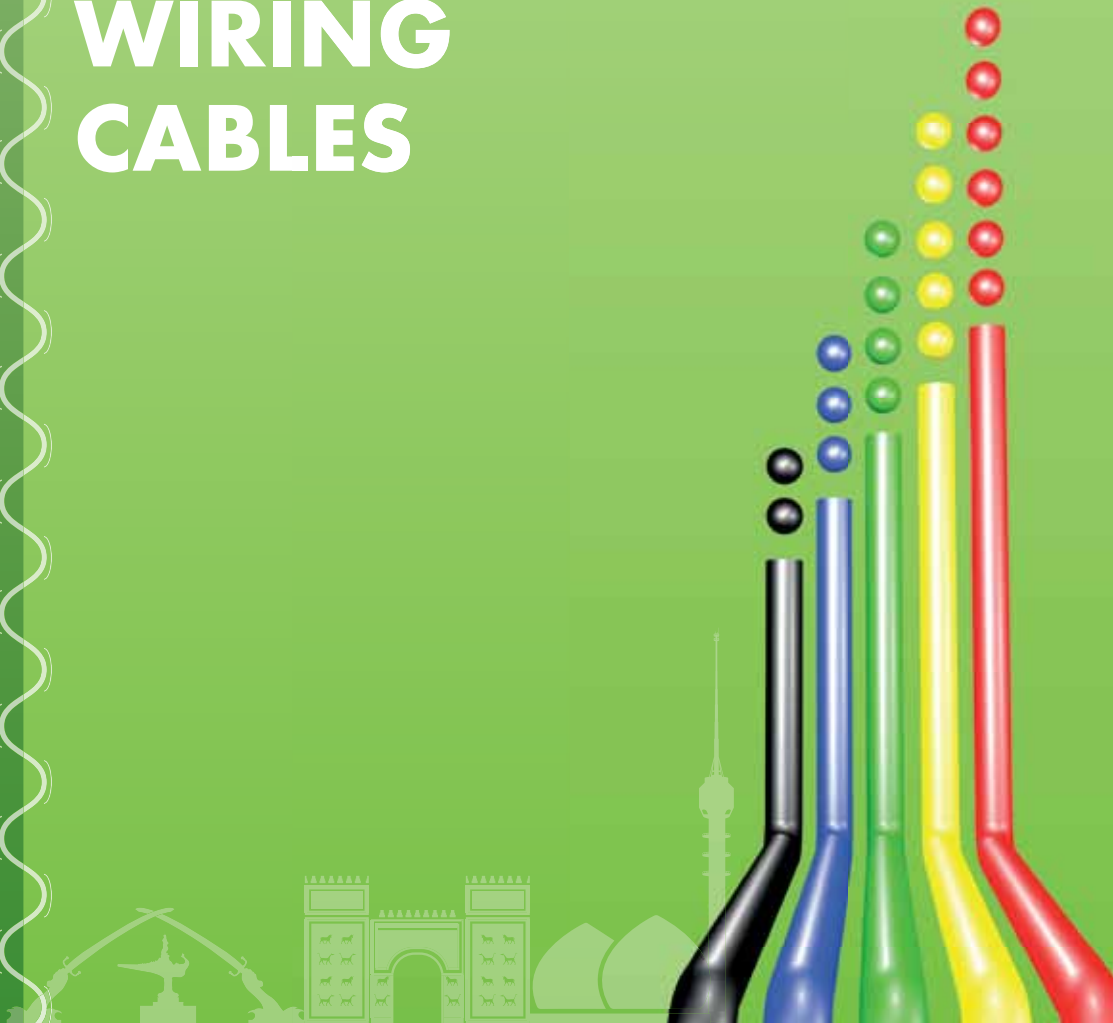


WIRES & WIRING CABLES



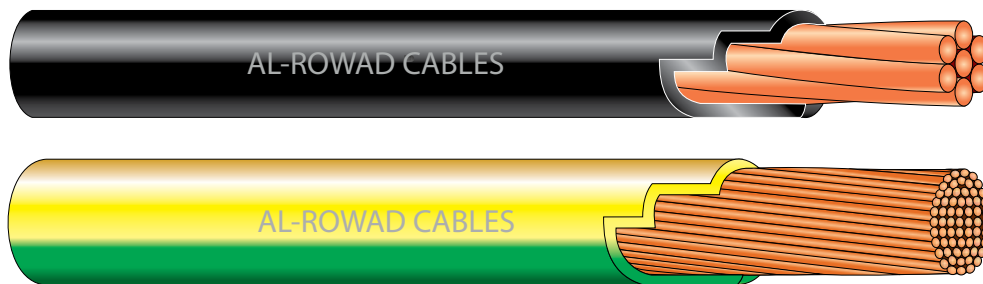


For internal wiring of equipment rated voltage up to 1000 V AC and up to 750 V DC to earth.

Catalogue Number	Nominal Cross Section	Conductor		Insulation Thickness	Overall Diameter	Weight of Finished Cable 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	M ± 5%
0C 010004xx	1 x 1.5	1	1.38	0.7	3.2	21	12.1	100 C
0C 010005xx	1 x 2.5	1	1.78	0.8	3.9	34	7.41	100 C
0C 010006xx	1 x 4	1	2.25	0.8	4.4	50	4.61	100 C
0C 010007xx	1 x 6	1	2.76	0.8	5.0	70	3.08	100 C
0C 010008xx	1 x 10	1	3.57	1.0	6.4	115	1.83	100 C

Color: green / yellow, blue, black, green, red, yellow, brown, grey, orange, white,
Code: 01 02 03 04 05 06 07 08 09 10

For required colour replace the last two digits - xx, by color code.



For internal wiring of equipment rated voltage up to 1000 V AC and up to 750 V DC to earth.

Catalogue Number	Nominal Cross Section	Conductor		Insulation Thickness	Overall Diameter	Weight of Finished Cable 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	M ± 5%
0C 010104xx	1 x 1.5	7	1.50	0.7	3.3	22	12.1	100 C
0C 010105xx	1 x 2.5	7	2.01	0.8	4.0	35	7.41	100 C
0C 010106xx	1 x 4	7	2.55	0.8	4.6	52	4.61	100 C
0C 010107xx	1 x 6	7	3.12	0.8	5.2	71	3.08	100 C
0C 010108xx	1 x 10	7	4.05	1.0	6.7	116	1.83	100 C
0C 010109xx	1 x 16	7	5.10	1.0	7.8	185	1.15	100 C
0C 010110xx	1 x 25	7	6.42	1.2	9.7	290	0.727	100 C
0C 010111xx	1 x 35	7	7.65	1.2	10.9	390	0.524	100 C
000101xx12	1 x 50	19	8.90	1.4	12.8	525	0.387	3000 D
000101xx13	1 x 70	19	10.70	1.4	14.6	735	0.268	3000 D
000101xx14	1 x 95	19	12.60	1.6	17.1	1010	0.193	3000 D
000101xx15	1 x 120	37	14.21	1.6	18.8	1260	0.153	2000 D
000101xx16	1 x 150	37	15.75	1.8	20.9	1540	0.124	2000 D
000101xx17	1 x 185	37	17.64	2.0	23.3	1940	0.0991	2000 D
000101xx18	1 x 240	61	20.25	2.2	26.6	2550	0.0754	1000 D
000101xx19	1 x 300	61	22.68	2.4	29.6	3180	0.0601	1000 D
000101xx20	1 x 400	61	25.65	2.6	33.2	4050	0.0470	500 D
000101xx21	1 x 500	61	28.80	2.8	37.0	5050	0.0366	500 D
000101xx22	1 x 630	127/91	32.76	2.8	41.0	6050	0.0283	500 D

Color: green / yellow, blue, black, green, red, yellow, brown, grey, orange, white,
Code: 01 02 03 04 05 06 07 08 09 10

For required colour replace the last two digits - xx, by color code.



For internal wiring of equipment rated voltage up to 1000 V AC and up to 750 V DC to earth.

Catalogue Number	Nominal Cross Section	Conductor		Insulation Thickness	Overall Diameter	Weight of Finished Cable Approx.	Max. DC Resistance at 20 °C	Standard Packing Length
		Approx No & Nom. strand Diameter .	Diameter of Conductor Approx.					
	mm ²	No x mm	mm	mm	mm	Kg / Km	Ohm / Km	M ± 5%
OC 010504xx	1 x 1.5	28 x 0.25	1.7	0.7	3.4	23	13.3	100 C
OC 010505xx	1 x 2.5	46 x 0.25	2.2	0.8	4.1	35	7.98	100 C
OC 010506xx	1 x 4	51 x 0.30	3.1	0.8	4.8	51	4.95	100 C
OC 010507xx	1 x 6	77 x 0.30	3.8	0.8	5.3	71	3.30	100 C
OC 010508xx	1 x 10	74 x 0.40	5.0	1.0	6.8	125	1.91	100 C
OC 010509xx	1 x 16	118 x 0.40	6.3	1.0	8.1	195	1.21	100 C
OC 010510xx	1 x 25	183 x 0.40	6.4	1.2	9.2	300	0.780	100 C
OC 010511xx	1 x 35	257 x 0.40	9.2	1.2	10.5	410	0.554	100 C
000105xx12	1 x 50	371 x 0.40	11.0	1.4	13.9	585	0.386	1000 D
000105xx13	1 x 70	337 x 0.50	13.0	1.4	16.0	810	0.272	1000 D
000105xx14	1 x 95	444 x 0.50	15.2	1.6	18.2	1065	0.206	1000 D
000105xx15	1 x 120	570 x 0.50	17.0	1.6	20.2	1335	0.161	1000 D
000105xx16	1 x 150	712 x 0.50	19.0	1.8	22.5	1600	0.129	1000 D
000105xx17	1 x 185	864 x 0.50	21.0	2.0	24.9	2000	0.106	1000 D
000105xx18	1 x 240	1140x0.50	24.0	2.2	28.4	2500	0.0801	1000 D

Color: green / yellow, blue, black, green, red, yellow, brown, grey, orange, white,
Code: 01 02 03 04 05 06 07 08 09 10

For required colour replace the last two digits - xx, by color code.



Catalogue Number	Nominal Cross Section	Number of Wires in Conductor	Diameter of Conductor Approx.	Insulation Thickness	Sheath Thickness	Overall Diameter	Weight of Finished Cable Approx.	Max. DC Resistance at 20°C	Standard Packing Length
	mm ²		mm	mm	mm	mm	Kg/Km	Ohm/Km	M ± 5%
OB 01002408	2 x 1.5	1	1.38	0.7	1.2	10.0	120	12.1	100 C
OB 01002508	2 x 2.5	1	1.78	0.8	1.2	11.5	165	7.41	100 C
OB 01002608	2 x 4	1	2.25	0.8	1.2	12.5	215	4.61	100 C
OB 01002708	2 x 6	1	2.76	0.8	1.2	13.5	270	3.08	100 C
OB 01002808	2 x 10	1	3.57	1.0	1.4	16.5	440	1.83	1000/2000
OB 01003408	3 x 1.5	1	1.38	0.7	1.2	10.5	140	12.1	100 C
OB 01003508	3 x 2.5	1	1.78	0.8	1.2	12.0	195	7.41	100 C
OB 01003608	3 x 4	1	2.25	0.8	1.2	13.0	250	4.61	100 C
OB 01003708	3 x 6	1	2.76	0.8	1.4	14.5	345	3.08	100 C
OB 01003808	3 x 10	1	3.57	1.0	1.4	17.5	540	1.83	1000/2000
OB 01004408	4 x 1.5	1	1.38	0.7	1.2	11.5	165	12.1	100 C
OB 01004508	4 x 2.5	1	1.78	0.8	1.2	13.0	235	7.41	100 C
OB 01004608	4 x 4	1	2.25	0.8	1.4	14.5	325	4.61	100 C
OB 01004708	4 x 6	1	2.76	0.8	1.4	16.0	430	3.08	1000/2000
OB 01004808	4 x 10	1	3.57	1.0	1.4	19.0	665	1.83	1000/2000
OB 01005408	5 x 1.5	1	1.38	0.7	1.2	12.0	195	12.1	100 C
OB 01005508	5 x 2.5	1	1.78	0.8	1.2	14.0	285	7.41	100 C
OB 01005608	5 x 4	1	2.25	0.8	1.4	16.0	405	4.61	100 C
OB 01005708	5 x 6	1	2.78	0.8	1.4	17.5	530	3.08	1000/2000
OB 01005808	5 x 10	1	3.57	1.0	1.4	21.0	810	1.83	1000/2000

Color code:

2 cores : Red, Black

3 cores : Red, Yellow and Blue

4 cores : Red, Yellow, Blue and Black

5 cores : Red, Yellow, Blue, Black and Green

2 cores : light Blue, Brown

3 cores : light Blue, Black, Brown

4 cores : light Blue, Black, Brown, Black

5 cores : light Blue, Black, Brown, Brown, Black

For Green / Yellow Core - Replace 5th digits by 3.

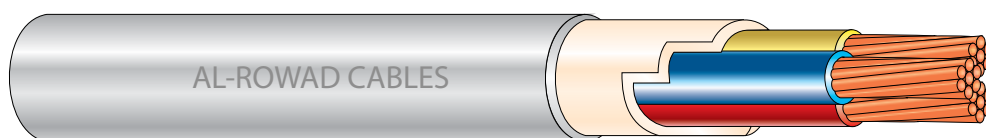
For green / yellow Core - add letter "J" at the end of item code.

outer sheath

Gray.

300 - 500 VOLTS - Copper conductor PVC insulated and Sheathed

IEC 60227 (IEC 10)



Catalogue Number	Nominal Cross Section	Number of Wires in Conductor	Diameter of Conductor Approx.	Insulation Thickness	Sheath Thickness	Overall Diameter	Weight of Finished Cable Approx.	Max. DC Resistance at 20°C	Standard Packing Length
	mm ²		mm	mm	mm	mm	Kg/Km	Ohm/Km	M ± 5%
OB 01012408	2 x 1.5	7	1.50	0.7	1.2	10.5	125	12.1	100 C
OB 01012508	2 x 2.5	7	2.01	0.8	1.2	12.0	170	7.41	100 C
OB 01012608	2 x 4	7	2.55	0.8	1.2	13.0	220	4.61	100 C
OB 01012708	2 x 6	7	3.12	0.8	1.2	14.0	280	3.08	100 C
OB 01012808	2 x 10	7	4.05	1.0	1.4	17.5	470	1.83	1000/2000
OB 01012908	2 x 16	7	5.10	1.0	1.4	20.0	650	1.15	1000/2000
OB 01012108	2 x 25	7	6.42	1.2	1.4	24.0	980	0.727	1000
OB 01012118	2 x 35	7	7.65	1.2	1.6	27.5	1300	0.524	1000
OB 01013408	3 x 1.5	7	1.50	0.7	1.2	11.0	145	12.1	100 C
OB 01013508	3 x 2.5	7	2.01	0.8	1.2	12.5	200	7.41	100 C
OB 01013608	3 x 4	7	2.55	0.8	1.2	13.5	270	4.61	100 C
OB 01013708	3 x 6	7	3.12	0.8	1.4	15.5	360	3.08	100 C
OB 01013808	3 x 10	7	4.05	1.0	1.4	19.0	570	1.83	1000/2000
OB 01013908	3 x 16	7	5.10	1.0	1.4	21.5	830	1.15	1000/2000
OB 01013108	3 x 25	7	6.42	1.2	1.6	26.0	1255	0.727	1000
OB 01013118	3 x 35	7	7.65	1.2	1.6	29.0	1640	0.524	1000
OB 01014408	4 x 1.5	7	1.50	0.7	1.2	12.0	165	12.1	100 C
OB 01014508	4 x 2.5	7	2.01	0.8	1.2	13.5	240	7.41	100 C
OB 01014608	4 x 4	7	2.55	0.8	1.4	15.0	330	4.61	100 C
OB 01014708	4 x 6	7	3.12	0.8	1.4	17.0	460	3.08	1000/2000
OB 01014808	4 x 10	7	4.05	1.0	1.4	20.5	700	1.83	1000/2000
OB 01014908	4 x 16	7	5.10	1.0	1.4	23.5	1025	1.15	1000/2000
OB 01014108	4 x 25	7	6.42	1.2	1.6	28.5	1590	0.727	1000
OB 01014118	4 x 35	7	7.65	1.2	1.6	32.0	2040	0.524	1000
OB 01015408	5 x 1.5	7	1.50	0.7	1.2	12.0	200	12.1	100 C
OB 01015508	5 x 2.5	7	2.01	0.8	1.2	14.5	290	7.41	100 C
OB 01015608	5 x 4	7	2.55	0.8	1.4	17.0	410	4.61	100 C
OB 01015708	5 x 6	7	3.12	0.8	1.4	18.5	550	3.08	1000/2000
OB 01015808	5 x 10	7	4.05	1.0	1.4	22.0	850	1.83	1000/2000
OB 01015908	5 x 16	7	5.10	1.0	1.6	26.0	1250	1.15	1000/2000
OB 01015108	5 x 25	7	6.42	1.2	1.6	31.5	1860	0.727	1000
OB 01015118	5 x 35	7	7.65	1.2	1.6	35.0	2540	0.524	1000

Color code:

2 cores : Red, Black

3 cores : Red, Yellow and Blue

4 cores : Red, Yellow, Blue and Black

5 cores : Red, Yellow, Blue, Black and Green

2 cores : light Blue, Brown

3 cores : light Blue, Black, Brown

4 cores : light Blue, Black, Brown, Black

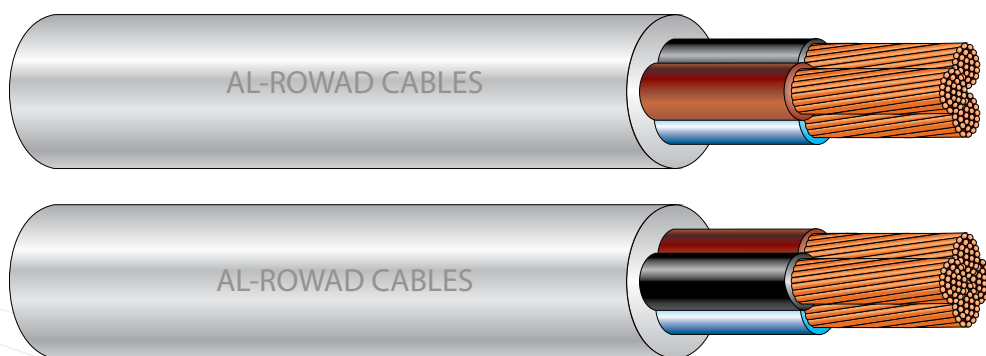
5 cores : light Blue, Black, Brown, Brown, Black

For Green / Yellow Core - Replace 5th digits by 3.

For green / yellow Core - add letter "J" at the end of item code.

outer sheath

Gray.



Catalogue Number	Nominal Cross Section Approx. mm ²	Number & dia of wires in Conductor no x mm	Diameter of Conductor Approx. mm	Weight of Insulation Thickness mm	Thickness of Sheath Approx. mm	Overall Diameter mm	Weight of Finished Cable Approx. Kg/Km	Max DC Resistance at 20°C Ohm/Km	Packing M ± 5%
OB 01252210	2 x 0.75	22 x 0.20	1.1	0.6	0.8	7.2	56	26.0	100
OB 01252310	2 x 1	29 x 0.20	1.3	0.6	0.8	7.5	65	19.5	100
OB 01252410	2 x 1.5	28 x 0.25	1.6	0.7	0.8	8.6	80	13.3	100
OB 01252510	2 x 2.5	46 x 0.25	2.1	0.8	1.0	10.6	130	7.98	100
OB 01253210	3 x 0.75	22 x 0.20	1.1	0.6	0.8	7.6	65	26.0	100
OB 01253310	3 x 1	29 x 0.20	1.3	0.6	0.8	8.0	80	19.5	100
OB 01253410	3 x 1.5	28 x 0.25	1.6	0.7	0.9	9.4	100	13.3	100
OB 01253510	3 x 2.5	46 x 0.25	2.1	0.8	1.1	11.4	155	7.98	100
OB 01254210	4 x 0.75	22 x 0.20	1.1	0.6	0.8	8.3	80	26.0	100
OB 01254310	4 x 1	29 x 0.20	1.3	0.6	0.9	9.0	95	19.5	100
OB 01254410	4 x 1.5	28 x 0.25	1.6	0.7	1.0	10.5	130	13.3	100
OB 01254510	4 x 2.5	46 x 0.25	2.1	0.8	1.1	12.5	200	7.98	100
OB 01255210	5 x 0.75	22 x 0.20	1.1	0.6	0.9	9.3	105	26.0	100
OB 01255310	5 x 1	29 x 0.20	1.3	0.6	0.9	9.8	125	19.5	100
OB 01255410	5 x 1.5	28 x 0.25	1.6	0.7	1.1	11.6	160	13.3	100
OB 01255510	5 x 2.5	46 x 0.25	2.1	0.8	1.2	13.9	245	7.98	100

Color code:

2 cores : light blue, brown

3 cores : light blue, black, brown

4 cores : light blue, black, brown, black

5 cores : light blue, black, brown, brown, Black

3 cores : light blue, brown, green / yellow

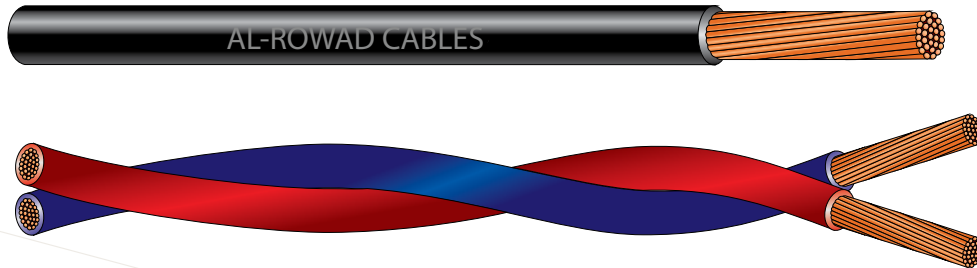
4 cores : light blue, black, brown and green / yellow

5 cores : light blue, black, brown, black and green / yellow

For Green / Yellow Core - add letter "J" at the end of item Code.

outer sheath

White.



Conductor		Radial Thickness of insulation	Mean Overall diameter (upper limit) single	Maximum DC Resistance at 20°C	Approximate weight	
Nom.cross sectional area	Nominal diameter of wire				Single	Twin
mm ²	mm	mm	mm	Ω / Km	Kg / Km	Kg / Km
0.5	0.20	0.6	2.4	39.0	9	19
0.75	0.20	0.6	2.6	26.0	12	24
1.0	0.20	0.6	2.8	19.5	15	29

Note :

- The cord may be available in twin twisted form.
- For solid wire conductor equivalent cables, please refer to BS 6004 or IEC 60227.
- For larger sizes 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 :

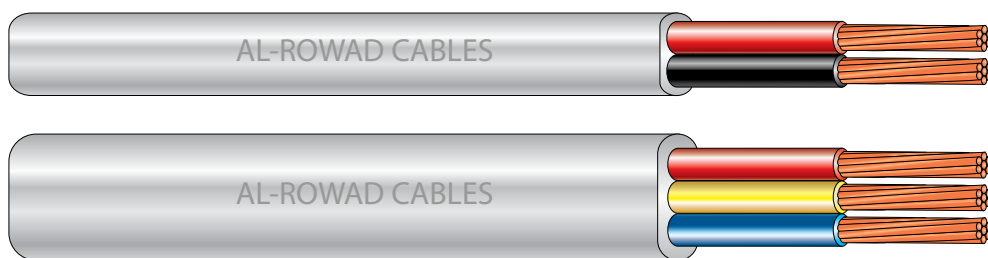
Green / Yellow, Blue or any other colour.



Conductor		Radial Thickness of insulation	Mean overall dimensions		Maximum DC Resistance at 20 °C	Approx. Weight
Nom. Cross Sectional area	Maximum diameter of Wire		Lower Limit	Upper Limit		
mm ²	mm	mm	mm	mm	Ω / Km	Kg / Km
2 x 0.50	0.16	0.8	2.5 x 5.0	3.0 x 6.0	39.0	22
2 x 0.75	0.16	0.8	2.7 x 5.4	3.2 x 6.4	26.0	28

Construction :

- Annealed Copper conductor as per IEC 60228 Class 6.
- The conductors shall be laid parallel and covered with PVC Insulation
- The insulation shall be provided with a groove on each side between the conductors to facilitate separation of the cores.



No. & Cross sectional area of conductor	No. of wires in conductor	Radial Thickness of insulation	Radial Thickness of sheath	Mean overall dia. or dimensions.		Max. DC Resist ance at 20 °C	Approx. Weight
				Lower Limit	Upper Limit		
mm ²	mm	mm	mm	mm	mm	Ω / Km	Kg / Km
1 x 1.0	1	0.6	0.8	3.8	4.5	18.1	28
1 x 1.5	1	0.7	0.8	4.2	4.9	12.1	36
1 x 2.5	1	0.8	0.8	4.8	5.8	7.41	51
1 x 4	7	0.8	0.9	5.4	6.8	4.61	74
1 x 6	7	0.8	0.9	6.0	7.4	3.08	96
1 x 10	7	1.0	0.9	7.2	8.8	1.83	150
1 x 16	7	1.0	1.0	8.4	10.5	1.15	220
1 x 25	7	1.2	1.1	10.0	12.5	0.727	335
1 x 35	7	1.2	1.1	11.0	13.5	0.524	440
2 x 1.0	1	0.6	0.9	4.0 x 6.2	4.7 x 7.4	18.1	53
2 x 1.5	1	0.7	0.9	4.4 x 7.0	5.4 x 8.4	12.1	71
2 x 2.5	1	0.8	1.0	5.2 x 8.4	6.2 x 9.8	7.41	106
2 x 4	7	0.8	1.0	5.6 x 9.6	7.2 x 11.5	4.61	150
2 x 6	7	0.8	1.1	6.4 x 10.5	8.0 x 13.0	3.08	200
2 x 10	7	1.0	1.2	7.8 x 13.0	9.6 x 16.0	1.83	320
2 x 16	7	1.0	1.3	9.0 x 15.5	11.0 x 18.5	1.15	460
3 x 1.0	1	0.6	0.9	4.0 x 8.4	4.7 x 9.8	18.1	76
3 x 1.5	1	0.7	0.9	4.4 x 9.8	5.4 x 11.5	12.1	106
3 x 2.5	1	0.8	1.0	5.2 x 11.5	6.2 x 13.5	7.41	160
3 x 4	7	0.8	1.1	5.8 x 13.5	7.4 x 16.5	4.61	230
3 x 6	7	0.8	1.1	6.4 x 15.0	8.0 x 18.0	3.08	300
3 x 10	7	1.0	1.2	7.8 x 19.0	9.6 x 22.5	1.83	475
3 x 16	7	1.0	1.3	9.0 x 22.0	11.0 x 26.5	1.15	690

Construction :

Plain annealed copper conductor Class 1 & 2 as per IEC 60228.

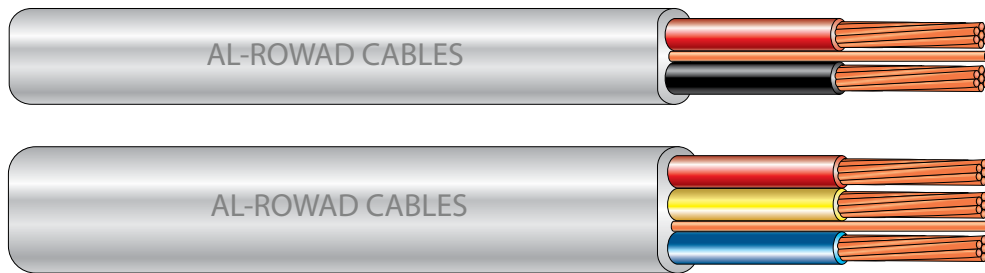
- PVC Insulation.
- PVC Sheath.
- The sheath shall be closely fitting but shall not adhere to the cores and in the case of twin and three-core, the cores shall be laid parallel.

Core Identification :

Single	: Brown or Blue,	Single	: Red or Black
Twin	: Brown, Blue	Twin	: Red, Black
Three-core	: Brown, Black (Centre core), Gray	Three-core	: Red, Yellow (centre core), Blue

Colour of sheath

Single : Gray, (other colour on request)
Flat Twin and three core : Gray



No. & Cross sectional area of conductor	No. of wires in conductor	Radial Thickness of insulation	Radial Thickness of sheath	Mean overall dia. or dimensions.		Earth continuity cond. cross section	Max. DC Resist ance at 20°C	Approx. Weight
				Lower Limit	Upper Limit			
mm ²	mm	mm	mm	mm	mm	mm ²	Ω / Km	Kg / Km
2 x 1.0	1	0.6	0.9	4.0 x 7.2	4.7 x 8.6	1.0	18.1	68
2 x 1.5	1	0.7	0.9	4.4 x 8.2	5.4 x 9.6	1.0	12.1	87
2 x 2.5	1	0.8	1.0	5.2 x 9.8	6.2 x 11.5	1.5	7.41	135
2 x 4	7	0.8	1.0	5.6 x 10.5	7.2 x 13.0	1.5	4.61	170
2 x 6	7	0.8	1.1	6.4 x 12.5	8.0 x 15.0	2.5	3.08	240
2 x 10	7	1.0	1.2	7.8 x 15.5	9.6 x 19.0	4	1.83	380
2 x 16	7	1.0	1.3	9.0 x 18.0	11.0 x 22.5	6	1.15	550
3 x 1.0	1	0.6	0.9	4.0 x 9.6	4.7 x 11.0	1.0	18.1	90
3 x 1.5	1	0.7	1.1	4.4 x 10.5	5.4 x 12.5	1.0	12.1	120
3 x 2.5	1	0.8	0.9	5.2 x 12.5	6.2 x 14.5	1.0	7.41	180
3 x 4	7	0.8	1.0	5.8 x 14.5	7.4 x 18.0	1.5	4.61	250
3 x 6	7	0.8	1.1	6.4 x 16.5	8.0 x 20.0	2.5	3.08	330
3 x 10	7	1.0	1.2	7.8 x 21.0	9.6 x 25.5	4	1.83	540
3 x 16	7	1.0	1.3	9.0 x 24.5	11.0 x 29.5	6	1.15	770

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, which shall be laid parallel with uninsulated earth continuity conductor.

Colour for Core Identification

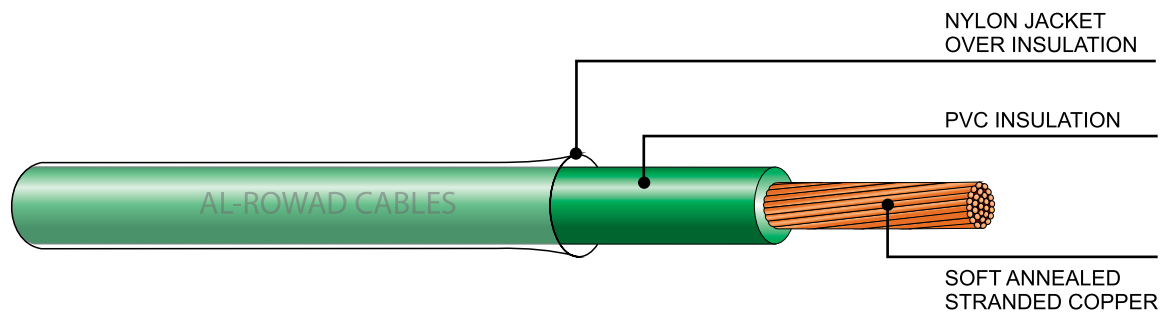
Twin : Brown, Blue Twin : Red, Black.
 Three-core : Brown, Black (Centre core), Gray Three-core : Red, Yellow (centre core), Blue.

Position of continuity conductor

Twin : Centrally placed between cores in same plane.
 Three cores : Centrally placed between black and gray cores in same plane (OR) placed between yellow and blue.

Colour of outer sheath

Gray.



Construction :

- Conductor** - Soft drawn annealed copper conductors as per UL 83. Available in solid or stranded Type for sizes 14, 12 and 10 AWG. Sizes 8 AWG and larger available in stranded only.
- Insulation** - Extruded Polyvinyl Chloride (PVC) compound rated 75 and 90 deg. C.
- Jacket** - Tough, smooth, heat and light stabilized, low moisture absorption nylon conforming to UL requirements for type THHN or THWN. This jacket offers a great degree of protection to the PVC insulation from abrasion and cut through which may be encountered in pulling wire through conduits. Nylon has long been recognized as one of the toughest jacketing material used in wire and cable manufacturing.

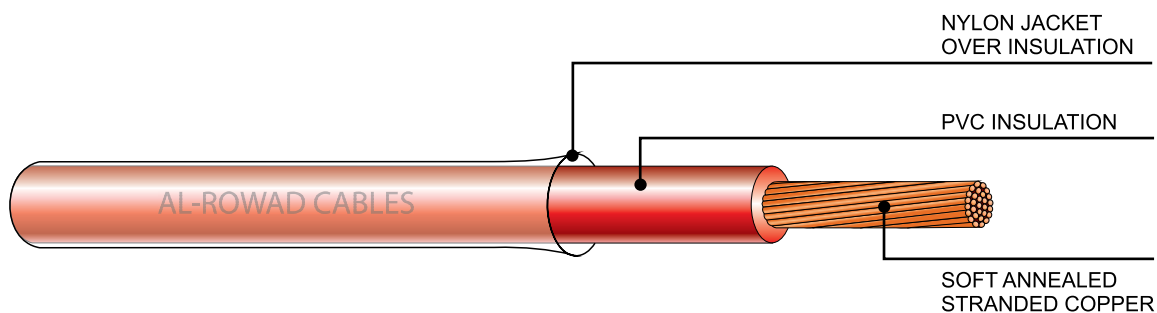
FEA TURES :

- 1.Meets UL 'VW - 1' Flame Test requirements.
- 2.Wet or dry locations - Rated 90 deg. C dry, 75 deg. C wet.
- 3.Resistant to gas and oil exposure - Rated gasoline and oil resistant II per UL.
- 4.Versatile - Can be used as follows:
 - a) THHN - 90 deg. C dry building wire
 - b) THWN - 75 deg. C wet and dry building wire
 - c) MTW - 90 deg. C machine tool wire
- 5.Pulls easier - tough, smooth nylon jacket over PVC insulation.
- 6.Small diameter - more conductors per conduit.

APPLICA TIONS :

Type THHN - THWN building wires are intended for general purpose applications and may be installed in conduit, duct or other recognized raceways in wet or dry locations. Type THHN - THWN wires are designed to operate at conductor temperatures of 75 deg. C for 600 volts service in wet and dry locations. Applicable for both new work and rewiring installations where the smaller wire diameter permits additional circuits or larger conductors to be installed in the conduit without exceeding maximum fill limitations.

Type THHN - THWN wires are also recommended for industrial installation where exceptional resistance to heat and corrosive atmospheres are needed, such as chemical plants, oil refineries, paper mills, etc.



MARKING EXAMPLE:

RIYADH CABLES GROUP, K.S.A Year of manufacturing, 600 V, Type (THHN or THWN or TFFN) GASOLINE AND OIL RESISTANT IIVW-1 Size

Standards:

UL 83-Underwriters Laboratories, Thermoplastic Insulated wires and Cables.

UL 1063-Underwriters Laboratories, Machine Tool Wires and Cables.

UL 1581-Underwriters Laboratories, Reference standard for Electrical wires, Cables and Flexible Cords. 600 Volts

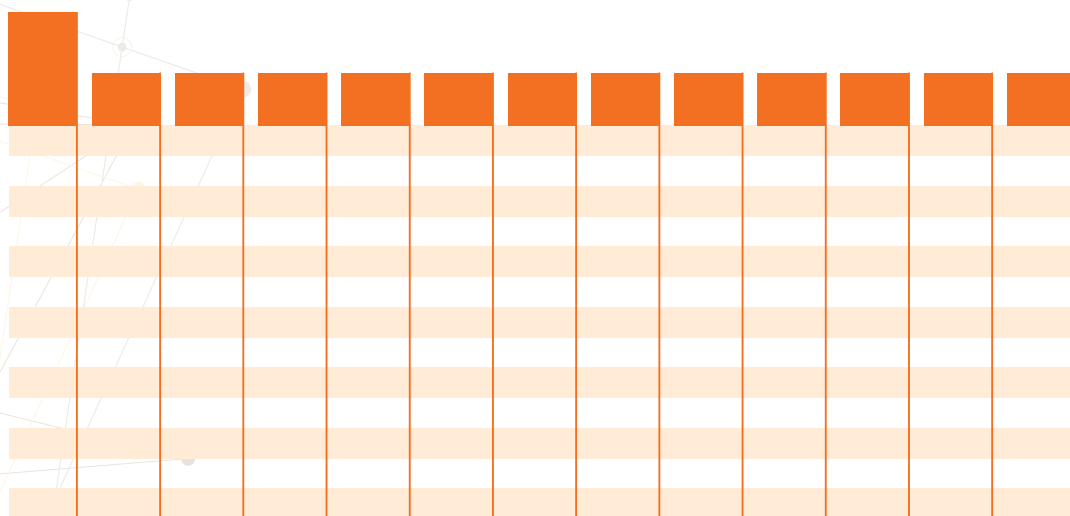
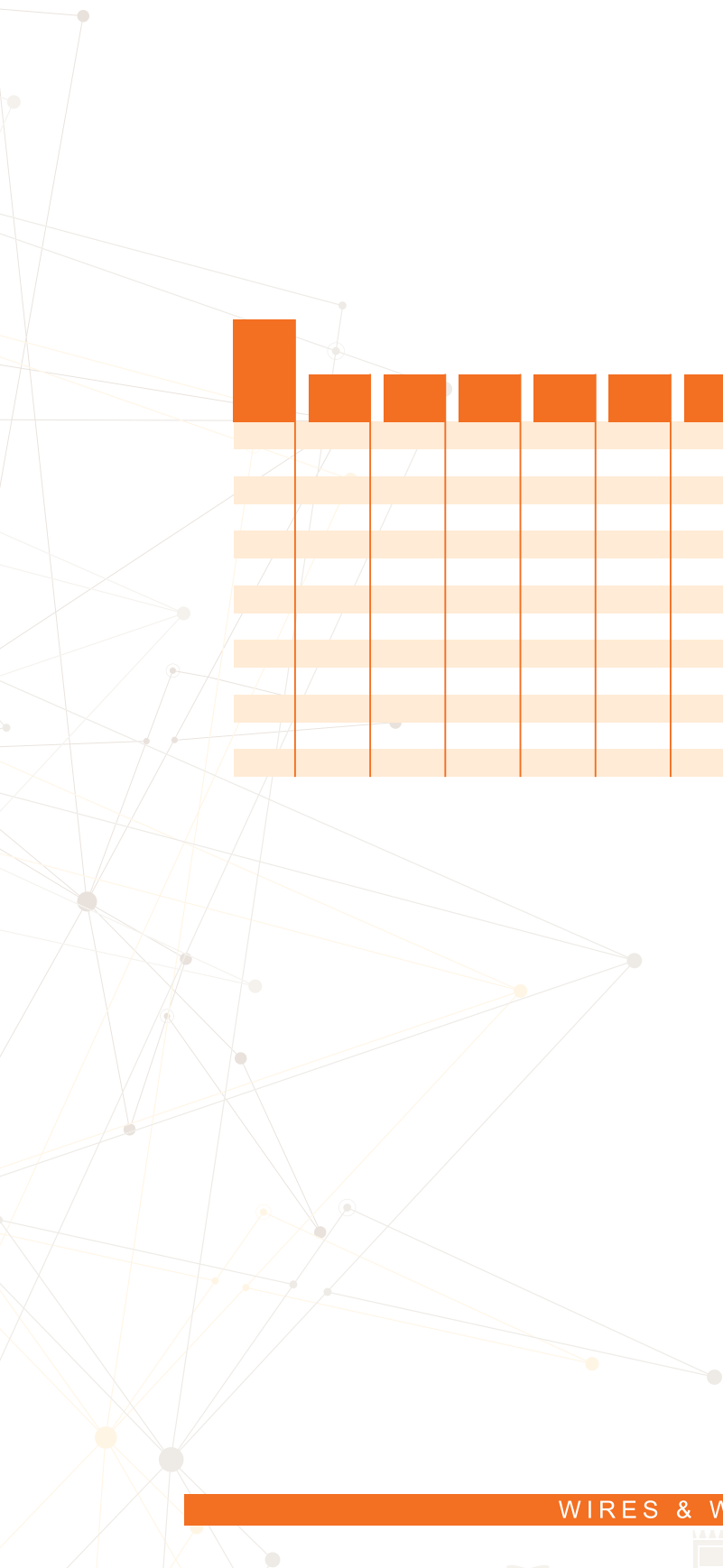
Copper Conductor PVC Insulated NYLON Jacketed THHN/THWN Wires UL 83, 1581

AWG	Equiv . mm ²	CONDUCT OR		Insulation Thickness mm (Ave.)	Nylon Jacket Thickness mm (Min.)	Approx. Overall Diameter mm	Approx. Weight of Cond. Kg/Km	Standard DC Resis tance at 20°C Ohm/Km	packing length M (± 5%)
		Stranding No x mm (Nom.)	Diameter mm (Nom.)						
18*	0.82	16 x 0.254	1.19	0.38	0.10	2.3	12	18.23	152 C
16*	1.31	19 x 0.296	1.48	0.38	0.10	2.5	17	13.42	152 C
14	2.08	19 x 0.373	1.86	0.38	0.10	2.9	25	8.62	152 C
12	3.31	19 x 0.47	2.35	0.38	0.10	3.4	37	5.43	152 C
10	5.26	19 x 0.594	2.97	0.51	0.10	4.3	59	3.409	152 C
8	8.37	19 x 0.749	3.75	0.76	0.13	5.6	96	2.144	152 C
6	13.30	19 x 0.945	4.72	0.76	0.13	6.6	146	1.348	152 C
4	21.15	19 x 1.19	5.95	1.02	0.15	8.4	233	0.8481	1000
2	33.63	19 x 1.50	7.50	1.02	0.15	9.9	356	0.5335	1000
1/0	53.48	37 x 1.36	9.52	1.27	0.18	12.5	567	0.3354	1000
2/0	67.43	37 x 1.52	10.64	1.27	0.18	13.6	697	0.266	1000

* Listed as TFFN

Colour:Black, White, Red, Blue, Green, Yellow, Orange, Brown, etc.
Cutting Length:152 M (500 FT) in Coils 1000 M (3280 FT) in Drums







Soft Drawn Bare Copper Conductors IEC 60228. (BSEN 60228)

Nominal cross sectional area	Number of strands	Approx. Overall daimeter	Approx. Weight	Max. Dc at 20°C	Standard packing
mm ²	No .	mm	kg/km	Ohm/km	m±5%
2.5	7	2.0	20	7.41	2000
4	7	2.55	35	4.61	2000
6	7	3.1	50	3.08	2000
10	7	4.0	85	1.83	2000
16	7	5.0	135	1.15	2000
25	7	6.3	210	0.727	2000
35	7	7.4	300	0.524	2000
50	19	8.8	400	0.387	1000
70	19	10.5	580	0.268	1000
95	19	12.4	810	0.193	1000
120	37	14.0	1030	0.153	1000
150	37	15.5	1270	0.124	1000
185	37	17.4	1600	0.0991	1000
240	61	20.0	2100	0.0754	1000
300	61	22.5	2640	0.0601	1000
400	61	25.4	3400	0.0470	1000
500	61	28.5	4370	0.0366	1000
630	91	32.8	5680	0.0283	1000

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

[illegible]

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

Three-core : Brown, Black (Centre core), Gray

Twin : Red, Black

Three-core : Red, Yellow (centre core), Blue

Colour of sheath

Flat Twin and three core : Black

NOTICE

Alrowad catalogues under circulation are still valid. Some international and National standards mentioned in Alrowad catalogues might get amended by respective organizations without prior notice. For Alrowad Cables Products, the latest Amendments of applicable standards and circulation are applicable. For Wires and Wiring cables manufactured by Alrowad Cables, colour code mentioned in respective standards are applicable. However, Alrowad Cables can also provide the following colour code as required by some 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.

In the interest of product improvement, Alrowad Cables reserves the right to alter the given data in this Catalogue without any prior notice.



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