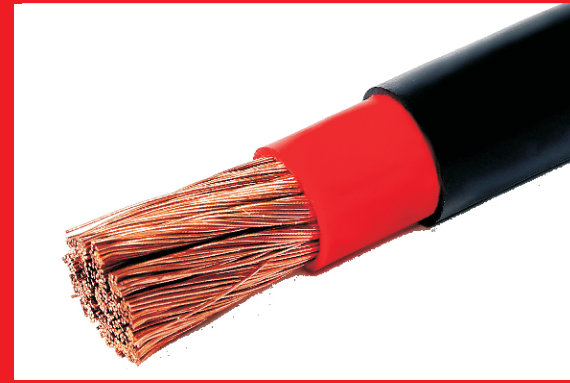
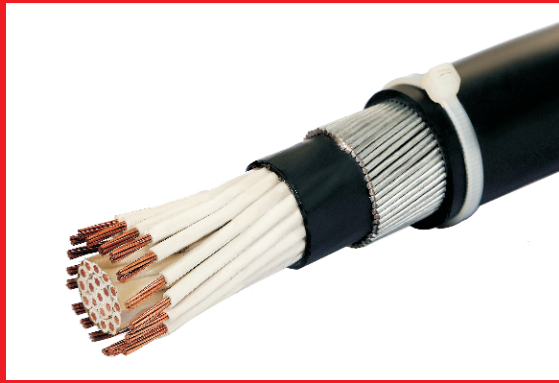
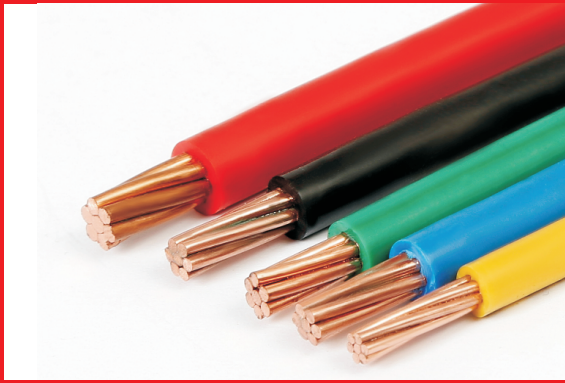


UNIVERSAL METALS (PVT.) LTD.

SONATM

The Complete Solution





Lighting Distribution Cables

UNIVERSAL METALS (PVT.) LTD. with the brand name of **SONA** Cables has launched lighting distribution cables in order to meet the wiring requirements of all domestic, industrial and commercial buildings. The features of these cables have also been diversified; Stranded Compacted and Shaped Conductors, Single to Multi Cores, both in Copper and Aluminum. These cables are largely used for all types of applications, where their immunity to damage by moisture, together with inherent toughness and flexibility over a wide temperature range (fire resistant and retardant nature) makes them particularly suitable to the respective purpose.

Quality is our primary focus and distinction to be the first wire & cable company of Pakistan accredited with ISO 9001:2008 (Quality) OHSAS 18001: 2007 (Health & Safety) and ISO 14001: 2004 (Environment) which reflects our commitment towards quality, safety and environment. Lighting Distribution cables are designed and manufactured from the best quality raw material and imported copper having minimum purity of 99.99% with our aim to reduce consumption of electricity with easy flow of current together with minimum resistance to ensure low electricity bills and to provide optimum performance.

Our plant is fully equipped with the latest imported production machinery coupled with testing facilities backed up by experienced and dedicated team of Engineers and Technicians. To ensure quality products. In addition to the quality and the safety, environment is also given prime importance while designing and manufacturing. Safety of the people and their valuable property is a significant factor for us, so we supply a range of alternative designs to meet more specialized customer's needs including enhanced fire performance and added environmental protection in order to eliminate smoke and toxic gases under fire by using low smoke zero halogen material. Our constant innovation and modernization justify our claim. New demands are continually emerging in the energy sector and these are the demands which we are fully prepared to meet.

Specifications

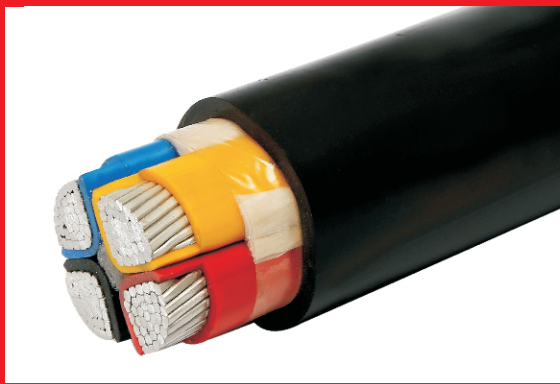
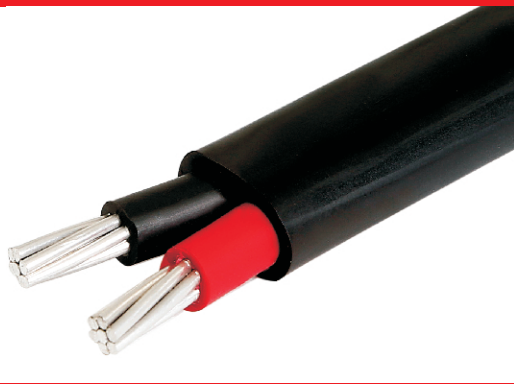
In the field of manufacturing various kinds of cables, we have been keeping up with rapidly advancing technical paces. As a result, all specification needs of IEC, JIS, DIN & all relevant British Standard Specification amended to date have been satisfied by our high quality oriented staff. Lighting Distribution cables are generally manufactured with PVC Insulation & Outer Sheath conforming to latest international standards. Our standard cable uses plain annealed solid/stranded/flexible copper conductors conforming to BS 6360. PVC Insulation conforming to BS: 6746 are generally used for our Lighting Distribution Cables. Regular insulation colors are **Red, Yellow, Blue, Black** and **Green** and other colors can be manufactured upon request.

Product Range

Within our premises a wide range of technical know-how has been accumulated and our experienced staff is highly geared towards the high degree quality control measures and are involved in research and development activities. We with the continuous support of our valued clients are sternly putting our best efforts to provide them with the best. The Complete quality Copper Rod, Paper Insulated Strip, Enamelled & Submersible wires and PVC Insulated Cables. We believe that with our services in power sector we will be able to contribute towards our client's cost effective system designing.

Our Halogen Free, Low Smoke, Fire Retardant & Resistant Cables

We have concerns relating to the performance of cables in fire and this has been the subject of extensive study at our R and D department for the past couple of years. Our concern related to spread of fire, generation of smoke and generation of acidic fumes which gives rise to the development of low smoke, Halogen Free Fire Retardant Compounds in order to provide our valued customers an enhanced fire performance and added environmental protection. We can supply cables with special Fire Retardant PVC Insulation and Over sheath complying to IEC:



- HFFR – Halogen Free, Flame Retardant.
- FRNC – Fire Retardant, None Corrosive

We also supply Fire Resistant cables with Low Smoke and Zero Halogen Insulation and Sheath complying to BS 6724, or other equivalent International Standards of the following names and acronyms.

- LSOH – Low Smoke, Zero (0) Halogen.
- LSF – Low Smoke & Fumes

Our Quality & Support

Our premises have an In-house Wires and Cables testing Laboratory for checking quality. We check all the electrical and physical test parameters from the import of raw materials, to manufacturing-stage testing, to final dispatch and shipping, according to standard specification or according to client's required specification.

All our Quality Assurance procedures are regularly audited by International Standards Organization and all routine testing is carried out according to standard specifications.

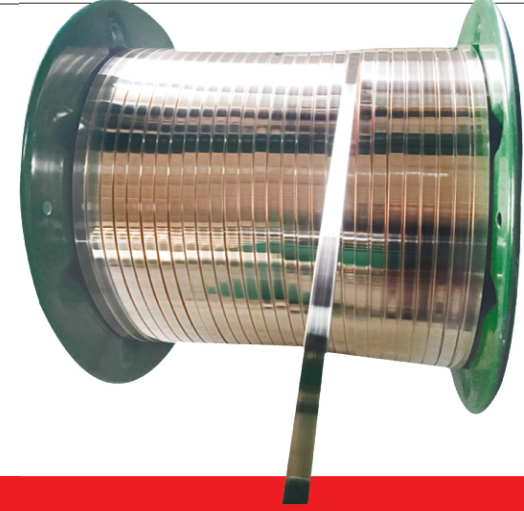
We have been providing training to our staff on regular basis in order to equip them with the modern and recent advancement in their respective fields. They are incessantly involved in bringing innovation and moving towards advancement in line with existing and modern trends.

Our Customer-ship Philosophy

We understand that you need more than a specialty product from a manufacturer.

Comparison between Standard Imperial and the nearest Standard Metric Sizes of Conductors and their Current Ratings for Electrical Cables.

Standard Imperial Stranding / Wire Diameter inch	Inch ² Converted to mm ²	Nearest Metric Standard Size mm 2	Current Rating Single Phase 2-Cables AMPs
1/.044	0.98	1	13.5
3/.029	1.29	1.5	17.5
3/.036	1.94	1.5	17.5
7/.029	2.90	2.5	24.0
7/.036	4.52	4	32.0
7/.044	6.45	6	41.0
7/.052	9.35	10	57.0
7/.064	14.52	16	76.0
19/.052	25.81	25	101.0
19/.064	38.71	35	125.0
19/.072	48.39	50	151.0
19/.083	64.52	70	192.0
37/.072	96.77	95	232.0
37/.083	129	120	269.0
37/.093	161.3	150	300.0
37/.103	193.6	185	341.0
61/.093	258.1	240	400.0
61/.103	322.6	300	458.0
91/.093	387.1	400	546.0
91/.103	483.9	500	626.0
127/.103	645.2	630	720.0
For Flexible Cables			
14/0.0076	0.409	0.50	3.0
23/0.0076	0.673	0.75	6.2
40/0.0076	1.171	1.0	10.0
70/0.0076	2.049	1.5	16.0
110/0.0076	3.219	2.5	25.0
162/0.0076	4.741	4.0	32.0



Our Enlistments



Our Certifications



Technical Collaborations








Our group other products



Universal Metals (Pvt.) Ltd.



SONA™
The Complete Solution

-  47-B-1, Gulberg - III, Lahore - Pakistan.
-  +92-42-111-117-662
-  +92-42-35778216
-  info@universalmetals.com.pk
-  www.universalmetals.com.pk