Minimum Thickness of Insulation (mm)	Nominal Thickness of Inner Sheath (mm)	Nominal Diameter of Gal. Steel Armour Wire (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.75	12	0.26	1.1	0.90	1.00	20.0	25.0
0.75	16	0.26	1.2	0.90	1.08	22.0	25.0
0.75	18	0.26	1.2	1.25	1.08	23.5	25.0
0.75	19	0.26	1.2	1.25	1.08	23.5	25.0
0.75	20	0.26	1.2	1.25	1.08	24.5	25.0
0.75	24	0.26	1.3	1.25	1.16	27.0	25.0
0.75	30	0.26	1.4	1.25	1.16	28.5	25.0
0.75	37	0.26	1.4	1.25	1.16	30.5	25.0
1.0	1	0.26	0.8	0.90	0.84	10.0	18.1
1.0	2	0.26	0.9	0.90	0.92	13.0	18.5
1.0	4	0.26	1.0	0.90	0.92	14.5	18.5
1.0	5	0.26	1.0	0.90	0.92	15.5	18.5
1.0	6	0.26	1.0	0.90	0.92	16.5	18.5
1.0	8	0.26	1.1	0.90	1.00	18.5	18.5
1.0	10	0.26	1.1	0.90	1.00	20.5	18.5
1.0	12	0.26	1.2	0.90	1.00	21.5	18.5
1.0	16	0.26	1.2	1.25	1.08	24.0	18.5
1.0	18	0.26	1.2	1.25	1.08	25.0	18.5
1.0	19	0.26	1.2	1.25	1.08	25.0	18.5
1.0	20	0.26	1.3	1.25	1.08	26.5	18.5
1.0	24	0.26	1.3	1.25	1.16	29.0	18.5
1.0	30	0.26	1.4	1.25	1.16	30.5	18.5
1.0	37	0.26	1.5	1.25	1.24	33.0	18.5
1.5	1	0.35	0.9	0.90	0.84	11.0	12.1
1.5	2	0.35	1.0	0.90	0.92	15.0	12.3
1.5	4	0.35	1.1	0.90	1.00	17.0	12.3
1.5	5	0.35	1.1	0.90	1.00	18.5	12.3
1.5	6	0.35	1.1	0.90	1.00	19.5	12.3
1.5	6	0.35	1.2	0.90	1.08	22.0	12.3
1.5	10	0.35	1.3	1.25	1.08	25.0	12.3
1.5	12	0.35	1.3	1.25	1.16	26.0	12.3
1.5	16	0.35	1.4	1.25	1.16	28.5	12.3
1.5	18	0.35	1.4	1.25	1.16	30.0	12.3
1.5	19	0.35	1.4	1.25	1.16	30.0	12.3
1.5	20	0.35	1.5	1.25	1.24	31.5	12.3
1.5	24	0.35	1.5	1.25	1.24	34.5	12.3
1.5	30	0.35	1.6	1.60	1.32	37.5	12.3
1.5	37	0.35	1.7	1.60	1.40	40.0	12.3

- Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

300 Volts, Single and Multi Pair Overall Shielded Unarmoured Cables

Standard	BS EN 50288-7 Latest
Voltage	300 V
Conductor	Annealed Circular Copper conductor Class 2 as per EN 60228
Insulation	PVC as per EN 50290-2-21
	PE as per EN 50290-2-23
	XLPE as per EN 50290-2-29
Core identification	White, Blue with Pair number Printing
Collective Screen	Aluminium Mylar tape with Tinned Copper drain Wire
Sheath	PVC as per EN 50290-2-22
	Halogen free flame retardant compound (LSZH) to EN 50290-2-27
Color of Outer Sheath	Black
Temperature Limits	-15°C
	For PVC and PE - + 70°C
	For XLPE - +90°C
Short Circuit Temperature	For PVC and PE - + 160°C
	For XLPE - +250°C

• Should not be installed at temperatures below 0°C

Area of Conductor (mm2)	No of Pair	Minimum Thickness of Insulation (mm)	Nominal Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.5	1	0.26	0.80	5.5	36.0
0.5	2	0.26	0.90	8.0	36.7
0.5	4	0.26	0.90	9.5	36.7
0.5	5	0.26	1.00	10.0	36.7
0.5	6	0.26	1.00	11.0	36.7
0.5	8	0.26	1.00	12.5	36.7
0.5	10	0.26	1.10	14.0	36.7
0.5	12	0.26	1.10	14.5	36.7
0.5	16	0.26	1.10	16.0	36.7
0.5	18	0.26	1.10	17.0	36.7
0.5	19	0.26	1.10	17.0	36.7
0.5	20	0.26	1.20	18.0	36.7
0.5	24	0.26	1.20	20.0	36.7
0.5	30	0.26	1.30	21.5	36.7
0.5	37	0.26	1.30	23.0	36.7
0.75	1	0.26	0.80	6.0	24.5
0.75	2	0.26	0.90	8.5	25.0
0.75	4	0.26	1.00	10.0	25.0
0.75	5	0.26	1.00	11.0	25.0
0.75	6	0.26	1.00	12.0	25.0
0.75	8	0.26	1.10	13.5	25.0
0.75	10	0.26	1.10	15.5	25.0
0.75	12	0.26	1.10	16.0	25.0
0.75	16	0.26	1.20	17.5	25.0
0.75	18	0.26	1.20	18.5	25.0

• Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

300 Volts, Single and Multi Pair Overall Shielded Unarmoured Cables

Area of Conductor (mm2)	No of Pair	Minimum Thickness of Insulation (mm)	Nominal Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.75	20	0.26	1.20	19.5	25.0
0.75	24	0.26	1.30	22.0	25.0
0.75	30	0.26	1.40	23.5	25.0
0.75	37	0.26	1.40	25.5	25.0
1.0	1	0.26	0.80	6.5	18.1
1.0	2	0.26	0.90	9.0	18.5
1.0	4	0.26	1.00	11.0	18.5
1.0	5	0.26	1.00	12.0	18.5
1.0	6	0.26	1.00	13.0	18.5
1.0	8	0.26	1.10	14.5	18.5
1.0	10	0.26	1.10	16.5	18.5
1.0	12	0.26	1.20	17.0	18.5
1.0	16	0.26	1.20	19.0	18.5
1.0	18	0.26	1.20	20.0	18.5
1.0	19	0.26	1.20	20.0	18.5
1.0	20	0.26	1.30	21.5	18.5
1.0	24	0.26	1.30	23.5	18.5
1.0	30	0.26	1.40	25.5	18.5
1.0	37	0.26	1.50	27.5	18.5
1.5	1	0.35	0.90	7.5	12.1
1.5	2	0.35	1.00	11.0	12.3
1.5	4	0.35	1.10	13.0	12.3
1.5	5	0.35	1.10	14.0	12.3
1.5	6	0.35	1.10	15.5	12.3
1.5	8	0.35	1.20	17.5	12.3
1.5	10	0.35	1.30	20.0	12.3
1.5	12	0.35	1.30	21.0	12.3
1.5	16	0.35	1.40	23.5	12.3
1.5	18	0.35	1.40	24.5	12.3
1.5	19	0.35	1.40	24.5	12.3
1.5	20	0.35	1.50	26.0	12.3
1.5	24	0.35	1.50	29.0	12.3
1.5	30	0.35	1.60	31.0	12.3
1.5	37	0.35	1.70	33.5	12.3

- Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

300 Volts, Single and Multi Triad Overall Shielded Armoured Cables

Standard	BS EN 50288-7 Latest
Voltage	300 V
Conductor	Annealed Circular Copper conductor Class 2 as per EN 60228
Insulation	PVC as per EN 50290-2-21
	PE as per EN 50290-2-23
	XLPE as per EN 50290-2-29
Core Identification	White, Blue, Brown with Triad number Printing
Collective screen	Aluminium Mylar tape with Tinned Copper drain Wire
Bedding	PVC as per EN 50290-2-22
	Halogen free flame retardant compound (LSZH) to EN 50290-2-27
Armouring	Single layer of Galvanised Steel Wire
Sheath	PVC as per EN 50290-2-22
	Halogen free flame retardant compound (LSZH) to EN 50290-2-27
Color of Outer Sheath	Black
Temperature limits	-15°C
	For PVC and PE - + 70°C
	For XLPE - +90°C
Short Circuit Temperature	For PVC and PE - + 160°C
	For XLPE - +250°C

• Should not be installed at temperatures below 0°C

Area of Conductor (mm2)	No. of Triad	Minimum Thickness of Insulation (mm)	Nominal Thickness of Inner Sheath (mm)	Nominal Diameter of Gal. Steel Armour Wire (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.5	1	0.26	0.8	0.90	0.84	9.5	36.0
0.5	2	0.26	0.9	0.90	0.84	12.5	36.7
0.5	4	0.26	1.0	0.90	0.92	14.5	36.7
0.5	5	0.26	1.0	0.90	0.92	15.0	36.7
0.5	6	0.26	1.0	0.90	0.92	16.0	36.7
0.5	8	0.26	1.1	0.90	1.00	18.0	36.7
0.5	10	0.26	1.1	0.90	1.00	20.0	36.7
0.5	12	0.26	1.1	0.90	1.00	20.5	36.7
0.5	16	0.26	1.2	0.90	1.08	22.5	36.7
0.5	18	0.26	1.2	0.90	1.08	23.5	36.7
0.5	19	0.26	1.2	0.90	1.08	23.5	36.7
0.5	20	0.26	1.2	1.25	1.08	25.5	36.7
0.5	24	0.26	1.3	1.25	1.16	28.0	36.7
0.5	30	0.26	1.3	1.25	1.16	29.0	36.7
0.5	37	0.26	1.4	1.25	1.16	31.5	36.7
0.75	1	0.26	0.8	0.90	0.84	10.0	24.5
0.75	2	0.26	0.9	0.90	0.92	13.5	25.0
0.75	4	0.26	1.0	0.90	0.92	15.0	25.0
0.75	5	0.26	1.0	0.90	0.92	16.0	25.0
0.75	6	0.26	1.1	0.90	1.00	17.5	25.0
0.75	8	0.26	1.1	0.90	1.00	19.0	25.0
0.75	10	0.26	1.2	0.90	1.00	21.5	25.0

• Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

300 Volts, Single and Multi Triad Overall Shielded Armoured Cables

Area of Conductor (mm2)	No. of Triad	Minimum Thickness of Insulation (mm)	Nominal Thickness of Inner Sheath (mm)	Nominal Diameter of Gal. Steel Armour Wire (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.75	12	0.26	1.2	0.90	1.08	22.0	25.0
0.75	16	0.26	1.2	1.25	1.08	24.5	25.0
0.75	18	0.26	1.3	1.25	1.08	26.0	25.0
0.75	19	0.26	1.3	1.25	1.08	26.0	25.0
0.75	20	0.26	1.3	1.25	1.16	27.5	25.0
0.75	24	0.26	1.4	1.25	1.16	30.0	25.0
0.75	30	0.26	1.4	1.25	1.24	31.5	25.0
0.75	37	0.26	1.5	1.25	1.24	34.0	25.0
1.0	1	0.26	0.9	0.90	0.84	10.5	18.1
1.0	2	0.26	1.0	0.90	0.92	14.5	18.5
1.0	4	0.26	1.0	0.90	0.92	16.0	18.5
1.0	5	0.26	1.0	0.90	1.00	17.0	18.5
1.0	6	0.26	1.1	0.90	1.00	18.5	18.5
1.0	8	0.26	1.1	0.90	1.00	20.5	18.5
1.0	10	0.26	1.2	0.90	1.08	23.0	18.5
1.0	12	0.26	1.2	1.25	1.08	24.0	18.5
1.0	16	0.26	1.3	1.25	1.16	26.5	18.5
1.0	18	0.26	1.3	1.25	1.16	28.0	18.5
1.0	19	0.26	1.3	1.25	1.16	28.0	18.5
1.0	20	0.26	1.4	1.25	1.16	29.5	18.5
1.0	24	0.26	1.4	1.25	1.24	32.0	18.5
1.0	30	0.26	1.5	1.25	1.24	34.0	18.5
1.0	37	0.26	1.6	1.25	1.32	36.5	18.5
1.5	1	0.35	0.9	0.90	0.84	11.5	12.1
1.5	2	0.35	1.0	0.90	0.92	16.0	12.3
1.5	4	0.35	1.1	0.90	1.00	18.5	12.3
1.5	5	0.35	1.1	0.90	1.00	20.0	12.3
1.5	6	0.35	1.2	0.90	1.08	22.0	12.3
1.5	8	0.35	1.3	1.25	1.08	25.0	12.3
1.5	10	0.35	1.3	1.25	1.16	27.5	12.3
1.5	12	0.35	1.4	1.25	1.16	28.5	12.3
1.5	16	0.35	1.5	1.25	1.24	31.5	12.3
1.5	18	0.35	1.5	1.25	1.24	33.0	12.3
1.5	19	0.35	1.5	1.25	1.24	33.0	12.3
1.5	20	0.35	1.5	1.25	1.24	34.5	12.3
1.5	24	0.35	1.7	1.60	1.40	39.5	12.3
1.5	30	0.35	1.7	1.60	1.40	41.5	12.3
1.5	37	0.35	1.8	1.60	1.48	44.5	12.3

- Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

300 Volts, Single and Multi Triad Overall Shielded Unarmoured Cables

Standard	BS EN 50288-7 Latest
Voltage	300 V
Conductor	Annealed Circular Copper conductor Class 2 as per EN 60228
Insulation	PVC as per EN 50290-2-21
	PE as per EN 50290-2-23
	XLPE as per EN 50290-2-29
Core identification	White, Blue, Brown with Triad number Printing
Collective Screen	Aluminium Mylar tape with Tinned Copper drain Wire
Sheath	PVC as per EN 50290-2-22
	Halogen free flame retardant compound (LSZH) to EN 50290-2-27
Color of Outer Sheath	Black
Temperature Limits	-15°C
	For PVC and PE - + 70°C
	For XLPE - +90°C
Short Circuit Temperature	For PVC and PE - + 160°C
	For XLPE - +250°C

• Should not be installed at temperatures below 0°C

Area of Conductor (mm2)	No of Triad	Minimum Thickness of Insulation (mm)	Nominal Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.5	1	0.26	0.80	6.0	36.0
0.5	2	0.26	0.90	9.0	36.7
0.5	4	0.26	1.00	10.5	36.7
0.5	5	0.26	1.00	11.5	36.7
0.5	6	0.26	1.00	12.5	36.7
0.5	8	0.26	1.10	14.0	36.7
0.5	10	0.26	1.10	16.0	36.7
0.5	12	0.26	1.10	16.5	36.7
0.5	16	0.26	1.20	18.5	36.7
0.5	18	0.26	1.20	19.0	36.7
0.5	19	0.26	1.20	19.0	36.7
0.5	20	0.26	1.20	20.5	36.7
0.5	24	0.26	1.30	22.5	36.7
0.5	30	0.26	1.30	24.0	36.7
0.5	37	0.26	1.40	26.0	36.7
0.75	1	0.26	0.80	6.5	24.5
0.75	2	0.26	0.90	9.5	25.0
0.75	4	0.26	1.00	11.0	25.0
0.75	5	0.26	1.00	12.0	25.0
0.75	6	0.26	1.10	13.5	25.0
0.75	8	0.26	1.10	15.0	25.0
0.75	10	0.26	1.20	17.5	25.0
0.75	12	0.26	1.20	18.0	25.0
0.75	16	0.26	1.20	19.5	25.0
0.75	18	0.26	1.30	21.0	25.0

• Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

300 Volts, Single and Multi Triad Overall Shielded Unarmoured Cables

Area of Conductor (mm2)	No of Triad	Minimum Thickness of Insulation (mm)	Nominal Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.75	19	0.26	1.30	21.0	25.0
0.75	20	0.26	1.30	22.0	25.0
0.75	24	0.26	1.40	25.0	25.0
0.75	30	0.26	1.40	26.5	25.0
0.75	37	0.26	1.50	28.5	25.0
1.0	1	0.26	0.90	7.0	18.1
1.0	2	0.26	1.00	10.5	18.5
1.0	4	0.26	1.00	12.0	18.5
1.0	5	0.26	1.00	13.0	18.5
1.0	6	0.26	1.10	14.5	18.5
1.0	8	0.26	1.10	16.0	18.5
1.0	10	0.26	1.20	18.5	18.5
1.0	12	0.26	1.20	19.0	18.5
1.0	16	0.26	1.30	21.5	18.5
1.0	18	0.26	1.30	22.5	18.5
1.0	19	0.26	1.30	22.5	18.5
1.0	20	0.26	1.40	24.0	18.5
1.0	24	0.26	1.40	27.0	18.5
1.0	30	0.26	1.50	28.5	18.5
1.0	37	0.26	1.60	31.0	18.5
1.5	1	0.35	0.90	8.0	12.1
1.5	2	0.35	1.00	12.0	12.3
1.5	4	0.35	1.10	14.5	12.3
1.5	5	0.35	1.10	16.0	12.3
1.5	6	0.35	1.20	17.5	12.3
1.5	8	0.35	1.30	20.0	12.3
1.5	10	0.35	1.30	22.5	12.3
1.5	12	0.35	1.40	23.5	12.3
1.5	16	0.35	1.50	26.5	12.3
1.5	18	0.35	1.50	28.0	12.3
1.5	19	0.35	1.50	28.0	12.3
1.5	20	0.35	1.50	29.5	12.3
1.5	24	0.35	1.70	33.0	12.3
1.5	30	0.35	1.70	35.0	12.3
1.5	37	0.35	1.80	38.0	12.3

- Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

300 Volts, Multi Pair Individual & Overall Shielded Armoured Cables

Standard	BS EN 50288-7 Latest
Voltage	300 V
Conductor	Annealed Circular Copper conductor Class 2 as per EN 60228
Insulation	PVC as per EN 50290-2-21
	PE as per EN 50290-2-23
	XLPE as per EN 50290-2-29
Core Identification	White, Blue with Pair number Printing
Individual screen	Aluminium Mylar tape with Tinned Copper drain Wire
Collective screen	Aluminium Mylar tape with Tinned Copper drain Wire
Bedding	PVC as per EN 50290-2-22
	Halogen free flame retardant compound (LSZH) to EN 50290-2-27
Armouring	Single layer of Galvanised Steel Wire
Sheath	PVC as per EN 50290-2-22
	Halogen free flame retardant compound (LSZH) to EN 50290-2-27
Color of Outer Sheath	Black
Temperature limits	-15°C
	For PVC and PE - + 70°C
	For XLPE - +90°C
Short Circuit Temperature	For PVC and PE - + 160°C
	For XLPE - +250°C

• Should not be installed at temperatures below 0°C

Area of Conductor (mm2)	No. of Pair	Minimum Thickness of Insulation (mm)	Nominal Thickness of Inner Sheath (mm)	Nominal Diameter of Gal. Steel Armour Wire (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.5	2	0.26	0.9	0.90	0.92	13.0	36.7
0.5	4	0.26	1.0	0.90	0.92	14.5	36.7
0.5	5	0.26	1.0	0.90	0.92	15.5	36.7
0.5	6	0.26	1.0	0.90	0.92	16.5	36.7
0.5	8	0.26	1.1	0.90	1.00	18.5	36.7
0.5	10	0.26	1.1	0.90	1.00	20.5	36.7
0.5	12	0.26	1.2	0.90	1.00	21.0	36.7
0.5	16	0.26	1.2	1.25	1.08	24.0	36.7
0.5	18	0.26	1.3	1.25	1.08	25.0	36.7
0.5	19	0.26	1.3	1.25	1.08	25.0	36.7
0.5	20	0.26	1.3	1.25	1.16	26.5	36.7
0.5	24	0.26	1.4	1.25	1.16	29.0	36.7
0.5	30	0.26	1.4	1.25	1.16	30.0	36.7
0.5	37	0.26	1.5	1.25	1.24	32.5	36.7
0.75	2	0.26	1.0	0.90	0.92	14.0	25.0
0.75	4	0.26	1.0	0.90	0.92	15.5	25.0
0.75	5	0.26	1.0	0.90	1.00	16.5	25.0
0.75	6	0.26	1.1	0.90	1.00	18.0	25.0
0.75	8	0.26	1.1	0.90	1.00	19.5	25.0
0.75	10	0.26	1.2	0.90	1.08	22.0	25.0
0.75	12	0.26	1.2	1.25	1.08	23.0	25.0
0.75	16	0.26	1.3	1.25	1.16	25.5	25.0

• Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

300 Volts, Multi Pair Individual & Overall Shielded Armoured Cables

Area of Conductor (mm2)	No. of Pair	Minimum Thickness of Insulation (mm)	Nominal Thickness of Inner Sheath (mm)	Nominal Diameter of Gal. Steel Armour Wire (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.75	18	0.26	1.3	1.25	1.16	26.5	25.0
0.75	19	0.26	1.3	1.25	1.16	26.5	25.0
0.75	20	0.26	1.4	1.25	1.16	28.0	25.0
0.75	24	0.26	1.4	1.25	1.24	31.0	25.0
0.75	30	0.26	1.5	1.25	1.24	32.5	25.0
0.75	37	0.26	1.6	1.25	1.32	35.0	25.0
1.0	2	0.26	1.0	0.90	0.92	14.5	18.5
1.0	4	0.26	1.0	0.90	0.92	16.0	18.5
1.0	5	0.26	1.1	0.90	1.00	17.5	18.5
1.0	6	0.26	1.1	0.90	1.00	19.0	18.5
1.0	8	0.26	1.2	0.90	1.00	21.0	18.5
1.0	10	0.26	1.2	1.25	1.08	24.0	18.5
1.0	12	0.26	1.3	1.25	1.08	25.0	18.5
1.0	16	0.26	1.3	1.25	1.16	27.0	18.5
1.0	18	0.26	1.4	1.25	1.16	28.5	18.5
1.0	19	0.26	1.4	1.25	1.16	28.5	18.5
1.0	20	0.26	1.4	1.25	1.16	30.0	18.5
1.0	24	0.26	1.5	1.25	1.24	33.0	18.5
1.0	30	0.26	1.5	1.25	1.24	34.5	18.5
1.0	37	0.26	1.6	1.60	1.32	38.0	18.5
1.5	2	0.35	1.0	0.90	1.00	16.5	12.3
1.5	4	0.35	1.1	0.90	1.00	18.5	12.3
1.5	5	0.35	1.2	0.90	1.00	20.0	12.3
1.5	6	0.35	1.2	1.25	1.08	22.5	12.3
1.5	8	0.35	1.3	1.25	1.16	25.0	12.3
1.5	10	0.35	1.4	1.25	1.16	28.0	12.3
1.5	12	0.35	1.4	1.25	1.16	29.0	12.3
1.5	16	0.35	1.5	1.25	1.24	32.0	12.3
1.5	18	0.35	1.5	1.25	1.24	33.5	12.3
1.5	19	0.35	1.5	1.25	1.24	33.5	12.3
1.5	20	0.35	1.6	1.60	1.32	36.0	12.3
1.5	24	0.35	1.7	1.60	1.40	39.5	12.3
1.5	30	0.35	1.8	1.60	1.40	42.0	12.3
1.5	37	0.35	1.9	1.60	1.48	45.0	12.3

- Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

300 Volts, Multi Pair Individual & Overall Shielded Unarmoured Cables

Standard	BS EN 50288-7 Latest
Voltage	300 V
Conductor	Annealed Circular Copper conductor Class 2 as per EN 60228
Insulation	PVC as per EN 50290-2-21
	PE as per EN 50290-2-23
	XLPE as per EN 50290-2-29
Core identification	White, Blue with Pair number Printing
Individual Screen	Aluminium Mylar tape with Tinned Copper drain Wire
Collective Screen	Aluminium Mylar tape with Tinned Copper drain Wire
Sheath	PVC as per EN 50290-2-22
	Halogen free flame retardant compound (LSZH) to EN 50290-2-27
Color of Outer Sheath	Black
Temperature Limits	-15°C
	For PVC and PE - + 70°C
	For XLPE - +90°C
Short Circuit Temperature	For PVC and PE - + 160°C
	For XLPE - +250°C

• Should not be installed at temperatures below 0°C

Area of Conductor (mm2)	No of Pair	Minimum Thickness of Insulation (mm)	Nominal Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.5	2	0.26	0.90	9.0	36.7
0.5	4	0.26	1.00	10.5	36.7
0.5	5	0.26	1.00	11.5	36.7
0.5	6	0.26	1.00	12.5	36.7
0.5	8	0.26	1.10	14.5	36.7
0.5	10	0.26	1.10	16.0	36.7
0.5	12	0.26	1.20	17.0	36.7
0.5	16	0.26	1.20	19.0	36.7
0.5	18	0.26	1.30	20.0	36.7
0.5	19	0.26	1.30	20.0	36.7
0.5	20	0.26	1.30	21.0	36.7
0.5	24	0.26	1.40	23.5	36.7
0.5	30	0.26	1.40	25.0	36.7
0.5	37	0.26	1.50	27.0	36.7
0.75	2	0.26	1.00	10.0	25.0
0.75	4	0.26	1.00	11.5	25.0
0.75	5	0.26	1.00	12.5	25.0
0.75	6	0.26	1.10	14.0	25.0
0.75	8	0.26	1.10	15.5	25.0
0.75	10	0.26	1.20	17.5	25.0
0.75	12	0.26	1.20	18.0	25.0
0.75	16	0.26	1.30	20.5	25.0
0.75	18	0.26	1.30	21.5	25.0
0.75	19	0.26	1.30	21.5	25.0
0.75	20	0.26	1.40	23.0	25.0

• Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

300 Volts, Multi Pair Individual & Overall Shielded Unarmoured Cables

Area of Conductor (mm2)	No of Pair	Minimum Thickness of Insulation (mm)	Nominal Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.75	24	0.26	1.40	25.5	25.0
0.75	30	0.26	1.50	27.0	25.0
0.75	37	0.26	1.60	29.5	25.0
1.0	2	0.26	1.00	10.5	18.5
1.0	4	0.26	1.00	12.0	18.5
1.0	5	0.26	1.10	13.5	18.5
1.0	6	0.26	1.10	14.5	18.5
1.0	8	0.26	1.20	16.5	18.5
1.0	10	0.26	1.20	19.0	18.5
1.0	12	0.26	1.30	20.0	18.5
1.0	16	0.26	1.30	22.0	18.5
1.0	18	0.26	1.40	23.5	18.5
1.0	19	0.26	1.40	23.5	18.5
1.0	20	0.26	1.40	24.5	18.5
1.0	24	0.26	1.50	27.5	18.5
1.0	30	0.26	1.50	29.0	18.5
1.0	37	0.26	1.60	31.5	18.5
1.5	2	0.35	1.00	12.5	12.3
1.5	4	0.35	1.10	14.5	12.3
1.5	5	0.35	1.20	16.0	12.3
1.5	6	0.35	1.20	17.5	12.3
1.5	8	0.35	1.30	20.0	12.3
1.5	10	0.35	1.40	23.0	12.3
1.5	12	0.35	1.40	23.5	12.3
1.5	16	0.35	1.50	26.5	12.3
1.5	18	0.35	1.50	28.0	12.3
1.5	19	0.35	1.50	28.0	12.3
1.5	20	0.35	1.60	30.0	12.3
1.5	24	0.35	1.70	33.5	12.3
1.5	30	0.35	1.80	35.5	12.3
1.5	37	0.35	1.90	38.5	12.3

- Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

300 Volts, Multi Triad Individual & Overall Shielded Armoured Cables

Standard	BS EN 50288-7 Latest
Voltage	300 V
Conductor	Annealed Circular Copper conductor Class 2 as per EN 60228
Insulation	PVC as per EN 50290-2-21
	PE as per EN 50290-2-23
	XLPE as per EN 50290-2-29
Core Identification	White, Blue, Brown with Triad number Printing
Individual Screen	Aluminium Mylar tape with Tinned Copper drain Wire
Collective screen	Aluminium Mylar tape with Tinned Copper drain Wire
Bedding	PVC as per EN 50290-2-22
	Halogen free flame retardant compound (LSZH) to EN 50290-2-27
Armouring	Single layer of Galvanised Steel Wire
Sheath	PVC as per EN 50290-2-22
	Halogen free flame retardant compound (LSZH) to EN 50290-2-27
Color of Outer Sheath	Black
Temperature limits	-15°C
	For PVC and PE - + 70°C
	For XLPE - +90°C
Short Circuit Temperature	For PVC and PE - + 160°C
	For XLPE - +250°C

• Should not be installed at temperatures below 0°C

Area of Conductor (mm2)	No of Triad	Minimum Thickness of Insulation (mm)	Nominal Thickness of Inner Sheath (mm)	Nominal Diameter of Gal. Steel Armour Wire (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.5	2	0.26	1.0	0.90	0.92	14.0	36.7
0.5	4	0.26	1.0	0.90	0.92	15.5	36.7
0.5	5	0.26	1.0	0.90	0.92	17.0	36.7
0.5	6	0.26	1.1	0.90	1.00	18.5	36.7
0.5	8	0.26	1.1	0.90	1.00	20.0	36.7
0.5	10	0.26	1.2	0.90	1.08	22.5	36.7
0.5	12	0.26	1.2	1.25	1.08	24.0	36.7
0.5	16	0.26	1.3	1.25	1.16	26.5	36.7
0.5	18	0.26	1.3	1.25	1.16	27.5	36.7
0.5	19	0.26	1.3	1.25	1.16	27.5	36.7
0.5	20	0.26	1.4	1.25	1.16	29.0	36.7
0.5	24	0.26	1.4	1.25	1.24	31.5	36.7
0.5	30	0.26	1.5	1.25	1.24	33.5	36.7
0.5	37	0.26	1.6	1.25	1.32	36.0	36.7
0.75	2	0.26	1.0	0.90	0.92	15.0	25.0
0.75	4	0.26	1.0	0.90	1.00	16.5	25.0
0.75	5	0.26	1.1	0.90	1.00	18.0	25.0
0.75	6	0.26	1.1	0.90	1.00	19.5	25.0
0.75	8	0.26	1.2	0.90	1.08	21.5	25.0
0.75	10	0.26	1.3	1.25	1.08	25.0	25.0
0.75	12	0.26	1.3	1.25	1.16	25.5	25.0
0.75	16	0.26	1.4	1.25	1.16	28.0	25.0

• Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

300 Volts, Multi Triad Individual & Overall Shielded Armoured Cables

Area of Conductor (mm2)	No of Triad	Minimum Thickness of Insulation (mm)	Nominal Thickness of Inner Sheath (mm)	Nominal Diameter of Gal. Steel Armour Wire (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.75	18	0.26	1.4	1.25	1.16	29.5	25.0
0.75	19	0.26	1.4	1.25	1.16	29.5	25.0
0.75	20	0.26	1.4	1.25	1.24	31.0	25.0
0.75	24	0.26	1.5	1.25	1.24	34.0	25.0
0.75	30	0.26	1.6	1.60	1.32	37.0	25.0
0.75	37	0.26	1.7	1.60	1.40	39.5	25.0
1.0	2	0.26	1.0	0.90	0.92	15.5	18.5
1.0	4	0.26	1.1	0.90	1.00	18.0	18.5
1.0	5	0.26	1.1	0.90	1.00	19.0	18.5
1.0	6	0.26	1.2	0.90	1.00	20.5	18.5
1.0	8	0.26	1.2	1.25	1.08	23.5	18.5
1.0	10	0.26	1.3	1.25	1.16	26.5	18.5
1.0	12	0.26	1.3	1.25	1.16	27.0	18.5
1.0	16	0.26	1.4	1.25	1.16	30.0	18.5
1.0	18	0.26	1.5	1.25	1.24	31.5	18.5
1.0	19	0.26	1.5	1.25	1.24	31.5	18.5
1.0	20	0.26	1.5	1.25	1.24	33.0	18.5
1.0	24	0.26	1.6	1.60	1.32	37.0	18.5
1.0	30	0.26	1.7	1.60	1.40	39.5	18.5
1.0	37	0.26	1.7	1.60	1.40	42.0	18.5
1.5	2	0.35	1.1	0.90	1.00	18.0	12.3
1.5	4	0.35	1.2	0.90	1.00	20.5	12.3
1.5	5	0.35	1.2	1.25	1.08	23.0	12.3
1.5	6	0.35	1.3	1.25	1.08	25.0	12.3
1.5	8	0.35	1.4	1.25	1.16	27.5	12.3
1.5	10	0.35	1.5	1.25	1.24	31.0	12.3
1.5	12	0.35	1.5	1.25	1.24	32.0	12.3
1.5	16	0.35	1.6	1.60	1.32	36.0	12.3
1.5	18	0.35	1.6	1.60	1.32	37.5	12.3
1.5	19	0.35	1.6	1.60	1.32	37.5	12.3
1.5	20	0.35	1.7	1.60	1.40	40.0	12.3
1.5	24	0.35	1.8	1.60	1.48	44.0	12.3
1.5	30	0.35	1.9	1.60	1.48	46.5	12.3
1.5	37	0.35	2.0	2.00	1.56	51.0	12.3

- Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

300 Volts, Multi Triad Individual & Overall Shielded Unarmoured Cables

Standard	BS EN 50288-7 Latest
Voltage	300 V
Conductor	Annealed Circular Copper conductor Class 2 as per EN 60228
Insulation	PVC as per EN 50290-2-21
	PE as per EN 50290-2-23
	XLPE as per EN 50290-2-29
Core identification	White, Blue, Brown with Triad number Printing
Individual Screen	Aluminium Mylar tape with Tinned Copper drain Wire
Collective Screen	Aluminium Mylar tape with Tinned Copper drain Wire
Sheath	PVC as per EN 50290-2-22
	Halogen free flame retardant compound (LSZH) to EN 50290-2-27
Color of Outer Sheath	Black
Temperature Limits	-15°C
	For PVC and PE - + 70°C
	For XLPE - +90°C
Short Circuit Temperature	For PVC and PE - + 160°C
	For XLPE - +250°C

• Should not be installed at temperatures below 0°C

Area of Conductor (mm2)	No of Triad	Minimum Thickness of Insulation (mm)	Nominal Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.5	2	0.26	1.00	10.0	36.7
0.5	4	0.26	1.00	12.0	36.7
0.5	5	0.26	1.00	13.0	36.7
0.5	6	0.26	1.10	14.0	36.7
0.5	8	0.26	1.10	16.0	36.7
0.5	10	0.26	1.20	18.5	36.7
0.5	12	0.26	1.20	19.0	36.7
0.5	16	0.26	1.30	21.0	36.7
0.5	18	0.26	1.30	22.5	36.7
0.5	19	0.26	1.30	22.5	36.7
0.5	20	0.26	1.40	23.5	36.7
0.5	24	0.26	1.40	26.5	36.7
0.5	30	0.26	1.50	28.0	36.7
0.5	37	0.26	1.60	30.5	36.7
0.75	2	0.26	1.00	11.0	25.0
0.75	4	0.26	1.00	12.5	25.0
0.75	5	0.26	1.10	14.0	25.0
0.75	6	0.26	1.10	15.5	25.0
0.75	8	0.26	1.20	17.5	25.0
0.75	10	0.26	1.30	20.0	25.0
0.75	12	0.26	1.30	20.5	25.0
0.75	16	0.26	1.40	23.0	25.0
0.75	18	0.26	1.40	24.0	25.0
0.75	19	0.26	1.40	24.0	25.0
0.75	20	0.26	1.40	25.5	25.0

• Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

300 Volts, Multi Triad Individual & Overall Shielded Unarmoured Cables

Area of Conductor (mm2)	No of Triad	Minimum Thickness of Insulation (mm)	Nominal Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.75	24	0.26	1.50	28.5	25.0
0.75	30	0.26	1.60	30.5	25.0
0.75	37	0.26	1.70	33.0	25.0
1.0	2	0.26	1.00	11.5	18.5
1.0	4	0.26	1.10	13.5	18.5
1.0	5	0.26	1.10	15.0	18.5
1.0	6	0.26	1.20	16.5	18.5
1.0	8	0.26	1.20	18.5	18.5
1.0	10	0.26	1.30	21.5	18.5
1.0	12	0.26	1.30	22.0	18.5
1.0	16	0.26	1.40	24.5	18.5
1.0	18	0.26	1.50	26.0	18.5
1.0	19	0.26	1.50	26.0	18.5
1.0	20	0.26	1.50	27.5	18.5
1.0	24	0.26	1.60	31.0	18.5
1.0	30	0.26	1.70	33.0	18.5
1.0	37	0.26	1.70	35.5	18.5
1.5	2	0.35	1.10	14.0	12.3
1.5	4	0.35	1.20	16.5	12.3
1.5	5	0.35	1.20	18.0	12.3
1.5	6	0.35	1.30	20.0	12.3
1.5	8	0.35	1.40	22.5	12.3
1.5	10	0.35	1.50	26.0	12.3
1.5	12	0.35	1.50	26.5	12.3
1.5	16	0.35	1.60	30.0	12.3
1.5	18	0.35	1.60	31.5	12.3
1.5	19	0.35	1.60	31.5	12.3
1.5	20	0.35	1.70	33.5	12.3
1.5	24	0.35	1.80	37.5	12.3
1.5	30	0.35	1.90	40.0	12.3
1.5	37	0.35	2.00	43.5	12.3

- Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

500 Volts, Single and Multi Pair Overall Shielded Armoured Cables

Standard	BS EN 50288-7 Latest
Voltage	500 V
Conductor	Annealed Circular Copper conductor Class 2 as per EN 60228
Insulation	PVC as per EN 50290-2-21
	PE as per EN 50290-2-23
	XLPE as per EN 50290-2-29
Core Identification	White, Blue with Pair number Printing
Individual Screen	Aluminium Mylar tape with Tinned Copper drain Wire
Collective screen	Aluminium Mylar tape with Tinned Copper drain Wire
Bedding	PVC as per EN 50290-2-22
	Halogen free flame retardant compound (LSZH) to EN 50290-2-27
Armouring	Single layer of Galvanised Steel Wire
Sheath	PVC as per EN 50290-2-22
	Halogen free flame retardant compound (LSZH) to EN 50290-2-27
Color of Outer Sheath	Black
Temperature limits	-15°C
	For PVC and PE - + 70°C
	For XLPE - +90°C
Short Circuit Temperature	For PVC and PE - + 160°C
	For XLPE - +250°C

• Should not be installed at temperatures below 0°C

Area of Conductor (mm2)	No. of Pair	Minimum Thickness of Insulation (mm)	Nominal Thickness of Inner Sheath (mm)	Nominal Diameter of Gal. Steel Armour Wire (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.5	1	0.44	0.9	0.90	0.84	10.5	36.0
0.5	2	0.44	0.9	0.90	0.92	13.5	36.7
0.5	4	0.44	1.0	0.90	0.92	15.0	36.7
0.5	5	0.44	1.0	0.90	0.92	16.0	36.7
0.5	6	0.44	1.1	0.90	1.00	17.5	36.7
0.5	8	0.44	1.1	0.90	1.00	19.0	36.7
0.5	10	0.44	1.2	0.90	1.00	21.0	36.7
0.5	12	0.44	1.2	0.90	1.08	22.0	36.7
0.5	16	0.44	1.2	1.25	1.08	24.5	36.7
0.5	18	0.44	1.3	1.25	1.08	25.5	36.7
0.5	19	0.44	1.3	1.25	1.08	25.5	36.7
0.5	20	0.44	1.3	1.25	1.16	27.0	36.7
0.5	24	0.44	1.4	1.25	1.16	29.5	36.7
0.5	30	0.44	1.4	1.25	1.24	31.0	36.7
0.5	37	0.44	1.5	1.25	1.24	33.5	36.7
0.75	1	0.44	0.9	0.90	0.84	10.5	24.5
0.75	2	0.44	1.0	0.90	0.92	14.0	25.0
0.75	4	0.44	1.0	0.90	0.92	15.5	25.0
0.75	5	0.44	1.1	0.90	1.00	17.0	25.0
0.75	6	0.44	1.1	0.90	1.00	18.0	25.0
0.75	8	0.44	1.2	0.90	1.00	20.0	25.0
0.75	10	0.44	1.2	1.25	1.08	23.0	25.0

• Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

500 Volts, Single and Multi Pair Overall Shielded Armoured Cables

Area of Conductor (mm2)	No. of Pair	Minimum Thickness of Insulation (mm)	Nominal Thickness of Inner Sheath (mm)	Nominal Diameter of Gal. Steel Armour Wire (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.75	12	0.44	1.2	1.25	1.08	23.5	25.0
0.75	16	0.44	1.3	1.25	1.16	26.0	25.0
0.75	18	0.44	1.3	1.25	1.16	27.5	25.0
0.75	19	0.44	1.3	1.25	1.16	27.5	25.0
0.75	20	0.44	1.4	1.25	1.16	28.5	25.0
0.75	24	0.44	1.5	1.25	1.24	31.5	25.0
0.75	30	0.44	1.5	1.25	1.24	33.0	25.0
0.75	37	0.44	1.6	1.60	1.32	36.5	25.0
1.0	1	0.44	0.9	0.90	0.84	11.0	18.1
1.0	2	0.44	1.0	0.90	0.92	14.5	18.5
1.0	4	0.44	1.0	0.90	0.92	16.5	18.5
1.0	5	0.44	1.1	0.90	1.00	18.0	18.5
1.0	6	0.44	1.1	0.90	1.00	19.0	18.5
1.0	8	0.44	1.2	0.90	1.00	21.0	18.5
1.0	10	0.44	1.2	1.25	1.08	24.5	18.5
1.0	12	0.44	1.3	1.25	1.08	25.0	18.5
1.0	16	0.44	1.3	1.25	1.16	27.5	18.5
1.0	18	0.44	1.4	1.25	1.16	29.0	18.5
1.0	19	0.44	1.4	1.25	1.16	29.0	18.5
1.0	20	0.44	1.4	1.25	1.24	30.5	18.5
1.0	24	0.44	1.5	1.25	1.24	33.5	18.5
1.0	30	0.44	1.6	1.25	1.32	35.5	18.5
1.0	37	0.44	1.6	1.60	1.32	38.5	18.5
1.5	1	0.44	0.9	0.90	0.84	11.5	12.1
1.5	2	0.44	1.0	0.90	0.92	15.5	12.3
1.5	4	0.44	1.1	0.90	1.00	18.0	12.3
1.5	5	0.44	1.1	0.90	1.00	19.0	12.3
1.5	6	0.44	1.2	0.90	1.00	21.0	12.3
1.5	8	0.44	1.2	1.25	1.08	23.5	12.3
1.5	10	0.44	1.3	1.25	1.16	26.5	12.3
1.5	12	0.44	1.3	1.25	1.16	27.5	12.3
1.5	16	0.44	1.4	1.25	1.24	30.0	12.3
1.5	18	0.44	1.5	1.25	1.24	32.0	12.3
1.5	19	0.44	1.5	1.25	1.24	32.0	12.3
1.5	20	0.44	1.5	1.25	1.24	33.5	12.3
1.5	24	0.44	1.6	1.60	1.32	37.5	12.3
1.5	30	0.44	1.7	1.60	1.40	40.0	12.3
1.5	37	0.44	1.8	1.60	1.40	42.5	12.3
2.5	1	0.53	1.0	0.90	0.92	13.5	7.41
2.5	2	0.53	1.1	0.90	1.00	18.0	7.56
2.5	4	0.53	1.2	0.90	1.08	21.0	7.56
2.5	5	0.53	1.2	1.25	1.08	23.0	7.56
2.5	6	0.53	1.3	1.25	1.16	25.0	7.56
2.5	8	0.53	1.4	1.25	1.16	28.0	7.56

- Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

500 Volts, Single and Multi Pair Overall Shielded Armoured Cables

Area of Conductor (mm2)	No. of Pair	Minimum Thickness of Insulation (mm)	Nominal Thickness of Inner Sheath (mm)	Nominal Diameter of Gal. Steel Armour Wire (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
2.5	10	0.53	1.5	1.25	1.24	31.5	7.56
2.5	12	0.53	1.5	1.25	1.24	32.0	7.56
2.5	16	0.53	1.6	1.60	1.32	36.5	7.56
2.5	18	0.53	1.7	1.60	1.40	38.5	7.56
2.5	19	0.53	1.7	1.60	1.40	38.5	7.56
2.5	20	0.53	1.7	1.60	1.40	40.0	7.56
2.5	24	0.53	1.9	1.60	1.48	44.5	7.56
2.5	30	0.53	1.9	1.60	1.56	47.0	7.56
2.5	37	0.53	2.1	2.00	1.64	52.0	7.56

- Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

500 Volts, Single and Multi Pair Overall Shielded Unarmoured Cables

Standard	BS EN 50288-7 Latest
Voltage	500 V
Conductor	Annealed Circular Copper conductor Class 2 as per EN 60228
Insulation	PVC as per EN 50290-2-21
	PE as per EN 50290-2-23
	XLPE as per EN 50290-2-29
Core identification	White, Blue with Pair number Printing
Collective Screen	Aluminium Mylar tape with Tinned Copper drain Wire
Sheath	PVC as per EN 50290-2-22
	Halogen free flame retardant compound (LSZH) to EN 50290-2-27
Color of Outer Sheath	Black
Temperature Limits	-15°C
	For PVC and PE - + 70°C
	For XLPE - +90°C
Short Circuit Temperature	For PVC and PE - + 160°C
	For XLPE - +250°C

• Should not be installed at temperatures below 0°C

Area of Conductor (mm2)	No of Pair	Minimum Thickness of Insulation (mm)	Nominal Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.5	1	0.44	0.90	6.5	36.0
0.5	2	0.44	0.90	9.5	36.7
0.5	4	0.44	1.00	11.0	36.7
0.5	5	0.44	1.00	12.0	36.7
0.5	6	0.44	1.10	13.5	36.7
0.5	8	0.44	1.10	15.0	36.7
0.5	10	0.44	1.20	17.0	36.7
0.5	12	0.44	1.20	17.5	36.7
0.5	16	0.44	1.20	19.5	36.7
0.5	18	0.44	1.30	20.5	36.7
0.5	19	0.44	1.30	20.5	36.7
0.5	20	0.44	1.30	22.0	36.7
0.5	24	0.44	1.40	24.5	36.7
0.5	30	0.44	1.40	26.0	36.7
0.5	37	0.44	1.50	28.0	36.7
0.75	1	0.44	0.90	7.0	24.5
0.75	2	0.44	1.00	10.0	25.0
0.75	4	0.44	1.00	11.5	25.0
0.75	5	0.44	1.10	13.0	25.0
0.75	6	0.44	1.10	14.0	25.0
0.75	8	0.44	1.20	16.0	25.0
0.75	10	0.44	1.20	18.0	25.0
0.75	12	0.44	1.20	18.5	25.0
0.75	16	0.44	1.30	21.0	25.0
0.75	18	0.44	1.30	22.0	25.0
0.75	19	0.44	1.30	22.0	25.0

• Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

500 Volts, Single and Multi Pair Overall Shielded Unarmoured Cables

Area of Conductor (mm2)	No of Pair	Minimum Thickness of Insulation (mm)	Nominal Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.75	20	0.44	1.40	23.5	25.0
0.75	24	0.44	1.50	26.5	25.0
0.75	30	0.44	1.50	28.0	25.0
0.75	37	0.44	1.60	30.5	25.0
1.0	1	0.44	0.90	7.5	18.1
1.0	2	0.44	1.00	10.5	18.5
1.0	4	0.44	1.00	12.5	18.5
1.0	5	0.44	1.10	14.0	18.5
1.0	6	0.44	1.10	15.0	18.5
1.0	8	0.44	1.20	17.0	18.5
1.0	10	0.44	1.20	19.5	18.5
1.0	12	0.44	1.30	20.0	18.5
1.0	16	0.44	1.30	22.5	18.5
1.0	18	0.44	1.40	24.0	18.5
1.0	19	0.44	1.40	24.0	18.5
1.0	20	0.44	1.40	25.0	18.5
1.0	24	0.44	1.50	28.0	18.5
1.0	30	0.44	1.60	30.0	18.5
1.0	37	0.44	1.60	32.5	18.5
1.5	1	0.44	0.90	8.0	12.1
1.5	2	0.44	1.00	11.5	12.3
1.5	4	0.44	1.10	14.0	12.3
1.5	5	0.44	1.10	15.0	12.3
1.5	6	0.44	1.20	16.5	12.3
1.5	8	0.44	1.20	18.5	12.3
1.5	10	0.44	1.30	21.5	12.3
1.5	12	0.44	1.30	22.0	12.3
1.5	16	0.44	1.40	25.0	12.3
1.5	18	0.44	1.50	26.5	12.3
1.5	19	0.44	1.50	26.5	12.3
1.5	20	0.44	1.50	28.0	12.3
1.5	24	0.44	1.60	31.5	12.3
1.5	30	0.44	1.70	33.5	12.3
1.5	37	0.44	1.80	36.5	12.3
2.5	1	0.53	1.00	9.5	7.41
2.5	2	0.53	1.10	14.0	7.56
2.5	4	0.53	1.20	16.5	7.56
2.5	5	0.53	1.20	18.0	7.56
2.5	6	0.53	1.30	20.0	7.56
2.5	8	0.53	1.40	22.5	7.56
2.5	10	0.53	1.50	26.0	7.56
2.5	12	0.53	1.50	27.0	7.56
2.5	16	0.53	1.60	30.0	7.56
2.5	18	0.53	1.70	32.0	7.56
2.5	19	0.53	1.70	32.0	7.56
2.5	20	0.53	1.70	34.0	7.56
2.5	24	0.53	1.90	38.0	7.56
2.5	30	0.53	1.90	40.5	7.56
2.5	37	0.53	2.10	44.0	7.56

- Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

500 Volts, Single and Multi Triad Overall Shielded Armoured Cables

Standard	BS EN 50288-7 Latest
Voltage	500 V
Conductor	Annealed Circular Copper conductor Class 2 as per EN 60228
Insulation	PVC as per EN 50290-2-21
	PE as per EN 50290-2-23
	XLPE as per EN 50290-2-29
Core Identification	White, Blue, Brown with Triad number Printing
Collective screen	Aluminium Mylar tape with Tinned Copper drain Wire
Bedding	PVC as per EN 50290-2-22
	Halogen free flame retardant compound (LSZH) to EN 50290-2-27
Armouring	Single layer of Galvanised Steel Wire
Sheath	PVC as per EN 50290-2-22
	Halogen free flame retardant compound (LSZH) to EN 50290-2-27
Color of Outer Sheath	Black
Temperature limits	-15°C For PVC and PE - + 70°C For XLPE - +90°C
Short Circuit Temperature	For PVC and PE - + 160°C For XLPE -+250°C

Should not be installed at temperatures below 0°C.

Area of Conductor (mm2)	No of Triad	Minimum Thickness of Insulation (mm)	Nominal Thickness of Inner Sheath (mm)	Nominal Diameter of Gal. Steel Armour Wire	Minimum Thickness of Outer Sheath	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.5	1	0.44	0.9	0.90	0.84	10.5	36.0
0.5	2	0.44	1.0	0.90	0.92	14.5	36.7
0.5	4	0.44	1.0	0.90	0.92	16.0	36.7
0.5	5	0.44	1.1	0.90	1.00	17.5	36.7
0.5	6	0.44	1.1	0.90	1.00	19.0	36.7
0.5	8	0.44	1.2	0.90	1.00	21.0	36.7
0.5	10	0.44	1.2	1.25	1.08	24.0	36.7
0.5	12	0.44	1.3	1.25	1.08	25.0	36.7
0.5	16	0.44	1.3	1.25	1.16	27.0	36.7
0.5	18	0.44	1.4	1.25	1.16	28.5	36.7
0.5	19	0.44	1.4	1.25	1.16	28.5	36.7
0.5	20	0.44	1.4	1.25	1.16	30.0	36.7
0.5	24	0.44	1.5	1.25	1.24	33.0	36.7
0.5	30	0.44	1.5	1.25	1.24	34.5	36.7
0.5	37	0.44	1.6	1.60	1.32	38.0	36.7
0.75	1	0.44	0.9	0.90	0.84	11.0	24.5
0.75	2	0.44	1.0	0.90	0.92	15.0	25.0
0.75	4	0.44	1.1	0.90	1.00	17.5	25.0
0.75	5	0.44	1.1	0.90	1.00	18.5	25.0
0.75	6	0.44	1.1	0.90	1.00	20.0	25.0
0.75	8	0.44	1.2	1.25	1.08	23.0	25.0
0.75	10	0.44	1.3	1.25	1.16	25.5	25.0
0.75	12	0.44	1.3	1.25	1.16	26.5	25.0
0.75	16	0.44	1.4	1.25	1.16	29.0	25.0
0.75	18	0.44	1.4	1.25	1.24	30.5	25.0
0.75	19	0.44	1.4	1.25	1.24	30.5	25.0
0.75	20	0.44	1.5	1.25	1.24	32.0	25.0
0.75	24	0.44	1.6	1.25	1.32	35.0	25.0
0.75	30	0.44	1.6	1.60	1.32	37.5	25.0
0.75	37	0.44	1.7	1.60	1.40	40.5	25.0

- Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

500 Volts, Single and Multi Triad Overall Shielded Armoured Cables

Area of Conductor (mm2)	No of Triad	Minimum Thickness of Insulation (mm)	Nominal Thickness of Inner Sheath (mm)	Nominal Diameter of Gal. Steel Armour Wire	Minimum Thickness of Outer Sheath	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1.0	1	0.44	0.9	0.90	0.84	11.5	18.1
1.0	2	0.44	1.0	0.90	0.92	16.0	18.5
1.0	4	0.44	1.1	0.90	1.00	18.0	18.5
1.0	5	0.44	1.1	0.90	1.00	19.5	18.5
1.0	6	0.44	1.2	0.90	1.00	21.0	18.5
1.0	8	0.44	1.2	1.25	1.08	24.0	18.5
1.0	10	0.44	1.3	1.25	1.16	27.0	18.5
1.0	12	0.44	1.3	1.25	1.16	27.5	18.5
1.0	16	0.44	1.4	1.25	1.24	30.5	18.5
1.0	18	0.44	1.5	1.25	1.24	32.0	18.5
1.0	19	0.44	1.5	1.25	1.24	32.0	18.5
1.0	20	0.44	1.5	1.25	1.24	33.5	18.5
1.0	24	0.44	1.6	1.60	1.32	38.0	18.5
1.0	30	0.44	1.7	1.60	1.40	40.5	18.5
1.0	37	0.44	1.8	1.60	1.40	43.0	18.5
1.5	1	0.44	0.9	0.90	0.92	12.5	12.1
1.5	2	0.44	1.1	0.90	1.00	17.5	12.3
1.5	4	0.44	1.1	0.90	1.00	19.5	12.3
1.5	5	0.44	1.2	0.90	1.08	21.5	12.3
1.5	6	0.44	1.2	1.25	1.08	23.5	12.3
1.5	8	0.44	1.3	1.25	1.16	26.5	12.3
1.5	10	0.44	1.4	1.25	1.16	29.5	12.3
1.5	12	0.44	1.4	1.25	1.24	30.5	12.3
1.5	16	0.44	1.5	1.25	1.24	33.5	12.3
1.5	18	0.44	1.6	1.60	1.32	36.0	12.3
1.5	19	0.44	1.6	1.60	1.32	36.0	12.3
1.5	20	0.44	1.6	1.60	1.32	38.0	12.3
1.5	24	0.44	1.8	1.60	1.40	42.0	12.3
1.5	30	0.44	1.8	1.60	1.48	44.5	12.3
1.5	37	0.44	1.9	1.60	1.56	47.5	12.3
2.5	1	0.53	1.0	0.90	0.92	14.0	7.41
2.5	2	0.53	1.2	0.90	1.00	20.0	7.56
2.5	4	0.53	1.2	1.25	1.08	23.5	7.56
2.5	5	0.53	1.3	1.25	1.16	25.5	7.56
2.5	6	0.53	1.4	1.25	1.16	27.5	7.56
2.5	8	0.53	1.5	1.25	1.24	31.0	7.56
2.5	10	0.53	1.6	1.60	1.32	35.5	7.56
2.5	12	0.53	1.6	1.60	1.32	36.5	7.56
2.5	16	0.53	1.7	1.60	1.40	40.5	7.56
2.5	18	0.53	1.8	1.60	1.48	42.5	7.56
2.5	19	0.53	1.8	1.60	1.48	42.5	7.56
2.5	20	0.53	1.9	1.60	1.48	45.0	7.56
2.5	24	0.53	2.0	2.00	1.64	50.5	7.56
2.5	30	0.53	2.1	2.00	1.64	53.5	7.56
2.5	37	0.53	2.2	2.00	1.72	57.5	7.56

- Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

500 Volts, Single and Multi Triad Overall Shielded Unarmoured Cables

Standard	BS EN 50288-7 Latest
Voltage	500 V
Conductor	Annealed Circular Copper conductor Class 2 as per EN 60228
Insulation	PVC as per EN 50290-2-21
	PE as per EN 50290-2-23
	XLPE as per EN 50290-2-29
Core Identification	White, Blue, Brown with Triad number Printing
Collective screen	Aluminium Mylar tape with Tinned Copper drain Wire
Sheath	PVC as per EN 50290-2-22
	Halogen free flame retardant compound (LSZH) to EN 50290-2-27
Color of Outer Sheath	Black
Temperature limits	-15°C For PVC and PE - + 70°C For XLPE - +90°C
Short Circuit Temperature	For PVC and PE - + 160°C For XLPE -+250°C

Should not be installed at temperatures below 0°C.

Area of Conductor (mm2)	No of Triad	Minimum Thickness of Insulation (mm)	Nominal Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.5	1	0.44	0.90	7.0	36.0
0.5	2	0.44	1.00	10.5	36.7
0.5	4	0.44	1.00	12.0	36.7
0.5	5	0.44	1.10	13.5	36.7
0.5	6	0.44	1.10	14.5	36.7
0.5	8	0.44	1.20	16.5	36.7
0.5	10	0.44	1.20	19.0	36.7
0.5	12	0.44	1.30	20.0	36.7
0.5	16	0.44	1.30	22.0	36.7
0.5	18	0.44	1.40	23.5	36.7
0.5	19	0.44	1.40	23.5	36.7
0.5	20	0.44	1.40	24.5	36.7
0.5	24	0.44	1.50	27.5	36.7
0.5	30	0.44	1.50	29.0	36.7
0.5	37	0.44	1.60	32.0	36.7
0.75	1	0.44	0.90	7.5	24.5
0.75	2	0.44	1.00	11.0	25.0
0.75	4	0.44	1.10	13.0	25.0
0.75	5	0.44	1.10	14.5	25.0
0.75	6	0.44	1.10	15.5	25.0
0.75	8	0.44	1.20	18.0	25.0
0.75	10	0.44	1.30	20.5	25.0
0.75	12	0.44	1.30	21.0	25.0
0.75	16	0.44	1.40	23.5	25.0
0.75	18	0.44	1.40	25.0	25.0
0.75	19	0.44	1.40	25.0	25.0
0.75	20	0.44	1.50	26.5	25.0
0.75	24	0.44	1.60	29.5	25.0
0.75	30	0.44	1.60	31.5	25.0
0.75	37	0.44	1.70	34.0	25.0

- Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

500 Volts, Single and Multi Triad Overall Shielded Unarmoured Cables

Area of Conductor (mm2)	No of Triad	Minimum Thickness of Insulation (mm)	Nominal Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1.0	1	0.44	0.90	7.5	18.1
1.0	2	0.44	1.00	12.0	18.5
1.0	4	0.44	1.10	14.0	18.5
1.0	5	0.44	1.10	15.5	18.5
1.0	6	0.44	1.20	17.0	18.5
1.0	8	0.44	1.20	19.0	18.5
1.0	10	0.44	1.30	22.0	18.5
1.0	12	0.44	1.30	22.5	18.5
1.0	16	0.44	1.40	25.5	18.5
1.0	18	0.44	1.50	27.0	18.5
1.0	19	0.44	1.50	27.0	18.5
1.0	20	0.44	1.50	28.5	18.5
1.0	24	0.44	1.60	31.5	18.5
1.0	30	0.44	1.70	34.0	18.5
1.0	37	0.44	1.80	37.0	18.5
1.5	1	0.44	0.90	8.5	12.1
1.5	2	0.44	1.10	13.0	12.3
1.5	4	0.44	1.10	15.5	12.3
1.5	5	0.44	1.20	17.0	12.3
1.5	6	0.44	1.20	18.5	12.3
1.5	8	0.44	1.30	21.0	12.3
1.5	10	0.44	1.40	24.0	12.3
1.5	12	0.44	1.40	25.0	12.3
1.5	16	0.44	1.50	28.0	12.3
1.5	18	0.44	1.60	30.0	12.3
1.5	19	0.44	1.60	30.0	12.3
1.5	20	0.44	1.60	31.5	12.3
1.5	24	0.44	1.80	35.5	12.3
1.5	30	0.44	1.80	37.5	12.3
1.5	37	0.44	1.90	41.0	12.3
2.5	1	0.53	1.00	10.0	7.41
2.5	2	0.53	1.20	15.5	7.56
2.5	4	0.53	1.20	18.5	7.56
2.5	5	0.53	1.30	20.5	7.56
2.5	6	0.53	1.40	22.5	7.56
2.5	8	0.53	1.50	25.5	7.56
2.5	10	0.53	1.60	29.5	7.56
2.5	12	0.53	1.60	30.5	7.56
2.5	16	0.53	1.70	34.0	7.56
2.5	18	0.53	1.80	36.0	7.56
2.5	19	0.53	1.80	36.0	7.56
2.5	20	0.53	1.90	38.5	7.56
2.5	24	0.53	2.00	43.0	7.56
2.5	30	0.53	2.10	45.5	7.56
2.5	37	0.53	2.20	49.5	7.56

- Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

500 Volts, Multi Pair Individual & Overall Shielded Armoured Cables

Standard	BS EN 50288-7 Latest
Voltage	500 V
Conductor	Annealed Circular Copper conductor Class 2 as per EN 60228
Insulation	PVC as per EN 50290-2-21
	PE as per EN 50290-2-23
	XLPE as per EN 50290-2-29
Core Identification	White, Blue with Pair number Printing
Individual screen	Aluminium Mylar tape with Tinned Copper drain Wire
Collective screen	Aluminium Mylar tape with Tinned Copper drain Wire
Bedding	PVC as per EN 50290-2-22
	Halogen free flame retardant compound (LSZH) to EN 50290-2-27
Armouring	Single layer of Galvanised Steel Wire
Sheath	PVC as per EN 50290-2-22
	Halogen free flame retardant compound (LSZH) to EN 50290-2-27
Color of Outer Sheath	Black
Temperature limits	-15°C For PVC and PE - + 70°C For XLPE - +90°C
Short Circuit Temperature	For PVC and PE - + 160°C For XLPE -+250°C

Should not be installed at temperatures below 0°C.

Area of Conductor (mm2)	No. of Pair	Minimum Thickness of Insulation (mm)	Nominal Thickness of Inner Sheath (mm)	Nominal Diameter of Gal. Steel Armour Wire	Minimum Thickness of Outer Sheath	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.5	2	0.44	1.0	0.90	0.92	14.5	36.7
0.5	4	0.44	1.0	0.90	1.00	16.5	36.7
0.5	5	0.44	1.1	0.90	1.00	18.0	36.7
0.5	6	0.44	1.1	0.90	1.00	19.0	36.7
0.5	8	0.44	1.2	0.90	1.08	21.5	36.7
0.5	10	0.44	1.3	1.25	1.08	24.5	36.7
0.5	12	0.44	1.3	1.25	1.16	25.5	36.7
0.5	16	0.44	1.4	1.25	1.16	27.5	36.7
0.5	18	0.44	1.4	1.25	1.16	29.0	36.7
0.5	19	0.44	1.4	1.25	1.16	29.0	36.7
0.5	20	0.44	1.4	1.25	1.24	30.5	36.7
0.5	24	0.44	1.5	1.25	1.24	33.5	36.7
0.5	30	0.44	1.6	1.60	1.32	36.0	36.7
0.5	37	0.44	1.7	1.60	1.40	39.0	36.7
0.75	2	0.44	1.0	0.90	0.92	15.0	25.0
0.75	4	0.44	1.1	0.90	1.00	17.5	25.0
0.75	5	0.44	1.1	0.90	1.00	18.5	25.0
0.75	6	0.44	1.2	0.90	1.00	20.0	25.0
0.75	8	0.44	1.2	1.25	1.08	23.0	25.0
0.75	10	0.44	1.3	1.25	1.16	26.0	25.0
0.75	12	0.44	1.3	1.25	1.16	26.5	25.0
0.75	16	0.44	1.4	1.25	1.24	29.5	25.0
0.75	18	0.44	1.5	1.25	1.24	31.0	25.0
0.75	19	0.44	1.5	1.25	1.24	31.0	25.0
0.75	20	0.44	1.5	1.25	1.24	32.5	25.0
0.75	24	0.44	1.6	1.60	1.32	36.5	25.0
0.75	30	0.44	1.7	1.60	1.40	38.5	25.0
0.75	37	0.44	1.8	1.60	1.40	41.5	25.0
1.0	2	0.44	1.0	0.90	0.92	16.0	18.5
1.0	4	0.44	1.1	0.90	1.00	18.0	18.5

- Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

500 Volts, Multi Pair Individual & Overall Shielded Armoured Cables

Area of Conductor (mm2)	No. of Pair	Minimum Thickness of Insulation (mm)	Nominal Thickness of Inner Sheath (mm)	Nominal Diameter of Gal. Steel Armour Wire	Minimum Thickness of Outer Sheath	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1.0	5	0.44	1.1	0.90	1.00	19.5	18.5
1.0	6	0.44	1.2	0.90	1.08	21.5	18.5
1.0	8	0.44	1.3	1.25	1.08	24.5	18.5
1.0	10	0.44	1.3	1.25	1.16	27.0	18.5
1.0	12	0.44	1.4	1.25	1.16	28.0	18.5
1.0	16	0.44	1.5	1.25	1.24	31.0	18.5
1.0	18	0.44	1.5	1.25	1.24	32.5	18.5
1.0	19	0.44	1.5	1.25	1.24	32.5	18.5
1.0	20	0.44	1.6	1.25	1.32	34.5	18.5
1.0	24	0.44	1.7	1.60	1.40	38.5	18.5
1.0	30	0.44	1.7	1.60	1.40	40.5	18.5
1.0	37	0.44	1.8	1.60	1.48	43.5	18.5
1.5	2	0.44	1.1	0.90	1.00	17.5	12.3
1.5	4	0.44	1.2	0.90	1.00	19.5	12.3
1.5	5	0.44	1.2	0.90	1.08	21.5	12.3
1.5	6	0.44	1.3	1.25	1.08	24.0	12.3
1.5	8	0.44	1.3	1.25	1.16	26.5	12.3
1.5	10	0.44	1.4	1.25	1.24	29.5	12.3
1.5	12	0.44	1.5	1.25	1.24	30.5	12.3
1.5	16	0.44	1.6	1.25	1.32	34.0	12.3
1.5	18	0.44	1.6	1.60	1.32	36.0	12.3
1.5	19	0.44	1.6	1.60	1.32	36.0	12.3
1.5	20	0.44	1.7	1.60	1.40	38.5	12.3
1.5	24	0.44	1.8	1.60	1.48	42.0	12.3
1.5	30	0.44	1.9	1.60	1.48	44.5	12.3
1.5	37	0.44	2.0	2.00	1.56	49.0	12.3
2.5	2	0.53	1.2	0.90	1.00	19.5	7.56
2.5	4	0.53	1.3	1.25	1.08	23.5	7.56
2.5	5	0.53	1.3	1.25	1.16	25.5	7.56
2.5	6	0.53	1.4	1.25	1.16	27.5	7.56
2.5	8	0.53	1.5	1.25	1.24	31.0	7.56
2.5	10	0.53	1.6	1.60	1.32	35.5	7.56
2.5	12	0.53	1.6	1.60	1.32	36.5	7.56
2.5	16	0.53	1.8	1.60	1.40	40.5	7.56
2.5	18	0.53	1.8	1.60	1.48	42.5	7.56
2.5	19	0.53	1.8	1.60	1.48	42.5	7.56
2.5	20	0.53	1.9	1.60	1.48	45.0	7.56
2.5	24	0.53	2.0	2.00	1.64	50.5	7.56
2.5	30	0.53	2.1	2.00	1.64	53.5	7.56
2.5	37	0.53	2.3	2.00	1.72	57.5	7.56

- Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

500 Volts, Multi Pair Individual & Overall Shielded Unarmoured Cables

Standard	BS EN 50288-7 Latest
Voltage	500 V
Conductor	Annealed Circular Copper conductor Class 2 as per EN 60228
Insulation	PVC as per EN 50290-2-21
	PE as per EN 50290-2-23
	XLPE as per EN 50290-2-29
Core Identification	White, Blue with Pair number Printing
Individual screen	Aluminium Mylar tape with Tinned Copper drain Wire
Collective screen	Aluminium Mylar tape with Tinned Copper drain Wire
Sheath	PVC as per EN 50290-2-22
	Halogen free flame retardant compound (LSZH) to EN 50290-2-27
Color of Outer Sheath	Black
Temperature limits	-15°C For PVC and PE - + 70°C For XLPE - +90°C
Short Circuit Temperature	For PVC and PE - + 160°C For XLPE -+250°C

Should not be installed at temperatures below 0°C.

Area of Conductor (mm2)	No. of Pair	Minimum Thickness of Insulation (mm)	Nominal Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.5	2	0.44	1.00	10.5	36.7
0.5	4	0.44	1.00	12.5	36.7
0.5	5	0.44	1.10	14.0	36.7
0.5	6	0.44	1.10	15.0	36.7
0.5	8	0.44	1.20	17.0	36.7
0.5	10	0.44	1.30	19.5	36.7
0.5	12	0.44	1.30	20.0	36.7
0.5	16	0.44	1.40	22.5	36.7
0.5	18	0.44	1.40	24.0	36.7
0.5	19	0.44	1.40	24.0	36.7
0.5	20	0.44	1.40	25.0	36.7
0.5	24	0.44	1.50	28.0	36.7
0.5	30	0.44	1.60	30.0	36.7
0.5	37	0.44	1.70	32.5	36.7
0.75	2	0.44	1.00	11.5	25.0
0.75	4	0.44	1.10	13.5	25.0
0.75	5	0.44	1.10	14.5	25.0
0.75	6	0.44	1.20	16.0	25.0
0.75	8	0.44	1.20	18.0	25.0
0.75	10	0.44	1.30	20.5	25.0
0.75	12	0.44	1.30	21.5	25.0
0.75	16	0.44	1.40	24.0	25.0
0.75	18	0.44	1.50	25.5	25.0
0.75	19	0.44	1.50	25.5	25.0
0.75	20	0.44	1.50	27.0	25.0
0.75	24	0.44	1.60	30.0	25.0
0.75	30	0.44	1.70	32.0	25.0
0.75	37	0.44	1.80	35.0	25.0
1.0	2	0.44	1.00	12.0	18.5
1.0	4	0.44	1.10	14.0	18.5

- Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

500 Volts, Multi Pair Individual & Overall Shielded Unarmoured Cables

Area of Conductor (mm2)	No of Pair	Minimum Thickness of Insulation (mm)	Nominal Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1.0	5	0.44	1.10	15.5	18.5
1.0	6	0.44	1.20	17.0	18.5
1.0	8	0.44	1.30	19.5	18.5
1.0	10	0.44	1.30	22.0	18.5
1.0	12	0.44	1.40	23.0	18.5
1.0	16	0.44	1.50	25.5	18.5
1.0	18	0.44	1.50	27.0	18.5
1.0	19	0.44	1.50	27.0	18.5
1.0	20	0.44	1.60	29.0	18.5
1.0	24	0.44	1.70	32.0	18.5
1.0	30	0.44	1.70	34.0	18.5
1.0	37	0.44	1.80	37.0	18.5
1.5	2	0.44	1.10	13.0	12.3
1.5	4	0.44	1.20	15.5	12.3
1.5	5	0.44	1.20	17.0	12.3
1.5	6	0.44	1.30	19.0	12.3
1.5	8	0.44	1.30	21.0	12.3
1.5	10	0.44	1.40	24.5	12.3
1.5	12	0.44	1.50	25.5	12.3
1.5	16	0.44	1.60	28.5	12.3
1.5	18	0.44	1.60	30.0	12.3
1.5	19	0.44	1.60	30.0	12.3
1.5	20	0.44	1.70	32.0	12.3
1.5	24	0.44	1.80	35.5	12.3
1.5	30	0.44	1.90	38.0	12.3
1.5	37	0.44	2.00	41.5	12.3
2.5	2	0.53	1.20	15.5	7.56
2.5	4	0.53	1.30	18.5	7.56
2.5	5	0.53	1.30	20.5	7.56
2.5	6	0.53	1.40	22.5	7.56
2.5	8	0.53	1.50	25.5	7.56
2.5	10	0.53	1.60	29.0	7.56
2.5	12	0.53	1.60	30.0	7.56
2.5	16	0.53	1.80	34.0	7.56
2.5	18	0.53	1.80	36.0	7.56
2.5	19	0.53	1.80	36.0	7.56
2.5	20	0.53	1.90	38.0	7.56
2.5	24	0.53	2.00	42.5	7.56
2.5	30	0.53	2.10	45.5	7.56
2.5	37	0.53	2.30	49.5	7.56

- Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

500 Volts, Multi Triad Individual & Overall Shielded Armoured Cables

Standard	BS EN 50288-7 Latest
Voltage	500 V
Conductor	Annealed Circular Copper conductor Class 2 as per EN 60228
Insulation	PVC as per EN 50290-2-21
	PE as per EN 50290-2-23
	XLPE as per EN 50290-2-29
Core Identification	White, Blue, Brown with Triad number Printing
Individual screen	Aluminium Mylar tape with Tinned Copper drain Wire
Collective screen	Aluminium Mylar tape with Tinned Copper drain Wire
Bedding	PVC as per EN 50290-2-22
	Halogen free flame retardant compound (LSZH) to EN 50290-2-27
Armouring	Single layer of Galvanised Steel Wire
Sheath	PVC as per EN 50290-2-22
	Halogen free flame retardant compound (LSZH) to EN 50290-2-27
Color of Outer Sheath	Black
Temperature limits	-15°C For PVC and PE - + 70°C For XLPE - +90°C
Short Circuit Temperature	For PVC and PE - + 160°C For XLPE -+250°C

Should not be installed at temperatures below 0°C.

Area of Conductor (mm2)	No. of Triad	Minimum Thickness of Insulation (mm)	Nominal Thickness of Inner Sheath (mm)	Nominal Diameter of Gal. Steel Armour Wire	Minimum Thickness of Outer Sheath	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.5	2	0.44	1.0	0.90	0.92	15.5	36.7
0.5	4	0.44	1.1	0.90	1.00	18.0	36.7
0.5	5	0.44	1.1	0.90	1.00	19.5	36.7
0.5	6	0.44	1.2	0.90	1.08	21.0	36.7
0.5	8	0.44	1.3	1.25	1.08	24.0	36.7
0.5	10	0.44	1.3	1.25	1.16	27.0	36.7
0.5	12	0.44	1.4	1.25	1.16	28.0	36.7
0.5	16	0.44	1.4	1.25	1.24	30.5	36.7
0.5	18	0.44	1.5	1.25	1.24	32.0	36.7
0.5	19	0.44	1.5	1.25	1.24	32.0	36.7
0.5	20	0.44	1.5	1.25	1.24	33.5	36.7
0.5	24	0.44	1.6	1.60	1.32	38.0	36.7
0.5	30	0.44	1.7	1.60	1.40	40.0	36.7
0.5	37	0.44	1.8	1.60	1.48	43.0	36.7
0.75	2	0.44	1.1	0.90	1.00	17.0	25.0
0.75	4	0.44	1.1	0.90	1.00	19.0	25.0
0.75	5	0.44	1.2	0.90	1.08	20.5	25.0
0.75	6	0.44	1.2	1.25	1.08	23.0	25.0
0.75	8	0.44	1.3	1.25	1.16	25.5	25.0
0.75	10	0.44	1.4	1.25	1.16	28.5	25.0
0.75	12	0.44	1.4	1.25	1.24	29.5	25.0
0.75	16	0.44	1.5	1.25	1.24	32.5	25.0
0.75	18	0.44	1.6	1.25	1.32	34.0	25.0
0.75	19	0.44	1.6	1.25	1.32	34.0	25.0
0.75	20	0.44	1.6	1.60	1.32	36.5	25.0
0.75	24	0.44	1.7	1.60	1.40	40.5	25.0
0.75	30	0.44	1.8	1.60	1.48	42.5	25.0
0.75	37	0.44	1.9	1.60	1.48	46.0	25.0
1.0	2	0.44	1.1	0.90	1.00	17.5	18.5
1.0	4	0.44	1.1	0.90	1.00	20.0	18.5

- Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

500 Volts, Multi Triad Individual & Overall Shielded Armoured Cables

Area of Conductor (mm2)	No. of Triad	Minimum Thickness of Insulation (mm)	Nominal Thickness of Inner Sheath (mm)	Nominal Diameter of Gal. Steel Armour Wire	Minimum Thickness of Outer Sheath	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1.0	5	0.44	1.2	0.90	1.08	21.5	18.5
1.0	6	0.44	1.2	1.25	1.08	24.0	18.5
1.0	8	0.44	1.3	1.25	1.16	27.0	18.5
1.0	10	0.44	1.4	1.25	1.24	30.0	18.5
1.0	12	0.44	1.5	1.25	1.24	31.0	18.5
1.0	16	0.44	1.5	1.25	1.24	34.0	18.5
1.0	18	0.44	1.6	1.60	1.32	36.5	18.5
1.0	19	0.44	1.6	1.60	1.32	36.5	18.5
1.0	20	0.44	1.7	1.60	1.40	39.0	18.5
1.0	24	0.44	1.8	1.60	1.40	42.5	18.5
1.0	30	0.44	1.9	1.60	1.48	45.5	18.5
1.0	37	0.44	2.0	2.00	1.56	49.5	18.5
1.5	2	0.44	1.1	0.90	1.00	19.0	12.3
1.5	4	0.44	1.2	1.25	1.08	22.5	12.3
1.5	5	0.44	1.3	1.25	1.08	24.0	12.3
1.5	6	0.44	1.3	1.25	1.16	26.0	12.3
1.5	8	0.44	1.4	1.25	1.24	29.5	12.3
1.5	10	0.44	1.5	1.25	1.24	33.0	12.3
1.5	12	0.44	1.6	1.25	1.32	34.0	12.3
1.5	16	0.44	1.7	1.60	1.40	38.5	12.3
1.5	18	0.44	1.7	1.60	1.40	40.0	12.3
1.5	19	0.44	1.7	1.60	1.40	40.0	12.3
1.5	20	0.44	1.8	1.60	1.48	42.5	12.3
1.5	24	0.44	1.9	1.60	1.56	47.0	12.3
1.5	30	0.44	2.0	2.00	1.56	50.5	12.3
1.5	37	0.44	2.1	2.00	1.64	54.5	12.3
2.5	2	0.53	1.2	1.25	1.08	22.5	7.56
2.5	4	0.53	1.3	1.25	1.16	26.0	7.56
2.5	5	0.53	1.4	1.25	1.16	28.0	7.56
2.5	6	0.53	1.5	1.25	1.24	30.5	7.56
2.5	8	0.53	1.6	1.60	1.32	35.0	7.56
2.5	10	0.53	1.7	1.60	1.40	39.5	7.56
2.5	12	0.53	1.8	1.60	1.40	40.5	7.56
2.5	16	0.53	1.9	1.60	1.48	45.0	7.56
2.5	18	0.53	2.0	2.00	1.56	48.5	7.56
2.5	19	0.53	2.0	2.00	1.56	48.5	7.56
2.5	20	0.53	2.1	2.00	1.64	51.0	7.56
2.5	24	0.53	2.2	2.00	1.72	56.5	7.56
2.5	30	0.53	2.3	2.50	1.80	60.5	7.56
2.5	37	0.53	2.5	2.50	1.88	65.5	7.56

- Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

500 Volts, Multi Triad Individual & Overall Shielded Unarmoured Cables

Standard	BS EN 50288-7 Latest
Voltage	500 V
Conductor	Annealed Circular Copper conductor Class 2 as per EN 60228
Insulation	PVC as per EN 50290-2-21
	PE as per EN 50290-2-23
	XLPE as per EN 50290-2-29
Core Identification	White, Blue, Brown with Triad number Printing
Individual screen	Aluminium Mylar tape with Tinned Copper drain Wire
Collective screen	Aluminium Mylar tape with Tinned Copper drain Wire
Sheath	PVC as per EN 50290-2-22
	Halogen free flame retardant compound (LSZH) to EN 50290-2-27
Color of Outer Sheath	Black
Temperature limits	-15°C
	For PVC and PE - + 70°C
	For XLPE - +90°C
Short Circuit Temperature	For PVC and PE - + 160°C
	For XLPE -+250°C

Should not be installed at temperatures below 0°C.

Area of Conductor (mm2)	No of Triad	Minimum Thickness of Insulation (mm)	Nominal Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
0.5	2	0.44	1.00	12.0	36.7
0.5	4	0.44	1.10	14.0	36.7
0.5	5	0.44	1.10	15.5	36.7
0.5	6	0.44	1.20	17.0	36.7
0.5	8	0.44	1.30	19.0	36.7
0.5	10	0.44	1.30	21.5	36.7
0.5	12	0.44	1.40	22.5	36.7
0.5	16	0.44	1.40	25.0	36.7
0.5	18	0.44	1.50	26.5	36.7
0.5	19	0.44	1.50	26.5	36.7
0.5	20	0.44	1.50	28.5	36.7
0.5	24	0.44	1.60	31.5	36.7
0.5	30	0.44	1.70	33.5	36.7
0.5	37	0.44	1.80	36.5	36.7
0.75	2	0.44	1.10	12.5	25.0
0.75	4	0.44	1.10	15.0	25.0
0.75	5	0.44	1.20	16.5	25.0
0.75	6	0.44	1.20	18.0	25.0
0.75	8	0.44	1.30	20.5	25.0
0.75	10	0.44	1.40	23.5	25.0
0.75	12	0.44	1.40	24.0	25.0
0.75	16	0.44	1.50	27.0	25.0
0.75	18	0.44	1.60	28.5	25.0
0.75	19	0.44	1.60	28.5	25.0
0.75	20	0.44	1.60	30.5	25.0
0.75	24	0.44	1.70	34.0	25.0
0.75	30	0.44	1.80	36.0	25.0
0.75	37	0.44	1.90	39.5	25.0
1.0	2	0.44	1.10	13.5	18.5
1.0	4	0.44	1.10	15.5	18.5

- Dimensions & Weights are representative figures and may vary ± 5%

Instrumentation Cables

500 Volts, Multi Triad Individual & Overall Shielded Unarmoured Cables

Area of Conductor (mm2)	No of Triad	Minimum Thickness of Insulation (mm)	Nominal Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1.0	5	0.44	1.20	17.5	18.5
1.0	6	0.44	1.20	19.0	18.5
1.0	8	0.44	1.30	21.5	18.5
1.0	10	0.44	1.40	24.5	18.5
1.0	12	0.44	1.50	26.0	18.5
1.0	16	0.44	1.50	28.5	18.5
1.0	18	0.44	1.60	30.5	18.5
1.0	19	0.44	1.60	30.5	18.5
1.0	20	0.44	1.70	32.5	18.5
1.0	24	0.44	1.80	36.5	18.5
1.0	30	0.44	1.90	38.5	18.5
1.0	37	0.44	2.00	42.0	18.5
1.5	2	0.44	1.10	14.5	12.3
1.5	4	0.44	1.20	17.5	12.3
1.5	5	0.44	1.30	19.5	12.3
1.5	6	0.44	1.30	21.0	12.3
1.5	8	0.44	1.40	24.0	12.3
1.5	10	0.44	1.50	27.5	12.3
1.5	12	0.44	1.60	28.5	12.3
1.5	16	0.44	1.70	32.0	12.3
1.5	18	0.44	1.70	34.0	12.3
1.5	19	0.44	1.70	34.0	12.3
1.5	20	0.44	1.80	36.0	12.3
1.5	24	0.44	1.90	40.0	12.3
1.5	30	0.44	2.00	43.0	12.3
1.5	37	0.44	2.10	46.5	12.3
2.5	2	0.53	1.20	17.5	7.56
2.5	4	0.53	1.30	20.5	7.56
2.5	5	0.53	1.40	23.0	7.56
2.5	6	0.53	1.50	25.0	7.56
2.5	8	0.53	1.60	28.5	7.56
2.5	10	0.53	1.70	33.0	7.56
2.5	12	0.53	1.80	34.0	7.56
2.5	16	0.53	1.90	38.5	7.56
2.5	18	0.53	2.00	40.5	7.56
2.5	19	0.53	2.00	40.5	7.56
2.5	20	0.53	2.10	43.5	7.56
2.5	24	0.53	2.20	48.5	7.56
2.5	30	0.53	2.30	51.5	7.56
2.5	37	0.53	2.50	56.0	7.56

- Dimensions & Weights are representative figures and may vary ± 5%

Type ITC

600V, Copper, XLPE Insulation, PVC Jacket Instrumentation Cable (Type ITC)

Standard	UL 2250, UL 44
Conductor	Class B Stranded copper conductor as per ASTM B3 & ASTM B8
Insulation	Cross Linked Polyethylene (XLPE) Type XHHW -2
Color Code	Black, White for Pair and Black, White, Red for Triad
Individual Shield	Aluminium Mylar Tape with ATC Drain Wire (Applicable for Multipair cables)
Overall Shield	Aluminium Mylar Tape with ATC Drain Wire
Filler	Non-Hygroscopic fillers (If Applicable)
Binder	Polyester Binder Tape (If Applicable)
Jacket	Flame Retardant, Polyvinyl Chloride (PVC) Jacket
Operating Temperature	Wet or dry locations not to exceed 90°C
	Emergency Overload Temperature : 130°C
	Max. Short Circuit Temperature: 250°C
Minimum Bending Radius	D - Overall diameter of the cable
	1.00 inch and less - 4D
	1.01 to 2.0 inch - 5D
	2.01 inch and over - 6D

Conductor Size (AWG / kcmil)	No. of Elements	Insulation Thickness (mils)	Jacket Thickness (mils)	Approx. OD (inch)	Max. DC Resistance of Conductor (Ω/1000ft)
16	1P	15	35	0.28	4.18
16	2P	15	50	0.41	4.27
16	8P	15	60	0.65	4.27
16	12P	15	60	0.77	4.27
16	24P	15	70	1.02	4.27
16	1T	15	40	0.3	4.18
16	12T	15	40	0.87	4.27
16	8T	15	40	0.77	4.27
16	24T	15	70	1.12	4.27
14	1P	20	40	0.33	2.62
14	2P	20	40	0.55	2.67
14	4P	20	50	0.59	2.67

• Dimensions & Weights are representative figures and may vary ± 5%

Fire Survival Cables

Low Voltage Multicore Armoured Power Fire resistant Cables to BS 7846

Standard	BS 7846 Latest
Voltage	600/1000 V
Conductor	Annealed Circular Copper conductor Class 2 as per EN 60228
Tape Over Conductor to meet fire restant requirement	2 layer of glass mica tape
Insulation	Thermosetting insulation either type GP 8 conforming to BS 7655-1.3, or Type GP 6 conforming to BS 7655-1.2 or type EI 5 conforming to BS EN 50363-5,
Core identification	Two core: Brown, Blue. Three-core: Brown, Black, Grey. Four-core: Blue, Brown, Black, Grey. Five-core: Green-and-yellow, Blue, Brown, Black, Grey.
Bedding	Extruded Polymeric material
Armouring	Single layer of Galvanised Steel Wire
Sheath	LSZH Type LTS 1 as per BS 7655-6.1
Color of Outer Sheath	Black
Temperature limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 times Overall diameter

Should not be installed at temperatures below 0°C

Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Extruded Bedding (mm)	Nominal Gal. Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20°C (Ω/km)
2 x 1.5	0.6	0.44	0.9	0.84	13.0	12.1
2 x 2.5	0.7	0.44	0.9	0.92	14.5	7.41
2 x 4	0.7	0.44	0.9	0.92	15.5	4.61
2 x 6	0.7	0.44	0.9	0.92	16.5	3.08
2 x 10	0.7	0.44	0.9	1.00	19.0	1.83
2 x 16	0.7	0.44	1.25	1.00	21.5	1.15
2 x 25	0.9	0.44	1.25	1.08	25.0	0.727
2 x 35	0.9	0.60	1.6	1.16	28.5	0.524
2 x 50	1.0	0.60	1.6	1.24	26.5	0.387
2 x 70	1.1	0.60	1.6	1.32	30.0	0.268
2 x 95	1.1	0.76	2.0	1.40	34.0	0.193
2 x 120	1.2	0.76	2.0	1.48	37.0	0.153
2 x 150	1.4	0.76	2.0	1.56	40.0	0.124
2 x 185	1.6	0.92	2.5	1.72	46.0	0.0991
2 x 240	1.7	0.92	2.5	1.80	50.0	0.0754
2 x 300	1.8	1.08	2.5	1.88	55.0	0.0601
2 x 400	2.0	1.08	2.5	2.04	60.0	0.047
3 x 1.5	0.6	0.44	0.9	0.84	13.5	12.1
3 x 2.5	0.7	0.44	0.9	0.92	15.0	7.41
3 x 4	0.7	0.44	0.9	0.92	16.5	4.61
3 x 6	0.7	0.44	0.9	0.92	17.5	3.08
3 x 10	0.7	0.44	1.25	1.00	20.5	1.83
3 x 16	0.7	0.44	1.25	1.08	22.5	1.15
3 x 25	0.9	0.60	1.6	1.16	27.5	0.727
3 x 35	0.9	0.60	1.6	1.24	31.0	0.524

- Dimensions & Weights are representative figures and may vary ± 5%

Fire Survival Cables

Low Voltage Multicore Armoured Power Fire Resistant Cables to BS 7846

Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Extruded Bedding (mm)	Nominal Gal. Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20°C (Ω/km)
3 x 50	1.0	0.60	1.6	1.24	30.0	0.387
3 x 70	1.1	0.60	1.6	1.32	33.0	0.268
3 x 95	1.1	0.76	2.0	1.48	38.0	0.193
3 x 120	1.2	0.76	2.0	1.56	42.0	0.153
3 x 150	1.4	0.92	2.5	1.64	47.0	0.124
3 x 185	1.6	0.92	2.5	1.72	51.0	0.0991
3 x 240	1.7	0.92	2.5	1.88	56.0	0.0754
3 x 300	1.8	1.08	2.5	1.96	61.0	0.0601
3 x 400	2.0	1.08	2.5	2.12	68.0	0.047
4 x 1.5	0.6	0.44	0.9	0.84	14.5	12.1
4 x 2.5	0.7	0.44	0.9	0.92	16.0	7.41
4 x 4	0.7	0.44	0.9	0.92	17.5	4.61
4 x 6	0.7	0.44	1.25	1.00	20.0	3.08
4 x 10	0.7	0.44	1.25	1.00	22.5	1.83
4 x 16	0.7	0.44	1.25	1.08	24.5	1.15
4 x 25	0.9	0.60	1.6	1.16	30.0	0.727
4 x 35	0.9	0.60	1.6	1.24	33.0	0.524
4 x 50	1.0	0.60	1.6	1.32	33.0	0.387
4 x 70	1.1	0.76	2.0	1.48	39.0	0.268
4 x 95	1.1	0.76	2.0	1.56	43.0	0.193
4 x 120	1.2	0.92	2.5	1.64	48.0	0.153
4 x 150	1.4	0.92	2.5	1.72	53.0	0.124
4 x 185	1.6	0.92	2.5	1.88	58.0	0.0991
4 x 240	1.7	1.08	2.5	1.96	64.0	0.0754
4 x 300	1.8	1.08	2.5	2.12	70.0	0.0601
4 x 400	2.0	1.24	3.15	2.36	79.0	0.047
5 x 1.5	0.6	0.44	0.9	0.92	15.5	12.1
5 x 2.5	0.7	0.44	0.9	0.92	17.5	7.41
5 x 4	0.7	0.44	0.9	1.00	19.0	4.61
5 x 6	0.7	0.44	1.25	1.00	21.5	3.08
5 x 10	0.7	0.44	1.25	1.08	24.0	1.83
5 x 16	0.7	0.60	1.6	1.16	27.5	1.15
5 x 25	0.9	0.60	1.6	1.24	32.5	0.727
5 x 35	0.9	0.60	1.6	1.32	36.0	0.524
5 x 50	1.0	0.76	2.0	1.40	42.0	0.387
5 x 70	1.1	0.76	2.0	1.56	48.0	0.268

Fire Resistance Categories – BS 7846 Standard

Category	Fire Resistance Characteristics
F2	- Resistance to fire
	- Resistance to water
	- Resistance to fire with mechanical shock
	(Each assessed separately as per BS 7846)
F30	- Combined resistance to fire, direct mechanical impact, and water jet
	(Tested for 30 minutes as per BS 8491)
F60	- Same as F30 (Tested for 60 minutes as per BS 8491)
F120	- Same as F30 (Tested for 120 minutes as per BS 8491)

- Dimensions & Weights are representative figures and may vary ± 5%

Fire Survival Cables

Low Voltage Multicore Armoured Control Fire Resistant Cables to BS 7846

Standard	BS 7846 Latest
Voltage	600/1000 V
Conductor	Annealed Circular Copper conductor Class 2 as per EN 60228
Tape Over Conductor to meet fire restant requirement	2 layer of glass mica tape
Insulation	Thermosetting insulation either type GP 8 conforming to BS 7655-1.3, or Type GP 6 conforming to BS 7655-1.2 or type EI 5 conforming to BS EN 50363-5,
Core Identification	All cores white with black number printing
Bedding	Extruded Polymeric material
Armouring	Single layer of Galvanised Steel Wire
Sheath	LSZH Type LTS 1 as per BS 7655-6.1
Color of Outer Sheath	Black
Temperature limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 times Overall diameter

Should not be installed at temperatures below 0°C

Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	Minimum Thickness of Extruded Bedding (mm)	Nominal Gal. Steel Armour Wire Dia (mm)	Minimum Thickness of Over Sheath (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20˚C (Ω/km)
7 x 1.5	0.6	0.44	0.90	0.92	16.5	12.1
12 x 1.5	0.6	0.44	1.25	1.00	21.5	12.1
19 x 1.5	0.6	0.44	1.25	1.08	24.5	12.1
27 x 1.5	0.6	0.60	1.60	1.16	29.5	12.1
37 x 1.5	0.6	0.60	1.60	1.16	33.0	12.1
7 x 2.5	0.7	0.44	0.90	0.92	18.5	7.41
12 x 2.5	0.7	0.44	1.25	1.08	24.5	7.41
19 x 2.5	0.7	0.60	1.60	1.16	29.0	7.41
27 x 2.5	0.7	0.60	1.60	1.24	34.0	7.41
37 x 2.5	0.7	0.60	1.60	1.24	36.0	7.41
7 x 4	0.7	0.44	1.25	1.00	21.0	4.61
12 x 4	0.7	0.60	1.60	1.08	27.5	4.61
19 x 4	0.7	0.60	1.60	1.16	32.0	4.61
27 x 4	0.7	0.60	1.60	1.32	38.0	4.61
37 x 4	0.7	0.76	2.00	1.40	43.0	4.61

Fire Resistance Categories – BS 7846 Standard

Category	Fire Resistance Characteristics
F2	- Resistance to fire - Resistance to water - Resistance to fire with mechanical shock (Each assessed separately as per BS 7846)
F30	- Combined resistance to fire, direct mechanical impact, and water jet (Tested for 30 minutes as per BS 8491)"
F60	- Same as F30 (Tested for 60 minutes as per BS 8491)
F120	- Same as F30 (Tested for 120 minutes as per BS 8491)

- Dimensions & Weights are representative figures and may vary ± 5%

Fire Survival Cables

300/500V Rubber Insulated, LSZH Sheathed, Screened Fire Resistant Cables

Standard	BS 7629-1 Latest
Voltage	300/500V
Conductor	Annealed Circular Copper conductor Class 2 as per EN 60228
Tape Over Conductor to meet fire restant requirement	2 layer of glass mica tape
Insulation	Type EI 2 conforming to BS EN 50363-1 or type EI 5 conforming to BS EN 50363-5,
Core Identification	2-core + uninsulated CPC - Brown, Blue or Brown, Brown
	3-core + uninsulated CPC - Brown, Black, Grey
	4-core + uninsulated CPC - Blue, Brown, Black, Grey
Screen	Aluminium Mylar tape with Tinned Copper drain Wire
Circuit Protective Conductor	Uninsulated annealed circular copper conductor Class 2 as per EN 60228
Sheath	LSZH Type LTS 3 as per BS 7655-6.1
Color of Outer Sheath	Black
Temperature limits	-15°C to + 90°C
Short Circuit Temperature	250°C
Minimum Bending Radius	15 times Overall diameter

Should not be installed at temperatures below 0°C

Nominal Cross Section (Core x mm2)	Nominal Insulation Thickness (mm)	CPC Nominal Cross-sectional Area mm2	Nominal Sheath Thickness (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20˚C (Ω/km)
2 x 1	0.6	1.0	0.9	8.0	18.1
2 x 1.5	0.7	1.5	0.9	8.5	12.1
2 x 2.5	0.8	2.5	1.0	10.5	7.4
2 x 4	0.8	4.0	1.1	12.5	4.6
3 x 1.5	0.7	1.5	0.9	9.5	12.1
3 x 2.5	0.8	2.5	1.0	11.5	7.4
3 x 4	0.8	4.0	1.1	13.5	4.6
4 x 1.5	0.7	1.5	1.0	10.5	12.1
4 x 2.5	0.8	2.5	1.1	12.0	7.4
4 x 4	0.8	4.0	1.2	15.0	4.6

• Dimensions & Weights are representative figures and may vary ± 5%

Wires

450/750 V, Single Core PVC Insulated Non-Sheathed General Purpose Cables (Type H07V-U)

Standard	BS EN 50525-2-31 : 2011
Voltage	450/750 V
Code	H07V-U
Conductor	Solid Copper Class 1 as per EN 60228
Insulation	PVC TI 1 as per EN 50363-3
Colour	Green/yellow, blue or other colours
Temperature Limits	-15°C to + 70°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C.

Number and nominal cross-sectional area of conductors (mm2)	Class of conductor (EN60228)	Thickness of insulation (mm)	Mean overall diameter		Max. DC Resistance at 20° C (Ω/km)
			Lower limit (mm)	Upper limit (mm)	
1 x 1.5	1	0.7	2.6	3.2	12.1
1 x 2.5	1	0.8	3.2	3.9	7.41
1 x 4	1	0.8	3.6	4.4	4.61
1 x 6	1	0.8	4.1	5	3.08
1 x 10	1	1.0	5.3	6.4	1.83

Wires

450/750 V, Single Core PVC Insulated Non-Sheathed General Purpose Cables (Type H07V-R)

Standard	BS EN 50525-2-31 : 2011
Voltage	450/750 V
Code	H07V-R
Conductor	Stranded Copper Class 2 as per EN 60228
Insulation	PVC TI 1 as per EN 50363-3
Colour	Green/yellow, blue or other colours
Temperature Limits	-15°C to + 70°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C.

Number and nominal cross-sectional area of conductors (mm2)	Class of conductor (EN60228)	Thickness of insulation (mm)	Mean overall diameter		Max. DC Resistance at 20˚C (Ω/km)
			Lower limit (mm)	Upper limit (mm)	
1 x 1.5	2	0.7	2.7	3.3	12.1
1 x 2.5	2	0.8	3.3	4.0	7.41
1 x 4	2	0.8	3.8	4.6	4.61
1 x 6	2	0.8	4.3	5.2	3.08
1 x 10	2	1.0	5.6	6.7	1.83
1 x 16	2	1.0	6.4	7.8	1.15
1 x 25	2	1.2	8.1	9.7	0.727
1 x 35	2	1.2	9.0	10.9	0.524
1 x 50	2	1.4	10.6	12.8	0.387
1 x 70	2	1.4	12.1	14.6	0.268
1 x 95	2	1.6	14.1	17.1	0.193
1 x 120	2	1.6	15.6	18.8	0.153
1 x 150	2	1.8	17.3	20.9	0.124
1 x 185	2	2.0	19.3	23.3	0.0991
1 x 240	2	2.2	22.0	26.6	0.0754
1 x 300	2	2.4	24.5	29.6	0.0601
1 x 400	2	2.6	27.5	33.2	0.047
1 x 500	2	2.8	30.5	36.9	0.0366
1 x 630	2	2.8	34.0	41.1	0.0283
1 x 800	2	2.8	37.8	45.7	0.0221
1 x 1000	2	3.0	42.1	51.0	0.0176

• Dimensions & Weights are representative figures and may vary ± 5%

Wire

450/750 V, Single Core PVC Insulated Non-Sheathed General Purpose Flexible Cables (Type H07V-K)

Standard	BS EN 50525-2-31 : 2011
Voltage	450/750 V
Code	H07V-K
Conductor	Flexible Copper Class 5 as per EN 60228
Insulation	PVC TI 1 as per EN 50363-3
Colour	Green/yellow, blue or other colours
Temperature Limits	-15°C to + 70°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C.

Number and nominal cross-sectional area of conductors (mm2)	Class of conductor (EN60228)	Thickness of insulation (mm)	Mean overall diameter		Max. DC Resistance at 20° C (Ω/km)
			Lower limit (mm)	Upper limit (mm)	
1 x 1.5	5	0.7	2.8	3.4	13.3
1 x 2.5	5	0.8	3.4	4.1	7.98
1 x 4	5	0.8	3.9	4.8	4.95
1 x 6	5	0.8	4.4	5.3	3.3
1 x 10	5	1.0	5.7	6.8	1.91
1 x 16	5	1.0	6.7	8.1	1.21
1 x 25	5	1.2	8.4	10.2	0.78
1 x 35	5	1.2	9.7	11.7	0.554
1 x 50	5	1.4	11.5	13.9	0.386
1 x 70	5	1.4	13.2	16.0	0.272
1 x 95	5	1.6	15.1	18.2	0.206
1 x 120	5	1.6	16.7	20.2	0.161
1 x 150	5	1.8	18.6	22.5	0.129
1 x 185	5	2.0	20.6	24.9	0.106
1 x 240	5	2.2	23.5	28.4	0.0801

Wire

600/1000V Single Core PVC Insulated Tri-Rated Flexible Panel Board Wires - 105°C

Standard	BS 6231:2006
Voltage	600/1000V
Conductor	Flexible Copper Class 5 as per EN 60228
Insulation	PVC TI 3 as per EN 50363-3
Colour	Red, Yellow, Blue, Black, Grey and Green /Yellow
Temperature Limits	-15°C to + 105°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C.

Number and nominal cross-sectional area of conductors (mm2)	Class of conductor (EN60228)	Thickness of insulation (mm)	Mean overall diameter		Max. DC Resistance at 20˚C (Ω/km)	Current Rating in Amps at 45˚C
			Lower limit (mm)	Upper limit (mm)		
1 x 0.5	5	0.8	2.4	3.0	39	11
1 x 0.75	5	0.8	2.6	3.1	26	14
1 x 1.0	5	0.8	2.7	3.3	19.5	17
1 X 1.5	5	0.8	3.0	3.6	13.3	21
1 X 2.5	5	0.8	3.4	4.1	7.98	30
1 X 4	5	0.8	3.9	4.8	4.95	41
1 X 6	5	0.8	4.4	5.3	3.3	53
1 X 10	5	1.0	5.7	7.2	1.91	75
1 x 16	5	1.0	6.7	9.0	1.21	100
1 x 25	5	1.2	8.4	11.5	0.78	136
1 x 35	5	1.2	9.7	12.5	0.554	167
1 x 50	5	1.4	11.5	15.4	0.386	204
1 x 70	5	1.4	13.2	17.5	0.272	259
1 x 95	5	1.6	15.1	19.2	0.206	321
1 x 120	5	1.6	16.7	21.2	0.161	374
1 x 150	5	1.8	18.6	23.9	0.129	429
1 x 185	5	2.0	20.6	25.9	0.106	496
1 x 240	5	2.2	23.5	28.9	0.0801	595

• Dimensions & Weights are representative figures and may vary ± 5%

Wire

300/500 V, PVC Insulated and Sheathed Flexible Cord (Type H05VV-F)

Standard	BS EN 50525-2-11
Voltage	300/500V
Code	H05VV-F
Conductor	Flexible Copper Class 5 as per EN 60228
Insulation	PVC TI 2 as per EN 50363-3
Core Identification	
2 Core	Brown, Blue
3 Core	Green/Yellow, Blue, Brown
4 Core	Green/Yellow, Black, Blue, Brown
5 Core	Green/Yellow, Blue, Brown, Black, Grey
Sheath	PVC TM 2 as per EN 50363-4-1
Temperature limits	-15°C to + 70°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C

Number and nominal cross-sectional area of conductors (mm2)	Class of conductor (EN60228)	Thickness of insulation (mm)	Thickness of sheath (mm)	Mean overall diameter		Max. DC Resistance at 20˚C (Ω/km)
				Lower limit (mm)	Upper limit (mm)	
Two Core Round						
0.75	5	0.6	0.8	5.7	7.2	26
1	5	0.6	0.8	5.9	7.5	19.5
1.5	5	0.7	0.8	6.8	8.6	13.3
2.5	5	0.8	1	8.4	10.6	7.98
4	5	0.8	1.1	9.7	12.1	4.95
Three Core Round						
0.75	5	0.6	0.8	6.0	7.6	26
1	5	0.6	0.8	6.3	8.0	19.5
1.5	5	0.7	0.9	7.4	9.4	13.3
2.5	5	0.8	1.1	9.2	11.4	7.98
4	5	0.8	1.2	10.5	13.1	4.95
Four Core Round						
0.75	5	0.6	0.8	6.6	8.3	26
1	5	0.6	0.9	7.1	9.0	19.5
1.5	5	0.7	1.0	8.4	10.5	13.3
2.5	5	0.8	1.1	10.1	12.5	7.98
4	5	0.8	1.2	11.5	14.3	4.95
Five Core Round						
0.75	5	0.6	0.9	7.4	9.3	26
1	5	0.6	0.9	7.8	9.8	19.5
1.5	5	0.7	1.1	9.3	11.6	13.3
2.5	5	0.8	1.2	11.2	13.9	7.98
4	5	0.8	1.4	13.0	16.1	4.95

- Dimensions & Weights are representative figures and may vary ± 5%

Wire

300/300 V, PVC Insulated and Sheathed Flexible Cord (Type H03VV-F)

Standard	BS EN 50525-2-11
Voltage	300/300V
Code	H03VV-F
Conductor	Flexible Copper Class 5 as per EN 60228
Insulation	PVC TI 2 as per EN 50363-3
Core Identification	
2 Core	Brown, Blue
3 Core	Green/Yellow, Blue, Brown
4 Core	Green/Yellow, Black, Blue, Brown
Sheath	PVC TM 2 as per EN 50363-4-1
Temperature limits	-15°C to + 70°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C

Number and nominal cross-sectional area of conductors (mm2)	Class of conductor (EN60228)	Thickness of insulation (mm)	Thickness of sheath (mm)	Mean overall diameter		Max. DC Resistance at 20˚C (Ω/km)
				Lower limit (mm)	Upper limit (mm)	
Two Core Round						
0.5	5	0.5	0.6	4.6	5.9	39
0.75	5	0.5	0.6	4.9	6.3	26
Three Core Round						
0.5	5	0.5	0.6	4.9	6.3	39
0.75	5	0.5	0.6	5.2	6.7	26
Four Core Round						
0.5	5	0.5	0.6	5.4	6.9	39
0.75	5	0.5	0.6	5.7	7.3	26

• Dimensions & Weights are representative figures and may vary ± 5%

Wire

300/500 V, PVC Insulated and Sheathed with circuit protective conductor (CPC), Flat Twin Cable (Type 6242Y)

Standard	BS 6004:2012+A1:2020
Voltage	300/500V
Code	6242Y
Conductor	Annealed copper conductor, Class 1 and Class 2 as per EN 60228
Insulation	PVC TI 1 as per EN 50363-3
Core Identification	Brown, Blue
Sheath	PVC Type 6 as per EN 50363-4-1
Color of Outer Sheath	Grey
Position of CPC	Centrally placed between cores in same plane
Temperature limits	-15°C to + 70°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C

Note:

If required this cable can be offered without CPC. The cable type shall be 6192Y as per BS 6004:2012+A1:2020

Number and nominal cross-sectional area of conductors (mm2)	Class of conductor (EN60228)	Thickness of insulation (mm)	Thickness of sheath (mm)	Mean overall dimensions (maximum)	CPC minimum nominal cross sectional area (mm2)	Class of CPC (EN 60228)	Max. DC Resistance at 20° C (Ω/km)
2 × 1.0	1	0.6	0.9	4.8 × 8.7	1	1	18.1
2 × 1.5	1	0.7	0.9	5.3 × 9.7	1	1	12.1
2 × 2.5	1	0.8	1.0	6.2 × 11.7	1.5	1	7.41
2 × 4.0	2	0.8	1.0	6.9 × 13.1	1.5	1	4.61
2 × 6.0	2	0.8	1.1	7.8 × 15.0	2.5	1	3.08
2 × 10	2	1.0	1.2	9.5 × 18.9	4	2	1.83
2 × 16	2	1.0	1.3	10.8 × 21.9	6	2	1.15

Wire

300/500 V, PVC Insulated and Sheathed with circuit protective conductor (CPC), Flat 3-core cable (Type 6243Y)

Standard	BS 6004:2012+A1:2020
Voltage	300/500V
Code	6243Y
Conductor	Annealed copper conductor, Class 1 and Class 2 as per EN 60228
Insulation	PVC TI 1 as per EN 50363-3
Core Identification	Brown, Black (centre core), and Grey
Sheath	PVC Type 6 as per EN 50363-4-1
Color of Outer Sheath	Grey
Position of CPC	Centrally placed between black and grey cores in same plane
Temperature limits	-15°C to + 70°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C

Note:

If required this cable can be offered without CPC. The cable type shall be 6193Y as per BS 6004:2012+A1:2020

Number and nominal cross-sectional area of conductors (mm2)	Class of conductor (EN60228)	Thickness of insulation (mm)	Thickness of sheath (mm)	Mean overall dimensions (maximum)	CPC minimum nominal cross sectional area (mm2)	Class of CPC (EN 60228)	Max. DC Resistance at 20˚C (Ω/km)
3 × 1.0	1	0.6	0.9	4.8 × 11.4	1	1	18.1
3 × 1.5	1	0.7	0.9	5.3 × 12.9	1	1	12.1
3 × 2.5	1	0.8	1.0	6.2 × 15.3	1.5	1	7.41
3 × 4.0	2	0.8	1.1	7.1 × 17.9	1.5	1	4.61
3 × 6.0	2	0.8	1.1	7.8 × 20.2	2.5	1	3.08
3 × 10	2	1.0	1.2	9.5 × 25.7	4	2	1.83
3 × 16	2	1.0	1.3	10.8 × 29.7	6	2	1.15

Wire

300/500 V, Thermosetting Insulated and Sheathed with circuit protective conductor (CPC) , Flat Twin Cable (Type 6242B)

Standard	BS 7211:2012+A1:2020
Voltage	300/500V
Code	6242B
Conductor	Annealed copper conductor, Class 1 and Class 2 as per EN 60228
Insulation	Thermosetting insulation Type EI 5 as per BS EN 50363-5
	Thermosetting insulation Type GP 8 as per BS 7655-1.3
Core Identification	Brown, Blue
Sheath	Synthetic sheath Type LTS2 as per BS 7655-6.1
Color of Outer Sheath	White
Position of CPC	Centrally placed between cores in same plane
Temperature limits	-15°C to + 90°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C

Note:

If required this cable can be offered without CPC. The cable type shall be 6192Y as per BS 6004:2012+A1:2020

Number and nominal cross-sectional area of conductors (mm2)	Class of conductor (EN60228)	Thickness of insulation (mm)	Thickness of sheath (mm)	Mean overall dimensions (maximum)	CPC minimum nominal cross sectional area (mm2)	Class of CPC (EN 60228)	Max. DC Resistance at 20°C (Ω/km)
2 × 1.0	1	0.7	0.9	5.0 × 9.2	1	1	18.1
2 × 1.5	1	0.7	0.9	5.3 × 9.7	1	1	12.1
2 × 2.5	1	0.7	1.0	6.0 × 11.2	1.5	1	7.41
2 × 4.0	2	0.7	1.0	6.7 × 12.6	1.5	1	4.61
2 × 6.0	2	0.7	1.1	7.5 × 14.6	2.5	1	3.08
2 × 10	2	0.7	1.2	8.8 × 17.5	4	2	1.83
2 × 16	2	0.7	1.3	10.1 × 20.5	6	2	1.15

Wire

300/500 V, Thermosetting Insulated and Sheathed with circuit protective conductor (CPC), Flat 3-core cable (Type 6243B)

Standard	BS 7211:2012+A1:2020
Voltage	300/500V
Code	6243B
Conductor	Annealed copper conductor, Class 1 and Class 2 as per EN 60228
Insulation	Thermosetting insulation Type EI 5 as per BS EN 50363-5
	Thermosetting insulation Type GP 8 as per BS 7655-1.3
Core Identification	Brown, Black (centre core), and Grey
Sheath	Synthetic sheath Type LTS2 as per BS 7655-6.1
Color of Outer Sheath	White
Position of CPC	Centrally placed between cores in same plane
Temperature limits	-15°C to + 90°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C

Note:

If required this cable can be offered without CPC. The cable type shall be 6193Y as per BS 6004:2012+A1:2020

Number and nominal cross-sectional area of conductors (mm2)	Class of conductor (EN60228)	Thickness of insulation (mm)	Thickness of sheath (mm)	Mean overall dimensions (maximum)	CPC minimum nominal cross sectional area (mm2)	Class of CPC (EN 60228)	Max. DC Resistance at 20°C (Ω/km)
3 × 1.0	1	0.7	0.9	5.0 × 12.1	1.0	1	18.1
3 × 1.5	1	0.7	0.9	5.3 × 12.9	1.0	1	12.1
3 × 2.5	1	0.7	1.0	6.0 × 14.6	1.5	1	7.41
3 × 4.0	2	0.7	1.0	6.7 × 16.9	1.5	1	4.61
3 × 6.0	2	0.7	1.1	7.5 × 19.5	2.5	1	3.08
3 × 10	2	0.7	1.2	8.8 × 23.6	4.0	2	1.83
3 × 16	2	0.7	1.3	10.1 × 27.6	6.0	2	1.15

Wires

450/750 V, Single Core PVC Insulated Non-Sheathed General Purpose Cables (Type 60227 IEC 01)

Standard	IEC 60227-3
Voltage	450/750 V
Code Designation	60227 IEC 01
Conductor	Solid Copper Class 1 as per IEC 60228
Insulation	Polyvinl chloride compound of type PVC/C
Color	Green/yellow, blue or other colours
Temperature limits	-15°C to + 70°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C

Number and nominal cross-sectional area of conductors (mm2)	Class of conductor (EN60228)	Thickness of insulation (mm)	Mean overall diameter		Max. DC Resistance at 20°C (Ω/km)
			Lower limit (mm)	Upper limit (mm)	
1 x 1.5	1	0.7	2.6	3.2	12.1
1 x 2.5	1	0.8	3.2	3.9	7.41
1 x 4	1	0.8	3.6	4.4	4.61
1 x 6	1	0.8	4.1	5	3.08
1 x 10	1	1.0	5.3	6.4	1.83

Wires

450/750 V, Single Core PVC Insulated Non-Sheathed General Purpose Cables (Type 60227 IEC 01)

Standard	IEC 60227-3
Voltage	450/750 V
Code Designation	60227 IEC 01
Conductor	Stranded Copper Class 2 as per EN 60228
Insulation	Polyvinl chloride compound of type PVC/C
Color	Green/yellow, blue or other colours
Temperature limits	-15°C to + 70°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C

Number and nominal cross-sectional area of conductors (mm2)	Class of conductor (EN60228)	Thickness of insulation (mm)	Mean overall diameter		Max. DC Resistance at 20°C (Ω/km)
			Lower limit (mm)	Upper limit (mm)	
1 x 1.5	2	0.7	2.7	3.3	12.1
1 x 2.5	2	0.8	3.3	4.0	7.41
1 x 4	2	0.8	3.8	4.6	4.61
1 x 6	2	0.8	4.3	5.2	3.08
1 x 10	2	1.0	5.6	6.7	1.83
1 x 16	2	1.0	6.4	7.8	1.15
1 x 25	2	1.2	8.1	9.7	0.727
1 x 35	2	1.2	9.0	10.9	0.524
1 x 50	2	1.4	10.6	12.8	0.387
1 x 70	2	1.4	12.1	14.6	0.268
1 x 95	2	1.6	14.1	17.1	0.193
1 x 120	2	1.6	15.6	18.8	0.153
1 x 150	2	1.8	17.3	20.9	0.124
1 x 185	2	2.0	19.3	23.3	0.0991
1 x 240	2	2.2	22.0	26.6	0.0754
1 x 300	2	2.4	24.5	29.6	0.0601
1 x 400	2	2.6	27.5	33.2	0.047

• Dimensions & Weights are representative figures and may vary ± 5%

Wires

450/750 V, Single Core PVC Insulated Non-Sheathed General Purpose Flexible Cables (Type 60227 IEC 02)

Standard	IEC 60227-3
Voltage	450/750 V
Code Designation	60227 IEC 02
Conductor	Flexible Copper Class 5 as per EN 60228
Insulation	Polyvinl chloride compound of type PVC/C
Color	Green/yellow, blue or other colours
Temperature limits	-15°C to + 70°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C

Number and nominal cross-sectional area of conductors (mm2)	Class of conductor (EN60228)	Thickness of insulation (mm)	Mean overall diameter		Max. DC Resistance at 20°C (Ω/km)
			Lower limit (mm)	Upper limit (mm)	
1 x 1.50	5	0.7	2.8	3.4	13.3
1 x 2.50	5	0.8	3.4	4.1	7.98
1 x 4	5	0.8	3.9	4.8	4.95
1 x 6	5	0.8	4.4	5.3	3.3
1 x 10	5	1.0	5.7	6.8	1.91
1 x 16	5	1.0	6.7	8.1	1.21
1 x 25	5	1.2	8.4	10.2	0.78
1 x 35	5	1.2	9.7	11.7	0.554
1 x 50	5	1.4	11.5	13.9	0.386
1 x 70	5	1.4	13.2	16.0	0.272
1 x 95	5	1.6	15.1	18.2	0.206
1 x 120	5	1.6	16.7	20.2	0.161
1 x 150	5	1.8	18.6	22.5	0.129
1 x 185	5	2.0	20.6	24.9	0.106
1 x 240	5	2.2	23.5	28.4	0.0801

• Dimensions & Weights are representative figures and may vary ± 5%

Wires

0.6/1 kV, Single Core Stranded Conductor PVC V-90 Insulated Non-Sheathed General Purpose Cables

Standard	AS/NZS 5000.1 Latest
Voltage	0.6/1 kV
Conductor	Stranded Copper Class 2 as per EN 60228
Insulation	PVC V-90
Color	Green/yellow
Temperature limits	-15°C to + 90°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C

Number and nominal cross-sectional area of conductors (mm2)	Thickness of insulation (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20˚ C (Ω/km)
1 x 1.5	0.8	3.3	12.1
1 x 2.5	0.8	3.7	7.41
1 x 4	1	4.6	4.61
1 x 6	1	5.2	3.08
1 x 10	1.0	6.1	1.83
1 x 16	1.0	6.8	1.15
1 x 25	1.2	8.4	0.727
1 x 35	1.2	9.5	0.524
1 x 50	1.4	11.0	0.387
1 x 70	1.4	12.6	0.268
1 x 95	1.6	14.7	0.193
1 x 120	1.6	16.2	0.153
1 x 150	1.8	18.1	0.124
1 x 185	2.0	20.1	0.0991
1 x 240	2.2	22.8	0.0754
1 x 300	2.4	25.4	0.0601
1 x 400	2.6	28.5	0.047
1 x 500	2.8	32.5	0.0366
1 x 630	2.8	36.5	0.0283

• Dimensions & Weights are representative figures and may vary ± 5%

Wires

0.6/1 kV, Single Core Flexible conductor PVC V-90 Insulated Non-Sheathed General Purpose Cables

Standard	AS/NZS 5000.1 Latest
Voltage	0.6/1 kV
Conductor	Flexible Copper Class 5 as per EN 60228
Insulation	PVC V-90
Color	Green/yellow
Temperature limits	-15°C to + 90°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C

Number and nominal cross-sectional area of conductors (mm2)	Thickness of insulation (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20˚C (Ω/km)
1 x 1.5	0.8	3.3	13.3
1 x 2.5	0.8	3.8	7.98
1 x 4	1.0	4.7	4.95
1 x 6	1.0	5.3	3.3
1 x 10	1.0	6.2	1.91
1 x 16	1.0	7.3	1.21
1 x 25	1.2	9.0	0.78
1 x 35	1.2	10.1	0.554
1 x 50	1.4	12.0	0.386
1 x 70	1.4	13.7	0.272
1 x 95	1.6	15.7	0.206
1 x 120	1.6	17.3	0.161
1 x 150	1.8	19.3	0.129
1 x 185	2.0	21.3	0.106
1 x 240	2.2	24.2	0.0801
1 x 300	2.4	27.1	0.0641
1 x 400	2.6	31.0	0.0486
1 x 500	2.8	34.8	0.0384
1 x 630	2.8	39.7	0.0287

- Dimensions & Weights are representative figures and may vary ± 5%

Wires

0.6/1 kV, Single Core Flexible conductor LSZH X-HF-110 Insulated Non-Sheathed General Purpose Cables

Standard	AS/NZS 5000.1 Latest
Voltage	0.6/1 kV
Conductor	Flexible Copper Class 5 as per EN 60228
Insulation	Cross linked LSZH X-HF-110
Color	Green/yellow
Temperature limits	-15°C to + 110°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C

Number and nominal cross-sectional area of conductors (mm2)	Thickness of insulation (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1 x 0.5	0.7	2.5	39
1 x 0.75	0.7	2.8	26
1 x 1.0	0.7	2.9	19.5
1 x 1.5	0.7	3.1	13.3
1 x 2.5	0.7	3.6	7.98
1 x 4	0.7	4.1	4.95
1 x 6	0.7	4.7	3.3
1 x 10	0.7	5.6	1.91
1 x 16	0.7	6.7	1.21
1 x 25	0.9	8.4	0.78
1 x 35	0.9	9.5	0.554
1 x 50	1.0	11.2	0.386
1 x 70	1.1	13.1	0.272
1 x 95	1.1	14.6	0.206
1 x 120	1.2	16.4	0.161
1 x 150	1.4	18.4	0.129
1 x 185	1.6	20.5	0.106
1 x 240	1.7	23.2	0.0801
1 x 300	1.8	25.9	0.0641
1 x 400	2.0	29.7	0.0486

Wires

450/750V, Single Core Stranded Conductor PVC V-90 Insulated Non-Sheathed General Purpose Cables

Standard	AS/NZS 5000.2 Latest
Voltage	450/750V
Conductor	Stranded Copper Class 2 as per EN 60228
Insulation	PVC V-90
Colour	Green/yellow
Temperature Limits	-15°C to + 90°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C.

Number and nominal cross-sectional area of conductors (mm2)	Thickness of insulation (mm)	Approx. Overall Diameter (mm)	Max. DC Resistance at 20° C (Ω/km)
1 x 1.5	0.6	2.9	12.1
1 x 2.5	0.7	3.5	7.41
1 x 4	0.8	4.2	4.61
1 x 6	0.8	4.8	3.08
1 x 10	1.0	6.1	1.83
1 x 16	1.0	6.8	1.15

THHN

600V, Copper, PVC Insulation/ Nylon Sheath THHN/THWN-2.

Standard	UL 83
Conductor	Stranded Class B Copper conductor
Insulation	Thermoplastic PVC insulation
Jacket	Polyamide Nylon
Operating Temperature	THHN - Dry locations not to exceed 90°C
	THWN-2 - Wet or dry locations not to exceed 90° C or locations not to exceed 75°C when exposed to oil
Minimum Bending Radius	D - Overall diameter of the cable
	1.00 inch and less - 4D
	1.01 to 2.0 inch - 5D
	2.01 inch and over - 6D

Conductor Size	Insulation Thickness mil	Jacket Thickness	Approx. Overall Diameter	Allowable Ampacity		DC Resistance of conductor
AWG/ kcmil	mil	mil	inch	At 75°C Amp	At 90°C Amp	ohm/1000ft
14	15	4	0.116	20	25	2.62
12	15	4	0.135	25	30	1.65
10	20	4	0.170	35	40	1.04
8	30	5	0.203	50	55	0.653
6	30	5	0.261	65	75	0.411
4	40	6	0.332	85	95	0.259
3	40	6	0.360	100	115	0.205
2	40	6	0.392	115	130	0.163
1	50	7	0.455	130	145	0.130
1/0	50	7	0496	150	170	0.102
2/0	50	7	0.542	175	195	0.0811
3/0	50	7	0.593	200	225	0.0643
4/0	50	7	0.651	230	260	0.0510
250	60	8	0.721	255	290	0.0432
300	60	8	0.776	285	320	0.0360
350	60	8	0.827	310	350	0.0308
400	60	8	0.874	335	380	0.0270
500	60	8	0.959	380	430	0.0216
600	70	9	1.060	420	475	0.0180
700	70	9	1.133	460	520	0.0154
750	70	9	1.167	475	535	0.0144
800	70	9	1.200	490	555	0.0135
900	70	9	1.263	520	585	0.0120
1000	70	9	1.321	545	615	0.0108

• Dimensions & Weights are representative figures and may vary ± 5%

XHHW

600V, Copper, XLPE Insulation XHHW-2

Standard	UL 44
Conductor	Class B Stranded copper conductor as per ASTM B3 & ASTM B8
Insulation	Cross Linked Polyethylene (XLPE) Type XHHW -2
Operating Temperature	Wet or dry locations not to exceed 90°C
Minimum Bending Radius	D - Overall diameter of the cabl
	1.00 inch and less - 4D
	1.01 to 2.0 inch - 5D
	2.01 inch and over - 6D

Conductor Size	Nominal Insulation Thickness	Approx. Overall Diameter	Allowable Ampacity		DC Resistance of conductor
AWG/ kcmil	mil	inch	At 75°C Amp	At 90°C Amp	ohm/1000ft
14	30	0.14	20	25	2.62
12	30	0.16	25	30	1.65
10	30	0.18	35	40	1.04
8	45	0.24	50	55	0.653
6	45	0.28	65	75	0.411
4	45	0.33	85	95	0.259
3	45	0.36	100	115	0.205
2	45	0.40	115	130	0.163
1	55	0.46	130	145	0.130
1/0	55	0.49	150	170	0.102
2/0	55	0.53	175	195	0.0811
3/0	55	0.59	200	225	0.0643
4/0	55	0.64	230	260	0.0510
250	65	0.71	255	290	0.0432
300	65	0.77	285	320	0.0360
350	65	0.82	310	350	0.0308
400	65	0.86	335	380	0.0270
500	65	0.95	380	430	0.0216
600	80	1.03	420	475	0.0180
700	80	1.13	460	520	0.0154
750	80	1.17	475	535	0.0144
800	80	1.20	490	555	0.0135
900	80	1.26	520	585	0.0120
1000	80	1.32	545	615	0.0108

• Dimensions & Weights are representative figures and may vary ± 5%

Rubber

300/500 V, Single Core Solid conductor Silicon Rubber Insulated Non-Sheathed Heat Resistant Cables for Fixed Wiring

Standard	BS EN 50525-2-41:2011
Voltage	300/500 V
Code	H05S-U
Conductor	Tinned Solid Copper Class 1 as per EN 60228
Insulation	Cross-linked elastomeric compound of Type EI 2 as per EN 50363-1
Colour	Black, blue or other colours
Maximum operating temperature	180°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C

Number and nominal cross-sectional area of conductors (mm2)	Class of conductor (EN60228)	Thickness of insulation (mm)	Mean overall diameter		Max. DC Resistance at 20˚C (Ω/km)
			Lower limit (mm)	Upper limit (mm)	
0.50	1	0.8	2.3	2.9	36.7
0.75	1	0.8	2.4	3.1	24.8
1.00	1	0.8	2.6	3.2	18.2
1.50	1	0.9	3.0	3.8	12.2
2.50	1	1.0	3.6	4.5	7.56

300/500 V, Single Core Flexible conductor Silicon Rubber Insulated Non-Sheathed Heat Resistant Cables for Fixed Wiring

Standard	BS EN 50525-2-41:2011
Voltage	300/500 V
Code	H05S-K
Conductor	Tinned Flexible Copper Class 5 as per EN 60228
Insulation	Cross-linked elastomeric compound of Type EI 2 as per EN 50363-1
Colour	Black, blue or other colours
Maximum operating temperature	180°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C

Number and nominal cross-sectional area of conductors (mm2)	Class of conductor (EN60228)	Thickness of insulation (mm)	Mean overall diameter		Max. DC Resistance at 20˚C (Ω/km)
			Lower limit (mm)	Upper limit (mm)	
0.50	5	0.8	2.4	3.1	40.1
0.75	5	0.8	2.6	3.2	26.7
1.00	5	0.8	2.7	3.4	20
1.50	5	0.9	3.2	4.0	13.7
2.50	5	1.0	3.8	4.7	8.21

- Dimensions & Weights are representative figures and may vary ± 5%

Rubber

300/500 V, Single Core Flexible conductor Silicon Rubber Insulated Non-Sheathed Heat Resistant Cables for Internal Wiring

Standard	BS EN 50525-2-41:2011
Voltage	300/500 V
Code	H03S-K
Conductor	Tinned Flexible Copper Class 5 as per EN 60228
Insulation	Cross-linked elastomeric compound of Type EI 2 as per EN 50363-1
Color	Black, blue or other colours
Temperature limits	180°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C

Number and nominal cross-sectional area of conductors (mm2)	Class of conductor (EN60228)	Thickness of insulation (mm)	Mean overall diameter		Max. DC Resistance at 20°C (Ω/km)
			Lower limit (mm)	Upper limit (mm)	
0.50	5	0.6	2.0	2.7	40.1
0.75	5	0.6	2.1	2.8	26.7
1.00	5	0.6	2.2	3.0	20
1.50	5	0.7	2.8	3.6	13.7
2.50	5	0.8	3.3	4.3	8.21

300/500 V, Single Core Solid conductor Silicon Rubber Insulated Braided Cables for Fixed Wiring

Standard	BS EN 50525-2-41:2011
Voltage	300/500 V
Code	H05SJ-U
Conductor	Tinned Solid Copper Class 1 as per EN 60228
Insulation	Cross-linked elastomeric compound of Type EI 2 as per EN 50363-1
Outer Braid	Glass fibre braid
Color	Black, blue or other colours
Temperature limits	180°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C

Number and nominal cross-sectional area of conductors (mm2)	Class of conductor (EN60228)	Thickness of insulation (mm)	Mean overall diameter		Max. DC Resistance at 20°C (Ω/km)
			Lower limit (mm)	Upper limit (mm)	
1.0	1	0.6	2.8	3.5	18.2
1.5	1	0.7	3.2	4.0	12.2
2.5	1	0.8	3.8	4.7	7.56
4	1	0.8	4.2	5.3	4.7
6	1	0.8	4.7	5.9	3.11
10	1	1.0	6.0	7.4	1.84

- Dimensions & Weights are representative figures and may vary ± 5%

Rubber

300/500 V, Single Core Flexible conductor Silicon Rubber Insulated Braided Cables for Fixed Wiring

Standard	BS EN 50525-2-41:2011
Voltage	300/500 V
Code	H05SJ-K
Conductor	Tinned Flexible Copper Class 5 as per EN 60228
Insulation	Cross-linked elastomeric compound of Type EI 2 as per EN 50363-1
Outer Braid	Glass fibre braid
Colour	Black, blue or other colours
Maximum operating temperature	180°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C

Number and nominal cross-sectional area of conductors (mm2)	Class of conductor (EN60228)	Thickness of insulation (mm)	Mean overall diameter		Max. DC Resistance at 20˚C (Ω/km)
			Lower limit (mm)	Upper limit (mm)	
0.5	5	0.6	2.6	3.3	40.1
0.75	5	0.6	2.8	3.5	26.7
1.0	5	0.6	2.9	3.7	20
1.5	5	0.7	3.4	4.2	13.7
2.5	5	0.8	4.0	5.0	8.21
4	5	0.8	4.5	5.6	5.09
6	5	0.8	5.0	6.2	3.39
10	5	1.0	6.2	7.8	1.95
16	5	1.0	7.3	9.1	1.24
25	5	1.2	9.0	11.3	0.795
35	5	1.2	10.3	12.8	0.565
50	5	1.4	11.7	14.6	0.393
70	5	1.4	13.8	17.3	0.277
95	5	1.6	15.6	19.6	0.21

Rubber

300/500 V, Single Core Flexible conductor Silicon Rubber Insulated Sheathed Cables for Fixed Wiring

Standard	BS EN 50525-2-41:2011
Voltage	300/500 V
Code	H05SS-K
Conductor	Tinned Flexible Copper Class 5 as per EN 60228
Insulation	Cross-linked elastomeric compound of Type EI 2 as per EN 50363-1
Sheath	Crosslinked elastomeric compound of Type EM 9 to EN 50363-2-1
Colour	Black, blue or other colours
Maximum operating temperature	180°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C

Number and nominal cross-sectional area of conductors (mm2)	Thickness of insulation (mm)	Thickness of sheath (mm)	Mean overall diameter		Max. DC Resistance at 20˚C (Ω/km)
			Lower limit (mm)	Upper limit (mm)	
0.75	0.6	0.8	3.7	4.7	26.7
1.0	0.6	0.9	4.1	5.1	20
1.5	0.8	1.0	4.9	6.1	13.7
2.5	0.9	1.1	5.7	7.1	8.21

Rubber

450/750 V, Multi Core Flexible conductor Ethylene Propylene Rubber Ordinary Duty Cable

Standard	BS EN 50525-2-21:2011
Voltage	450/750 V
Code	H05RR-F
Conductor	Tinned Flexible Copper Class 5 as per EN 60228
Insulation	Cross-linked elastomeric compound of Type EI 4 as per EN 50363-1
Core Identification	Two core: Brown, Blue. Three-core: Brown, Black, Grey. Four-core: Blue, Brown, Black, Grey. Five-core: Green-and-yellow, Blue, Brown, Black, Grey.
Sheath	Crosslinked elastomeric compound of Type EM 3 to EN 50363-2-1
Colour	Black
Maximum operating temperature	60°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C

Other outer sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (mm2)	Thickness of insulation (mm)	Thickness of sheath (mm)	Mean overall diameter		Max. DC Resistance at 20°C (Ω/km)
			Lower limit (mm)	Upper limit (mm)	
2 x 0.75	0.6	0.8	5.7	7.4	26.7
2 x 1	0.6	0.9	6.1	8.0	20
2 x 1.5	0.8	1.0	7.6	9.8	13.7
2 x 2.5	0.9	1.1	9.0	11.6	8.21
2 x 4	1.0	1.2	10.6	13.7	5.09
3 x 0.75	0.6	0.9	6.2	8.1	26.7
3x 1	0.6	0.9	6.5	8.5	20
3 x 1.5	0.8	1.0	8.0	10.4	13.7
3 x 2.5	0.9	1.1	9.6	12.4	8.21
3 × 4	1.0	1.2	11.3	14.5	5.09
3 × 6	1.0	1.4	12.8	16.3	3.39
4 x 0.75	0.6	0.9	6.8	8.8	26.7
4 × 1	0.6	0.9	7.1	9.3	20
4 × 1.5	0.8	1.1	9.0	11.6	13.7
4 × 2.5	0.9	1.2	10.7	13.8	8.21
4 × 4	1.0	1.3	12.7	16.2	5.09
4 × 6	1.0	1.5	14.2	18.1	3.39
5 x 0.75	0.6	1.0	7.6	9.9	26.7
5 x 1	0.6	1.0	8.0	10.3	20
5 × 1.5	0.8	1.1	9.8	12.7	13.7
5 × 2.5	0.9	1.3	11.9	15.3	8.21
5 x 4	1.0	1.4	14.6	18.6	5.09

Rubber

450/750 V, Multi Core Flexible conductor Ethylene Propylene Rubber Insulated Ordinary Duty Cable

Standard	BS EN 50525-2-21:2011
Voltage	450/750 V
Code	H05RR-F
Conductor	Tinned Flexible Copper Class 5 as per EN 60228
Insulation	Cross-linked elastomeric compound of Type EI 4 as per EN 50363-1
Core Identification	Two core: Brown, Blue. Three-core: Brown, Black, Grey. Four-core: Blue, Brown, Black, Grey. Five-core: Green-and-yellow, Blue, Brown, Black, Grey.
Sheath	Crosslinked elastomeric compound of Type EM 3 to EN 50363-2-1
Colour	Black
Maximum operating temperature	60°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C

Other outer sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (mm2)	Thickness of insulation (mm)	Thickness of sheath (mm)	Mean overall diameter		Max. DC Resistance at 20°C (Ω/km)
			Lower limit (mm)	Upper limit (mm)	
2 x 0.75	0.6	0.8	5.7	7.4	26.7
2 x 1	0.6	0.9	6.1	8.0	20
2 x 1.5	0.8	1.0	7.6	9.8	13.7
2 x 2.5	0.9	1.1	9.0	11.6	8.21
2 x 4	1.0	1.2	10.6	13.7	5.09
3 x 0.75	0.6	0.9	6.2	8.1	26.7
3x 1	0.6	0.9	6.5	8.5	20
3 x 1.5	0.8	1.0	8.0	10.4	13.7
3 x 2.5	0.9	1.1	9.6	12.4	8.21
3 × 4	1.0	1.2	11.3	14.5	5.09
3 × 6	1.0	1.4	12.8	16.3	3.39
4 x 0.75	0.6	0.9	6.8	8.8	26.7
4 × 1	0.6	0.9	7.1	9.3	20
4 × 1.5	0.8	1.1	9.0	11.6	13.7
4 × 2.5	0.9	1.2	10.7	13.8	8.21
4 × 4	1.0	1.3	12.7	16.2	5.09
4 × 6	1.0	1.5	14.2	18.1	3.39
5 x 0.75	0.6	1.0	7.6	9.9	26.7
5 x 1	0.6	1.0	8.0	10.3	20
5 × 1.5	0.8	1.1	9.8	12.7	13.7
5 × 2.5	0.9	1.3	11.9	15.3	8.21
5 x 4	1.0	1.4	14.6	18.6	5.09

• Dimensions & Weights are representative figures and may vary ± 5%

Rubber

450/750 V, Multi Core Flexible conductor Ethylene Propylene Rubber Insulated Ordinary Duty Cable

Standard	BS EN 50525-2-21:2011
Voltage	450/750 V
Code	H05RN-F
Conductor	Tinned Flexible Copper Class 5 as per EN 60228
Insulation	Cross-linked elastomeric compound of Type EI 4 as per EN 50363-1
Core Identification	Two core: Brown, Blue. Three-core: Brown, Black, Grey. Four-core: Blue, Brown, Black, Grey.
Sheath	Crosslinked elastomeric compound of Type EM 2 to EN 50363-2-1
Colour	Black
Maximum operating temperature	60°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C

Other outer sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (mm2)	Thickness of insulation (mm)	Thickness of sheath (mm)	Mean overall diameter		Max. DC Resistance at 20˚C (Ω/km)
			Lower limit (mm)	Upper limit (mm)	
2 x 0.75	0.6	0.8	5.7	7.4	26.7
2 x 1	0.6	0.9	6.1	8.0	20
3 x 0.75	0.6	0.9	6.2	8.1	26.7
3x 1	0.6	0.9	6.5	8.5	20
4 x 0.75	0.6	0.9	6.8	8.8	26.7
4 × 1	0.6	0.9	7.1	9.3	20

Rubber

450/750 V, Single Core Flexible conductor Ethylene Propylene Rubber Insulated Heavy Duty Cable

Standard	BS EN 50525-2-21:2011
Voltage	450/750 V
Code	H07RN-F
Conductor	Tinned Flexible Copper Class 5 as per EN 60228
Insulation	Cross-linked elastomeric compound of Type EI 4 as per EN 50363-1
Core Identification	Brown, Blue
Sheath	Crosslinked elastomeric compound of Type EM 2 to EN 50363-2-1
Colour	Black
Maximum operating temperature	60°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C

Other outer sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (mm2)	Thickness of insulation (mm)	Thickness of sheath (mm)	Mean overall diameter		Max. DC Resistance at 20°C (Ω/km)
			Lower limit (mm)	Upper limit (mm)	
1 x 1.5	0.8	1.4	5.7	7.1	13.7
1 x 2.5	0.9	1.4	6.3	7.9	8.21
1 × 4	1.0	1.5	7.2	9.0	5.09
1 x 6	1.0	1.6	7.9	9.8	3.39
1 x 10	1.2	1.8	9.5	11.9	1.95
1 x 16	1.2	1.9	10.8	13.4	1.24
1 x 25	1.4	2.0	12.7	15.8	0.795
1 x 35	1.4	2.2	14.3	17.9	0.565
1 x 50	1.6	2.4	16.5	20.6	0.393
1 x 70	1.6	2.6	18.6	23.3	0.277
1 × 95	1.8	2.8	20.8	26.0	0.21
1 x 120	1.8	3.0	22.8	28.6	0.164
1 x 150	2.0	3.2	25.2	31.4	0.132
1 x 185	2.2	3.4	27.6	34.4	0.108
1 x 240	2.4	3.5	30.6	38.3	0.0817
1 x 300	2.6	3.6	33.5	41.9	0.0654
1 x 400	2.8	3.8	37.4	46.8	0.0495
1 x 500	3.0	4.0	41.3	52.0	0.0391
1 x 630	3.0	4.1	45.5	57.0	0.0292

• Dimensions & Weights are representative figures and may vary ± 5%

Rubber

450/750 V, Multi Core Flexible conductor Ethylene Propylene Rubber Insulated Heavy Duty Cable

Standard	BS EN 50525-2-21:2011
Voltage	450/750 V
Code	H07RN-F
Conductor	Tinned Flexible Copper Class 5 as per EN 60228
Insulation	Cross-linked elastomeric compound of Type EI 4 as per EN 50363-1
Core Identification	Two core: Brown, Blue. Three-core: Brown, Black, Grey. Four-core: Blue, Brown, Black, Grey. Five-core: Green-and-yellow, Blue, Brown, Black, Grey.
Sheath	Crosslinked elastomeric compound of Type EM 2 to EN 50363-2-1
Colour	Black
Maximum operating temperature	60°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C

Other outer sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (mm2)	Thickness of insulation (mm)	Thickness of sheath (mm)	Mean overall diameter		Max. DC Resistance at 20°C (Ω/km)
			Lower limit (mm)	Upper limit (mm)	
2 x 1	0.8	1.3	7.7	10.0	20
2 x 1.5	0.8	1.5	8.5	11.0	13.7
2 x 2.5	0.9	1.7	10.2	13.1	8.21
2 × 4	1.0	1.8	11.8	15.1	5.09
2 × 6	1.0	2.0	13.1	16.8	3.39
2 x 10	1.2	3.1	17.7	22.6	1.95
2 x 16	1.2	3.3	20.2	25.7	1.24
2 × 25	1.4	3.6	24.3	30.7	0.795
2×35	1.4	3.8	27.2	34.3	0.565
2×50	1.6	4.2	31.6	39.8	0.393
2x 70	1.6	4.6	35.8	45.1	0.277
2×95	1.8	5.0	40.2	51.0	0.21
3 x 1	0.8	1.4	8.3	10.7	20
3 x 1.5	0.8	1.6	9.2	11.9	13.7
3 x 2.5	0.9	1.8	10.9	14.0	8.21
3 x 4	1.0	1.9	12.7	16.2	5.09
3 × 6	1.0	2.1	14.1	18.0	3.39
3 x 10	1.2	3.3	19.1	24.2	1.95
3 x 16	1.2	3.5	21.8	27.6	1.24
3 x 25	1.4	3.8	26.1	33.0	0.795
3 x 35	1.4	4.1	29.3	37.1	0.565
3 × 50	1.6	4.5	34.1	42.9	0.393
3 × 70	1.6	4.8	38.4	48.3	0.277
3 x 95	1.8	5.3	43.3	54.0	0.21
3 × 120	1.8	5.6	47.4	60.0	0.164
3 x 150	2.0	6.0	52.0	66.0	0.132
3 x 185	2.2	6.4	57.0	72.0	0.108

- Dimensions & Weights are representative figures and may vary ± 5%

Rubber

450/750 V, Multi Core Flexible conductor Ethylene Propylene Rubber Insulated Heavy Duty Cable

Number and nominal cross-sectional area of conductors (mm2)	Thickness of insulation (mm)	Thickness of sheath (mm)	Mean overall diameter		Max. DC Resistance at 20° C (Ω/km)
			Lower limit (mm)	Upper limit (mm)	
3 x 240	2.4	7.1	65.0	82.0	0.0817
3 x 300	2.6	7.7	72.0	90.0	0.0654
4 x 1	0.8	1.5	9.2	11.9	20
4 x 1.5	0.8	1.7	10.2	13.1	13.7
4 × 2.5	0.9	1.9	12.1	15.5	8.21
4 × 4	1.0	2.0	14.0	17.9	5.09
4 × 6	1.0	2.3	15.7	20.0	3.39
4 x 10	1.2	3.4	20.9	26.5	1.95
4 x 16	1.2	3.6	23.8	30.1	1.24
4 × 25	1.4	4.1	28.9	36.6	0.795
4 x 35	1.4	4.4	32.5	41.1	0.565
4 × 50	1.6	4.8	37.7	47.5	0.393
4 × 70	1.6	5.2	42.7	54.0	0.277
4 × 95	1.8	5.9	48.4	61.0	0.21
4 x 120	1.8	6.0	53.0	66.0	0.164
4 x 150	2.0	6.5	58.0	73.0	0.132
4 x 185	2.2	7.0	64.0	80.0	0.108
4 × 240	2.4	7.7	72.0	91.0	0.0817
4 × 300	2.6	8.4	80.0	101.0	0.0654
5 ×1	0,8	1,6	10,2	13,1	20
5 x 1,5	0,8	1,8	11,2	14,4	13.7
5 × 2,5	0,9	2,0	13,3	17,0	8.21
5 × 4	1,0	2,2	15,6	19,9	5.09
5 × 6	1,0	2,5	17,5	22,2	3.39
5 × 10	1,2	3,6	22,9	29,1	1.95
5 × 16	1,2	3,9	26,4	33,3	1.24
5 x 25	1,4	4,4	32,0	40,4	0.795
5 × 35	1,4	4,6	35,7	45,1	0.565
5 × 50	1,6	5,2	41,8	53.0	0.393
5×70	1,6	5,7	47,5	60.0	0.277
5 × 95	1,8	6,3	54.0	67.0	0.21

• Dimensions & Weights are representative figures and may vary ± 5%

Rubber

450/750 V, Multi Core Control Flexible Conductor Ethylene Propylene Rubber Insulated Heavy Duty Cable

Standard	BS EN 50525-2-21:2011
Voltage	450/750 V
Code	H07RN-F
Conductor	Tinned Flexible Copper Class 5 as per EN 60228
Insulation	Cross-linked elastomeric compound of Type EI 4 as per EN 50363-1
Core Identification	All cores white with black number printing
Sheath	Crosslinked elastomeric compound of Type EM 2 to EN 50363-2-1
Colour	Black
Maximum operating temperature	60°C
Minimum Bending Radius	8 times Overall diameter

Should not be installed at temperatures below 0°C

Other outer sheath colour can be provided as per the request.

Number and nominal cross-sectional area of conductors (mm2)	Thickness of insulation (mm)	Thickness of sheath (mm)	Mean overall diameter		Max. DC Resistance at 20˚C (Ω/km)
			Lower limit (mm)	Upper limit (mm)	
6 x 1.5	0.8	2.5	13.4	17.2	13.7
7 x 1.5	0.8	2.6	14.7	18.7	13.7
12 x 1.5	0.8	2.9	17.6	22.4	13.7
18 x 1.5	0.8	3.2	20.7	26.3	13.7
24 x 1.5	0.8	3.5	24.3	30.7	13.7
36 x 1.5	0.8	3.8	27.8	35.2	13.7
6 x 2.5	0.9	2.7	15.7	20.0	8.21
7 x 2.5	0.9	2.8	17.1	21.8	8.21
12 x 2.5	0.9	3.1	20.6	26.2	8.21
18 x 2.5	0.9	3.5	24.4	30.9	8.21
24 x 2.5	0.9	3.9	28.8	36.4	8.21
36 x 2.5	0.9	4.3	33.2	41.8	8.21
6 x 4	1.0	2.9	18.2	23.2	5.09
7 x 4	1.0	3.1	20.1	25.5	5.09
12 x 4	1.0	3.5	24.4	30.9	5.09
18 x 4	1.0	3.9	28.8	36.4	5.09

Solar

Photovoltaic Solar DC Cable, Halogen Free, Flame Retardant

Standard	BS EN 50618:2014
Voltage	1500 V DC (Max. 1800 V)
Conductor	Tinned Copper conductor Class 5 as per EN 60228
Insulation	E-Beam cross linked halogen free and flame-retardant compound (XLPO)
Sheath	E-Beam cross linked halogen free and flame-retardant compound (XLPO)
Insulation Identification	Natural
Sheath Colour	(-ve) Black & (+ve) Black with red Strip
Temperature limits	-40˚C to +120˚C
Minimum Bending Radius	4 times Overall diameter

Single Core Cross sectional Area (mm2)	Nominal insulation thickness (mm)	Nominal Sheath thickness (mm)	Mean Overall Diameter Upper Limit (mm)	Max. DC Resistance at 20˚ C (Ω/km)
1.5	0.7	0.8	5.4	13.7
2.5	0.7	0.8	5.9	8.21
4	0.7	0.8	6.6	5.09
6	0.7	0.8	7.2	3.39
10	0.7	0.8	8.3	1.95
16	0.7	0.9	9.8	1.24
25	0.9	1.0	12.2	0.795
35	0.9	1.1	14.0	0.565
50	1.0	1.1	16.3	0.393
70	1.1	1.2	18.7	0.277
95	1.1	1.3	20.8	0.210
120	1.2	1.3	22.8	0.164
150	1.4	1.4	25.5	0.132
185	1.6	1.6	28.5	0.108
240	1.7	1.7	32.1	0.0817

- Dimensions & Weights are representative figures and may vary ± 5%

Solar

Photovoltaic Solar DC Cable, Halogen Free Flame Retardant with Flexible Conductor

Standard	IEC 62930:2017
Voltage	1500 V DC (Max. 1800 V)
Conductor	Tinned Copper conductor Class 5 as per EN 60228
Insulation	E-Beam cross linked halogen free and flame-retardant compound (XLPO)
Sheath	E-Beam cross linked halogen free and flame-retardant compound (XLPO)
Insulation Identification	Natural
Sheath Colour	(-ve) Black & (+ve) Black with red Strip
Temperature limits	-40˚C to +120˚C
Minimum Bending Radius	4 times Overall diameter

Single Core Cross sectional Area (mm2)	Nominal insulation thickness (mm)	Nominal Sheath thickness (mm)	Mean Overall Diameter Upper Limit (mm)	Max. DC Resistance at 20˚ C (Ω/km)
1.5	0.7	0.8	5.4	13.7
2.5	0.7	0.8	5.9	8.21
4	0.7	0.8	6.6	5.09
6	0.7	0.8	7.2	3.39
10	0.7	0.8	8.3	1.95
16	0.7	0.9	9.8	1.24
25	0.9	1.0	12.2	0.795
35	0.9	1.1	14.0	0.565
50	1.0	1.1	16.3	0.393
70	1.1	1.2	18.7	0.277
95	1.1	1.3	20.8	0.210
120	1.2	1.3	23.0	0.164
150	1.4	1.4	25.7	0.132
185	1.6	1.6	28.7	0.108
240	1.7	1.7	32.3	0.0817
300	1.8	1.8	35.6	0.0654
400	2.0	2.0	40.6	0.0495

- Dimensions & Weights are representative figures and may vary ± 5%

Solar

Photovoltaic Solar DC Cable, Halogen Free, Flame Retardant with Stranded Conductor

Standard	IEC 62930:2017
Voltage	1500 V DC (Max. 1800 V)
Conductor	Tinned Copper conductor Class 2 as per EN 60228
Insulation	E-Beam cross linked halogen free and flame-retardant compound (XLPO)
Sheath	E-Beam cross linked halogen free and flame-retardant compound (XLPO)
Insulation Identification	Natural
Sheath Colour	(-ve) Black & (+ve) Black with red Strip
Temperature limits	-40˚C to +120˚C
Minimum Bending Radius	4 times Overall diameter

Single Core Cross sectional Area (mm2)	Nominal insulation thickness (mm)	Nominal Sheath thickness (mm)	Mean Overall Diameter Upper Limit (mm)	Max. DC Resistance at 20˚ C (Ω/km)
16	0.7	0.9	9.5	1.16
25	0.9	1.0	11.8	0.734
35	0.9	1.1	13.2	0.529
50	1.0	1.2	15.1	0.391
70	1.1	1.2	17.3	0.270
95	1.1	1.3	19.6	0.195
120	1.2	1.3	21.6	0.154
150	1.4	1.4	24.0	0.126
185	1.6	1.6	27.0	0.100
240	1.7	1.7	30.4	0.0762
300	1.8	1.8	33.5	0.0607
400	2.0	2.0	37.7	0.0475

• Dimensions & Weights are representative figures and may vary ± 5%

Current Carrying Capacity Of MV Cables

Current Rating for single core cables with XLPE Insulation - Rated Voltage 3.6/6 kV to 18/30 kV - Copper Conductor

Maximum conductor temperature	90°C
Ambient Air temperature	30°C
Ground temperature	20°C
Depth of Laying	0.8 m
Thermal resistivity of soil	1.5 K.m/W
Thermal resistivity of earthenware ducts	1.2 K.m/W

Screens bonded at both the ends

Nominal Area of conductor	Buried direct in the Ground		Insigle way Ducts		In Air		
	Trefoil	Flat Spaced	Trefoil Ducts	Flat Touching Ducts	Trefoil	Flat Touching	Flat Spaced
							
mm²	A	A	A	A	A	A	A
16	109	113	103	104	125	128	150
25	140	144	132	133	163	167	196
35	166	172	157	159	198	203	238
50	196	203	186	188	238	243	286
70	239	246	227	229	296	303	356
95	285	293	271	274	361	369	434
120	323	332	308	311	417	426	500
150	361	366	343	347	173	481	559
185	406	410	387	391	543	550	637
240	469	470	447	453	641	647	745
300	526	524	504	510	735	739	846
400	590	572	564	571	845	837	938

Current Carrying Capacity Of MV Cables

Current Rating for single core cables with XLPE Insulation - Rated Voltage 3.6/6 kV to 18/30 kV - Aluminium Conductor

Maximum conductor temperature	90°C
Ambient Air temperature	30°C
Ground temperature	20°C
Depth of Laying	0.8 m
Thermal resistivity of soil	1.5 K.m/W
Thermal resistivity of earthenware ducts	1.2 K.m/W
Screens bonded at both the ends	

Nominal Area of conductor	Buried direct in the Ground		Insigle way Ducts		In Air		
	Trefoil	Flat Spaced	Trefoil Ducts	Flat Touching Ducts	Trefoil	Flat Touching	Flat Spaced
							
mm²	A	A	A	A	A	A	A
16	84	88	80	81	97	99	116
25	108	112	102	103	127	130	153
35	129	134	122	123	154	157	185
50	152	157	144	146	184	189	222
70	186	192	176	178	230	236	278
95	221	229	210	213	280	287	338
120	252	260	240	242	324	332	391
150	281	288	267	271	368	376	440
185	317	324	303	307	424	432	504
240	367	373	351	356	502	511	593
300	414	419	397	402	577	586	677
400	470	466	451	457	673	676	769

Current Carrying Capacity Of MV Cables

Current Rating for single core cables with EPR Insulation - Rated Voltage 3.6/6 kV to 18/30 kV - Copper Conductor

Maximum conductor temperature	90°C
Ambient Air temperature	30°C
Ground temperature	20°C
Depth of Laying	0.8 m
Thermal resistivity of soil	1.5 K.m/W
Thermal resistivity of earthenware ducts	1.2 K.m/W
Screens bonded at both the ends	

Nominal Area of conductor	Buried direct in the Ground		Insigle way Ducts		In Air		
	Trefoil	Flat Spaced	Trefoil Ducts	Flat Touching Ducts	Trefoil	Flat Touching	Flat Spaced
							
mm²	A	A	A	A	A	A	A
16	106	109	99	100	116	119	138
25	136	140	128	129	153	156	181
35	162	167	153	154	186	190	221
50	192	198	181	183	224	229	266
70	234	242	222	224	280	287	334
95	280	289	266	269	343	352	409
120	319	329	303	306	398	407	474
150	357	369	341	344	454	465	540
185	403	417	386	390	522	534	621
240	467	484	449	454	619	634	736
300	526	545	509	515	712	728	843
400	597	618	580	588	825	843	977

Current Carrying Capacity Of MV Cables

Current Rating for single core cables with EPR Insulation - Rated Voltage 3.6/6 kV to 18/30 kV - Aluminium Conductor

Maximum conductor temperature	90°C
Ambient Air temperature	30°C
Ground temperature	20°C
Depth of Laying	0.8 m
Thermal resistivity of soil	1.5 K.m/W
Thermal resistivity of earthenware ducts	1.2 K.m/W

Screens bonded at both the ends

Nominal Area of conductor	Buried direct in the Ground		Insigle way Ducts		In Air		
	Trefoil	Flat Spaced	Trefoil Ducts	Flat Touching Ducts	Trefoil	Flat Touching	Flat Spaced
							
mm²	A	A	A	A	A	A	A
16	82	84	77	78	90	92	107
25	105	109	99	100	119	121	141
35	126	130	118	120	144	147	171
50	149	153	140	142	174	178	207
70	182	188	172	174	218	223	259
95	217	224	206	208	266	273	317
120	247	256	235	238	309	317	368
150	277	287	264	267	352	361	419
185	314	325	300	303	406	417	484
240	364	377	350	354	483	495	575
300	411	426	397	401	556	570	659
400	471	487	456	462	651	667	770

Current Carrying Capacity Of MV Cables

Current Rating for three-core cables with XLPE Insulated Cables - Rated Voltage 3.6/6 kV to 18/30 kV - Copper Conductor, armoured and unarmoured

Maximum conductor temperature	90°C
Ambient Air temperature	30°C
Ground temperature	20°C
Depth of Laying	0.8 m
Thermal resistivity of soil	1.5 K.m/W
Thermal resistivity of earthenware ducts	1.2 K.m/W

Nominal Area of conductor	Unarmoured			Armoured		
	Buried Direct in the Ground	In a buried duct	In Air	Buried Direct in the Ground	In a buried duct	In Air
						
mm²	A	A	A	A	A	A
16	101	87	109	101	88	110
25	129	112	142	129	112	143
35	153	133	170	154	134	172
50	181	158	204	181	158	205
70	221	193	253	220	194	253
95	262	231	304	263	232	307
120	298	264	351	298	264	352
150	334	297	398	332	296	397
185	377	336	455	374	335	453
240	434	390	531	431	387	529
300	489	441	606	482	435	599
400	553	501	696	541	492	683

Current Carrying Capacity Of MV Cables

Current Rating for three-core cables with XLPE Insulated Cables - Rated Voltage 3.6/6 kV to 18/30 kV - Aluminium Conductor, armoured and unarmoured

Maximum conductor temperature	90°C
Ambient Air temperature	30°C
Ground temperature	20°C
Depth of Laying	0.8 m
Thermal resistivity of soil	1.5 K.m/W
Thermal resistivity of earthenware ducts	1.2 K.m/W

Nominal Area of conductor	Unarmoured			Armoured		
	Buried Direct in the Ground	In a buried duct	In Air	Buried Direct in the Ground	In a buried duct	In Air
						
mm²	A	A	A	A	A	A
16	78	67	84	78	68	85
25	100	87	110	100	87	111
35	119	103	132	119	104	133
50	140	122	158	140	123	159
70	171	150	196	171	150	195
95	203	179	236	204	180	238
120	232	205	273	232	206	274
150	260	231	309	259	231	309
185	294	262	355	293	262	354
240	340	305	415	338	304	415
300	384	346	475	380	343	472
400	438	398	552	432	393	545

- Dimensions & Weights are representative figures and may vary ± 5%

Current Carrying Capacity Of MV Cables

Current Rating for three-core cables with EPR Insulated Cables - Rated Voltage 3.6/6 kV to 18/30 kV - Copper Conductor, armoured and unarmoured

Maximum conductor temperature	90°C
Ambient Air temperature	30°C
Ground temperature	20°C
Depth of Laying	0.8 m
Thermal resistivity of soil	1.5 K.m/W
Thermal resistivity of earthenware ducts	1.2 K.m/W

Nominal Area of conductor	Unarmoured			Armoured		
	Buried Direct in the Ground	In a buried duct	In Air	Buried Direct in the Ground	In a buried duct	In Air
						
mm²	A	A	A	A	A	A
16	98	84	104	98	85	104
25	125	109	135	125	109	136
35	150	130	164	150	131	164
50	176	154	195	177	155	197
70	216	189	243	216	190	244
95	258	227	296	257	227	296
120	292	258	339	292	259	339
150	328	291	385	327	291	385
185	371	330	441	368	328	439
240	429	384	519	424	381	513
300	482	434	590	475	429	583
400	545	494	678	534	485	666

• Dimensions & Weights are representative figures and may vary ± 5%

Current Carrying Capacity Of MV Cables

Current Rating for three-core cables with EPR Insulated Cables - Rated Voltage 3.6/6 kV to 18/30 kV - Aluminium Conductor, armoured and unarmoured

Maximum conductor temperature	90°C
Ambient Air temperature	30°C
Ground temperature	20°C
Depth of Laying	0.8 m
Thermal resistivity of soil	1.5 K.m/W
Thermal resistivity of earthenware ducts	1.2 K.m/W

Nominal Area of conductor	Unarmoured			Armoured		
	Buried Direct in the Ground	In a buried duct	In Air	Buried Direct in the Ground	In a buried duct	In Air
						
mm²	A	A	A	A	A	A
16	76	65	80	76	66	81
25	97	84	105	97	85	105
35	116	101	127	116	101	127
50	137	119	151	137	120	153
70	167	147	189	168	147	190
95	200	176	229	200	176	230
120	227	201	263	227	201	264
150	255	226	299	254	226	300
185	289	257	343	288	257	343
240	335	300	406	332	299	402
300	378	340	462	374	338	459
400	432	392	538	426	387	530

• Dimensions & Weights are representative figures and may vary ± 5%

Current Carrying Capacity Of MV Cables

Correction factors for ambient air temperatures other than 30°C

Maximum conductor temperature °C	Ambient air temperature °C							
	20	25	35	40	45	50	55	60
90	1.08	1.04	0.96	0.91	0.87	0.82	0.76	0.71

Current Carrying Capacity Of MV Cables

Correction factors for ambient ground temperatures other than 20°C

Maximum conductor temperature °C	Ambient ground temperature °C							
	10	15	25	30	35	40	45	50
90	1.07	1.04	0.95	0.93	0.89	0.85	0.80	0.76

Current Ratings

Current Ratings for Single-Core Cables or Multi Core Cable with XLPE or EPR Insulation ; Rated Voltage: 0.6/1 (1.2)kV

Standard	IEC 60364-5-52
Max. Conductor temperature	90 °C
Ambient air temperature:	30 °C
Ambient ground temperature	20 °C
Soil thermal resistivity	2.5 K·m/W
Depth of laying	0.7m

Area of Conductor (mm2)	Buried Direct in the Ground		In Single-Way Ducts		In air			
					Copper		Aluminium	
	Copper	Aluminium	Copper	Aluminium	Single Core	Multi Core	Single Core	Multi Core
1.5	23	-	21	-	-	23	-	-
2.5	30	-	28	22	-	32	-	24
4	39	-	36	28	-	42	-	32
6	49	-	44	35	-	54	-	42
10	65	-	58	46	-	75	-	58
16	84	64	75	59	-	100	-	77
25	107	82	96	75	135	127	103	97
35	129	98	115	90	169	158	129	120
50	153	117	135	106	207	192	159	146
70	188	144	167	130	268	246	206	187
95	226	172	197	154	328	298	253	227
120	257	197	223	174	383	346	296	263
150	287	220	251	197	444	399	343	304
185	324	250	281	220	510	456	395	347
240	375	290	324	253	607	538	471	409
300	419	326	365	286	703	621	547	471

Current Ratings

Current Ratings for Single-Core Cables or Multi Core Cable with PVC Insulation; Rated Voltage: 0.6/1 (1.2) kV

Standard	IEC 60364-5-52
Max. Conductor temperature	70 °C
Ambient air temperature:	30 °C
Ambient ground temperature	20 °C
Soil thermal resistivity	2.5 K·m/W
Depth of laying	0.7m

Area of Conductor (mm2)	Buried Direct in the Ground		In Single-Way Ducts		In air			
					Copper		Aluminium	
	Copper	Aluminium	Copper	Aluminium	Single Core	Multi Core	Single Core	Multi Core
1.5	19	-	18	-	-	18.5	-	-
2.5	24	-	24	18.5	-	25	-	19.5
4	33	-	30	24	-	34	-	26
6	41	-	38	30	-	43	-	33
10	54	-	50	39	-	60	-	46
16	70	53	64	50	-	80	-	61
25	92	69	82	64	110	101	84	78
35	110	83	98	77	137	126	105	96
50	130	99	116	91	167	153	128	117
70	162	122	143	112	216	196	166	150
95	193	148	169	132	264	238	203	183
120	220	169	192	150	308	276	237	212
150	246	189	217	169	356	319	274	245
185	278	214	243	190	409	364	315	280
240	320	250	280	218	485	430	375	330
300	359	282	316	247	561	497	434	381

Current Ratings

Correction factor for ambient air temperatures other than 30 °C to be applied to the current-carrying capacities for cables in the air

Ambient temperature °C		10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
Insulation	PVC	1.22	1.17	1.12	1.06	1.00	0.94	0.87	0.79	0.71	0.61	0.50	-	-	-	-
	XLPE and EPR	1.15	1.12	1.08	1.04	1.00	0.96	0.91	0.87	0.82	0.76	0.71	0.65	0.58	0.50	0.41

Current Ratings

Correction factors for ambient ground temperatures other than 20 °C to be applied to the current-carrying capacities for cables in ducts in the ground

Ground temperature °C		10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
Insulation	PVC	1.10	1.05	1.00	0.95	0.89	0.84	0.77	0.71	0.63	0.55	0.45	-	-	-	-
	XLPE and EPR	1.07	1.04	1.00	0.96	0.93	0.89	0.85	0.80	0.76	0.71	0.65	0.60	0.53	0.46	0.38

Current Ratings

Current carrying capacity of PV cables as per BS EN 50618

Standard	BS EN 50618
Max. Conductor temperature	120 °C
Ambient air temperature	60 °C

Single Core Cross sectional Area (mm2)	**Current Carrying Capacity according to method of installation**		
	Single Cable Free in air	**Single Cable on a surface**	**Two loaded cables touching, on a surface**
	A	**A**	**A**
1.5	30	29	24
2.5	41	39	33
4	55	52	44
6	70	67	57
10	98	93	79
16	132	125	107
25	176	167	142
35	218	207	176
50	276	262	221
70	347	330	278
95	416	395	333
120	488	464	390
150	566	538	453
185	644	612	515
240	775	736	620

Current Ratings

Current rating conversion factors for different ambient temperatures

Ambient temperature °C	up to 60	70	80	90
Conversion factor	1.00	0.92	0.84	0.75

Current Ratings

Current carrying capacity of PV cables as per IEC 62930

Standard	IEC 62930
Max. Conductor temperature	90 °C
Ambient air temperature	30 °C

Single Core Cross sectional Area (mm2)	**Current Carrying Capacity according to method of installation**		
	Single Cable Free in air	**Single Cable on a surface**	**Two loaded cables touching, on a surface**
	A	**A**	**A**
1.5	31	30	24
2.5	42	40	33
4	57	54	45
6	72	69	58
10	98	96	80
16	132	130	107
25	183	174	138
35	227	215	171
50	287	273	209
70	361	344	269
95	433	411	328
120	508	483	382
150	590	560	441
185	671	638	506
240	808	767	599
300	913	866	693
400	1098	1041	825

Current Ratings

Current rating conversion factors for different ambient temperatures

Ambient temperature °C	0	10	20	30	40	50	60	70
Conversion factor	1.22	1.15	1.08	1.00	0.91	0.82	0.71	0.58

CERTIFICATIONS

UL



CERTIFICATE OF COMPLIANCE

Certificate Number 20181129-E476381
Report Reference E476381-20181120
Issue Date 2018-NOVEMBER-29

Issued to: Polycab Wires Pvt Ltd
Unit III, 32/33/34
Village Rampura
Halol,Dist Panch Mahal Gujarat 389352 INDIA

This certificate confirms that representative samples of MEDIUM-VOLTAGE POWER CABLE
USL Types MV-105 Cable, wet or dry locations, rated 5 to 35 kV

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 1072 - Medium-Voltage Power Cables
Additional Information: See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark.

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Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program
UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number 20180111-E482292
Report Reference E482292-20170330
Issue Date 2018-JANUARY-11

Issued to: Polycab Wires Pvt Ltd
Baska-Halol Road
Taluka-Halol
Dist. Panchmahal Gujarat 389350 INDIA

This is to certify that representative samples of THERMOPLASTIC-INSULATED WIRE
Type THHN, Type T90 Nylon

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 83 & CSA-C22.2 No. 75-15
Standard for Thermoplastic-Insulated Wires
Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

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CERTIFICATE OF COMPLIANCE

Certificate Number E502099
Report Reference E502099-20210304
Date 2021-March-25

Issued to: Polycab India Ltd
UH-3 & 4 - Halol.-Vadodara Road
Taluka-Halol
Dist. Panchmahal Gujarat, 389350 IN

This is to certify that representative samples of THERMOSET-INSULATED WIRE
See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 44 and CSA C22.2 NO. 38, Thermoset-Insulated Wires and Cables

Additional Information: See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

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CERTIFICATE OF COMPLIANCE

Certificate Number 20190220-E502923
Report Reference E502923-20190218
Issue Date 2019-FEBRUARY-20

Issued to: Polycab India Ltd
Baska-Halol Road,
Taluka-Halol,
Dist. Panchmahal Gujarat 389350 INDIA

This certificate confirms that representative samples of PHOTOVOLTAIC WIRE
Type PV

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 4703, Photovoltaic Wire;
UL 44, Thermoset-Insulated Wires and Cables
Additional Information: See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

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Bruce Mahrenholz, Director North American Certification Program
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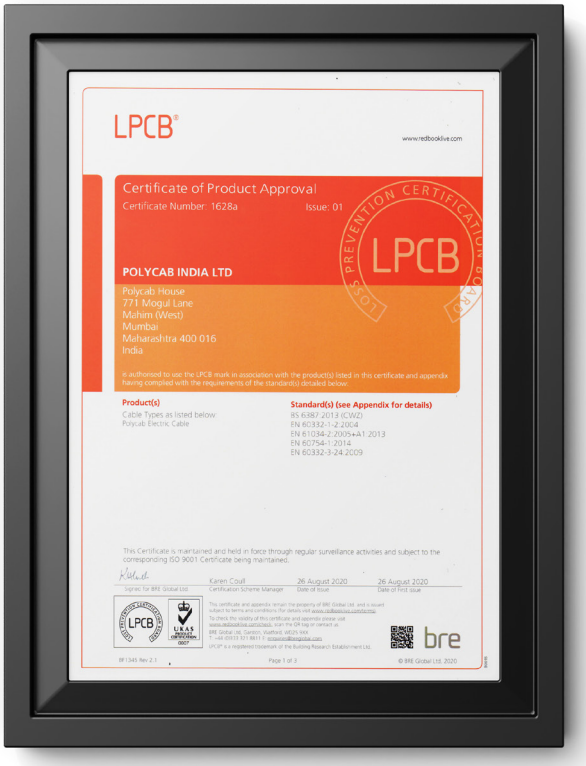
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Certificate of Product Approval

Certificate Number: 1628a Issue: 01

POLYCAB INDIA LTD

Polycab House
771 Mogul Lane
Mahim (West)
Mumbai
Maharashtra 400 016
India

is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirements of the standard(s) detailed below.

Product(s)
Cable Types as listed below:
Polycab Electric Cable

Standard(s) (see Appendix for details)
BS 6387:2013 (CW2)
EN 60332-1-2:2004
EN 61034-2:2005+A1:2013
EN 60754-1:2014
EN 60332-3-24:2009

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.

Karen Coull — Signed for BRE Global Ltd.
Certification Scheme Manager
26 August 2020 — Date of Issue
26 August 2020 — Date of First Issue

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FIRST QUALITY CERTIFICATION

CERTIFICATE

This certificate is granted to the organization, MANUFACTURER

POLYCAB INDIA LTD.

H.O : Polycab House, 771, Pandit Sacwarekar Marg, Mahim (W), Mumbai – 400 016, India.
Works: 74/8-11, Daman Industrial Area, Village Kadaiya, Daman – 396210, U.T.
Survey No. 67-69, 71-72, 105, 184, Rampura, District Panchmahal, Halol – 389 350, Gujarat, INDIA
Rs. No. 12/2, 13, 15, 16/A, 16/B, 17 to 19, 20/P1, 20/P2, 21 to 25, 26A, 26B, 30 to 33 34/1, 34/2, 34/3, 34/4, 65 109, Village: Rampura & Noorpura, Halol, Panchmahals, Gujarat

Products Description:

The following harmonized standards and/or technical specifications applied:

Certificate No : 09.02.0204.1001
Date of Issue : 22.03.2022
Due date for reissue : 21.03.2023
Expiry date : 21.03.2027

First Quality Certification
Product Certificate Approved

IRIS


IRIS®
Certification

CERTIFICATE

awarded to

POLYCAB INDIA LIMITED
Rampura Village Halol Unit 3
389350, Halol
India

DQS GmbH

confirms, as an IRIS Certification® approved certification body, that the Management System of the above organization has been assessed and found to be in accordance with the

IRIS Certification® Conformity assessment:2020
and based on
ISO/TS 22163:2017

for the activity of Manufacturing
for the scope of certification: 12 (Electrical wiring)
of Railway Wires & Cables

Certificate valid from: 13/10/2021 Certificate valid until: 06/10/2024*

Current date: 13/10/2021
Certificate-Register-No: 50252278

* Providing that the subsequent surveillance audits are successful before the validity date of the previous audit.
Certification body address: August-Schanz-Straße 21, 60433 Frankfurt am Main, Germany

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1/2

IATF


CERTIFICATE

dqs

This is to certify that

POLYCAB INDIA LIMITED (Unit-UH-3)
Plot No.65 - Noorpura
21-34 Rampura, Panchmahal
Halol - 389350
Gujarat
INDIA
IATF USI GFA98C

has implemented and maintains a Quality Management System.

Scope:
Manufacture of Wire & Cable.

An audit, conducted and documented in a report, has verified that this quality management system fulfills the requirements of the following International Automotive Standard:

IATF 16949:2016
(without product design)

Certificate registration no. 50252278 IATF16
Issuing date 2024-07-19
This certificate is valid until 2027-07-18
IATF No. 0531695

2-IAO-QMC-01001

For and on behalf of DQS

Nuranii S. Venkatachalam
Director-Corporate Automotive Program, DQS Holding GmbH

Michael Drechsel
Managing Director, DQS Holding GmbH

IATF Contract Office: DQS Holding GmbH, Konrad-Adenauer-Allee 8-10, 61118 Bad Vilbel, Germany
The validity of the certification can only be verified by the QR code.

1 / 2

ISO
9001 – 2015 Certificate


TÜVNORD

Certificate

Management system as per

ISO 9001:2015

The Certification Body TÜV NORD CERT GmbH, hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

POLYCAB INDIA LIMITED
Unit-4, Plot No.105 Halol Vadodara Road,
Village Nurpura, Taluka Halol,
Panchamahal – 389 350,
Gujarat,
India

POLYCAB
IDEAS. CONNECTED.

with the locations according to the annex

operates a management system in accordance with the requirements of ISO 9001 : 2015 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope
The Design and Manufacture of PVC, XLPE, ZHFR and EBXL Compound, Ceiling Fans, Switchgears, Switches, Sockets & Electrical Accessories.
The Design & Distribution of Water Heaters.
The Manufacture of Low Carbon Galvanized Steel Wires & Formed Wires, Conductors, Wires & Cables, Conduits & Fittings, Tapes, Polypropylene Sheet, Shrink Film & Stretch Film and all Type of Optical Fiber Cable Accessories.
The Warehousing Activities.
The Design Development, Procurement and Supply of: Lightings, Luminaires and Lighting Electronics for Domestic, Commercial, Industrial, Area Lighting, Street Light, Landscape Light. Specialized Applications such as Hazardous Areas (Flameproof, Increased Safety) & Corrosive Atmosphere for Domestic and Export Markets.
Trading of Fans and Switches.
Engineering, Procurement & Construction (EPC) of EHV, HV & LT Electrical Work, Fire Alarm System and Public Address Systems.

Certificate Registration No. 44 100 24395341 Valid from 10.08.2024
Audit Report No. 2.5-11821/2024 Valid until 09.08.2027
Initial certification 10.08.2024

Mumbai, 10.08.2024
Certification Body at TÜV NORD CERT GmbH

Visit our database to verify the validity of this certificate.

TÜV NORD CERT GmbH
Am TÜV 1, 45307,
Essen
www.tuev-nord-cert.com

TUV INDIA PVT. LTD.
801, Raheja Plaza 1, L.B.S Marg,
Ghatkopar (W) Mumbai – 400 086,
India
www.tuv-nord.com/in

TÜVNORDGROUP

ISO
14001 – 2015 Certificate


TÜVNORD

Certificate

Management system as per

ISO 14001:2015

The Certification Body TÜV NORD CERT GmbH, hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

POLYCAB INDIA LIMITED
Unit-4, Plot No.105 Halol Vadodara Road,
Village Nurpura, Taluka Halol,
Panchamahal – 389 350,
Gujarat,
India

POLYCAB
IDEAS. CONNECTED.

with the locations according to the annex

operates a management system in accordance with the requirements of ISO 14001 : 2015 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope
The Design and Manufacture of PVC, XLPE, ZHFR and EBXL Compound, Ceiling Fans, Switchgears, Switches, Sockets & Electrical Accessories.
The Design & Distribution of Water Heaters.
The Manufacture of Low Carbon Galvanized Steel Wires & Formed Wires, Conductors, Wires & Cables, Conduits & Fittings, Tapes, Polypropylene Sheet, Shrink Film & Stretch Film and all Type of Optical Fiber Cable Accessories.
The Warehousing Activities.
The Design Development, Procurement and Supply of: Lightings, Luminaires and Lighting Electronics for Domestic, Commercial, Industrial, Area Lighting, Street Light, Landscape Light. Specialized Applications such as Hazardous Areas (Flameproof, Increased Safety) & Corrosive Atmosphere for Domestic and Export Markets.
Trading of Fans and Switches.
Engineering, Procurement & Construction (EPC) of EHV, HV & LT Electrical Work, Fire Alarm System and Public Address Systems.

Certificate Registration No. 44 104 24395341 Valid from 10.08.2024
Audit Report No. 2.5-11821/2024 Valid until 09.08.2027
Initial certification 10.08.2024

Mumbai, 10.08.2024
Certification Body at TÜV NORD CERT GmbH

Visit our database to verify the validity of this certificate.

TÜV NORD CERT GmbH
Am TÜV 1, 45307,
Essen
www.tuev-nord-cert.com

TUV INDIA PVT. LTD.
801, Raheja Plaza 1, L.B.S Marg,
Ghatkopar (W) Mumbai – 400 086,
India
www.tuv-nord.com/in

TÜVNORDGROUP

ISO
45001 – 2018 Certificate


TÜVNORD

Certificate

Management system as per

ISO 45001:2018

The Certification Body TÜV NORD CERT GmbH, hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

POLYCAB INDIA LIMITED
Unit-4, Plot No.105 Halol Vadodara Road,
Village Nurpura, Taluka Halol,
Panchamahal – 389 350,
Gujarat,
India

POLYCAB
IDEAS. CONNECTED.

with the locations according to the annex

operates a management system in accordance with the requirements of ISO 45001 : 2018 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope
The Design and Manufacture of PVC, XLPE, ZHFR and EBXL Compound, Ceiling Fans, Switchgears, Switches, Sockets & Electrical Accessories.
The Design & Distribution of Water Heaters.
The Manufacture of Low Carbon Galvanized Steel Wires & Formed Wires, Conductors, Wires & Cables, Conduits & Fittings, Tapes, Polypropylene Sheet, Shrink Film & Stretch Film and all Type of Optical Fiber Cable Accessories.
The Warehousing Activities.
The Design Development, Procurement and Supply of: Lightings, Luminaires and Lighting Electronics for Domestic, Commercial, Industrial, Area Lighting, Street Light, Landscape Light. Specialized Applications such as Hazardous Areas (Flameproof, Increased Safety) & Corrosive Atmosphere for Domestic and Export Markets.
Trading of Fans and Switches.
Engineering, Procurement & Construction (EPC) of EHV, HV & LT Electrical Work, Fire Alarm System and Public Address Systems.

Certificate Registration No. 44 126 24395341 Valid from 10.08.2024
Audit Report No. 2.5-11821/2024 Valid until 09.08.2027
Initial certification 10.08.2024

Mumbai, 10.08.2024
Certification Body at TÜV NORD CERT GmbH

Visit our database to verify the validity of this certificate.

TÜV NORD CERT GmbH
Am TÜV 1, 45307,
Essen
www.tuev-nord-cert.com

TUV INDIA PVT. LTD.
801, Raheja Plaza 1, L.B.S Marg,
Ghatkopar (W) Mumbai – 400 086,
India
www.tuv-nord.com/in

TÜVNORDGROUP

ISO 50001


CERTIFICATE

dqs

This is to certify that

POLYCAB INDIA LIMITED.
HALOL - UNIT 3 (2BA)13,15,16A,B,17,18,19,20P1-2,21,22,23,24,25,26A,B,30,31,32,33,34/1-4,
Kampura Village, Halol Baroda Road Kampura Halol,
Dist Panchmahal Halol-389350
Gujarat
INDIA

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

Scope:
The Energy activities and supporting processes associated with the Manufacture of Building Wire,Panel Wire, Speaker Wire, Multi Core Cables, Flat Cables & Solar Cable.

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

ISO 50001 : 2018

Certificate registration no. 50252278 EMS21
Valid from 2024-03-19
Valid until 2027-03-18
Date of certification 2024-03-19

DQS GmbH

DQS IS A MEMBER OF IQNET

Christian Gerling
Managing Director

Accredited Body: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main, Germany
Administrative Office: Deutsch Quality Systems (India) Pvt. Ltd., Ground Floor, South Wing, Vishnavi Tech Park, Sy.No.10/1 and 17/2, Bellandur Gate, Sarjapur Main Road, Ambalipura, Bengaluru – 560102 – India
The validity of this certificate can only be verified by the CB-code.

UL Approval



POLYCAB

QUALITY & CERTIFICATIONS- UL APPROVALS

File Number	Company Name	UL CCN Description	Applicable Standard	Type of Cable	Voltage Grade
E522693	Polycab India Ltd	Communications Cable	ANSI/UL 444	CM, CMG, CMR	300V
E484944	Polycab India Ltd	Instrumentation Tray Cable	UL 2250	ITC	150V,300V
E476381	Polycab India Ltd	Medium-voltage Power Cable	UL 1072	MV-105, MV-90	2400 to 35,000 V
E476382	Polycab India Ltd	Metal-clad Cable	ANSI/UL 1569	MC	Up to 2000 V
E494527	Polycab India Ltd	Non-metallic-sheathed Cable	UL 719	NM-B, NMC-B	600V
E504193	Polycab India Ltd	Power and Control Tray Cable	UL 1277	TC, TC-ER	600, 1000 or 2000 V
E522694	Polycab India Ltd	Power-limited Circuit Cable	UL 13	CL2, CL2R, CL3, CL3R, PLTC	300V
E502922	Polycab India Ltd	Service-entrance Cable	UL 854	SE, STYLE R, SE, STYLE U, USE, USE-2	600V
E494526	Polycab India Ltd	Underground Feeder and Branch Circuit Cable	UL 493	UF, UF-B	600V
E498569	Polycab India Ltd	Fixture Wire	UL 66	TF, TFF, TFFN, TFN	300V, 600V
E518895	Polycab India Ltd	Machine-tool Wire	ANSI/UL 1063	MTW	600V
E502923	Polycab India Ltd	Photovoltaic Wire	UL 4703	PV Wire	600, 1000 or 2000 V
E502923	Polycab India Ltd	Photovoltaic Wire	UL 4703	PV Wire	600, 1000 or 2000 V
E502099	Polycab India Ltd	Thermoset-insulated Wire	UL 44	RHH, RHW, RHW-2, SIS, XHH, XHHW, XHHW-2	600 V,2000 V
E482292	Polycab India Ltd	Thermoplastic-insulated Wire	UL 83	THHN, THHW, THW, THW-2, THWN, THWN-2, TW	600V
E502923	Polycab India Ltd	Photovoltaic Cable Certified for Canada	CSA-C22.2 No. 271	PV Wire	600, 1000 or 2000 V
E522693	Polycab India Ltd	Communications Cable Certified for Canada	CAN/CSA-C22.2 No. 214	CM, CMG, CMR	300V
E494527	Polycab India Ltd	Non-metallic-sheathed Cable Certified for Canada	CAN/CSA-C22.2 No. 48	NMD90	300V
E504193	Polycab India Ltd	Power and Control Tray Cable Certified for Canada	CAN/CSA-C22.2 No. 239	CIC	150, 300 or 600 V
E502923	Polycab India Ltd	Photovoltaic Cable Certified for Canada	CSA-C22.2 No. 271	PV Wire	600, 1000 or 2000 V
E502099	Polycab India Ltd	Thermoset-insulated Wire Certified for Canada	CSA-C22.2 No. 38	R90, RW75, RW90, RWU75, RWU90, SIS	600, 1000, 2000 or 5000
E482292	Polycab India Ltd	Thermoplastic-insulated Wire Certified for Canada	CSA-C22.2 No. 75	T90 Nylon, TW, TW75, TWN75, TWU, TWU75	600V

APPROVALS

TUV
R 60139386 0001



Zertifikat *Certificate*

TÜVRheinland

Zertifikat Nr. *Certificate No.* R 60139386 | Blatt *Sheet* 0001

Ihr Zeichen *Client Reference* | Unser Zeichen *Our Reference* 0001--19600266 002 | Ausstellungsdatum *Date of Issue* 14.05.2019 (day/mo/yr)

Genehmigungsinhaber *License Holder*
POLYCAB INDIA LIMITED
POLYCAB HOUSE, 1ST FLOOR, 771,
PANDIT SATWALEKAR MARG,
MAHIM(WEST), MUMBAI-400016,
India

Fertigungsstätte *Manufacturing Plant*
POLYCAB INDIA LIMITED (UNIT 3)
NO.12P2,13,15 to 26A&B,30-34/1-4,
65,109 RAMPURA&NOORPURA TA:HALOL,
DIST:PANCHMAHALS, GUJARAT 389350
India

Prüfzeichen *Test Mark* | Geprüft nach *Tested acc. to* EN 50618:2014

Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)* | Lizenzentgelte - Einheit *License Fee - Unit*

Cable (Electric Cables for Photovoltaic Systems)

Code designation:	H1Z2Z2-K	25
Cross section:	from 1,5 mm² to 300 mm² acc. to IEC 60228:2004 Table 3	
Trade mark:	POLYCAB	
Rated Voltage:	AC 1.0/1.0 kV; DC 1,5 kV Conductor-conductor, Conductor-earth	
Ambient temperature:	-40°C to +90°C	
Max.Conductor temp.:	+120°C	
Material of insulation:	Halogen free Electron Beam cross- linked compound	
Material of sheath:	Halogen free Electron Beam cross- linked compound	
Color of insulation:	Black and Red	
Color of sheath:	Black and black & red strip	
Curing process:	Electron Beam cross- linked (EBXL)	

Replace Certificate R 60130299 0001.

25

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

Zertifizierungsstelle

Sabine Chalupka

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg
Tel.: +49 221 806-1371 e-mail: ian-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety

TUV
IEC62930



Zertifikat *Certificate*

TÜVRheinland

Zertifikat Nr. *Certificate No.* R 60163112 | Blatt *Sheet* 0001

Ihr Zeichen *Client Reference* | Unser Zeichen *Our Reference* 0001-SP-IN22NTIJ 001 | Ausstellungsdatum *Date of Issue* 25.04.2022 (day/mo/yr)

Genehmigungsinhaber *License Holder*
POLYCAB INDIA LIMITED
POLYCAB HOUSE, 1ST FLOOR, 771,
PANDIT SATWALEKAR MARG,
MAHIM(WEST), MUMBAI 400016
India

Fertigungsstätte *Manufacturing Plant*
POLYCAB INDIA LIMITED (UNIT 3)
NO.12P2,13,15 to 26A&B,30 to 34/1-4,
65,109 RAMPURA&NOORPURA TA:HALOL,
DIST:PANCHMAHALS, GUJARAT 389350
India

Prüfzeichen *Test Mark* | Geprüft nach *Tested acc. to* IEC 62930:2017

Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)* | Lizenzentgelte - Einheit *License Fee - Unit*

Cables / Wires Electric cables for photovoltaic systems with a voltage rating of 1,5 kV DC

Code designation:	62930 IEC 131	5
Cross section:	from 1,5 mm2 to 300 mm2 acc. to IEC 60228:2004 Table 3	
Trade mark:	POLYCAB	
Type Name or Model No.:	PV CONNECT	
Rated voltage (Uo/U):	AC 1,0/1,0 kV; DC 1,5 kV (conductor-conductor, conductor-earth)	
Ambient temperature:	-40 °C to + 90 °C	
Max. Conductor temp.:	+120 °C (for 20000 hour	
Material of insulation:	Halogen Free Electron Beam Cross-Linked Compound	
Material of sheath:	Halogen Free Electron Beam Cross-Linked Compound	
Colour of insulation:	Black and Red	
Colour of sheath:	Black and Black with Red strip	

5

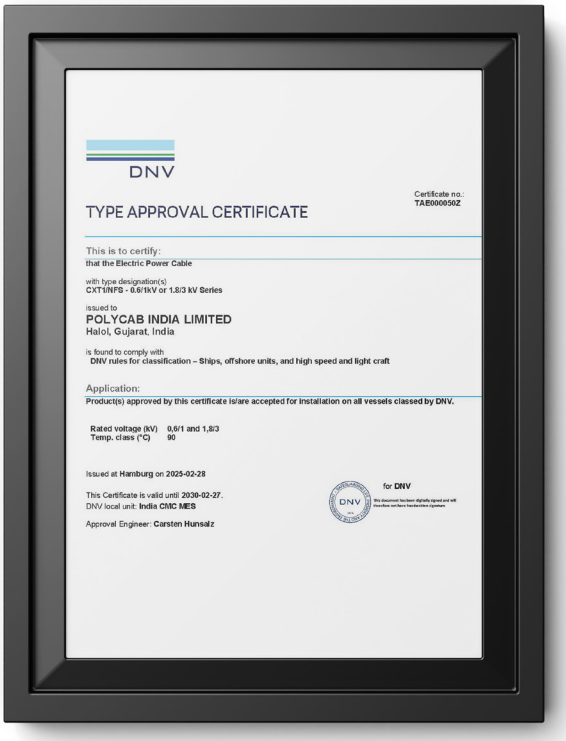
Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

Zertifizierungsstelle

Tibor Mózes

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg
http://www.tuv.com/safety E-mail: markcheck@tuv.com
Fax: +49 221 806-3935

DNV



DNV

Certificate no.:
TAE0000502

TYPE APPROVAL CERTIFICATE

This is to certify:
that the Electric Power Cable

with type designation(s)
CXT1/NFS - 0.6/1kV or 1.8/3 kV Series

issued to
POLYCAB INDIA LIMITED
Halol, Gujarat, India

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:
Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Rated voltage (kV) 0,6/1 and 1,8/3
Temp. class (°C) 90

Issued at Hamburg on 2025-02-28

This Certificate is valid until 2030-02-27.
DNV local unit: India CMC MES

Approval Engineer: Carsten Hunsalz

for DNV



DNV

Certificate no.:
TAE0000501Y

TYPE APPROVAL CERTIFICATE

This is to certify:
that the Low Voltage Cable

with type designation(s)
CXT1/NFS - 150/250 V Series

issued to
POLYCAB INDIA LIMITED
Halol, Gujarat, India

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:
Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Rated voltage (V) 150/250
Temp. class (°C) 90

Issued at Hamburg on 2025-02-28

This Certificate is valid until 2030-02-27.
DNV local unit: India CMC MES

Approval Engineer: Carsten Hunsalz

for DNV

ARAMCO



Aramco Asia India Pvt. Ltd.
2A-801, 8th Floor, Two Horizon Center,
DLF 5, Sector-43, Gurugram 122002
Haryana, India.
CIN: U74900HR2016PTC059053

T: +91 124 647 3666
E: aasupplierrelation@aramcoasia.com
Website: india.aramco.com

aramco

June 1, 2020
Letter Ctrl # AAI-SRM/07/2020

POLYCAB INDIA LTD. (LH3)
RS No. 12P2, 13, 15, 16/A, 16/B, 17 to 19, 20P1, 20P2, 21 to 25,
26A, 26B, 30 to 33, 34/1, 34/2, 34/3, 34/4, 65, 109,
VILLAGE - RAMPURA & NOORPURA, Ta.: HALOL,
DIST.: PANCHMAHALS - 389350, GUJARAT, INDIA

K.Attn.: Mr. Divakar Rao (General Manager - Quality Control)

Subject: **Quality Management System Approval**

Survey/Assessment/Desk Review Date: April 24-25, 2018 & follow up assessment on Nov. 27-28, 2019
Next Evaluation Date: 2024
Reference: Vendor ID: 10066549; Plant ID: 30008727; Sales Handling Vendor ID: 10066723

Dear Sirs,

As a result of the Survey conducted by Aramco Asia Quality Management, Aramco Asia India(AAI) is pleased to advise you that your company's Quality Management System (QMS) is APPROVED to supply the attached list of Commodity Classification Codes (SCOM) (see Attachment 1) that have been linked to your Plant ID No. 30008727.

This approval is granted for your manufacturing plant, POLYCAB INDIA LTD.(Address: RS No. 12P2, 13, 15, 16/A, 16/B, 17 to 19, 20P1, 20P2, 21to25, 26A, 26B, 30 to 33, 34/1, 34/2, 34/3, 34/4, 65, 109,
VILLAGE - RAMPURA & NOORPURA, Ta.: HALOL, DIST.: PANCHMAHALS - 389350, GUJARAT,) and your company is expected to continue complying with Saudi Arabian and Saudi Aramco Standards.

This approval, however, should not be construed as a commitment by the Saudi Aramco enterprise to purchase from you. However, your company will have the opportunity along with other approved suppliers to respond to requests for submitting proposals in accordance with established policies and procedures.

AAI would like to take this opportunity and thank you for your interest in doing business with the Saudi Aramco enterprise. Please use the above referenced Vendor ID, Sales Handling ID and Plant ID on all future written correspondence.

Sincerely yours,

Abdullah Melfi
Strategic Sourcing & SRM Manager
Aramco Asia India Pvt. Ltd.

It is the responsibility of the manufacturer to notify Aramco Asia India (aaisupplierrelation@ aramcoasia .com) of the following:

1. *Change of Name/Address*
2. *Any change of manufacturing location (sub sourcing fabrication of major components)*
3. *Discontinuance of fabrication of approved SCOMs*

SABS



SABS

Permit to Apply Certification Mark

POLYCAB INDIA LIMITED
Co Reg. L31300GJ1996PLC114183
VILLAGE NURPURA, TALUKA HALOL
GUJARAT, INDIA

to apply the certification mark

SABS APPROVED

in respect of the mark specification

SANS 1507-3:2020
TO: ELECTRIC CABLES WITH EXTRUDED SOLID DIELECTRIC INSULATION FOR FIXED INSTALLATIONS (300/500 V TO 1 900/3 300 V)
PART 3: PVC DISTRIBUTION CABLES

Permit Number 11869/18549
Effective Date 05 July 2024
Expiry Date 04 July 2027
Date of Original Registration 05 July 2024
Chief Executive Officer

sanas

RETIE EN



Certificado de Conformidad de Producto

Product Certificate of Conformity

Certificado No. PR1-100841
Informe No. BSP-0633-1
Nombre y dirección del titular: POLYCAB INDIA LIMITED # 29, The Ruby, 21st Floor, Senapati Bapat Marg, Tulsi Pipe Road, Dadar (West), Mumbai – 400028' w.e.f. 30th March 2023
Nombre y dirección de la fábrica(s): POLYCAB INDIA LIMITED- UH3 Rs. No. 12P2, 13, 15, 16A, 16/B, 17 to 19, 20P1, 20P2, 21 to 25, 26A, 26B, 30 to 33, 34/1, 34/2, 34/3, 34/4, 65, 109, Village – Kanpura & Nooripura Ta.: Halol, Dist.: Panchmahal – 389350, Gujarat, India
Origen: India
Producto: Cable para uso en instalaciones fotovoltaicas
Referencia(s): 62930 IEC 131
Marca: POLYCAB
Características principales: Area transversal / Cross section : 1.5, 2.5, 4, 6, 10, 16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300 mm2
Tensión / Voltage: 1.5 kV (DC) / 1kV (AC)
Material / Material: Flexible cobre alambre estañado, clase 5 / Flexible tinned copper wire, class 5
Aislamiento / Insulation: Compuesto reticulado por haz de electrones sin halógenos / Halogen Free Electron Beam Cross-Linked Compound
Evaluado de acuerdo con: Resolución 90708: 2013.Ministerio de Minas y Energía de Colombia, Reglamento técnico de Instalaciones eléctricas. RETIE, artículo 20 y 20.28. (IEC 62930:2017, Cables eléctricos para sistemas fotovoltaicos).
Resolution 90708:2013, Minas and Energy Minister, Colombian Mandatory Regulation related to Product electrical safety, article 20 and 20. 28 (IEC 62930:2017, Electric cables for photovoltaic systems).
Esquema de Certificación: Esquema Tipo 5 / *Type 5 scheme*
Fecha de emisión / *Valid from*: 02/05/2023
Vigente hasta / *Valid until*: 01/05/2026
Autorizado Por / *Authorized by*: SERGIO AYALA, Gerente de Certificación Producto ITECCOL S.A.S., Calle 108 No. 45 – 27 Bogotá - CO, (+57) 310 296 3183
iticcol

RETIE IEC



NYCE Colombia

otorga el

CERTIFICADO DE CONFORMIDAD DE PRODUCTO
SELLO DE CALIDAD NYCE-E5
de acuerdo con el esquema de Certificación 5 de la norma ISO/IEC 17067:2013, a

POLYCAB INDIA LIMITED
Ubicado en: Unit - 4, Plot No. 135, Halol Vadodara Road, Village Nurpura, Taluka Halol, Panchamahal - 389350, Gujarat - INDIA

Para los productos

CABLES PARA USO ELÉCTRICO

Según el alcance y las características descritas en el anexo de este certificado.

Los productos comercializados por:
POLYCAB INDIA LIMITED
Ubicado en: Unit - 4, Plot No. 135, Halol Vadodara Road, Village Nurpura, Taluka Halol, Panchamahal - 389350, Gujarat - INDIA

y fabricados por:
Ver Anexo

Demuestran que cumplen con los requisitos del referencial

"Artículo 20.2 de la Resolución 90708 de 2013-08-30 del Ministerio de Minas y Energía - Reglamento Técnico de Instalaciones Eléctricas – RETIE"

Este certificado se emite como parte del proceso de certificación para el cual NYCE Colombia SAS, evaluó los requisitos del producto y los del esquema de certificación con el que se emite este certificado. La organización está sujeta a actividades periódicas de seguimiento y posee el compromiso de cumplir lo estipulado en el contrato de prestación de servicios, reglamento de uso de marcas de conformidad, reglamento de los servicios y procedimientos internos de NYCE. Este documento solo es válido si se presenta con el respectivo anexo que indica los productos cubiertos por el certificado

Código del certificado:	24E5-0025-03	Fecha de última actualización:	2024-04-30
Fecha de emisión:	2024-04-30	Fecha estimada 1er seguimiento:	2025-04-29
Fecha de expiración:	2027-04-29	Fecha estimada 2do seguimiento:	2026-04-29

Gerente General
NYCE Colombia

Para consultas relacionadas con el presente certificado podrá hacerlo mediante solicitud al correo: informacion@nycecolombia.co

NYCE COLOMBIA · ONAC ACREDITADO · Calle 30 No. 17-92, Tavasquillo, Bogotá, Colombia. Tel. + 571 756 84 85 · www.nycecolombia.co

ABS



ABS

CERTIFICATE NUMBER 19-SG1896696-PDA
EFFECTIVE DATE 04-October-2019
EXPIRATION DATE 03-October-2024
ABS TECHNICAL OFFICE Singapore Engineering Services

CERTIFICATE OF

Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

POLYCAB INDIA LIMITED

located at

771, POLYCAB HOUSE, PANDIT SATAWALEKAR MARG, MAHIM (WEST), MUMBAI, MAHARASHTRA, INDIA, 400 016

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product Cable

Model 0.6/1kV cables, 1.9/3kV cables, 150/250V cables, N6145-xxxxxx, 5013-xxxx

This Product Design Assessment (PDA) Certificate remains valid until 03-October-2024 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau of Shipping
Manorajiu, Engineer/ Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

Certificate of Product Design Assessment Rev.3 Page 1 of 1

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POLYCAB

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