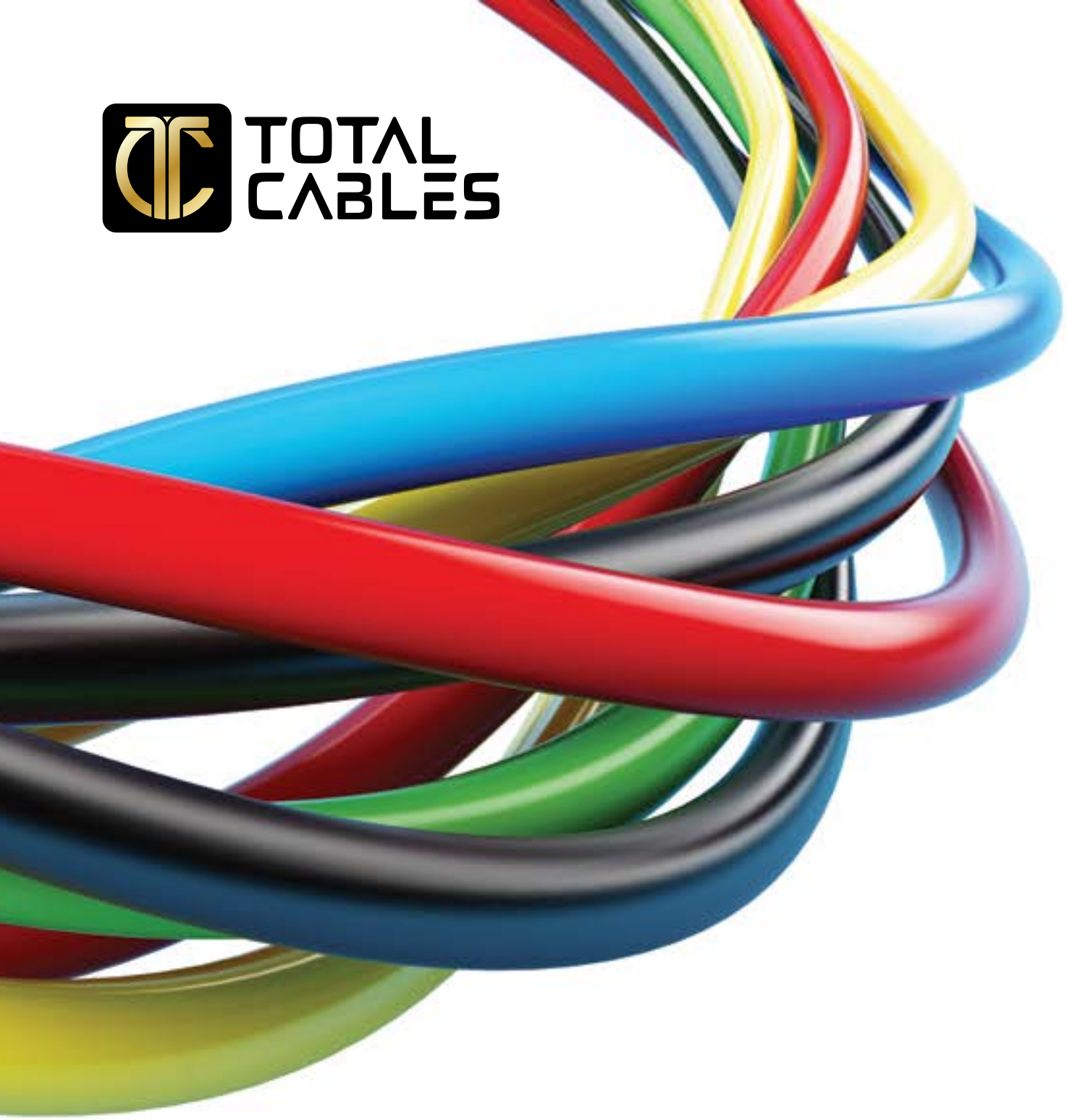
TOTAL CABLES



CABLES, WIRES
& EARTHING MATERIAL

The Spectrum of Connections

RoHS compliant

ISO 9001 2015 CERTIFIED

UNBS

BUBU

TOTAL CABLES

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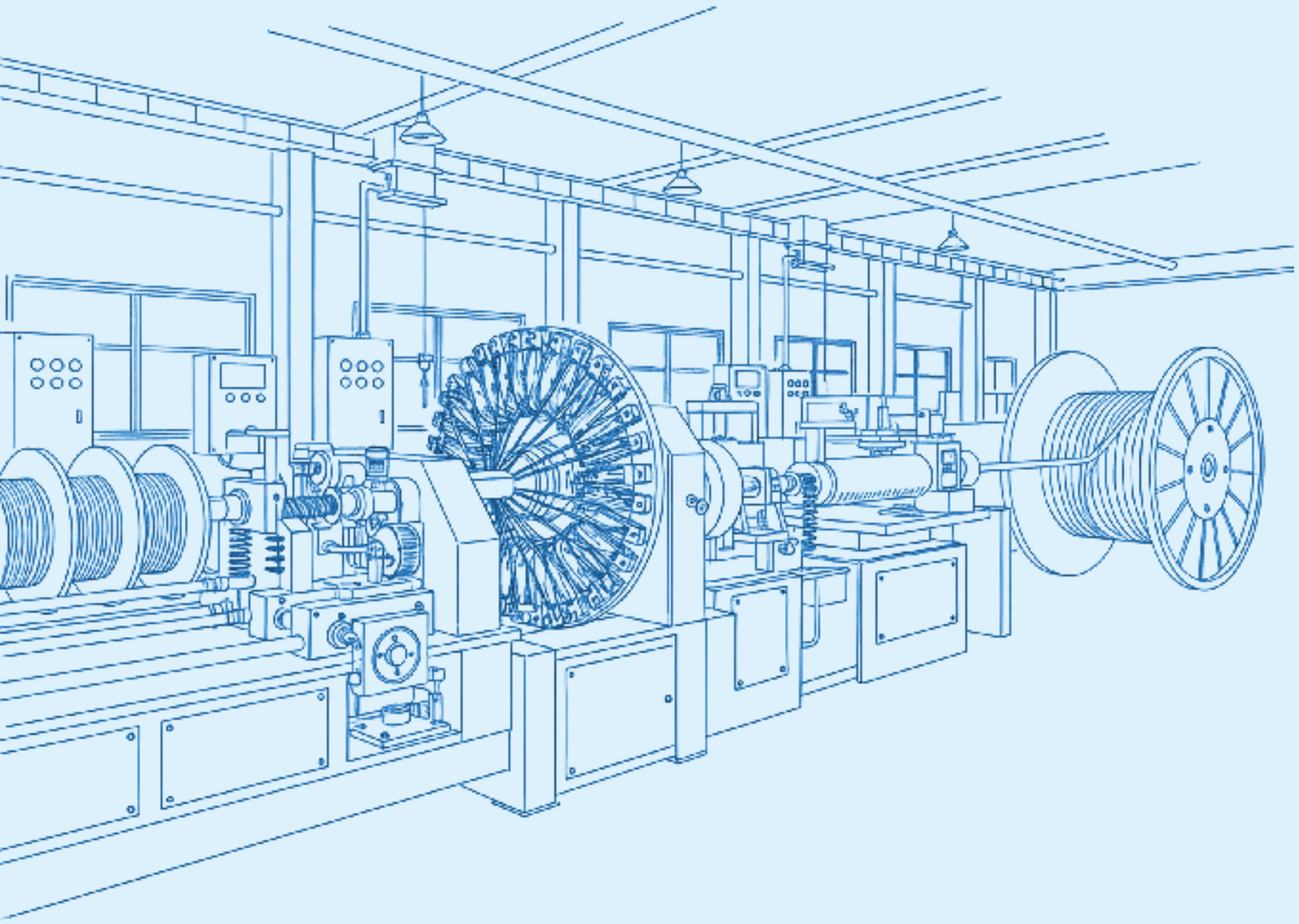


Message from the Desk of the Managing Director

To Our Valued Customers and Partners,

On behalf of Total Cables (U) Ltd., I would like to express my deepest gratitude for your continued trust. Your patronage is the fuel that drives our innovation and inspires us to deliver world-class electrical solutions that offer true value for your investment.

2025: A Year of Remarkable Milestones
Since our inception in 2016, we have reached many milestones. 2025 was particularly remarkable, as we expanded our product range to include high-performance industrial solutions:

- Transmission Lines: **AAC** and **ACSR** Conductors.
- Specialized Cables: **Aluminium Armoured** and **Solidal Concentric Cables**.

Innovation & Quality Standards
To meet the growing demand for infrastructure development, I am proud to announce that our **new state-of-the-art manufacturing unit in Jinja, Uganda**, is nearing completion. This facility utilizes the latest technology to ensure we remain at the forefront of the industry, providing the capacity needed to power the region's future.

Furthermore, Our dedication to excellence has been formally recognized with the prestigious **ISO 9001:2015 QMS Certification**. This is more than just a badge; it is our promise to you that every meter of cable we produce meets international quality standards. This commitment has allowed us to grow beyond our borders. Today, Total Cables (U) Ltd. is a trusted name not only in Uganda but across **Kenya, Tanzania, Burundi, Sudan, and as far as the Asian markets.**

Our Core Mission: Buy Uganda, Build Uganda (BUBU)
Our business is driven by a purpose greater than revenue. We are committed to the social and economic health of our nation. By adhering to the "**Buy Uganda, Build Uganda**" philosophy, we ensure that our growth directly contributes to a wealthier, more self-reliant society.

As we look toward the coming years, we promise to introduce even more innovative products and services. To our incredible team: thank you for your unwavering commitment. To our partners: thank you for walking this journey with us.

I wish you all a year filled with health, peace, and shared success.

Stay safe and move forward with confidence.

Warm Regards,

Managing Director
Total Cables (U) Ltd.

TOTAL CABLES

Empowering Connections

About Us

Founded in 2016, Total Cables (U) Limited has rapidly emerged as a premier manufacturer of high-quality electrical solutions in East Africa. Our journey is defined by a mission to empower homes and industries through dependable, efficient, and safe energy transmission infrastructure.

Uncompromising Quality & Innovation

At our core lies a dedication to safety and reliability. By integrating **state-of-the-art technology** with rigorous testing, we ensure every product excels in durability and energy efficiency. Our operations are now reinforced by the prestigious **ISO 9001:2015 Quality Management System certification**, guaranteeing excellence from material sourcing to final delivery.

Our Expanding Product Portfolio

We provide a comprehensive range of solutions tailored to modern energy and data transfer needs:

- **Power Distribution:** Low voltage copper wires, Multicore cables, and specialized client-specific cables.
- **Heavy Infrastructure:** Newly introduced Aluminium Armoured Cables, AAC, AAAC and ACSR Conductors for high-voltage transmission.
- **Data Excellence:** High-speed CAT-6E cables for enhanced signal integrity.

Vision for a Sustainable Uganda

Guided by our slogan, "***More Power to You***," we are proud to be a cornerstone of Uganda's infrastructure development. Our new manufacturing facility in Jinja represents our commitment to the ***"Buy Uganda, Build Uganda"*** (BUBU) initiative—utilizing environmentally friendly processes to minimize our footprint while driving national growth.

Today, Total Cables (U) Ltd. is more than a manufacturer; we are a regional partner in progress, powering success across Uganda, Kenya, Tanzania, Burundi, Sudan, and India.

Our Milestones

Connecting East Africa since 2016

2016-17
FOUNDING MISSION

Established to supply high-quality copper cables across Uganda and East Africa, driven by safety and technological innovation.

2017-18
MARKET ENTRY

Entered the Ugandan market with high-quality copper wires for residential and commercial use, establishing a reputation for safety and durability.

2018-19
ADVANCED MANUFACTURING

Adopted advanced production technologies and strict quality control processes to establish Total Cables as a tech-driven industry leader.

2020-21
PRODUCT EXPANSION

Introduced 32-core Multicore cables and scaled up operations to serve the rising industrial and commercial needs across the region.

2022
DATA INNOVATION

Introduced CAT-6E, CCTV, and Solar product lines, transforming Total Cables into a full-service provider for modern energy and data solutions.

2023-24
SUSTAINABILITY DRIVE

Integrated eco-friendly materials and energy-efficient processes to align manufacturing with global environmental standards and minimize impact.

2025
ALUMINIUM EXPANSION

Launched a comprehensive Aluminium conductor Product line—including Solidal, ABC and AAC—to support national grid, industrial power transmission and also attained ISO 9001: 2015 QMS Certification.

2026
UP COMING PRODUCTS

- Metal Concealed switch boxes
- PVC Conduit Pipes
- PVC Junction Boxes & Accessories
- And other Electrical Components

OUR MISSION

To provide power solutions through the development and delivery of high-quality, innovative cables that adhere to the highest international standards, ensuring safety and reliability for our clients.

OUR VISION

To become Africa's most trusted and preferred cable manufacturing brand, setting benchmarks in quality and innovation.

CORE VALUES

INTEGRITY:

We uphold honesty, transparency, and ethical practices in all aspects of our business. Integrity is the foundation upon which we build trust with our clients, partners, and employees.

INNOVATION:

We continuously strive to improve our products and processes, embracing cutting-edge technology to remain at the forefront of cable manufacturing and deliver forward-thinking solutions.

QUALITY:

We are committed to producing superior products that exceed industry standards. Our focus on quality ensures that every cable we manufacture offers reliability, durability, and top performance.

TEAMWORK:

We uphold honesty, transparency, and ethical practices in all aspects of our business. Integrity is the foundation upon which we build trust with our clients, partners, and employees.

CUSTOMER-CENTRICITY:

Our customers are at the heart of everything we do. We prioritize understanding their needs and delivering solutions that enhance their operations and satisfaction.

SUSTAINABILITY:

We are dedicated to eco-friendly manufacturing processes that minimize environmental impact. Our focus on sustainability helps protect the planet for future generations while contributing to greener energy solutions.

OUR MANUFACTURING PROCESS

At Total Cables (U) Limited, we are proud of our state-of-the-art manufacturing facility. Our production line is fully automated, ensuring the highest level of precision and consistency. Every cable undergoes rigorous quality control testing to ensure it meets the stringent Quality Management System (QMS) standards and the Uganda National Bureau of Standards (UNBS) certifications.

Our commitment to quality ensures that every cable we produce performs reliably, whether it's powering homes, supporting industrial machinery or contributing to critical infrastructure.

Why Choose us

Quality Materials

At Total Cables (U) Ltd., we use only the highest quality raw materials to manufacture our cables.

This guarantees durability, efficiency, and long-term performance, ensuring your power solutions are built to last

10-Year Warranty

Our products are backed with a 10-Year Warranty, offering you peace of mind and confidence in the reliability and dependability of every cable.

Our warranty reflects the trust we have in the exceptional quality of our manufacturing processes

Expert Experience

With years of industry experience, our team of experts ensures precision and excellence in every cable we produce.

Our knowledge and commitment to innovation allow us to deliver products that meet and exceed international standards

INFRASTRUCTURE AT TOTAL CABLES LIMITED:

Powering Growth with Precision and Reliability

Total Cables (U) Limited is dedicated to delivering exceptional quality and efficiency in electrical cable manufacturing, and our infrastructure is a vital backbone to this mission. Our facility is designed to support high-volume, precision manufacturing, with a focus on innovation, quality control, and sustainability.

1. State-of-the-Art Manufacturing Facility

Our advanced manufacturing facility is equipped with cutting-edge machinery and technology, enabling us to produce high-quality copper wires and cables with precision and consistency.

We utilize automated production lines and advanced material handling systems, minimizing waste and maximizing efficiency across each stage of manufacturing.

2. Quality Control and Testing Labs

Total Cables Limited prioritizes quality at every step. Our in-house testing labs are equipped with high-performance testing machines that validate product safety, durability, conductivity and insulation.

Our cables undergo stringent quality checks, ensuring they meet both national and international standards for safety, energy efficiency and reliability.

3. Dedicated R&D and Innovation Hub

To stay at the forefront of the cable manufacturing industry, we've established a dedicated R&D division focused on new product development, material science, and sustainable practices.

Our team of experts is constantly innovating, introducing new product lines like Cat-6E cables and customized multicore cables that cater to evolving market demands and technological advancements.

4. Sustainability and Energy Efficiency

Sustainability is a core element of our infrastructure. We've implemented energy-efficient practices across our operations, such as recycling copper waste and adopting eco-friendly packaging solutions.

Our facility is equipped to reduce environmental impact through optimized energy consumption, waste management, and sustainable material sourcing, supporting Uganda's goals for greener manufacturing.

5. Logistics and Distribution Network

Strategically located, our distribution center enables us to efficiently serve clients throughout Uganda and the East African region. We've invested in a robust logistics framework to ensure timely and secure delivery of our products. With a comprehensive footprint spanning every district in Uganda, we leverage trusted partnerships and established systems to guarantee that shipments—whether small or large-scale—reach even the most remote locations with precision and care.

MANUFACTURING INFRASTRUCTURE

Empowering the Future of Infrastructure

Total Cables (U) Ltd's infrastructure is built to power the future with reliability and innovation. From raw materials to finished products, we're committed to excellence in every aspect of our manufacturing process. Our infrastructure enables us to meet the highest standards, delivering quality that powers homes, industries and communities across Uganda and beyond.

TOTAL CABLES

QUALITY CONTROL

Total Cables' has emphasised on product quality by demonstrating quality evaluation for wires & cables at international level.

The cables testing laboratory is fully equipped as per national and international standard to test XLPE Insulated Cables, PVC cables, Flexible cables, Aerial bunched cables, Photovoltaic cables, Instrumentation cables and Fire survival cables.

The lab cover Uganda National Bureau standards (UNBS), British standard (BS), International electrotechnical commission (IEC) standards, TUV-Germany standards, American society for testing and material (ASTM) standards along with fire test to demonstrate fire-retardant behavior in cable.

FINAL TESTING

Each batch/ lot of cable manufacturing is tested for all applicable routine tests, type tests and distractive tests

All Product Inspection and testing are conducted at Total Cables Limited plant at Jinja, Uganda for acceptance.

Our Quality Policy on products manufacturing is well displayed at all work places.

OUR PRODUCTS

Empowering Every Connection
Your Trusted Source for Top-Quality Electrical Cables

At Total Cables (U) Limited, we are committed to delivering top-quality electrical cables to meet your power and communication needs. Whether you're handling large industrial projects or small residential installations, our diverse product range ensures you get safe, efficient, and durable solutions.

SINGLE CORE CABLES
Flexible and Stranded

Available Sizes
0.50 sqmm to 630 sqmm

MULTI CORE CABLES
2/3/4 Core Flexible Cables

Available Sizes
1.0 sqmm to 120 sqmm

TWIN FLAT + EARTH CABLES (TFE)

Available Sizes
1.00 sqmm to 16 sqmm

MULTI CORE COPPER ARMOURED CABLES

Available Sizes
2 X 1.50 sqmm to 120 sqmm
3 X 1.50 sqmm to 120 sqmm
4 X 1.50 sqmm to 185 sqmm

MULTI CORE ALUMINIUM ARMOURED CABLES

Available Sizes
2 X 16.0 sqmm to 120 sqmm
3 X 16.0 sqmm to 120 sqmm
4 X 16.0 sqmm to 185 sqmm

ALUMINIUM CONCENTRIC SOLIDAL CABLES

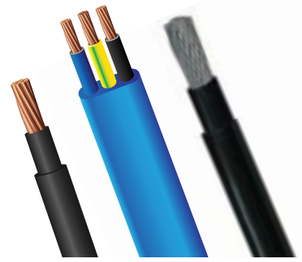
Available Sizes
10.0 sqmm to 70.0 sqmm

AERIAL BUNDLE CABLES(ABC)

Available Sizes
25.0 sqmm to 70.0 sqmm
(for single phase & 3 Phase supply system)

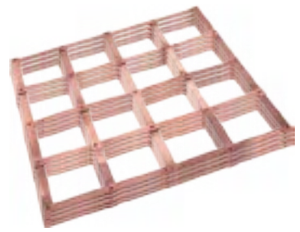
ALL ALUMINUM CONDUCTOR (AAC)

Available Sizes
16.0 sqmm to 400.0 sqmm



SPECIAL CABLES

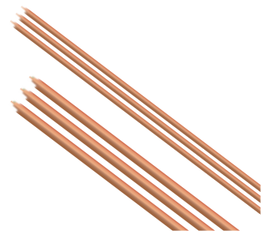
CAT 6E CABLES



COPPER EARTH MAT

COPPER LIGHTNING ARRESTOR

COPPER EARTH STRIP



COPPER EARTH ROD

LOW-VOLTAGE SINGLE CORE CABLES

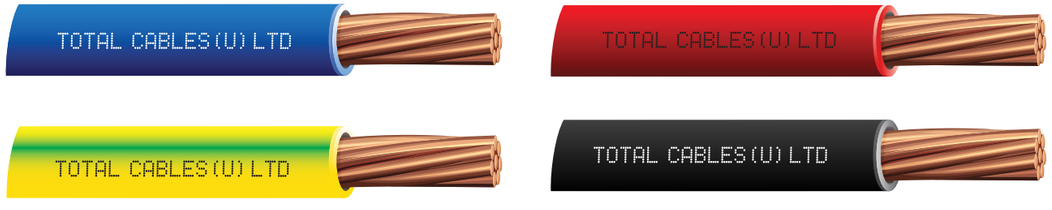
Ref. Standard : US 602, IEC - 60227 & BS -6004
Conductor' Mat. & Type : High Conductive Copper
Standard Length : 100 Yards or 100 mtrs in Roll form.
Operating Temp : -20°c to 70°c
Insulation Type/ Grade : General Purpose PVC @70*C and/ or HR, FR & FRLS and LFFR.

SINGLE CORE (Conductor Class -1 & 2) NON-SHEATHED PVC INSULATED WIRE 300/ 500V GRADE					
Nominal Cross-Section Area	No. of Wires/ Size	Insulation Thickness (Nominal)	Overall Wire Dia	Current Rating	Conductor Resistance @20°c
mm2	Nos/ mm	mm	~mm	Amps.	ohm/ Km
1.00	1/ 1.130	0.600	2.400	12	18.1
1.00	7/ 0.430	0.600	2.500	12	18.1
1.50	1/ 1.380	0.700	2.800	16	12.1
1.50	7/ 0.530	0.700	3.000	16	12.1
2.50	1/ 1.780	0.800	3.400	22	7.41
2.50	7/ 0.670	0.800	3.600	22	7.41
4.00	1/ 2.250	0.800	3.900	31	4.61
4.00	7/ 0.850	0.800	4.200	31	4.61
6.00	1/ 2.760	0.800	4.400	40	3.08
6.00	7/ 1.040	0.800	4.800	40	3.08
10.0	7/ 1.350	0.900	6.000	55	1.83
16.0	7/ 1.700	0.900	7.000	79	1.15

Note : *Above data is indicative & may change without any prior notice. Please contact company representative for more information's*

Available in Colors : Black, Red, Yellow, Blue & Yellow/ Green. Other Color may available on customer's request.

Applications : Common Building Wiring, Dry & damp premises, fixed installation in damage free clipped surface.



L T CONTROL & POWER CABLES

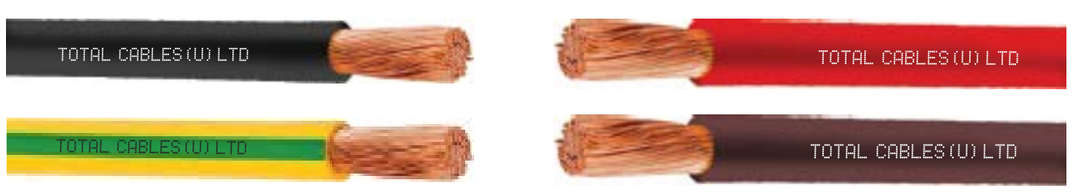
Ref. Standard : US 602, IEC - 60227 & BS - 6004
Conductor' Mat. & Type : High Conductive Copper
Conductor Type : Class -5 (Flexible)
Insulation Type/ Grade : General Purpose PVC @70*C and/ or HR, FR & FRLS and LFFR.

SINGLE CORE (FLEXIBLE) NON-SHEATHED PVC INSULATED WIRE 450/ 750V GRADE					
Nominal Cross-Section Area	No. of Wires/ Size	Insulation Thickness (Nominal)	Overall Wire Dia	Current Rating	Conductor Resistance
mm2	Nos/ mm	mm	~mm	Amps.	ohm/ Km
1.00	32/ 0.20	0.700	3.000	14	19.500
1.50	30/ 0.25	0.700	3.400	18	13.300
2.50	50/ 0.25	0.800	4.000	24	7.9800
4.00	56/ 0.30	0.800	4.600	32	4.9500
6.00	84/ 0.30	0.800	5.800	42	3.3000
10.0	80/ 0.40	1.000	7.200	55	1.9100
16.0	126/ 0.40	1.000	8.400	75	1.2100
25.0	196/ 0.40	1.200	10.600	100	0.7800
35.0	276/ 0.40	1.200	12.10	125	0.5540
50.0	396/ 0.40	1.400	14.20	165	0.3860
70.0	354/ 0.50	1.400	16.40	240	0.2720
95.0	484/ 0.50	1.600	18.60	300	0.2060
120.0	608/ 0.50	1.600	20.70	325	0.1610
150.0	750/ 0.50	1.800	23.10	366	0.1290
185.0	925/ 0.50	2.000	25.00	400	0.1850
240.0	1210/ 0.50	2.200	27.90	470	0.0801

Note : *Above data is indicative & may change without any prior notice. Please contact company representative for more information's*

Available Colors : Black, Red, Yellow/ Green or as specified by Customer

Applications : Building Wiring, Industrial wiring, Installation of switch Gears, lighting & appliances Connections. Secondary connections, Motor or other Equipment's Connections.



LOW VOLTAGE WIRING FLAT CABLES

Ref. Standard : US (Uganda Standard) - 602
Insulation Type : General Purpose PVC @70*C and/ or HR, FR & FRLS and LFFR.
Sheathing Type : General Purpose PVC @70*C

TWIN FLAT CABLE WITH EARTH CONTINUITY CONDUCTOR (TFE) 300/ 500 V					
Nominal Cross-Section Area	No. of Wires/ Size	Insulation Thickness (Nominal)	Earth Continuity Conductor (Area)	Overall Dia of Sheathing (T x W)	Weight of Finished Cable/ 100mtr.
mm2	Nos/ mm	mm	mm2	~mm	~ kg
1.00	1/ 1.130	0.600	1.00	4.70 x 8.60	6.90
1.00	7/ 0.430	0.600	1.00	4.70 x 8.60	7.20
1.50	1/ 1.380	0.700	1.00	5.40 x 9.60	8.60
1.50	7/ 0.530	0.800	1.00	5.40 x 9.60	9.20
2.50	1/ 1.780	0.800	1.50	6.20 x 11.5	12.6
2.50	7/ 0.670	0.800	1.50	6.20 x 11.5	13.0
4.00	1/ 2.250	0.800	2.50	7.20 x 13.0	18.9
4.00	7/ 0.850	0.800	2.50	7.20 x 13.0	19.8
6.00	1/ 2.760	0.800	4.00	8.00 x 15.0	24.4
6.00	7/ 1.040	0.800	4.00	8.00 x 15.0	25.5
10.0	7/ 1.350	0.900	6.00	9.60 x 19.0	39.0
16.0	7/ 1.700	0.900	10.0	11.0 x 22.0	56.8

Note : Above data is indicative & may change without any prior notice. Please contact company representative for more information's

Colors : Outer Sheath Black / Grey. Cores Color: Red & Black. Other colors on customer's request.
Applications : Common Building Wiring, Dry & damp premises, fixed installation in damage free clipped surface.

LT VOLTAGE SUBMERSIBLE FLAT CABLES

Ref. Standard : UNBS 602, IEC - 60227, BS -6500
Insulation Type : General Purpose PVC @70*C and/ or HR, FR & FRLS and LFFR.
Sheathing Type : General Purpose PVC @70*C

PVC INSULATED FLAT CABLE FOR SUBMERSIBLE PUMPS (1100V)						
Nominal Cross-Section Area	No. of Wires/ Size	Insulation Thickness (Nominal)	Nominal Cores Dia	Cable Dia (3Core) (T x W)	Cable Dia (4Core) (T x W)	Current Rating @40 °C
mm2	Nos/ mm	mm	mm	~mm	~mm	Amps
1.50	22/ 0.30	0.80	3.20	6.20 x 12.80	6.20 x 12.80	18.00
2.50	36/ 0.30	0.90	3.80	6.40 x 14.60	6.40 x 14.60	24.00
4.00	56/ 0.30	1.00	4.50	7.40 x 16.80	7.40 x 16.80	32.00
6.00	84/ 0.30	1.00	5.25	8.00 x 18.70	8.00 x 18.70	42.00
10.0	140/ 0.30	1.00	6.50	9.90 x 23.70	9.90 x 23.70	55.00
16.0	224/ 0.30	1.00	8.00	11.8 x 28.00	11.8 x 28.00	75.00
25.0	350/ 0.30	1.20	10.10	14.7 x 35.50	14.7 x 35.50	100.0
35.0	490/ 0.30	1.20	11.35	16.8 x 39.50	16.8 x 50.10	130.0
50.0	703/ 0.30	1.40	13.36	18.3 x 45.50	18.3 x 58.00	165.0

Note : Above data is indicative & subject to changes without any prior notice. Please contact company representative for more information's

Special Feature : Designed for Heavy Load in wet Condition, Weather Resistant, Soil Resistant.
Applications : For Continuous use in deep well supply to Submersible Pump Motor.

3 CORE

4 CORE

LT VOLTAGE POWER CABLES

Ref. Standard: : US 602, IEC - 60227 & BS -6004
Conductor' Mat. & Type : High Conductive Copper
Conductor Type : Class -1 & 2 (Rigid/ Stranded)
Insulation Type/ Grade : General Purpose PVC @70*C and/ or HR, FR & FRLS-H, LFFR, ZHLS, XLPE

SINGLE CORE (SOLID/ STRANDED) NON-SHEATHED PVC INSULATED WIRE 450/ 750V GRADE

Nominal Cross-Section Area	No. of Wires/ Size (Class-1)	No. of Wires/ Size (Class-2)	Insulation Thickness (Nominal)	Overall Wire Dia (Class 1 ~2)	Conductor Resistance
mm2	Nos/ mm	Nos/ mm	mm	~mm	ohm/ Km
1.00	1/ 1.130	7/ 0.430	0.700	2.60 ~ 2.80	18.100
1.50	1/ 1380	7/ 0.530	0.700	3.30 ~ 3.50	12.100
2.50	1/ 1780	7/ 0.670	0.800	3.90 ~ 4.20	7.4100
4.00	1/ 2.250	7/ 0.850	0.800	4.40 ~ 4 .80	4.6100
6.00	1/ 2.760	7/ 1.040	0.800	4.90 ~ 5.40	3.0800
10.0		7/ 1.350	1.000	6.800	1.8300
16.0		7/ 1.700	1.000	8.000	1.1500
25.0		7/ 2.100	1.200	9.800	0.7270
35.0		7/ 2.490	1.200	11.00	0.5240
50.0		7/ 3.000	1.400	13.00	0.3870
70.0		19/ 2.15	1.400	15.00	0.2680
95.0		19/ 2.49	1.600	17.00	0.1930
120.0		19/ 2.83	1.600	19.00	0.1530
150.0		37/ 2.26	1.800	21.00	0.1240
185.0		37/ 2.51	2.000	23.50	0.0991
240.0		37/ 2.85	2.200	26.50	0.0754
300.0		61/ 2.49	2.400	29.50	0.0601
400.0		61/ 2.85	2.600	33.50	0.0470
500.0		61/ 3.21	2.800	37.00	0.0366
630.0		61/ 3.51	2.800	41.00	0.0283

Note : Above data is indicative & may change without any prior notice. Please contact company representative for more information's

Available : Red, Black, Yellow/ Green or may be specified by Customer
Applications : Industrial fixed wiring Connections, Installation of switch Gears, lighting & appliances.

Sr. No.	Feature	LF FR Insulation	FRLS-H Insulation	ZH LS Insulation
1	Insulation Property (Resistance)	Good	Good	Very Good
2	Thermal Index	> 250 °C	> 250 °C	> 280 °C
3	Oxygen Index (as per ASTM D-2863)	> 30%	>30%	>35%
4	Release of Halogen Gas in burning	< 20	< 20	< 0.5
5	Abrasion Resistance at Wiring Installation	Good	Good	Excellent

LT VOLTAGE POWER CABLES

Ref. Standard : US 602, IEC - 60227 & BS -6004
Conductor' Mat. & Type : High Conductive Copper
Conductor Type : Class -1 & 2 (Rigid/ Stranded)
Insulation Type/ Grade : General Purpose PVC @70*C and/ or HR, FR & FRLS/XLPE
Sheathing Type/ Grade : General Purpose PVC @70*C

SINGLE CORE (SOLID/ STRANDED) SHEATHED PVC/XLPE INSULATED WIRE 600/ 1000V GRADE

Nominal Cross-Section Area	No. of Wires/ Size (Class-2)	Insulation Thickness (Nominal)	Thickness of Sheath	Overall Cable Dia	Conductor Resistance
mm2	Nos/ mm	mm	mm	~mm	ohm/ Km
10.0	7/ 1.350	1.00	1.10	9.100	1.830
16.0	7/ 1.700	1.00	1.20	10.50	1.150
25.0	7/ 2.100	1.20	1.20	12.30	0.727
35.0	7/ 2.490	1.20	1.30	13.60	0.524
50.0	7/ 3.000	1.40	1.40	15.10	0.387
70.0	19/ 2.15	1.40	1.40	16.90	0.268
95.0	19/ 2.49	1.60	1.50	19.40	0.193
120.0	19/ 2.83	1.60	1.50	21.00	0.153
150.0	37/ 2.26	1.80	1.60	23.20	0.124
185.0	37/ 2.51	2.00	1.70	25.80	0.0991
240.0	37/ 2.85	2.20	1.80	29.00	0.0754
300.0	61/ 2.49	2.40	1.90	32.10	0.0601
400.0	61/ 2.85	2.60	2.00	35.80	0.0470
500.0	61/ 3.21	2.80	2.10	39.60	0.0366
630.0	61/ 3.51	2.80	2.20	43.80	0.0283

Note : Above data is indicative & may change without any prior notice. Please contact company representative for more information's

Available Colors : Red, Black, Yellow/ Green or may be specified by Customer
Applications : Industrial fixed wiring Connections, Installation of switch Gears, lighting & appliances.

MULTI-CORE FLEXIBLE /CONTROL CABLES

Ref. Standard : US 602, IEC - 60227 & BS - 6004
Conductor Type : Class -5 (Flexible)
Insulation Type/ Grade : General Purpose PVC @70*C and/ or HR, FR & FRLS and LFFR.
Sheathing Type/ Grade : General Purpose PVC @70*C.

PVC INSULATED/ PVC SHEATHED ROUND FLEXIBLE COPPER CONDUCTOR CABLE

Nominal Cross-Section Area	No. of Wires/ Size	Insulation Thickness (Nominal)	Nominal Thickness of Outer sheath	Overall Dia of Sheathing (~mm)			Current Rating
				2 Core	3 Core	4 Core	
mm2	Nos/ mm	mm	mm	~mm	~mm	~mm	Amps.
1.00	32/ 0.20	0.70	1.20	7.60	8.10	8.9	11.0
1.50	30/ 0.25	0.80	1.20	8.50	9.20	9.8	16.0
2.50	50/ 0.25	0.80	1.20	9.70	10.4	11.2	21.0
4.00	56/ 0.30	0.80	1.20	10.7	11.5	12.6	29.0
6.00	84/ 0.30	0.80	1.20	11.8	12.7	14.3	36.0
10.0	80/ 0.40	1.00	1.40	15.0	15.6	17.2	46.0
16.0	126/ 0.40	1.00	1.40	16.8	18.2	20.3	64.0
25.0	196/ 0.40	1.20	1.60	21.0	22.4	24.8	84.0
35.0	276/ 0.40	1.20	1.60	23.5	24.8	27.4	105.0
50.0	396/ 0.40	1.40	1.80	25.4	28.7	32.4	130.0

Note : Above data is indicative & may change without any prior notice.
Please contact company representative for more information's

Available in Colors : > Outer Sheath Black. Cores Color (2 Core- Red & Black), 3 Core- Red, Black & Blue, 4 Core- Red, Black, Blue & Yellow/ Green.
> Other color may available on customer's request.

Applications : For Industrial use, Secondary connections, Portable Supply, Motor or other equipment's connections.

LT VOLTAGE ARMOURED CABLES

Ref. Standard : US 601, IEC - 60502
Conductor Material : High Conductive Copper / EC Grade Aluminum
Conductor Type : Class -1 & 2
Insulation Type/ Grade : General Purpose PVC @70*C and/ or XLPE Crosslink.
Sheathing Type/ Grade : General Purpose PVC @70*C

PVC/XLPE INSULATED/ PVC SHEATHED ROUND/SHAPED CONDUCTOR CABLE

Nominal Cross-Section Area	No. of Wires/ Size	Insulation Thickness (Nominal)	Nominal Thickness of Outersheath	Overall Dia of Finished Cable (~mm)		
				2 Core	3 Core	4 Core
mm2	Nos/ mm	mm	mm	~mm	~mm	~mm
1.50	7/ 0.53	0.60	1.60	10.0	10.8	12.0
2.50	7/ 0.67	0.70	1.60	11.1	12.3	13.2
4.00	7/ 0.85	0.80	1.60	13.0	14.5	15.1
6.00	7/ 1.01	0.80	1.80	15.0	15.6	17.0
10.0	7/ 1.35	1.00	1.80	16.0	17.0	19.0
16.0	7/ 1.71	1.00	1.80	17.1	18.4	21.2
25.0	7/ 2.10	1.20	2.00	19.2	21.0	23.4
35.0	7/ 2.49	1.20	2.00	20.5	23.5	26.7
50.0	7/ 3.00	1.40	2.00	23.0	26.0	29.0
70.0	19/ 2.15	1.40	2.00	25.6	29.1	32.2
95.0	19/ 2.49	1.60	2.20	28.8	33.0	37.0
120.0	19/ 2.83	1.60	2.20	31.0	36.2	41.2
150.0	37/ 2.26	1.80	2.40	33.2	40.0	45.5
185.0	37/ 2.51	2.00	2.40	36.4	43.6	50.8
240.0	37/ 2.85	2.20	2.60	42.1	49.3	56.1
300.0	61/ 2.49	2.40	2.80	45.0	54.0	62.0

Note : Above data is indicative & may change without any prior notice.
Please contact company representative for more information's

Available in Colors : > Outer Sheath Black. Cores Color (2 Core- Red & Black), 3 Core- Red, Yellow & Blue, 4 Core- Red, Yellow, Blue & Black.
> Other color may available on custoer's request.

Applications : For Industrial use, Secondary connections, Portable Supply, Motor or other equipments connections.

SPECIAL CABLES (Co-axial TV Cables, CCTV Cables, CAT-6 LAN & Telephone Cables)

CO-AXIAL TV & DTH CABLE

Use in TV signal operations to transmit the video signal from DTH to you TV.

Construction Parameters:

Sr. No	Construction Data	RG-11	RG-11CCS	RG -6	RG -6 CCS	RG 59
1	Center Conductor Dia	1.60	1.60	1.00	1.00	0.80
2	Outer Sheathing	PVC	PVC	PVC	PVC	PVC
3	Cable Dia (mm)	10	10	7.0	7.0	6.2

CC TV CABLE

CC TV Cable are normally offered in two types namely (4+1 CCTV) & (3+1 CCTV) Cables. Co-axial cable form the carrier of video signal and other '4 Core and 3 Core' form the carrier of DC Power.'Total Cables' designed the CC TV cable to transmit the video frequency with minimum distortion.

Construction Data

Conductor	Annealed Copper Conductor 99.9%
Insulation Material	High Density Polythene
Dia of Insulation	1.35mm
Outer Sheath Mater	Polyvinyl Chloride
Dia of Outer Sheath	6.20mm ± 0.20mm

LAN CABLE -COMPLETE NETWORKING SOLUTION

CAT -6, Category -06 refers to CAT -6 is a standardized twist paired cable for Gigabyte Ethernet and other network.
CAT -6 Cable provide excellent performance up to 250Mhz

Max. Operating Voltage	72VDC	Dielectric Strength	1.0kV DC, 0.75kV ~
Conductor Material	24AWG Cu	Insulation Material	HDPE
Cable Dia	~ 5.6±0.3	Outer Sheath Mat. & Color	PVC / Grey
Pulleying Force during Installation	11.5 kg Max.		

TELEPHONE SWITCH BOARD CABLE

These cables are used indoor telephone, EPABX Connections, Industrial or Commercial Communication system &/ or Close Circuit Security Systems.

Construction
Solid Annealed Bare Copper Wire Conductor, PVC Insulated Core with identical manner, Twisted Pairs and PVC Sheath

Conductor Size : 0.40mm & 0.50mm,
Available : 01 Pair. 02 Pair, 03 Pair, 04 Pair, 10 Pair and 20 Pair

DC SOLAR CABLES (Photovoltaic UV Resistant)

Applicable Standard : DIN 53387 (UV Resistant)

DC Solar cables are intended to use photovoltaic power supply and similar types of applications, free hanging, movable and fixed types of installation. These cable can be used in explosive area of industries, agriculture, as well as indoor or out door.

Total Cables' are designed to suit these applications and equipped with protective Insulation.

Silent Features and Parameters:

Maximum operating Temperature	90°C
Short Circuit Temperature	250°C for 5 seconds
Rated Voltage (AC/ DC	1100 V~ / 1500V DC
Conductor Construction	High Conductive Tinned Conductor Class -5 (ASTM B-8)
Core Identification	Black for Negative & Red for Positive Supply
Cable Identification or Sheath Color	Black for Negative & Black with Red line for Positive Supply

Note : *Above data is indicative & may be changes without any prior notice. Please contact company representative for more information's*

Available Packing : 100mtrs & 500 mtrs Coil or as per Customer's request for project.
Sizes available : 2.50mm2 to 50mm2 as per Cable Size Standard ASTM B-8

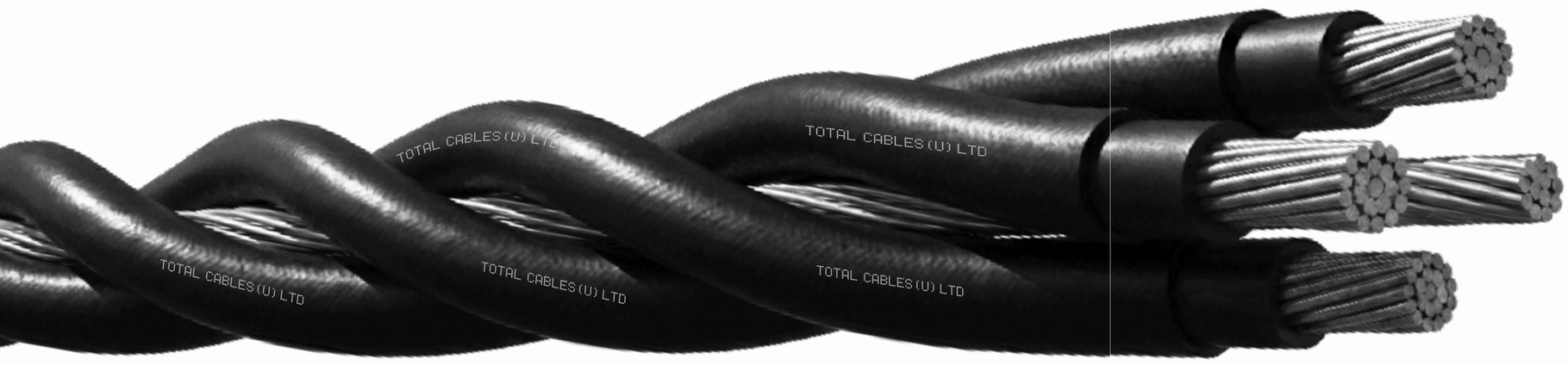
Aluminium Conductors

ARIAL BUNCHED/ BUNDLE, LT XLPE INSULATED CABLES

Reference. Standard : US IEC 60502- 1, SANS - 1418, IS -14255 & BS 7870-5
Conductor Material & Type : Hard Drawn Electrolytic Aluminum
Conductor Type : Stranded/ Bunched, Class - 02
Insulation Type/ Grade : Cross Link Polymers High Resistance

CONSTRUCTION DETAILS:

Nominal Size	No. of Strands	Dia of Conductor	Thickness of Insulation	Core Diameter	Cable Overall Dia	Cable Mass	Types of Cables
Sq.mm	Nos.	mm	mm	mm	mm	kg./km	
25.0	7	6.50	1.40	9.40	26.0	510.0	Phase for carrying current or Auxiliary Neutral
35.0	7	7.50	1.60	10.8	28.0	614.0	
50.0	7	8.50	1.60	11.8	32.0	730.0	
70.0	19	10.2	1.80	13.9	36.0	946.0	
95.0	19	12.0	1.80	15.8	38.0	1,185.0	
120.0	19	13.6	1.80	17.5	42.0	1,615.0	
150.0	19	18.1	1.80	18.5	48.0	1,885.0	
16.0	7	5.2	1.20	8.0	-		Service connection or Supporting messanger alloys
25.0	7	6.5	1.40	9.5	-		
54.5	7	9.6	1.60	12.9	-		
70.0	7	10.4	1.60	13.5	-		



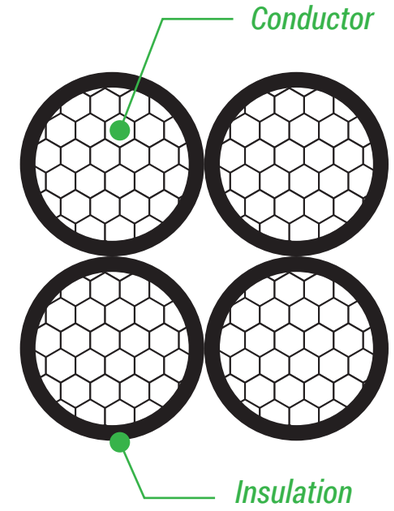
ARIAL BUNCHED/ BUNDLE, LT XLPE INSULATED CABLES

ELECTRICAL & MECHANICAL PROPERITIES

Working Temperature Range : -40°C to 80°C
Voltage Grade : 600/ 1000V

Nominal Size	Conductor Resistance of Bunched Conductor	Minimum Breaking Load	Permissable Current Rating (Phase)	Types of Cables
Sq.mm	Max. Ω/km @20°C	KN	Amps.	
25.0	1.200	3.30	122.0	Phase for carrying current or Auxiliary Neutral
35.0	0.868	4.50	138.0	
50.0	0.641	6.20	169.0	
70.0	0.443	8.90	214.0	
95.0	0.320	12.30	260.0	
120.0	0.253	15.60	299.0	
150.0	0.206	19.20	330.0	
16.0	1.910	4.90	-	Service connection or Supporting messanger alloys
25.0	1.200	7.65	-	
54.5	0.630	16.60	-	
70.0	0.500	20.10	-	

Note: Above data is indicative & may change without any perior notice. Please contact company representative for more information.



SOLIDAL CONCENTRIC CABLES

Reference. Standard : US IEC 60502- 1, BS 5467
Conductor Material & Type : Hard Drawn Electrolytic Aluminum
Conductor Type : Solid Conductor or Stranded Conductor
Insulation Type/ Grade : Cross Link Polymers High Resistance
Core Identification : Red or Natural
Armouring Material : Galvinized Steel Wire/ Strip corrosion free.
Outer Sheathing : Polyvinyl Choloride with Black Color
Voltage Grade : 600/ 1000V

CONSTRUCTION DETAILS:

Descriptions	1	2	3	4	5	6
Phase Conductor (mm²)	10.0	16.0	25.0	35.0	50.0	70.0
Conductor Nominal Dia	3.50	4.50	5.61	6.65	7.95	9.42
Nominal Insulation Thickness (mm)	1.00	1.00	1.20	1.20	1.40	1.40
Neutral Conductor Dia (mm)	0.70	1.0	1.25	1.5	1.81	2.30
No. of Conductor in Neutral	24	20	20	19	19	18
Binder Tape Thickness (mm)	0.05	0.05	0.05	0.05	0.05	0.05
Outer Sheath Thickness (mm)	0.90	1.0	1.1	1.1	1.2	1.4
Overall Dia of Cable (Aprox/ mm)	8.9	10.7	12.9	14.4	16.9	19.8

Note: Above data is indicative & may change without any perior notice. Please contact company representative for more information.

ALL ALUMINUM CONDUCTOR (AAC)

Reference. Standard : US IEC 61089, BS 3242, BS 215-2, ASTM - B399 & IS 398-2
Conductor Material & Type : Hard Drawn Electrolytic Aluminum
Conductor Type : Stranded/ Bunched

CONSTRUCTION DETAILS:

Nominal Size	No. of Strands	Dia of Strands	Aprox Conductor Dia	Max. Resistance @20°C	Approx Mass	Minimum Breaking Load
Sq.mm	Nos.	mm	mm	Ω/km	kg/km	KN
22	7	2.06	6.20	1.2270	64	3.99
50	7	3.10	9.30	0.5420	145	8.28
60	7	3.40	10.25	0.4505	174	9.90
100	7	4.39	13.20	0.2702	290	16.0
150	19	3.25	16.30	0.1825	434	25.7
200	19	3.78	18.90	0.1350	587	32.4
250	19	4.22	21.20	0.1083	731	40.4
300	19	4.65	23.30	0.0892	888	48.8
400	37	3.78	26.50	0.0694	1145	63.1

Apart from the above size, there are many more sizes and constructions existing in the reference standards mentioned above. For intermediate sizes and constructions, please ask for Technical Data Sheet.

Note: Above data is indicative & may change without any perior notice. Please contact company representative for more information.

ALUMINUM CONDUCTOR STEEL RAINFORCED (ACSR)

Reference. Standard : US IEC 61089, BS 3242, BS 215-2, ASTM - B399 & IS 398-2
Conductor Material & Type : Hard Drawn Electrolytic Aluminum & High Tensile Galvinized Steel Core
Conductor Type : Stranded/ Bunched

CONSTRUCTION DETAILS:

Nominal Size	Size/ No. of Strands Steel	Size/ No. of Strands Aluminum	Aprox Overall Conductor Dia	Max. Resistance @20°C	Approx Mass	Minimum Breaking Load
Sq.mm	Nos.	mm	mm	Ω/km	kg/km	KN
25	1/ 2.36	6/ 2.36	7.10	1.0930	106	9.65
30	1/ 2.59	6/ 2.59	7.80	0.9077	128	11.50
40	1/ 3.00	6/ 3.00	9.00	0.6766	172	15.25
50	1/ 3.35	6/ 3.35	10.00	0.5426	215	18.40
70	7/ 2.79	12/ 2.79	14.00	0.3936	538	61.20
100	7/ 1.57	6/ 4.72	14.20	0.2733	394	32.70
150	7/ 2.59	30/ 2.59	18.20	0.1828	726	69.20
175	7/ 2.79	30/ 2.79	19.50	0.1576	842	79.80
200	7/ 3.00	30/ 3.00	21.00	0.1363	975	92.25
400	7/ 3.18	54/ 3.18	28.65	0.0674	1620	132.0

Apart from the above size, there are many more sizes and constructions existing in the reference standards mentioned above. For intermediate sizes and constructions, please ask for Technical Data Sheet.

Note: Above data is indicative & may change without any perior notice. Please contact company representative for more information.

POWER CABLE ALUMINUM CONDUCTOR (SINGLE CORE)

Reference. Standard : US IEC 60502-1, BS 5467, IS 1554-1
Conductor Material & Type : Hard Drawn Electrolytic Aluminum
Conductor Type : Stranded/ Bunched Class - 02
Insulation Type/ Grade : PVC/ Cross Link Polymers High Resistance
Core Identification : Red/ Black or Natural
Armoring Material : Galvinized Steel Wire/ Strip corrosion free.
Outer Sheathing : Polyvinyl Choloride with Black Color
Voltage Grade : 600/ 1000V

CONSTRUCTION DETAILS:

Nominal Size	No. of Strands / Size	Nominal Insulation	Armoring Wire/ Strip	Max. Resistance @20°C	Thickness of Sheath	Aprox Overall Dia of Cable
Sq.mm	Nos. / mm	mm	mm	Ω/km	mm	mm
50	7/ 3.00	1.00	1.25	0.6410	2.0	19.5
70	19/ 2.14	1.10	1.25	0.4430	2.0	21.5
95	19/ 2.50	1.10	1.25	0.3200	2.2	23.4
120	37/ 2.83	1.20	1.60	0.2530	2.2	25.9
150	37/ 2.25	1.40	1.60	0.2060	2.4	27.9
185	37/ 2.52	1.60	1.60	0.1640	2.4	30.0
240	37/ 2.85	1.70	1.60	0.1250	2.5	33.2
300	61/ 2.49	1.80	1.60	0.1000	2.8	35.7
400	61/ 2.85	2.00	0.80 x 4.0	0.0778	2.8	40.7
500	61/ 3.21	2.20	0.80 x 4.0	0.0605	3.0	44.5
630	61/ 3.62	2.40	0.80 x 4.0	0.0469	3.0	49.0

Note: Above data is indicative & may change without any perior notice. Please contact company representative for more information.

POWER CABLE ALUMINUM CONDUCTOR (TWO CORE)

Reference. Standard	: US IEC 60502-1, BS 5467, IS 1554-1
Conductor Material & Type	: Hard Drawn Electrolytic Aluminum
Conductor Type	: Stranded/ Bunched Class - 02
Insulation Type/ Grade	: Cross Link Polymers High Resistance
Core Identification	: Red and Black
Armouring Material	: Galvinized Steel Wire/ Strip corrosion free.
Outer Sheathing	: Polyvinyl Choloride with Black Color
Voltage Grade	: 600/ 1000V

CONSTRUCTION DETAILS:

Nominal Size	No. of Strands / Size	Nominal Insulation	Armoring Wire/ Strip	Max. Resistance @20°C	Thickness of Sheath	Aprox Overall Dia of Cable
Sq.mm	Nos. / mm	mm	mm	Ω/km	mm	mm
16	7/ 1.71	0.70	1.25	1.9100	1.8	17.20
25	7/ 2.14	0.90	1.25	1.2000	2.0	19.20
35	7/ 2.49	0.90	1.25	0.8680	2.0	20.50
50	7/ 3.00	1.00	0.80 x 4.0	0.6410	2.0	23.00
70	19/ 2.14	1.10	0.80 x 4.0	0.4430	2.0	25.60
95	19/ 2.50	1.10	0.80 x 4.0	0.3200	2.2	29.00
120	37/ 2.83	1.20	0.80 x 4.0	0.2530	2.2	31.00
150	37/ 2.25	1.40	0.80 x 4.0	0.2060	2.4	33.50
185	37/ 2.52	1.60	0.80 x 4.0	0.1640	2.4	36.50
240	37/ 2.85	1.70	0.80 x 4.0	0.1250	2.5	42.50
300	61/ 2.49	1.80	0.80 x 4.0	0.1000	2.8	45.00

Conductor Size greater than 25.0 mm2 will be compected and shaped condition

Note: Above data is indicative & may change without any perior notice. Please contact company representative for more information.

POWER CABLE ALUMINUM CONDUCTOR (THREE CORE)

Reference. Standard	: US IEC 60502-1, BS 5467, IS 1554-1
Conductor Material & Type	: Hard Drawn Electrolytic Aluminum
Conductor Type	: Stranded/ Bunched Class - 02
Insulation Type/ Grade	: PVC/ Cross Link Polymers High Resistance
Core Identification	: Red, Yellow and Blue
Armouring Material	: Galvinized Steel Wire/ Strip corrosion free.
Outer Sheathing	: Polyvinyl Choloride with Black Color
Voltage Grade	: 600/ 1000V

CONSTRUCTION DETAILS:

Nominal Size	No. of Strands / Size	Nominal Insulation	Armoring Wire/Strip	Max. Resistance @20°C	Thickness of Sheath	Aprox Overall Dia of Cable
Sq.mm	Nos. / mm	mm	mm	Ω/km	mm	mm
16	7/ 1.71	0.70	1.25	1.9100	1.8	18.5
25	7/ 2.14	0.90	1.25	1.2000	2.0	21.0
35	7/ 2.49	0.90	1.25	0.8680	2.0	23.5
50	7/ 3.00	1.00	0.80 x 4.0	0.6410	2.0	26.0
70	19/ 2.14	1.10	0.80 x 4.0	0.4430	2.0	29.2
95	19/ 2.50	1.10	0.80 x 4.0	0.3200	2.2	33.0
120	37/ 2.83	1.20	0.80 x 4.0	0.2530	2.2	36.5
150	37/ 2.25	1.40	0.80 x 4.0	0.2060	2.4	40.0
185	37/ 2.52	1.60	0.80 x 4.0	0.1640	2.4	43.6
240	37/ 2.85	1.70	0.80 x 4.0	0.1250	2.5	49.5
300	61/ 2.49	1.80	0.80 x 4.0	0.1000	2.8	54.0

Conductor Size greater than 25.0mm2 will be compected and shaped condition

Note: Above data is indicative & may change without any perior notice. Please contact company representative

POWER CABLE ALUMINUM CONDUCTOR (FOUR CORE)

Reference. Standard	: US IEC 60502-1, BS 5467, IS 1554-1
Conductor Material & Type	: Hard Drawn Electrolytic Aluminum
Conductor Type	: Stranded/ Bunched Class - 02
Insulation Type/ Grade	: PVC/ Cross Link Polymers High Resistance
Core Identification	: Red, Yellow, Blue and Black
Armouring Material	: Galvinized Steel Wire/ Strip corrosion free.
Outer Sheathing	: Polyvinyl Choloride with Black Color
Voltage Grade	: 600/ 1000V

CONSTRUCTION DETAILS:

Nominal Size	No. of Strands / Size	Nominal Insulation	Armoring Wire/Strip	Max. Resistance @20°C	Thickness of Sheath	Aprox Overall Dia of Cable
Sq.mm	Nos. / mm	mm	mm	Ω/km	mm	mm
16	7/ 1.71	0.70	1.25	1.9100	1.8	21.5
25	7/ 2.14	0.90	1.25	1.2000	2.0	23.5
35	7/ 2.49	0.90	1.25	0.8680	2.0	26.8
50	7/ 3.00	1.00	0.80 x 4.0	0.6410	2.0	29.0
70	19/ 2.14	1.10	0.80 x 4.0	0.4430	2.0	32.5
95	19/ 2.50	1.10	0.80 x 4.0	0.3200	2.2	37.0
120	37/ 2.83	1.20	0.80 x 4.0	0.2530	2.2	41.5
150	37/ 2.25	1.40	0.80 x 4.0	0.2060	2.4	45.5
185	37/ 2.52	1.60	0.80 x 4.0	0.1640	2.4	50.9
240	37/ 2.85	1.70	0.80 x 4.0	0.1250	2.5	56.2
300	61/ 2.49	1.80	0.80 x 4.0	0.1000	2.8	62.0

Conductor Size greater than 25.0 mm^2 will be compected and shaped condition

Note: Above data is indicative & may change without any perior notice. Please contact company representative for more information.

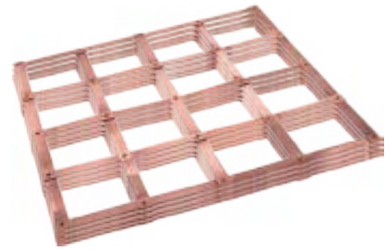
EARTHING MATERIAL

LIGHTENING ARRESTER

2 Ft.	ø 12.0 x 600 mm
	ø 14.0 x 600 mm
	ø 16.0 x 600 mm
4 Ft	ø 12.0 x 1200 mm
	ø 14.0 x 1200 mm
	ø 16.0 x 1200 mm

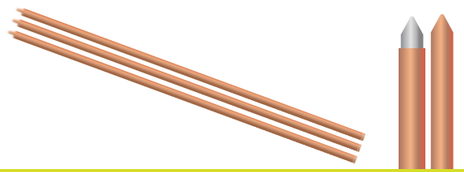
EARTH MAT

Copper Strip Size	Mat Size
22.0mm x 2.0mm	500mm x 500mm
	600mm x 600mm
	900mm x 900mm
25.0mm x 3.0mm	500mm x 500mm
	600mm x 600mm
	900mm x 900mm
	1000mm x 1000mm



EARTH ROD

Rod Size	Length of Rod.
ø 12.0	> 1200 mm
ø 14.0	> 1500 mm
ø 16.0	* Length may be changed as per request.
ø 20.0	



COPPER STRIP

Strip Size
19.85 x 2.00mm
22.00 x 2.00mm
22.00 x 2.20mm
25.00 x 2.20mm
25.00 x 3.00mm

Note : Above data is indicative & may be changes without any prior notice. Please contact company representative for more information's

Applications : for the protection of Houses, Shops, Malls, Factories and Commercial Buildings from Thunder storm Lightening.

Number **801582**

CERTIFICATE

Total Cable (U) Ltd.

Plot No- 140, Kayunga Road, Njeru, Jinja, Uganda

has implemented and maintains a Quality Management System which fulfills Nemko's provisions for Management System Certification and the requirements of the following standard

ISO 9001:2015

with the scope described by the organization, 2025-07-15

The certificate covers the following activities:

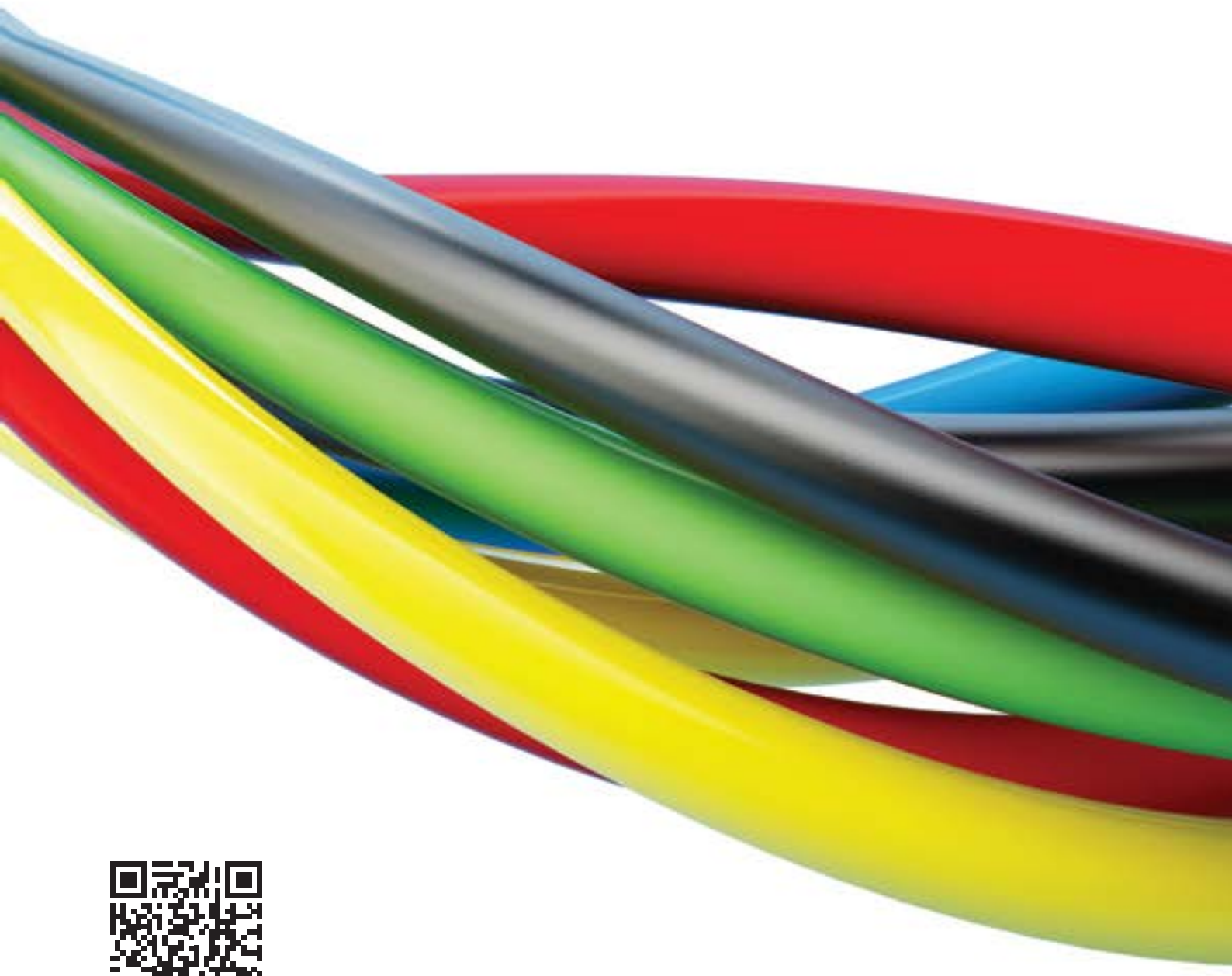
Design/ manufacturing & sales for:
1) bare copper/ aluminum wires, rods/ strips & profiles.
2) multi-purpose pvc/ xlpe insulated electric cables and control cables.
3) over head ACSR & AAAC

Oslo, 2026-01-08

Helena Vogl
Nemko Scandinavia AS, Certification Department

First time issued **2026-01-08**
Expires **2029-01-08**

Notes



For More information

TOTAL CABLES

Total Cables (U) Limited

Plot No. 140, Kayunga Road.
P.O. Box 2228, Jinja, Uganda.

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+256 748 752 443

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