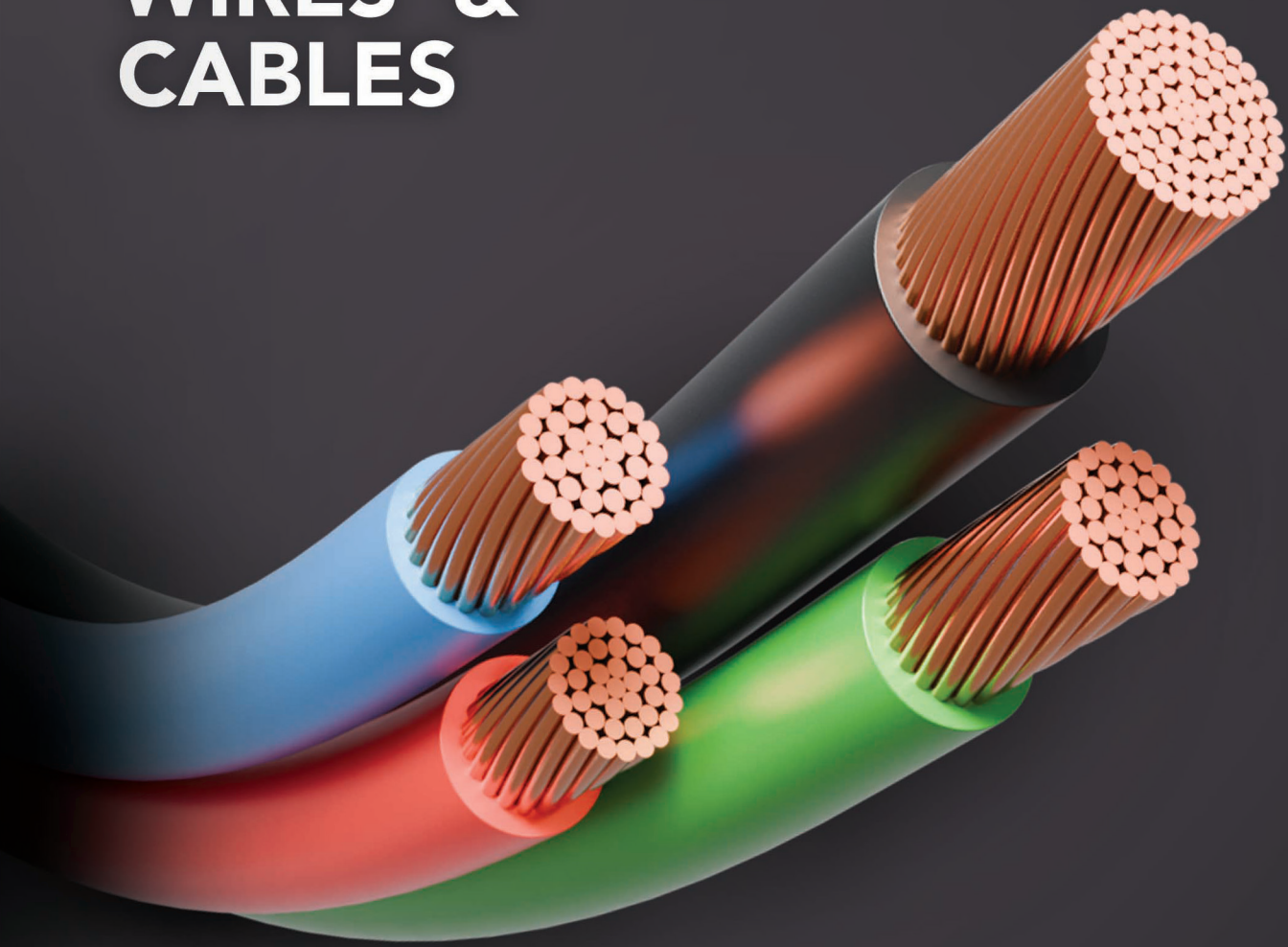


BUILDING WIRES & CABLES



Introduction



إحدى شركات مجموعة كابلات الرياض
One of Riyadh Cables Group Companies

Pioneering Excellence in Iraq's Electrical Cable Industry



Al Rowad Company proudly leads Iraq's electrical cable industry, specializing in the production of low and medium voltage cables. Strategically located in South Baghdad, our sprawling 75,000-square-meter facility houses state-of-the-art production lines, advanced machinery, and cutting-edge quality testing systems. This relentless pursuit of excellence has earned Al Rowad prestigious certifications such as ISO 14001, 9001, and 45001, solidifying our position as a regional leader in the Middle East.

As an integral part of the Riyadh Cables Group's global network, Al Rowad embodies the group's commitment to industrial and commercial integration. From raw materials to the finished product, every step of the manufacturing process is completed in-house, ensuring unparalleled quality, efficiency, and innovation.

Riyadh Cables Group

Founded in 1984, Riyadh Cables Group has grown into one of the largest manufacturers and exporters of electrical cables. Our commitment to international quality standards, safety, and continuous innovation has positioned us as a trusted name in the industry. The group's product range includes Low Voltage (LV), Medium Voltage (MV), High Voltage (HV), Extra High Voltage cables, overhead conductors, control cables, low smoke cables, and fire-resistant cables.

Supporting Iraq's Growth

With Iraq's rapidly expanding energy sector, the demand for high-quality cables has soared. To meet this growing need, Riyadh Cables Group has made significant investments through Al Rowad, ensuring that Iraq is equipped with the best in electrical cable technology. This investment not only meets the domestic market's needs but also creates valuable job opportunities and facilitates exports.

Our Product Range

- Building Wires
- Specialized Wires and Cables
- Fire-Resistant Cables and Wires
- Control Cables
- Low Voltage Cables
- Medium Voltage Cables
- Overhead Conductors

At Al Rowad, we're not just manufacturing cables; we're powering Iraq's future.

450 -750 VOLTS - Copper Conductor PVC Insulated IEC 60227

H07V-U with Solid Conductor - TYPE 60227 IEC 01



For Internal wiring of equipment rated voltage up to 1 KV AC and to 750 V DC to earth.

Nominal Cross Section	Conductor		Insulation Thickness	Overall Diameter	Weight of Finished Cables Approx.	MAXIMUM DC Resistance at 20 °C	Standard Packing Length
	Number of Wires in Conductor	Diameter of Conductor Approx.					
mm ²		mm	mm	mm	Kg / Km	ohm / Km	yd(c) ± 5%
1X1.5	1	1.38	0.7	3.2	21	12.1	100 C
1X2.5	1	1.78	0.8	3.9	34	7.41	100 C
1X4	1	2.25	0.8	4.4	50	4.61	100 C
1X6	1	2.76	0.8	5	70	3.08	100 C
1X10	1	3.57	1	6.4	115	1.83	100 C

Color	Green Yellow	Bule	Black	Green	Red	Yellow	Brown	Grey	Orange	White
Code	01	02	03	04	05	06	07	08	09	10











450 -750 VOLTS - Copper Conductor PVC Insulated IEC 60227

H07V -R with stranded Conductor TYPE 60227 IEC 01



For Internal wiring of equipment rated voltage up to 1 KV AC and to 750 V DC to earth.

Nominal Cross Section	Conductor		Insulation Thickness	Overall Diameter	Weight of Finished Cables Approx.	MAXIMUM DC Resistance at 20 °C	Standard Packing Length
	Number of Wires in Conductor	Diameter of Conductor Approx.					
mm ²		mm	mm	mm	Kg / Km	ohm / Km	yd(c) ± 5%
1X1.5	7	1.56	0.7	2.96	22	12.1	100 C
1X2.5	7	2.01	0.8	3.61	35	7.41	100 C
1X4	7	2.52	0.8	4.12	52	4.61	100 C
1X6	7	3.12	0.8	5.2	71	3.08	100 C
1X10	7	4.05	1.0	6.7	116	1.83	100 C
1X16	7	5.04	1.0	7.04	185	1.15	100 C
1X25	7	6.42	1.2	9.7	290	0.727	100 C
1X35	7	7.44	1.2	10.9	390	0.524	100 C
1X50	19	8.8	1.4	12.8	525	0.387	3000 D
1X70	19	10.70	1.4	14.6	735	0.268	3000 D
1X95	19	12.4	1.6	17.1	1010	0.193	3000 D
1X120	37	14	1.6	18.8	1260	0.153	2000 D
1X150	37	15.6	1.8	20.9	1540	0.124	2000 D
1X185	37	17.36	2.0	23.3	1940	0.0991	2000 D
1X240	61	20.25	2.2	26.6	2550	0.0754	1000 D
1X300	61	22.68	2.4	29.6	3180	0.0601	1000 D
1X400	61	25.65	2.6	33.2	4050	0.047	500 D
1X500	61	28.8	2.8	37	5050	0.0366	500 D
1X630	127/91	32.76	2.8	41	6050	0.0283	500 D

Color										
Code	01	02	03	04	05	06	07	08	09	10



450 -750 VOLTS - Copper Conductor PVC Insulated IEC 60227

H07V –K with Flexible Conductor - TYPE 60227 IEC 02



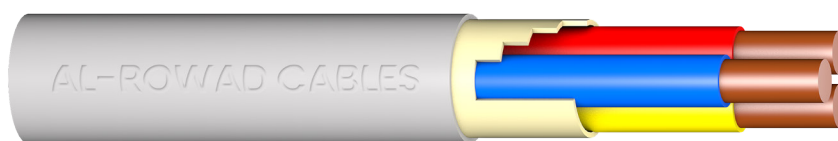
For Internal wiring of equipment rated voltage up to 1KV AC and to 750 V DC to earth.

Nominal Cross Section	Conductor		Insulation Thickness	Overall Diameter	Weight of Finished Cables Approx.	MAXIMUM DC Resistance at 20 °C	Standard Packing Length
	Number of Wires in Conductor	Diameter of Conductor Approx.					
mm ²	No x mm	mm	mm	mm	Kg / Km	ohm / Km	yd(c) ± 5%
1X1.5	26 x 0.25	1.5	0.7	2.92	20	13.3	100 C
1X2.5	43 x 0.25	1.95	0.8	3.6	30	7.98	100 C
1X4	49 x 0.30	2.46	0.8	4.1	44	4.95	100 C
1X6	77 x 0.30	3.8	0.8	5.3	71	3.30	100 C
1X10	74 x 0.30	5.0	1.0	6.8	125	1.91	100 C
1X16	119 x 0.40	5.2	1.0	7.2	165	1.21	100 C
1X25	183 x 0.40	6.4	1.2	9.2	300	0.780	100 C
1X35	259 x 0.40	7.6	1.2	10	340	0.554	100 C
1X50	364 x 0.40	9.2	1.4	12	485	0.386	1000 D
1X70	337 x 0.50	13.0	1.4	16	810	0.272	1000 D
1X95	444 x 0.50	15.2	1.6	18.2	1065	0.206	1000 D
1X120	594 x 0.50	14.5	1.6	17.7	1145	0.161	1000 D
1X150	712 x 0.50	19.0	1.8	22.5	1600	0.129	1000 D
1X185	864 x 0.50	21.0	2.0	24.9	2000	0.106	1000 D
1X240	1134 x 0.50	20.5	2.2	24.9	2315	0.0801	1000 D

Color	Green Yellow	Bule	Black	Green	Red	Yellow	Brown	Grey	Orange	White
Code	01	02	03	04	05	06	07	08	09	10

300 - 500 VOLTS - Copper Conductor PVC Insulated and Sheathed

IEC 60227 (IEC 10)



Nominal Cross Section	Number of Wires in Conductor	Diameter of Conductor Approx.	Insulation Thickness	Sheath Thickness	Overall Diameter	Weight of Finished Cables Approx.	MAXIMUM DC Resistance at 20 °C	Standard Packing Length
mm ²		mm	mm	mm	mm	Kg / Km	ohm / Km	yd(c) ± 5%
2 X 1.5	1	1.38	0.7	1.2	10.0	120	12.1	100 C
2 X 2.5	1	1.78	0.8	1.2	11.5	165	7.41	100 C
2 x 4	1	2.25	0.8	1.2	12.5	215	4.61	100 C
2 x 6	1	2.76	0.8	1.2	13.5	270	3.08	100 C
2 x 10	1	3.57	1.0	1.4	16.5	440	1.83	1000/2000 D
3 x 1.5	1	1.38	0.7	1.2	10.5	140	12.1	100 C
3 x 2.5	1	1.78	0.8	1.2	12.0	195	7.41	100 C
3 x 4	1	2.25	0.8	1.2	13.0	250	4.61	100 C
3 x 6	1	2.76	0.8	1.2	14.5	345	3.08	100 C
3 x 10	1	3.57	1.0	1.4	17.5	540	1.83	1000/2000 D
4 x 1.5	1	1.38	0.7	1.2	11.5	165	12.1	100 C
4 x 2.5	1	1.78	0.8	1.2	13.0	235	7.41	100 C
4 x 4	1	2.25	0.8	1.2	14.5	325	4.61	100 C
4 x 6	1	2.76	0.8	1.2	16.0	430665	3.08	100 C
4 x 10	1	3.57	1.0	1.4	19.0	4050	1.83	1000/2000 D
5 x 1.5	1	1.38	0.7	1.2	12.0	195	12.1	100 C
5 x 2.5	1	1.78	0.8	1.2	14.0	285	7.41	100 C
5 x 4	1	2.25	0.8	1.2	16.0	405	4.61	100 C
5 x 6	1	2.76	0.8	1.2	17.5	530	3.08	1000/2000 D
5 x 10	1	3.57	1.0	1.4	21.0	810	1.83	1000/2000 D

Color Code

2 Cores	Red, Black		2 Cores	Light Blue and Brown	
3 Cores	Red, Yellow and Blue		3 Cores	Light Blue, Black and Brown	
4 Cores	Red, Yellow, Blue and Black		4 Cores	Light Blue, Black, Brown and Black	
5 Cores	Red, Yellow, Blue, Black and Green		5 Cores	Light Blue, Black, Brown, Brown and Black	
Outer Sheath: Gray					



300 - 500 VOLTS - Copper Conductor PVC Insulated and Sheathed

IEC 60227 (IEC 10)




Nominal Cross Section	Number of wires in Conductor	Diameter of Conductor Approx.	Insulation Thickness	Sheath Thickness	Overall Diameter	Weight of Finished Cables Approx.	MAXIMUM DC Resistance at 20 °C	Standard Packing Length
mm ²		mm	mm	mm	mm	Kg / Km	ohm / Km	yd(c) ± 5%
2 X 1.5	7	1.50	0.7	1.2	10.5	125	12.1	100 C
2 X 2.5	7	2.01	0.8	1.2	12.0	170	7.41	100 C
2 x 4	7	2.55	0.8	1.2	13.0	220	4.61	100 C
2 x 6	7	3.12	0.8	1.2	14.0	280	3.08	100 C
2 x 10	7	4.05	1.0	1.4	17.5	470	1.83	1000/2000 D
2 x 16	7	5.10	1.0	1.4	20.0	650	1.15	1000/2000 D
2 x 25	7	6.42	1.2	1.4	24.0	980	0.727	1000 D
2 x 35	7	7.65	1.2	1.6	27.5	1300	524	1000 D
3 X 1.5	7	1.50	0.7	1.2	11.0	125	12.1	100 C
3 X 2.5	7	2.01	0.8	1.2	12.5	170	7.41	100 C
3 x 4	7	2.55	0.8	1.2	13.5	220	4.61	100 C
3 x 6	7	3.12	0.8	1.4	15.5	280	3.08	100 C
3 x 10	7	4.05	1.0	1.4	19.0	470	1.83	1000/2000 D
3 x 16	7	5.10	1.0	1.4	21.5	650	1.15	1000/2000 D
3 x 25	7	6.42	1.2	1.6	26.0	980	0.727	1000 D
3 x 35	7	7.65	1.2	1.6	29.9	1300	524	1000 D
4 X 1.5	7	1.50	0.7	1.2	12.0	125	12.1	100 C
4 X 2.5	7	2.01	0.8	1.2	13.5	170	7.41	100 C
4 x 4	7	2.55	0.8	1.4	15.0	220	4.61	100 C
4 x 6	7	3.12	0.8	1.4	17.0	280	3.08	1000/2000 D
4 x 10	7	4.05	1.0	1.4	20.5	470	1.83	1000/2000 D
4 x 16	7	5.10	1.0	1.4	23.5	650	1.15	1000/2000 D
4 x 25	7	6.42	1.2	1.6	28.5	980	0.727	1000 D
4 x 35	7	7.65	1.2	1.6	32.0	1300	524	1000 D
5 X 1.5	7	1.50	0.7	1.2	12.0	125	12.1	100 C
5 X 2.5	7	2.01	0.8	1.2	14.5	170	7.41	100 C
5 x 4	7	2.55	0.8	1.4	17.0	220	4.61	100 C
5 x 6	7	3.12	0.8	1.4	18.5	280	3.08	1000/2000 D
5 x 10	7	4.05	1.0	1.4	22.0	470	1.83	1000/2000 D
5 x 16	7	5.10	1.0	1.6	26.0	650	1.15	1000/2000 D
5 x 25	7	6.42	1.2	1.6	31.5	980	0.727	1000 D
5 x 35	7	7.65	1.2	1.6	35.0	1300	524	1000 D


Color Code


2 Cores Red, Black 


2 Cores Light Blue and Brown 


3 Cores Red, Yellow and Blue 


3 Cores Light Blue, Black and Brown 

4 Cores Red, Yellow, Blue and Black 

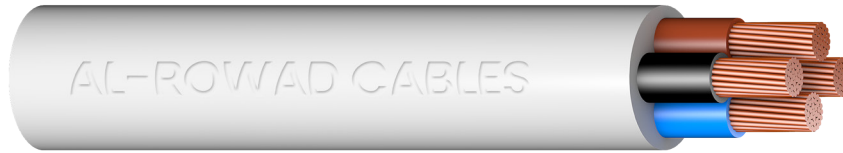
4 Cores Light Blue, Black, Brown and Black 

5 Cores Red, Yellow, Blue, Black and Green 

5 Cores Light Blue, Black, Brown, Brown and Black 









Outer Sheath: Gray 

300 - 500 VOLTS – Flexible Copper Conductor PVC Insulated and Sheathed
H05VV -F, IEC 60227 (IEC 57)



Nominal Cross Section	Number of wires in Conductor	Diameter of Conductor Approx.	Insulation Thickness	Sheath Thickness	Overall Diameter	Weight of Finished Cables Approx.	MAXIMUM DC Resistance at 20 °C	Standard Packing Length
mm ²	No x mm	mm	mm	mm	mm	Kg / Km	ohm / Km	yd(c) ± 5%
2 X 0.75	22 x 0.20	1.1	0.6	0.8	7.2	56	26	100 C
2 X 1	29 x 0.20	1.3	0.6	0.8	7.5	65	19.5	100 C
2 x 1.5	28 x 0.25	1.6	0.7	0.8	8.6	80	13.3	100 C
2 x 2.5	46x0.25	2.1	0.8	1.0	10.6	130	7.98	100 C
2 x 4	46x0.25	2.1	0.8	1.0	10.6	130	7.98	100 C
3 x 0.75	22 x 0.20	1.1	0.6	0.8	7.6	65	26	100 C
3 x 1	29 x 0.20	1.3	0.6	0.8	8.0	80	19.5	100 C
3 x 1.5	28 x 0.25	1.6	0.7	0.9	9.4	100	13.3	100 C
3 x 2.5	46x0.25	2.1	0.8	1.1	11.4	155	7.98	100 C
3 x 4	46x0.25	2.1	0.8	1.0	10.6	130	7.98	100 C
4 x 0.75	22 x 0.20	1.1	0.6	0.6	8.3	80	26	100 C
4 x 1	29 x 0.20	1.3	0.6	0.9	9.0	95	19.5	100 C
4 x 1.5	28 x 0.25	1.6	0.7	1.0	10.5	130	13.3	100 C
4 x 2.5	46x0.25	2.1	0.8	1.1	12.5	200	7.98	100 C
4 x 4	46x0.25	2.1	0.8					100 C
5 x 0.75	22 x 0.20	1.1	0.6	0.9	9.3	105	26	100 C
5 x 1	29 x 0.20	1.3	0.6	0.9	9.8	125	19.5	100 C
5 x 1.5	28 x 0.25	1.6	0.7	1.1	11.6	160	13.3	100 C
5 x 2.5	46x0.25	2.1	0.8	1.2	13.9	245	7.98	100 C
5 x 4	46x0.25	2.1	0.8	1.0	10.6	130	7.98	100 C

Color Code

2 Cores	Red, Black		2 Cores	Light Blue and Brown	
3 Cores	Red, Yellow and Blue		3 Cores	Light Blue, Black and Brown	
4 Cores	Red, Yellow, Blue and Black		4 Cores	Light Blue, Black, Brown and Black	
5 Cores	Red, Yellow, Blue, Black and Green		5 Cores	Light Blue, Black, Brown, Brown and Black	



PVC Insulated, Non-Sheathed Flexible Cords for Internal Wiring. Single Core

Copper Conductor - Standard(s): IEC 60227 (IEC 06) 300/500 Volts H05V-K



Conductor		Radial Thickness of Insulation	Mean Overall diameter (upper limit) single.	Maximum DC Resistance at 20 °C	Approximate Weight	Standard Packing Length
Nominal Cross Section	Number of wires in Conductor					
mm ²	No x mm	mm	mm	ohm / Km	Kg / Km	yd(c)± 5%
0.5	0.20	0.6	2.4	39.0	9	100
0.75	0.20	0.6	2.6	26.0	12	100
1	0.20	0.6	2.8	19.5	15	100

Note: For larger Size of flexible conductor cables, please refer to BS 6004 or IEC 60227

Construction:

- Annealed Copper Conductor as per IEC 60228, Class 5.
- PVC Insulation.

Core Identification:

Green / Yellow, Blue or any other color.

**PVC Insulated, PVC Sheathed Cables, Flat Twin and Three Core
Copper Conductor, Standards: DIN VDE 0250 - 201, 380 Volts**



Nominal Cross Section	Number of wires in Conductor	Radial Thickness of Insulation	Radial Thickness of sheath	Approx. Overall Cable Dimensions	Maximum DC Resistance at 20 °C	Standard Packing Length
mm ²		mm	mm	mm x mm	ohm / Km	yd(c) ± 5%
2 x 1.5	1	0.4	0.8	3.8 x 11.1	12.10	100 C
2 x 1.5	7	0.4	0.8	4.0 x 11.5	12.10	100 C
2 x 2.5	1	0.5	0.9	4.6 x 12.2	7.41	100 C
2 x 2.5	7	0.5	0.9	4.8 x 12.7	7.41	100 C
2 x 4	1	0.6	0.9	5.3 x 13.8	4.61	100 C
2 x 4	7	0.6	0.9	5.5 x 14.3	4.61	100 C
3 x 1.5	1	0.4	0.8	3.8 x 18.4	12.10	100 C
3 x 1.5	7	0.4	0.8	4.0 x 19.0	12.10	100 C
3 x 2.5	1	0.5	0.9	4.6 x 18.5	7.41	100 C
3 x 2.5	7	0.5	0.9	4.8 x 19.1	7.41	100 C
3 x 4	1	0.6	0.9	5.3 x 24.4	4.61	100 C
3 x 4	7	0.6	0.9	5.5 x 25.0	4.61	100 C

Construction:

- Plain annealed Copper Conductor class 1 & 2 as per IEC 60228.
- PVC Insulation.
- PVC Sheath.

The Sheath shall be closely fitting but shall not adhere to the cores and in the case of twin and three-core, the cores shall be laid parallel.

Core Identification:

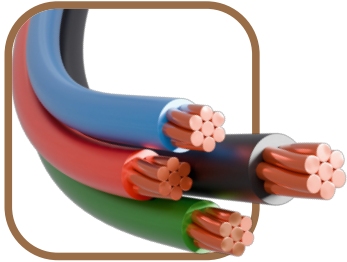
Twin		Brown, Blue	Twin		Red, Black
Three Cores		Brown, Black (Centre Core), Grey	Three Cores		Red, Yellow (Centre Core), Blue

Color of the sheath

Flat Twin and Three cores: Black

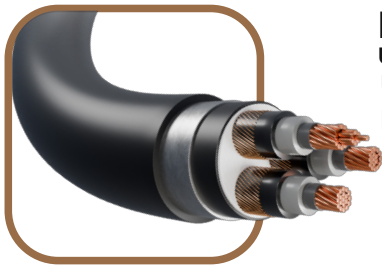


PRODUCTS PANORAMA



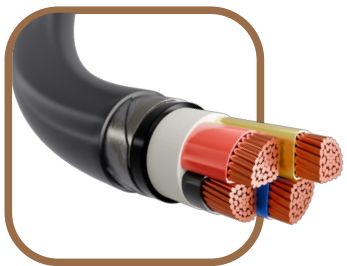
Wires Up to 600 V

Used in the supply of electric power, lighting and internal wiring for residences and offices, and similar non- industrial.



Low Voltage Cables Up to 1000 V

Used to supply power to large motors and industrial equipment in both residential and industrial settings.



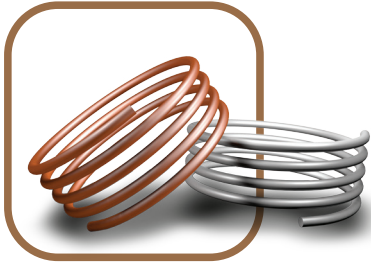
Medium Voltage Cables Up to 36 kV

Distribution and transmission of power in infrastructure projects.



Overhead Lines

Used for long distance power transmission and inter-city connections.



Copper Rods

Al Rowad Cables manufactures 8 mm high-purity copper rods for cable conductors and metallic screens.

Aluminium Rods

Al Rowad Cables produces 9.5 mm high-purity aluminum rods for power cable conductors, overhead lines, and armouring.



PVC Granules

We produce high-quality PVC granules for cable insulation and sheathing, using advanced machinery and automatic mixing technology.

LV XLPE compounds

We produce high-purity LV XLPE insulation material for low-voltage cables, utilizing advanced machinery and automatic mixing technology.



Wooden & Steel Drums

Our facility is a state-of-the-art plant for manufacturing wooden and steel drums of various sizes for the cable industry, using high-speed production lines to ensure top quality at minimal cost.



AI Rowad Notice

The AI Rowad catalogues currently in circulation remain valid. However, some international and national standards referenced in the catalogues may be amended by their respective organizations without prior notice. For AI Rowad Cables products, the latest amendments to the applicable standards are adhered to.

For wires and wiring cables manufactured by AI Rowad Cables, the color codes specified in the respective standards are followed. Additionally, AI Rowad Cables can provide the following color codes as required by certain utilities:

- 1 Core: Red or Black. ● ●
- 2 Core: Red, Black. ● ●
- 3 Core: Red, Yellow, Blue. ● ● ●
- 4 Core: Red, Yellow, Blue, Black. ● ● ● ●
- 5 Core: Red, Yellow, Blue, Black, Green. ● ● ● ● ●

More than 5 cores: Black cores with white printed numerals



شركة الرواد لإنتاج الأسلاك والقابلات الكهربائية
AL ROWAD COMPANY FOR PRODUCTION OF ELECTRIC CABLES

إحدى شركات
Subsidiary of



مجموعة كابلات الرياض
Riyadh Cables Group



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