



COMPANY PROFILE



SAMA CABLES



Tel: +966 14 840 34 01 | Fax: +966 14 840 34 23

E-Mail: info@samacables.com.sa | Website: www.samacables.com.sa

Industrial City (Modon 66th Street) Al Madina Al Munawara – KSA
المملكة العربية السعودية – المدينة المنورة – المدينة الصناعية (مدن شارع 66)



تأسس مصنع سما الكابلات للصناعة عام 2007 في المدينة المنورة لتزويد السوق السعودي والأسواق المجاورة بالكابلات والأسلاك بجودة عالية مطابقة للمواصفات السعودية والأوروبية، وتعتبر من أهم المصنعين في المملكة العربية السعودية للكابلات والأسلاك الموثوقة والأمانة المستخدمة في نقل وتوزيع الطاقة الكهربائية، حيث تصنع مجموعة واسعة من المنتجات التي تلبي كافة الرغبات باستخدام أحدث الأجهزة، ويتم تزويدها بشكل مستمر بوسائل الإنتاج الحديثة بما في ذلك الآلات ومتطلبات الإنتاج ومعدات الاختبار والقياس، كما تمتلك نظاماً لنقل المعلومات والذي يضمن للعملاء المرونة الكاملة في التعامل مع المنتجات.

Sky Cables Factory was established in 2007 in Medina to supply the Saudi market and neighboring markets with high quality cables and wires in compliance with Saudi and European specifications, and is considered one of the most important manufacturers in the Kingdom of Saudi Arabia for reliable and safe cables and wires used in the transmission and distribution of electrical energy, as it manufactures a wide range of products that meet All desires using the latest equipment, and it is continuously supplied with modern production means, including machines, production requirements, testing and measurement equipment, and it has a system for transmitting information, which guarantees customers complete flexibility in dealing with products.



2022
2007



نقدم حلول كابلات موثوقة تدعم مشاريع الطاقة والبنية التحتية بكفاءة وجودة عالية، مع الالتزام بأعلى معايير التصنيع والتقنيات الحديثة لضمان الأداء والاستدامة في مختلف البيئات

We provide reliable cable solutions that support energy and infrastructure projects with high efficiency and quality, committed to the highest manufacturing standards and advanced technologies to ensure performance and sustainability across various environments.



Planning for continuous expansion and stressing on the quality of cables and wires in and out of the Kingdom of Saudi Arabia.

The continuous increasing of projects and marketing plans thru studying for the market and its needs.

Accessing to the international technology used in the manufacturing of cables and wires with international and local specifications.

Continuous improvement of the company performance so as to achieve the competition in the local and international markets thru the company general policy.

Provision of full assistance and support to clients, technically and scientifically.

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جعلنا من الإتقان مبدأ تقوم عليه كافة جهودنا للارتقاء
بهذه الصناعة من خلال المحاولات المستمرة في التطوير
للوصول لأعلى مستويات الجودة.

We have made from perfection a principle
on which all our efforts are based to
promote this industry through continuous
attempts to develop to reach the highest
levels of quality.



Our Mission - Strategy

التوسع والتطوير المستمر للوصول إلى التقنية العالمية المستخدمة في تصنيع الكابلات والأسلاك بما يحقق المنافسة في الأسواق المحلية والدولية تماشياً مع رؤية المملكة العربية السعودية 2030

- تحقيق التحسن المستمر في فاعلية نظام إدارة الجودة وثقافة الجودة المطابقة للمواصفات والمقاييس المحلية والعالمية.
- التزايد المستمر للمشاريع والخطط التسويقية من خلال دراسة السوق واحتياجاته.
- تقديم المساعدة والدعم الكامل للعملاء فنياً وعلمياً.
- التدريب المستمر للموظفين والفنيين والحرص على فهم سياسة الجودة وأهدافها واستيعابها بوضوح ومراجعتها بشكل دوري من أجل رفع مستوى الكفاءة.
- التعاون والتعامل مع اعرق الشركات والمصانع في مجال العمل.

Achieving continuous improvement in the effectiveness of the quality management system and the quality culture conforming to local and international specifications and standards

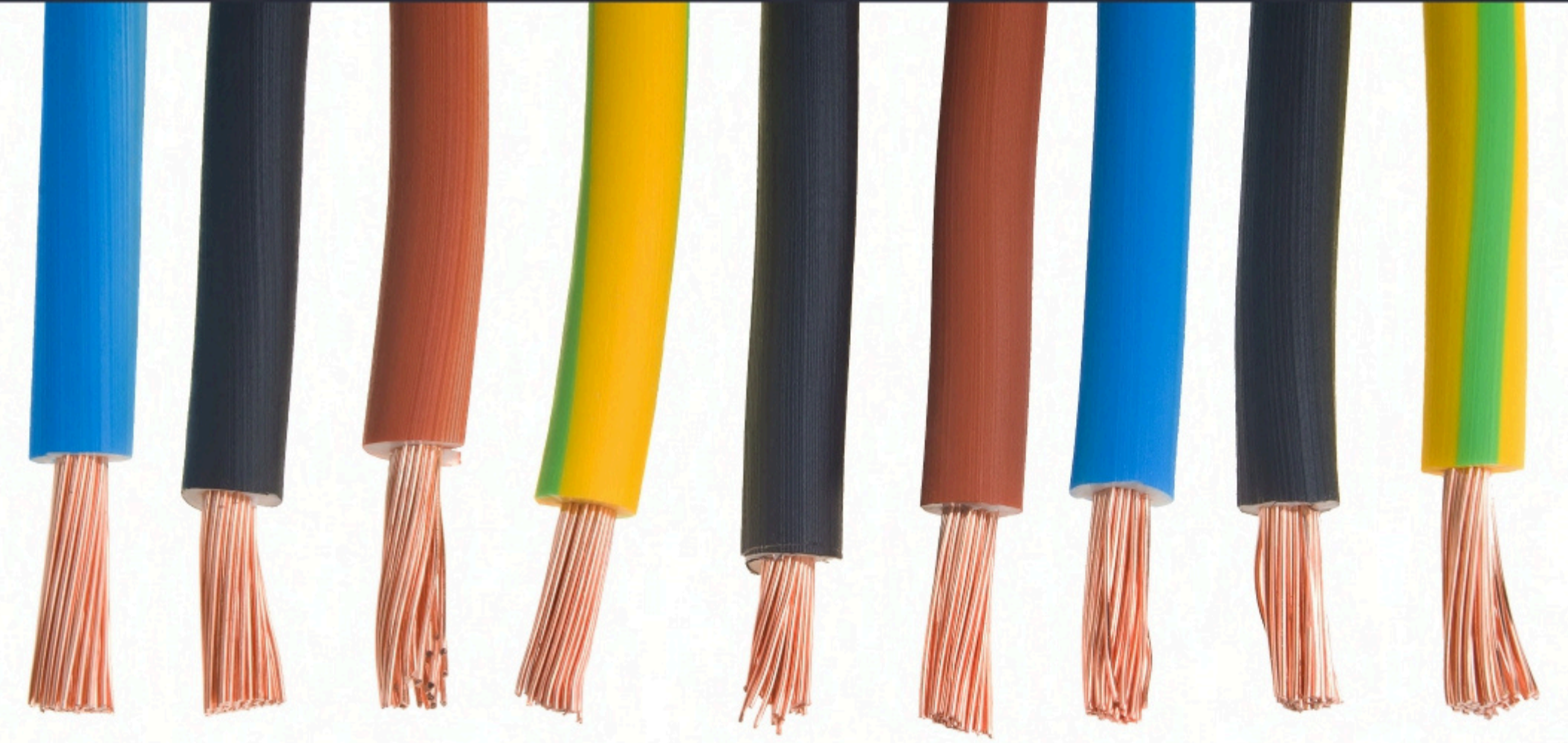
The continuous increase of marketing projects and plans by studying the market and its needs

Provide complete assistance and support to clients, technically and scientifically

Continuous training for employees and technicians, and ensuring that the quality policy and objectives are clearly understood, understood and reviewed periodically in order to raise the level of efficiency

Cooperation and dealing with the oldest companies and factories in the field of work

Our Services



يختص مصنع سما الكابلات للصناعة بتصنيع وإنتاج كابلات النحاس والألمنيوم وأسلاك التحكم بجميع أنواعها مهما كانت احتياجات العملاء على أعلى مستويات من الجودة التي تم اختبارها وفقا للمعايير الدولية، وبدرجة عالية من التخصص، مع تسهيلات البحوث المتقدمة ومعايير الاختبار الدقيق لتقديم جودة متميزة في السوق والسيطرة عليه مما يساعد على توفير الطاقة للمجتمعات على الصعيد العالمي.

Sama Cables Factory specializes in the manufacture and production of copper and aluminum cables and control wires of all kinds whatever the needs of customers at the highest levels of quality that have been tested in accordance with international standards, with a high degree of specialization, with advanced research facilities and rigorous testing standards to provide outstanding quality in the market and control it, which helps On providing energy to societies globally

Our Services

منتجاتنا Our Products

01



الموصلات الهوائية
Over head conductors

02



كابلات الضغط المنخفض
Low voltage cables

03



الأسلاك المنزلية (لفات)
Building Wires

04



كابلات التحكم
Control cables

Standard: IEC 61089

Nominal Cross section Area	Number of Wires	wire diameter	Overall diameter Approx.	Weight Approx	Max Dc resistance at 20 °C	rated strength
mm2	NO	MM	MM	Kg/Km	ohm/Km	KN
10	7	1.35	4.05	27.4	2.8633	1.95
16	7	1.71	5.12	43.8	1.7896	3.04
25	7	2.13	6.4	68.4	1.1453	4.5
40	7	2.7	8.09	109.4	0.7158	6.8
63	7	3.39	10.2	172.3	0.4545	10.39
100	19	2.59	12.9	274.8	0.2877	17
125	19	2.89	14.5	343.6	0.2302	21.25
160	19	3.27	16.4	439.8	0.1798	26.4
200	19	3.66	18.3	549.7	0.1439	32
250	19	4.09	20.5	687.1	0.1151	40
315	37	3.29	23	867.9	0.0916	51.97
400	37	3.71	26	1102	0.0721	64
450	37	3.94	27.5	1239.8	0.0641	72
500	37	4.15	29	1377.6	0.0577	80
560	37	4.39	30.7	1542.9	0.0515	89.6
630	61	3.63	32.6	1738.3	0.0458	100.8
710	61	3.85	34.6	1959.1	0.0407	113.6
800	61	4.09	36.8	2207.4	0.0361	128

Standard : DIN 48201

Nominal Area	Stranding and wire diameter		Overall diameter Approx.	Weight Approx	Nominal breaking	Max Dc resistance at 20 °C	Current Rating	
mm2	NO	MM	MM	Kg/Km	Kgf	ohm/Km	Temperate amp	Tropical amp
16	7	1.7	5.1	44	290	1.802	90	60
25	7	2.1	6.3	67	425	1.181	115	75
35	7	2.5	7.5	94	585	0.833	140	90
50	7	3	9	135	810	0.579	175	110
50	19	1.8	9	133	860	0.595	175	110
70	19	2.1	10.5	181	1150	0.437	205	125
95	19	2.5	12.5	256	1595	0.308	255	150
120	19	2.8	14	322	1910	0.246	290	160
150	37	2.25	15.7	406	2570	0.196	335	180
185	37	2.5	17.5	501	3105	0.159	380	195
240	37	2.25	20.2	670	4015	0.119	450	210
300	61	2.5	22.5	827	4850	0.097	510	220
400	61	2.89	26	1105	6190	0.072	600	225
500	61	3.23	29.1	1381	7600	0.058	690	215

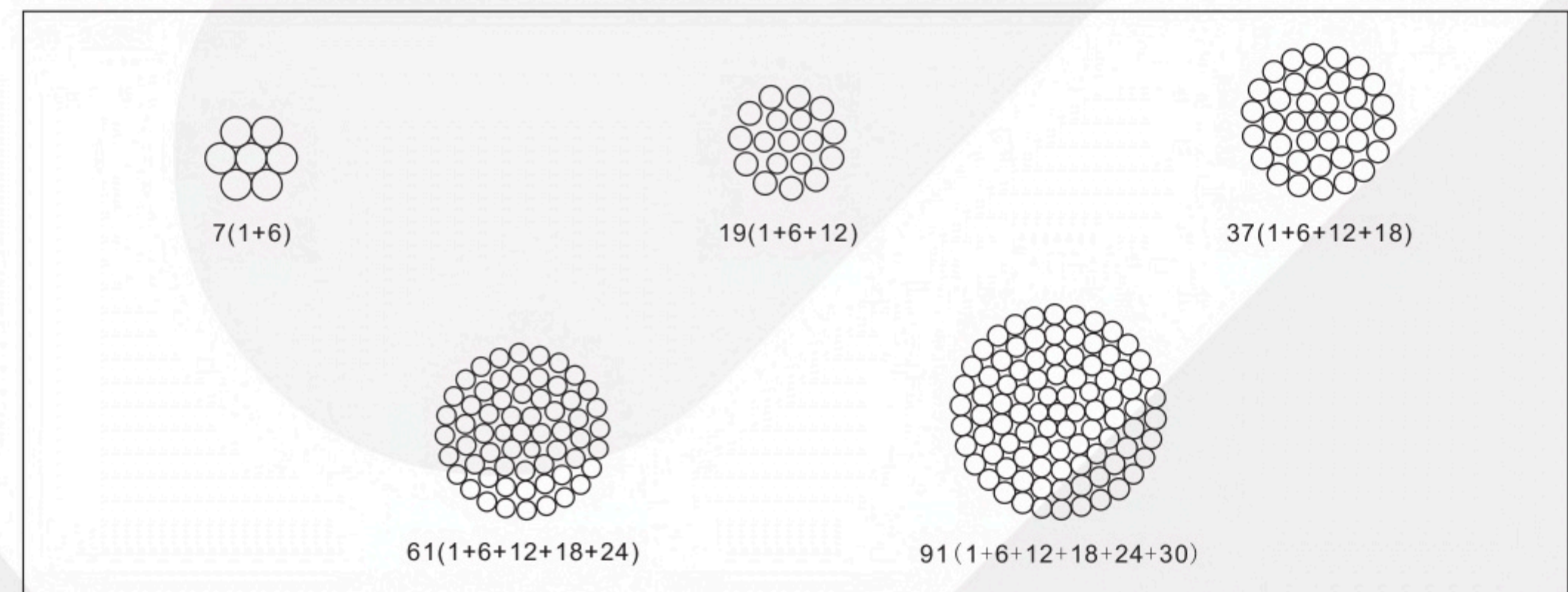
موصلات الألمنيوم الغير المعزول AAC All aluminum conductor

Description: Hard drawn aluminum wires stranded in layers
AAC Conductor are constructed with a straight round central aluminum wire surrounded by one or more The most commonly used stranding consists of 7, 19, 37, 61 and 91 wires
In all constructions, the successive layers shall have opposite directions of lay, the outermost layer being right-handed .

Standards: conductor construction according to SASO IEC 61089 ,
BS EN 50182 , DIN 48201 / 6

Technical Drawings of Overhead Conductors

1. AAC, AAAC



Standard: IEC 61089

Code	Cross Sectional Area Nominal	Number of Wires	Approx single wire diameter	Approx diameter overall	Approx weight overall	Max. DC resistance at 20°C	Rated Strength
	mm ²	no	mm	mm	kg/km	ohm/km	KN
16	18.4	7	1.83	5.49	50.4	1.7896	5.43
25	28.8	7	2.29	6.86	78.7	1.1453	8.49
40	46	7	2.89	8.68	125.9	0.7158	13.58
63	72	7	3.63	10.9	198.3	0.4545	21.39
100	115	19	2.78	13.9	316.3	0.2877	33.95
125	144	19	3.1	15.5	395.4	0.2302	42.44
160	184	19	3.51	17.6	506.1	0.1798	54.32
200	230	19	3.93	19.6	632.7	0.1439	67.91
250	288	19	4.39	22	790.8	0.1151	84.88
315	363	37	3.53	24.7	998.9	0.0916	106.95
400	460	37	3.98	27.9	1268.4	0.0721	135.81
450	518	37	4.22	29.6	1426.9	0.0641	152.79
500	575	37	4.45	31.2	1585.5	0.0577	169.76
560	645	61	3.67	33	1778.4	0.0516	190.14
630	725	61	3.89	35	2000.7	0.0458	213.9
710	817	61	4.13	37.2	2254.8	0.0407	241.07
800	921	61	4.38	39.5	2540.6	0.0361	271.62
900	1036	61	3.81	41.8	2861.1	0.0321	305.53
1000	1151	91	4.01	44.1	3179	0.0289	339.53
1120	1289	91	4.25	46.7	3560.5	0.0258	380.27
1250	1439	91	4.49	49.4	3973.7	0.0231	424.41

موصلات سبائك الألمنيوم الكامل
AAAC All aluminum Alloy Conductor

Applications

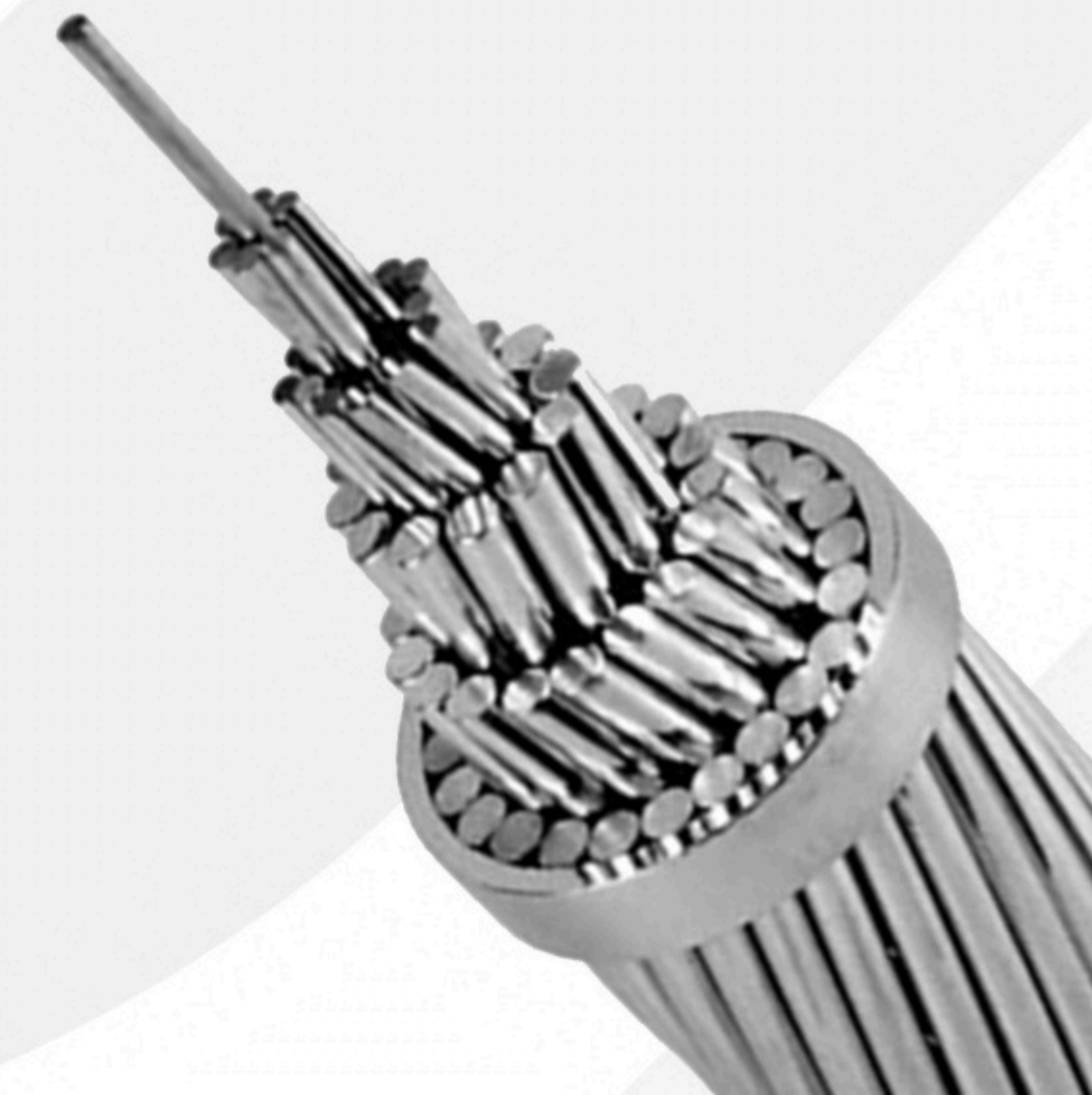
AAAC is used as a bare overhead conductor for power transmission and distribution lines, on aerial circuits that require a larger mechanical resistance than AAC, and a better corrosion resistance than ACSR. The sag characteristics and the strength-to-weight ratio of AAAC is better than both AAC / ACSR

Standards :

IEC 61089

BS EN 50182

DIN 48201 / 6



DIN 48204

CODE NAME	AREA			STRANDING AND WIRE DIAMETER				APPROX OVERALL DIAMETER	WEIGHT			NORMAL BREAKING LOAD	MAX DC RESISTANCE AT 20 °c	current rating	
	ALUM	STEEL	TOTAL	ALUM		STEEL			ALUM	STEEL	TOTAL			TEMPERATE AMP	TROPICAL AMP
	mm²	mm²	mm²	NO	mm	NO	mm	mm	KG/Km	KG/Km	KG/Km	KGf	ohm/km		
16/2.5	15.3	2.6	17.9	6	1.8	1	1.8	5.4	42	20	62	595	1.875	85	60
25/4.0	23.8	4	27.8	6	2.25	1	2.25	6.8	65	32	97	920	1.206	115	75
35/6.0	34.3	5.7	40	6	2.7	1	2.7	8.1	94	46	140	1265	0.837	140	90
44/32.0	44	31.7	75.7	14	2	7	2.4	11.2	122	250	372	4500	0.657	170	100
50/8.0	48.3	8	56.3	6	3.2	1	3.2	9.6	132	64	196	170	0.594	170	105
50/30	51.2	29.8	81	12	2.33	7	2.33	11.7	141	237	378	4380	0.564	185	110
70/12	69.9	11.4	81.3	26	1.85	7	1.44	11.7	193	91	284	2680	0.413	215	127
95/15	94.4	15.3	109.7	26	2.15	7	1.67	13.6	260	123	383	3575	0.306	260	145
95/55	96.5	56.3	152.8	12	3.2	7	3.2	16	266	446	712	7935	0.299	270	145
105/75	106	75.5	181.5	14	3.1	19	2.25	17.5	292	599	891	10845	0.274	290	145
120/20	122	19.8	141.4	26	2.44	7	1.9	15.5	336	158	494	4565	0.237	305	160
120/70	122	71.3	193.3	12	3.6	7	3.6	18	337	564	901	10000	0.237	360	155
125/30	128	29.8	157.7	30	2.33	7	2.33	16.1	353	238	591	5760	0.226	310	160
150/25	149	24.2	173.1	26	2.7	7	2.1	17.1	411	194	605	5525	0.194	340	175
170/4	172	40.1	211.9	30	2.7	7	2.7	18.9	475	319	794	7675	0.168	375	180
185/30	184	29.8	213.6	26	3	7	2.33	19	507	239	746	6620	0.157	385	185
210/35	209	34.1	243.2	26	3.2	7	2.49	20.3	577	273	850	7490	0.138	420	195
210/50	212	49.5	261.6	30	3	7	3	21	587	394	981	9390	0.136	425	190
230/30	231	29.8	260.7	24	3.5	7	2.33	21	638	239	877	7310	0.125	440	200
240/40	243	39.5	282.5	26	3.45	7	2.68	21.9	671	316	987	8640	0.119	455	200
265/35	264	37.1	297.8	24	3.74	7	2.49	22.4	728	274	1002	8305	0.109	475	205
300/50	304	49.5	353.7	26	3.86	7	3	24.5	840	396	1236	10700	0.095	520	205
305/40	305	39.5	344.1	54	2.68	7	2.68	24.1	843	317	1160	9940	0.095	520	210
340/30	339	29.8	369.1	48	3	7	2.33	25	938	242	1180	9290	0.085	555	215
380/50	382	49.5	431.5	54	3	7	3	27	1056	397	1458	12310	0.076	595	210
385/35	386	34.1	420.1	48	3.2	7	2.49	26.7	1067	277	1344	10480	0.075	600	210
435/55	434	56.3	490.6	54	3.2	7	3.2	28.8	1203	450	1653	13645	0.067	640	200
450/40	449	39.5	488.2	48	3.45	7	2.68	28.7	1241	320	1561	12075	0.064	650	205
490/65	490	63.6	553.9	54	3.4	7	3.4	30.6	1356	510	1866	15310	0.059	685	190
550/70	550	71.3	621.3	54	3.6	7	3.6	32.4	1520	572	2092	17060	0.053	735	170

موصلات الألمنيوم المقوى

ACSR Aluminum conductor steel reinforced

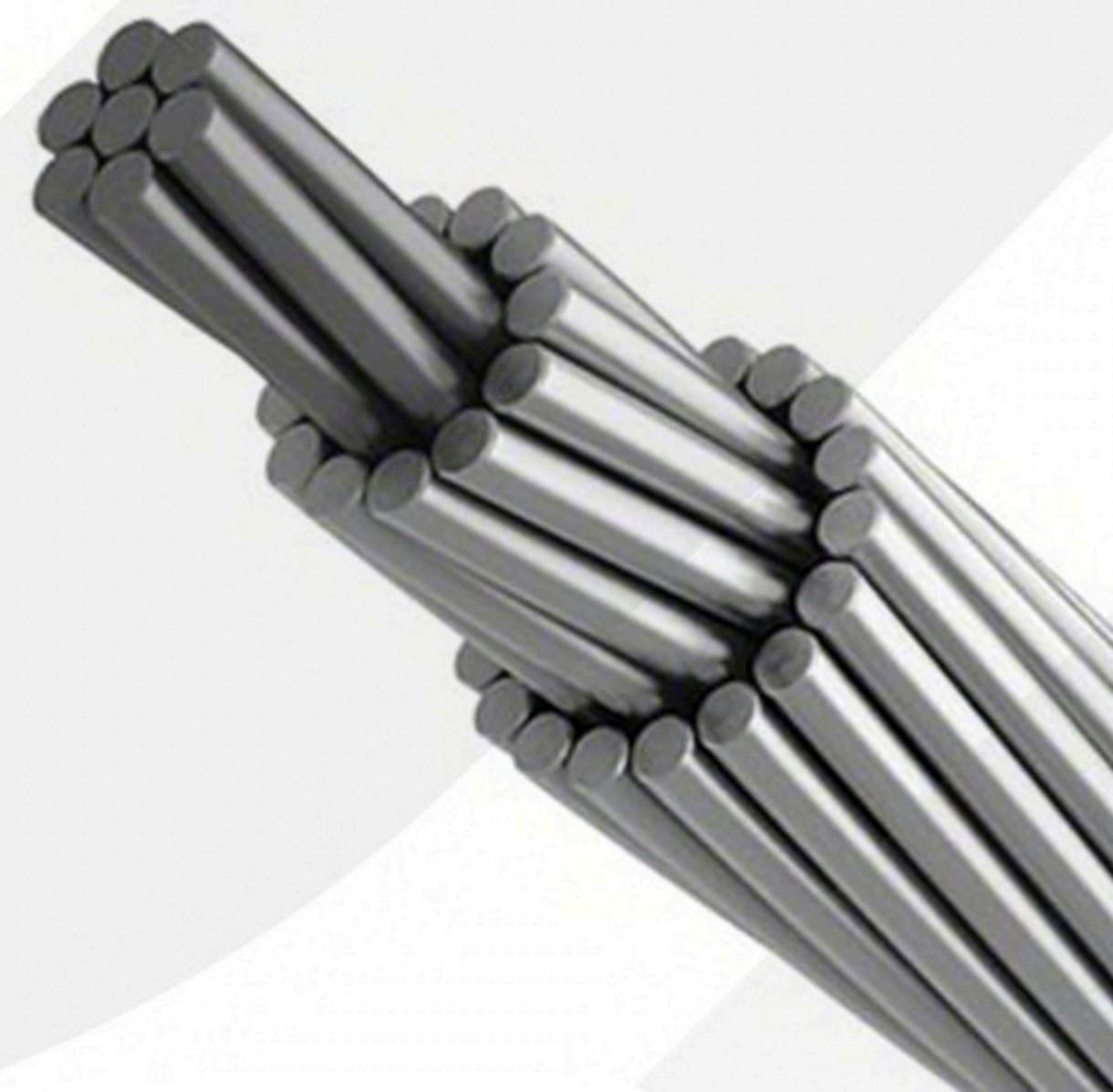
ACSR-ASTM-B Aluminium Conductor Steel Reinforced

ACSR are available in a range of steel contents ranging from 6% to 40% for additional strength

overhead earth wires, and installations involving extra-long spans. The ACSR conductor can, against any given resistance, be manufactured to different tensile strengths, so a high tensile strength combined with its lightweight properties means it can cover longer distances with fewer supports. Due to the greater diameter of the ACSR conductor, a much higher corona limit can be obtained which is advantageous on high and extra high voltage overhead lines

STANDARDS

ASTM B231, ASTM B 232, DIN 48204, BS 215, IEC 61089



موصلات الألمنيوم المعزولة والمجموعة
(ABC) Aluminum Conductor With XLPE

Nominal cross section area mm2	Phases conductors		Neutral		Approx. overall diameter	Approx. weigh
	Nominal insulation thickness	Max dc resistance at 20 C	Cross section area	Max dc resistance at 20 C		
mm2	mm	ohm/km	mm2	ohm/km	mm	kg/km

Two Conductor Duplex

16	1.2	1.8	16	1.91	12.9	115
25	1.2	1.181	25	1.2	15.3	168
35	1.2	0.8	35	0.868	17.7	229
50	1.5	0.595	50	0.641	21.4	322
70	1.5	0.4	70	0.443	24.4	428
95	1.5	0.308	95	0.32	28.4	626
120	1.7	0.2	120	0.253	32	734

Three Conductor (Triplex)

16	1.2	1.8	16	1.91	15.6	185
25	1.2	1.181	25	1.2	18	267
35	1.2	0.8	35	0.868	20.4	364
50	1.5	0.595	50	0.641	25.2	519
70	1.5	0.4	70	0.443	28.2	674
95	1.5	0.308	95	0.32	32.2	928
120	1.7	0.2	120	0.253	36.9	1245

Four Conductor (Quadruplex)

16	1.2	1.8	16	1.91	19	356
25	1.2	1.181	25	1.2	22	367
35	1.2	0.8	35	0.868	24.9	499
50	1.5	0.595	50	0.641	30.3	710
70	1.5	0.4	70	0.443	33.9	920
95	1.5	0.308	95	0.32	38.8	1263
120	1.7	0.2	120	0.253	42.5	1556
185	1.7	0.159	185	0.164	50.1	2458.6

Description: Bundle cables composed of one more insulated Conductores as two (Duplex) or three (Triplex) or four (Quadruplex) Conductors insulated with XLPE with adding 2.5% carbon black. Phases are twisted around insulated or bare neutral conductor.

Is very innovative concept for overhead power distribution as compared to the conventional bare conductor overhead distribution system .

It provides higher level of safety and reliability , power losses and ultimate system economy by reducing installation, maintenance and operative cost .

The cable are designed for aerial power lines and room entrance wires with AC rated voltage 1 KV and below.



موصلات الألمنيوم المعزولة المفردة

AL/XLPE Aluminum Conductor With Xlpe

Description: aluminum conductors stranded and insulated with XLPE

Standards: Cables are produced according to SASO IEC 60228 , IEC 60227also BS 6004 ,BS 6346

Cross-section area of conductor	Max Resistance		Current Carrying Capacity Air at 40			Overall diameter	Net Weight
	DC at 20 C	AC at 90 C	free	In pipes			
10	3.08	3.95	60	46	50	5.2	35
16	1.91	2.45	83	63	86	6.2	53
25	1.2	1.54	107	82	91	7.8	85
35	0.868	0.113	128	98	111	8.8	112
50	0.641	0.822	151	117	135	10.3	152
70	0.443	0.569	185	145	172	12.3	218
95	0.32	0.411	222	175	213	14	293
120	0.253	0.325	252	201	249	15.6	369
150	0.206	0.265	282	226	285	17.5	463
185	0.164	0.212	320	257	332	19.4	576
240	0.125	0.163	371	300	396	22.1	744
300	0.1	0.131	419	340	459	24.6	925
400	0.078	0.100	479	390	540	23	1203
500	0.061	0.087	546	446	631	32	1522
630	0.047	0.066	621	509	746	35.5	1952



موصلات الألمنيوم المعزولة المفردة

(AL/PVC) Aluminum Conductor With PVC

Description: aluminium conductors stranded and insulated with PVC

Standards: Cables are produced according to SASO IEC 60228 ,IEC 60502- 1 also BS 6004 ,BS 6346 .

Cross-section area of conductor mm ²	Max Resistance		Current Carrying Capacity Air at 40			Overall diameter	Net Weight
	DC at 20 C	AC at 70 C	free		In pipes		
10	3.08	3.3	50	42	44	5.8	49
16	1.91	2.3	68	52	52	6.8	69
25	1.2	1.44	87	67	96	8.4	108
35	0.868	1.043	104	81	84	9.5	137
50	0.641	0.771	123	97	103	11.2	189
70	0.443	0.533	151	119	130	13	258
95	0.32	0.385	181	144	161	15	352
120	0.253	0.305	206	165	188	16.4	430
150	0.206	0.249	230	185	215	18	534
185	0.164	0.199	261	211	250	20.5	663
240	0.125	0.153	303	246	298	23.4	859
300	0.1	0.123	342	279	345	25.8	1069
400	0.078	0.097	390	319	405	29.5	1373
500	0.061	0.078	444	364	472	33	1595
630	0.047	0.063	505	415	555	37	2035



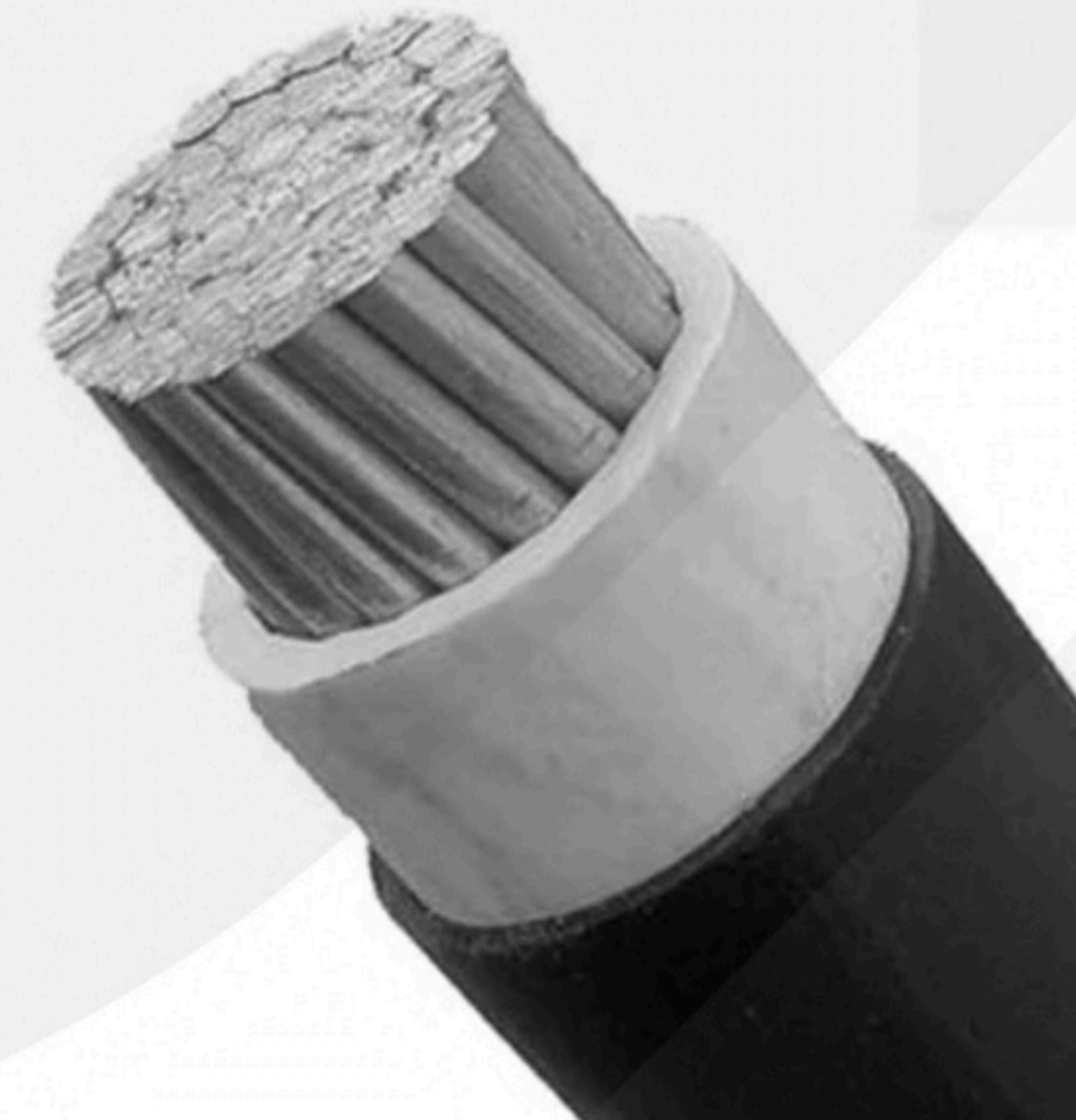
موصلات الألمنيوم المفردة المعزولة والمغلقة
Aluminum Conductor With PVC

Description: Single core cables aluminum stranded conductors insulated with PVC compound and covered with overall jacket of PVC compound as two (Duplex) or three (Triplex) or four (Quadruplex) Conductors

Standards: Cables are produced according to IEC 60228, IEC 60502 -1 also BS 6004, BS 6346 .

Rated Voltage: 600/1000 V

Cross-section area of conductor	Max Resistance		current carrying capacity						overall diameter	weight
	DC at 20 C	AC at 70 C	Laid in ground at 35 C			Laid in Air at 40 C				
									Approx mm	Approx kg/km
mm2	ohm/km	ohm/km	Amp	Amp	Amp		Amp	Amp		
16	1.91	2.3	65	63	50	65	60	45	9.6	123
25	1.2	1.44	85	87	65	85	80	65	11.2	172
35	0.868	1.043	105	102	80	105	100	85	12.2	209
50	0.641	0.771	125	120	95	125	120	105	13.9	271
70	0.443	0.533	155	145	120	165	155	125	15.9	356
95	0.32	0.385	185	175	135	205	195	160	18	471
120	0.253	0.305	210	200	165	235	225	185	19.6	563
150	0.206	0.249	235	225	180	265	255	210	21.3	684
185	0.164	0.199	265	255	205	310	300	245	23.9	840
240	0.125	0.153	310	295	240	365	355	290	27	1071
300	0.1	0.123	355	335	270	420	405	335	29.6	1317
400	0.078	0.097	410	380	310	500	480	390	33.2	1666
500	0.061	0.078	465	430	355	580	560	460	37.5	2089



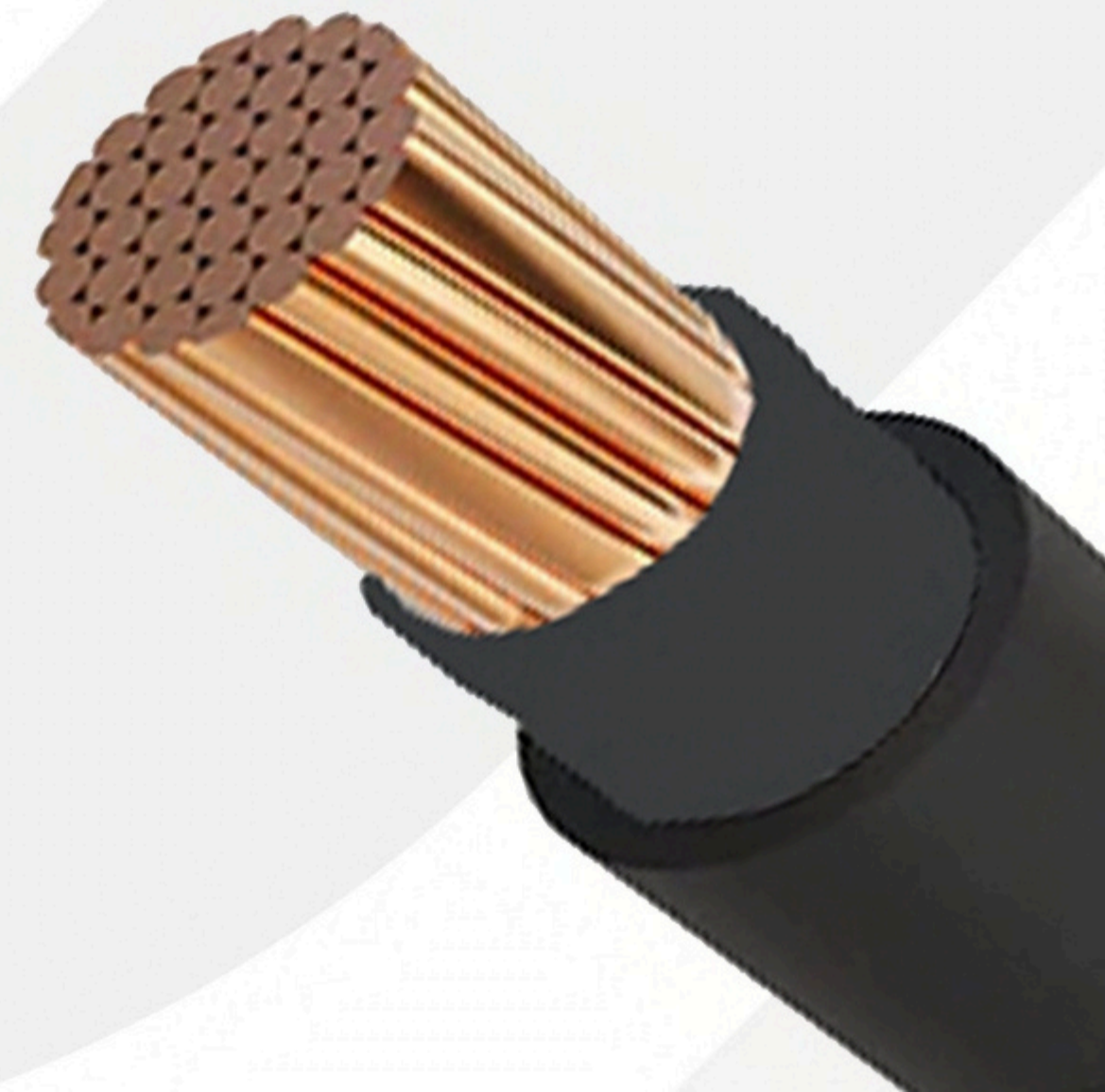
موصلات النحاس المعزولة والمغلقة
Copper Cables With PVC

NOMINAL CROSS SECTION AREA mm²	MAX RESISTANCE		CURRENT CARRYING CAPACITY						OVERALL DIAMETER	NET WEIGHT
	Dc at 20 C ^o	Ac at 70 C ^o	LAID IN GRAOUND AT 35 C			LAID IN AIR AT 40 C				
										
			AMP	AMP	AMP	AMP	AMP	AMP		
ohm/km	ohm/km	AMP	AMP	AMP	AMP	AMP	AMP	APPROX mm	APPROX kg/km	
4	4.61	5.51	42	40	32	37	33	29	7.4	92
6	3.08	3.68	52	50	40	48	42	38	7.8	114
10	1.83	2.18	70	67	52	66	58	51	8.6	159
16	1.15	1.38	90	85	65	80	75	65	9.6	222
25	0.727	0.87	115	110	85	105	95	90	11.2	328
35	0.524	0.627	135	130	105	130	125	110	11.2	428
50	0.387	0.464	160	155	125	160	150	135	13.9	565
70	0.268	0.323	200	190	155	200	190	170	15.9	818
95	0.193	0.232	235	225	285	250	240	210	18	1041
120	0.153	0.185	270	255	210	285	275	245	19.6	1307
150	0.124	0.151	300	285	235	330	320	280	21.3	1592
185	0.099	0.122	345	325	270	380	370	320	23.9	1985
240	0.075	0.094	400	375	310	480	460	385	27	2533
300	0.06	0.077	450	420	350	550	530	450	29.6	3162
400	0.047	0.059	515	475	390	630	615	520	33.2	4120
500	0.037	0.048	580	525	435	720	700	600	37.5	5163

Description: Singel core cables with copper stranded conductors insulated with PVC compound and covered with overall jacket of PVC compound

Standards: Cables are produced according to SASO IEC 60228 ,IEC 60502- 1 also BS 6004,BS 6346

Rated Voltage: 600/1000 V



موصلات الألمنيوم المفردة المعزولة والمغلقة
Aluminum Conductor With XLPE / PVC

Cross section area	Max Resistance		Number of Wires	Insulation	Outer Sheath	Overall diameter	Net Weight
Nominal mm ²	DC at 20 C Approx ohm/km	AC at 90 C Approx ohm/km		Thickness Nominal mm	Thickness Nominal mm	Approx mm	Approx Kg/K
16	1.91	2.45	7	0.7	1.4	9.1	115
25	1.2	1.54	7	0.9	1.4	10.7	153
35	0.868	1.113	7	0.9	1.4	11.7	187
50	0.641	0.822	7	1.0	1.4	13.4	260
70	0.443	0.568	19	1.1	1.4	15.4	340
95	0.32	0.411	19	1.1	1.5	17.3	417
120	0.253	0.325	19	1.2	1.5	18.7	504
150	0.206	0.265	19	1.4	1.6	21.2	621
185	0.164	0.211	37	1.6	1.6	23.6	758
240	0.125	0.161	37	1.7	1.7	26.2	955
300	0.1	0.13	37	1.8	1.8	29.1	1185
400	0.078	0.1016	61	2.0	1.9	32.6	1484
500	0.061	0.0799	61	2.2	2	36.6	1875
630	0.0469	0.0632	61	2.4	2.2	40.8	2353

Description: Single core cables aluminum stranded conductors insulated with XLPE compound and covered with overall jacket of PVC compound 60502/1 also BS 6004, BS 6346 .

Standards: Cables are produced according to IEC 60228, IEC 60502
Rated Voltage: 600/1000 V



موصلات النحاس المفردة المعزولة والمغلقة
Copper Conductor With XLPE / PVC

Nominal cross section area mm2	Max Resistance		Current Carrying Cap						Overall Diameter	Net Weight
	Dc at 20c°	Ac at 70 oc	Laid in Ground at 35 oc			Laid in Ground at 40 oc				
			Amp	Amp	Amp	Amp	Amp	Amp	Approx mm	Approx mm
4	4.61	5.88	55	51	40	53	47	40	6.8	78
6	3.08	3.93	68	65	53	65	59	53	7.2	99
10	1.83	2.33	98	86	68	84	79	68	8	142
16	1.15	1.47	116	111	87	116	110	95	9	202
25	0.727	0.927	150	142	110	143	137	121	10.6	302
35	0.524	0.668	179	172	137	179	173	152	11.6	398
50	0.387	0.494	210	200	163	221	210	184	13.1	523
70	0.268	0.343	263	147	200	278	268	236	15.3	773
95	0.193	0.248	310	294	242	347	336	289	17	974
150	0.124	0.16	394	373	310	547	446	389	20.5	1512
185	0.099	0.129	452	425	352	530	520	441	23.1	1889
240	0.075	0.1	520	488	404	651	641	536	26	2408
300	0.06	0.082	588	546	457	824	756	620	28.4	3007
400	0.047	0.066	672	620	515	893	872	714	32	3934
500	0.037	0.054	761	693	572	1008	987	814	36.3	4942

Description: Single core cables with copper stranded conductors insulated with XLPE compound and covered with overall jacket of PVC compound

Standards: Cables are produced according to SASO IEC 60228, IEC 60502 - 1 also BS 6004 ,6346

Rated Voltage: 600/1000 V



كابلات الألمنيوم متعددة الاقطاب المعزولة والمغلقة
ومسلحة بالصلب

Aluminum Cables With XLPE/ SWA / PVC

Description: Multicore cables with aluminium conductors (sectoral stranded) insulated with XLPE compound ,armored with a layer of steel wires and covered with overall jacket of PVC compound

Standards: Cables are produced according to IEC 60228 ,IEC 60502 -1
also BS6004 ,BS 6346

Rated Voltage: 600/1000 V

Cross-section area of conductor	Max Resistance		current carrying capacity			overall diameter	weight
	DC at 20 C	AC at 90 C	Laid in ground at 35 C		Laid in Air at 40 C		
mm2	ohm/km	ohm/km	direct laid	In Duct	free	Approx mm	Approx kg/km

two core

16	1.91	2.3	73	57	79	21.6	770
25	1.2	1.44	96	74	101	24.2	1370
35	0.868	1.043	129	105	131	27.5	1560

Three Core

16	1.91	2.3	67	52	67	22.6	870
25	1.2	1.44	89	70	89	27	1515
35	0.868	1.113	122	98	115	26.1	1259
50	0.641	0.822	146	108	141	30	1571
70	0.443	0.569	178	141	178	34.2	2139
95	0.32	0.411	213	163	218	37.3	2576
120	0.253	0.325	242	194	252	41.3	3052
150	0.206	0.265	270	219	288	43.9	3473
185	0.164	0.212	305	245	331	51.4	4701
240	0.125	0.163	352	286	390	57.4	5673
300	0.1	0.131	395	320	445	60.5	6816

Four core

16	1.91	2.3	67	52	67	25	1335
25	1.2	1.44	89	70	89	29.1	1630
35	0.868	1.113	120	95	115	30.2	1681
50	0.641	0.822	145	110	141	35.6	2336
70	0.443	0.569	175	140	173	39	2840
95	0.32	0.411	210	165	210	44.1	3545
120	0.253	0.325	235	190	241	47.2	4334
150	0.206	0.265	265	215	283	52	5148
185	0.164	0.212	290	240	320	57.6	6132
240	0.125	0.163	340	280	383	62.9	7374
300	0.1	0.131	390	315	451	68.1	8624

Four core with reduced neutral

3X35+16	0.868	1.113	120	95	115	28.6	1452
3X50+25	0.641	0.822	145	110	141	32.2	1809
3X70+35	0.443	0.569	175	140	173	36.6	2452
3X95+50	0.32	0.411	210	165	210	40.9	2968
3X120+70	0.253	0.325	235	190	241	46.7	3956
3X150+70	0.206	0.265	265	215	283	50.4	4529
3X185+95	0.164	0.212	290	240	320	55.2	5310
3X240+120	0.125	0.163	340	280	383	61	6384
3X300+150	0.1	0.131	390	315	451	66.4	7479



كابلات النحاس متعددة الاقطاب المعزولة والمغلقة
ومسلحة بالصلب

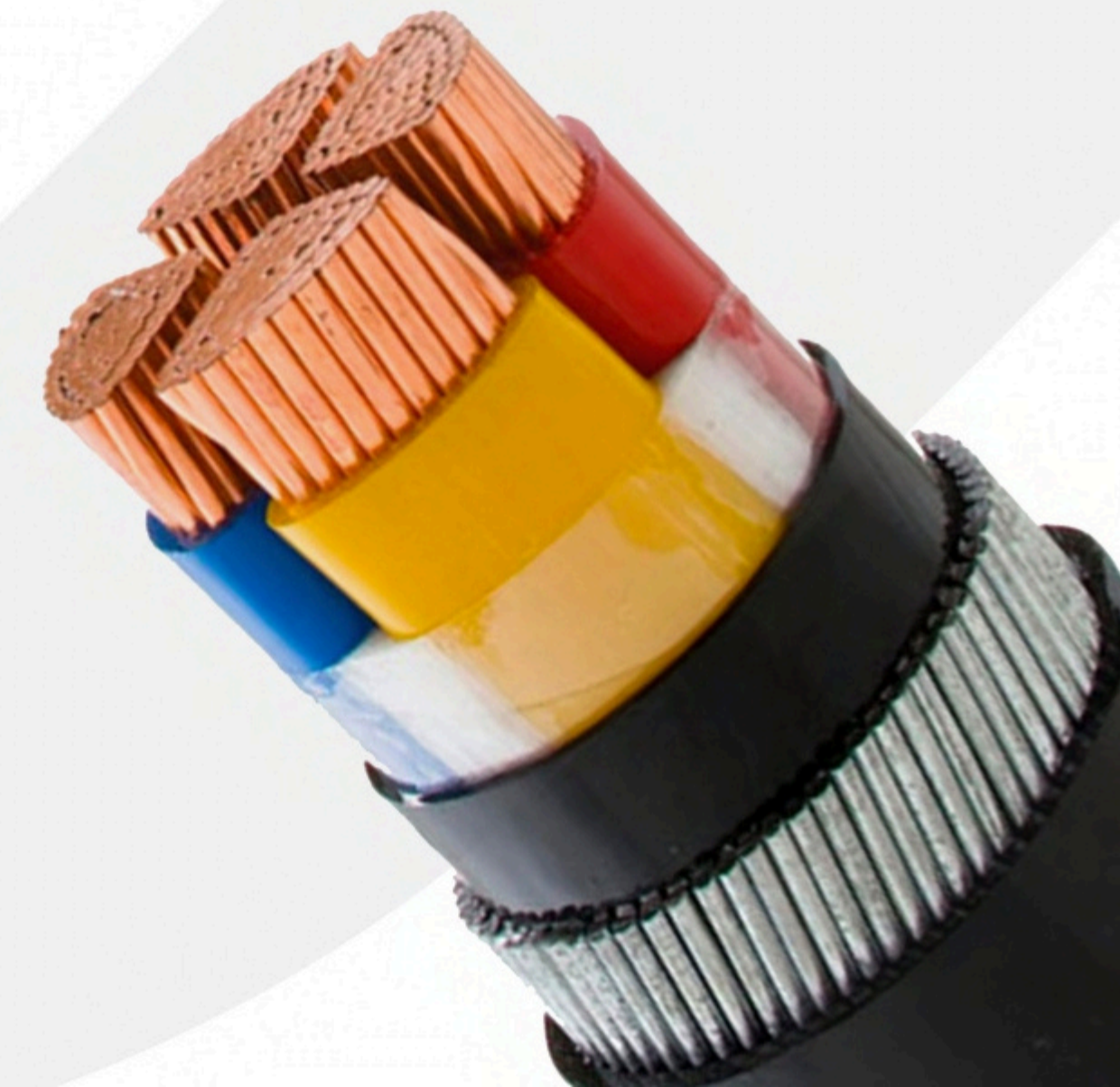
Copper Conductor With XLPE / SWA / PVC

NOMINAL CROSS SECTION AREA mm²	MAX RESISTANCE		CURRENT CARRYING CAPACITY			OVERALL DIAMETER	weight of cable approx KG/KM
	DC AT 20C	AC AT 90 C	LAID IN GROUND AT 35 C		LAID IN AIR AT 40C		
			DIRECT LAID AMP	IN DUCT AMP	FREE AMP	APPROX. mm	
TOW CORE							
4	4.61	5.51	51	41	47	16.6	580
6	3.08	3.68	64	53	61	17.6	660
10	1.83	2.18	83	70	80	19.6	835
16	1.15	1.38	107	84	106	21.6	1020
25	0.727	0.87	140	108	140	24.2	1335
THREE CORE							
4	4.61	5.51	46	37	42	17.2	650
6	3.08	3.68	58	46	51	18.3	755
10	1.83	2.18	76	61	69	20.5	965
16	1.15	1.38	98	76	90	22.6	1240
25	0.727	0.87	130	103	120	27	1850
35	0.524	0.669	158	120	149	28	2120
50	0.387	0.494	188	146	182	30	2474
70	0.268	0.343	229	184	229	34.2	3439
95	0.193	0.248	274	218	280	37.3	4384
120	0.153	0.197	310	249	322	41.3	5330
150	0.124	0.16	346	280	368	43.9	6300
185	0.099	0.129	387	315	420	51.4	8182
240	0.075	0.1	444	371	491	57.4	10273
300	0.06	0.0815	494	409	557	60.5	12567
FOUR CORE							
4	4.61	5.51	46	37	42	18.3	740
6	3.08	3.68	58	46	51	19.5	860
10	1.83	2.18	76	61	69	21.9	1155
16	1.15	1.38	98	76	90	25	1630
25	0.727	0.87	130	103	120	29.1	2220
35	0.524	0.669	153	119	143	25.5	2910
50	0.387	0.494	185	145	184	35.6	3540
70	0.268	0.343	220	180	220	39	4573
95	0.193	0.248	265	210	273	44.1	5957
120	0.153	0.197	305	245	315	47.2	7372
150	0.124	0.16	335	275	375	52	8917
185	0.099	0.129	375	310	410	57.6	10774
240	0.075	0.1	435	365	488	62.9	13506
300	0.06	0.0815	490	405	562	68.1	16291
FOUR CORE WITH REDUCED NEUTRAL							
3x35+16	0.524	0.669	158	122	147	28.6	2216
3x50+25	0.387	0.494	185	145	184	32.2	2871
3X70+35	0.268	0.343	220	180	220	36.6	3975
3X95+50	0.193	0.248	265	210	273	40.9	5077
3X120+70	0.153	0.197	305	245	315	46.7	6668
3X150+70	0.124	0.16	335	275	375	50.4	7758
3X185+95	0.099	0.129	375	310	410	55.2	9395
3X240+120	0.075	0.1	435	365	488	61	11762
3X300+150	0.06	0.0815	490	405	562	66.4	14191

Description: Multicore cables with copper conductors (sectoral stranded) insulated with XLPE compound ,armored with a layer of steel wires and covered with overall jacket of PVC compound

Standards: Cables are produced according to SASO IEC 60228 , IEC 60502 -1 also BS6004 ,BS 6346

Rated Voltage: 600/1000 V



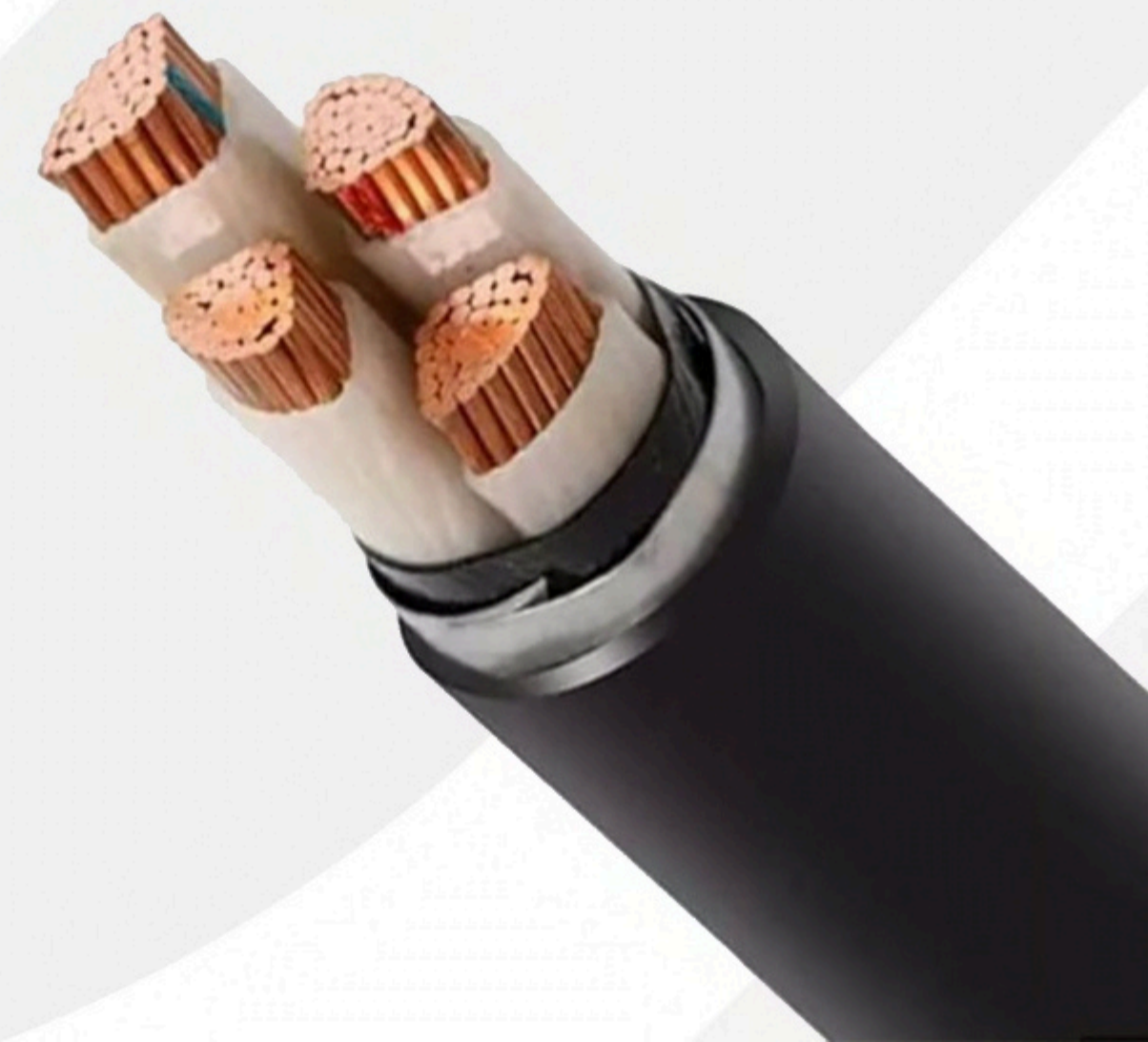
Nominal cross section area mm2	Max Resistance		Current Carrying Cap			Overall Diameter	Net Weight
	DC at 20 °c	AC at 90 °c	Laid in Ground at 35 °c		Laid in Air at 40 °c		
			Direct Laid	In Duct	Free		
	ohm/km	ohm/km	Amp	Amp	Amp	Approx mm	Approx/ kg /mm
	Tow Core						
6	3.08	3.68	62.00	51.00	59.00	15.50	405.00
10	1.83	2.18	81.00	68.00	78.00	17.50	530.00
16	1.15	1.38	105.00	82.00	103.00	19.50	685.00
25	0.73	0.87	138.00	106.00	137.00	22.10	930.00
	Tow Core						
6	3.08	3.68	56.00	44.00	49.00	16.20	465.00
10	1.83	96.00	74.00	59.00	67.00	18.40	650.00
16	1.15	1.38	96.00	74.00	88.00	20.50	870.00
25	0.73	0.87	127.00	102.00	120.00	24.20	1,235.00
35	0.52	0.67	158.00	120.00	149.00	22.70	1,451.00
50	0.39	0.49	188.00	146.00	182.00	26.60	1,897.00
70	0.27	0.34	229.00	184.00	229.00	29.90	2,580.00
95	0.19	0.25	274.00	218.00	280.00	32.70	3,420.00
120	0.15	0.20	310.00	249.00	322.00	37.10	4,572.00
150	0.12	0.16	346.00	280.00	368.00	39.60	5,486.00
185	0.10	0.13	387.00	315.00	420.00	46.00	6,831.00
240	0.08	0.10	444.00	371.00	491.00	52.10	8,738.00
300	0.06	0.08	494.00	409.00	557.00	55.10	10,649.00
	Four core						
6	3.08	3.68	56.00	45.00	49.00	17.40	555.00
10	1.83	2.18	74.00	60.00	67.00	19.80	795.00
16	0.15	1.38	96.00	75.00	88.00	22.20	1,075.00
25	0.73	0.87	127.00	102.00	120.00	26.30	1,540.00
35	0.52	0.67	153.00	119.00	143.00	25.50	1,847.00
50	0.39	0.49	185.00	145.00	178.00	29.10	2,412.00
70	0.27	0.34	220.00	180.00	215.00	33.10	3,348.00
95	0.17	0.25	265.00	210.00	268.00	3,734.00	4,754.00
120	0.15	0.20	305.00	245.00	310.00	41.40	5,829.00
150	0.12	0.16	335.00	275.00	352.00	45.80	7,169.00
185	0.10	0.13	375.00	310.00	404.00	51.80	8,786.00
240	0.08	0.10	435.00	365.00	483.00	56.00	11,220.00

كابلات النحاس متعددة الاقطاب المعزولة والمغلقة ومسوحة بشريط من الصلب
Copper Conductor With XLPE / STA / PVC

Description: Multicore cables with copper conductors (sectoral stranded) insulated with XLPE compound ,armored with steel tapes and covered with overall jacket of PVC compound

Standards: Cables are produced according to IEC 60228 ,IEC 60502 -1 also BS 6004 ,BS 6346

Rated Voltage: 600/1000 V



كابلات النحاس المعزولة المرنة والمغلقة

Copper Conductor With PVC/ PVC / Flexible

Description: Circular Flexible cables with copper conductors insulated with PVC compound and covered with jacket of PVC compound

Standards: Cables are produced according to SASO IEC 60228 ,IEC 60227 also BS ,BS 6346

300/500 V & 450/750 V

Nominal cross section area mm ²	no of wires	Thickness of		Max Resistance		Current Carrying Capacity		Overall Diameter	Net Weight
		insulation	outer sheath	DC at 20 °c	AC at 70 °c	in conduits	Air at 40 °c		
	No.	mm	mm	ohm/km	ohm/km	Amp	Amp	Nominal mm	Approx kg / km
Cu. Conductor low core									
2x0.5	7	0.6	0.8	36	41.4	2	2	5.8	43
2x0.75	11	0.6	0.8	24.5	28.3	8	11	6.4	54
2x1	14	0.7	0.8	18.1	22.8	10	13	7	67
2x1.5	21	0.7	0.8	12.1	14.5	13	16	7.6	83
2x2.5	35	0.8	1	7.41	8.87	18	22	9.4	129
Circular three core									
3x0.5	7	0.6	0.8	36	41.4	2	2	6.1	50
3x0.75	11	0.6	0.8	24.5	28.3	8	11	6.8	65
3x1	14	0.7	0.8	18.1	22.8	10	13	7.5	80
3x1.5	21	0.7	0.8	12.1	14.5	13	16	8.1	101
3x2.5	35	0.8	1	7.41	8.87	18	22	10	159
Circular four core									
4x0.5	7	0.6	1	36	41.4	2	2	7.1	66
4x0.75	11	0.6	1	24.5	28.3	7	10	7.8	85
4x1	14	0.7	1	18.1	22.8	9	12	8.6	105
4x1.5	21	0.7	1	12.1	14.5	12	15	9.3	132
4x2.5	35	0.8	1	7.41	8.87	16	20	11	196
Circular five core									
5x0.75	11	0.6	1	24.5	28.3	7	10	8	102
5x1	14	0.7	1	18.1	22.8	9	12	9.2	122
5x1.5	21	0.7	1	12.1	14.5	12	15	10.3	180
5x2.5	35	0.8	1	7.41	8.87	16	20	12.4	270



موصلات النحاس المفردة والمعزولة (مجدولة و مصممة)
Copper Conductor With PVC

Description: PVC insulated copper conductors (solid and stranded)

Standards: Cables are produced according to SASO IEC 60228 ,

IEC 60227 also BS6004 ,BS 6346 Rated

also BS 6004 ,BS 6346

Voltage: 300/500 V & 450/750 V

Cross-section area of conductor	Max Resistance		current carrying capacity		overall diameter	weight
	DC at 20 C	AC at 70 C	Air at 40 C			
			free	In pipe	Approx mm	Approx kg/km
mm2	ohm/km	ohm/km	Amp	Amp		

Single core solid copper wires (class1)

a- 300/500 V insulated wires

0.5	36	45	2	2	2	8
0.75	24.5	30.77	10	7	2.2	11
1	18.1	22.73	13	10	2.3	15

b- 450 /750 V insulated wires

1.5	12.1	14.6	17	13	3	20
2	9.15	10.9	19	15	3.2	27
2.5	7.41	8.89	24	19	3.3	31
3	6.1	7.41	27	21	3.9	37
4	4.61	5.51	32	23	4.2	47
6	3.08	3.68	40	29	4.5	68

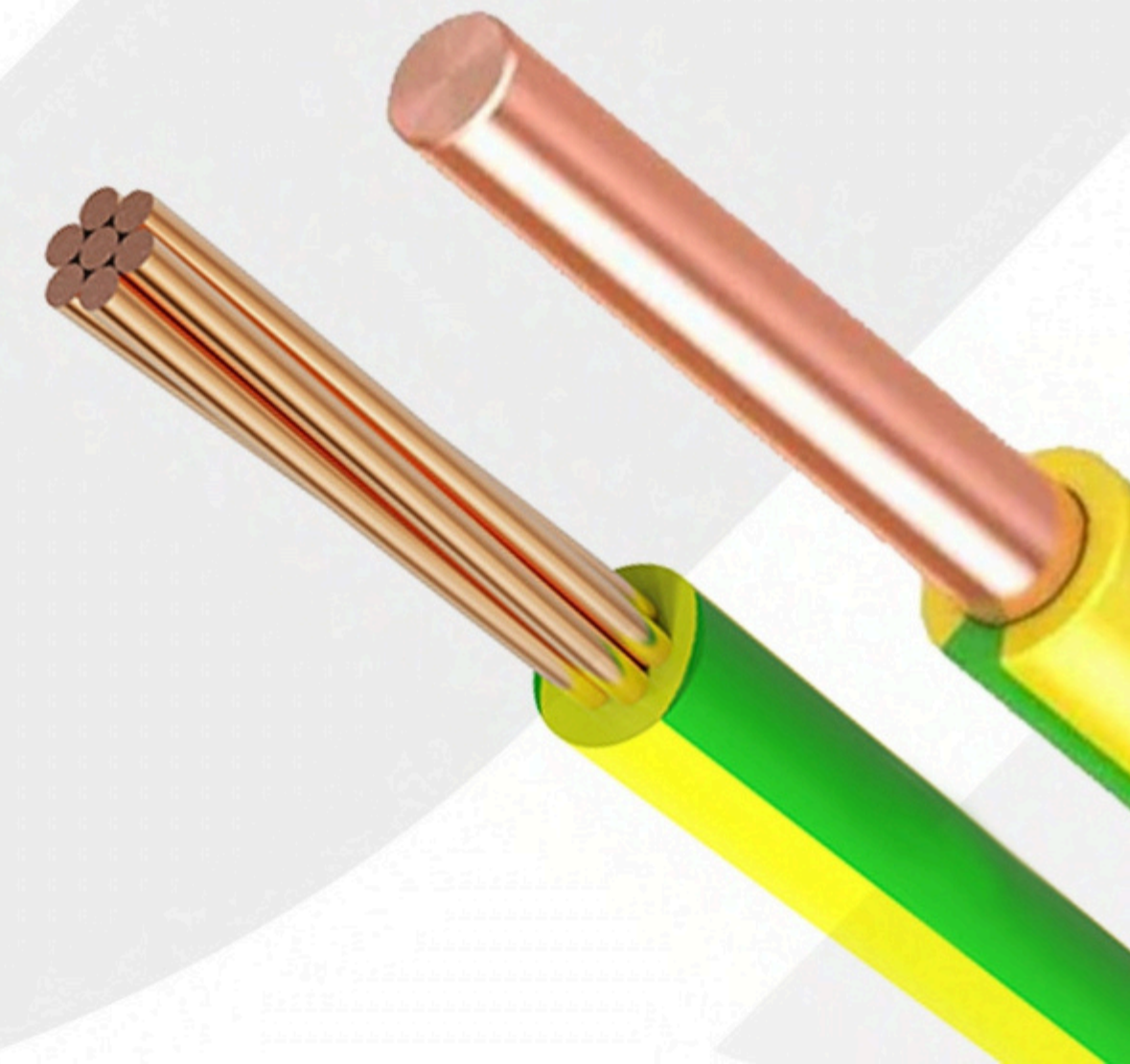
Single core Stranded copper (class2)

a - 300/500 V insulated wires

0.5	36	41.4	2	2	2.5	12
0.75	24.5	28.3	11	9	2.8	15
1	18.1	22.8	14	12	2.9	17

b - 450/750 V cables

1.5	12.1	14.5	17	14	3.2	22
2	9.15	10.9	22	17	3.4	27
2.5	7.41	8.87	23	18	3.6	33
3	6.1	7.41	30	21	3.8	45
4	4.61	5.51	31	24	4.6	53
6	3.08	3.68	40	30	5	74
10	1.83	2.18	57	42	5.8	114
16	1.15	1.38	76	55	6.8	174
25	0.727	0.87	102	72	8.4	282
35	0.524	0.627	127	89	9.5	382
50	0.387	0.464	157	108	11.2	539
70	0.268	0.323	201	136	13	732
95	0.193	0.232	252	169	15	1048
120	0.153	0.185	295	195	16.4	1230
150	0.124	0.151	340	223	18	1530
185	0.099	0.122	395	256	20.5	1889
240	0.075	0.094	474	303	23.4	2434
300	0.06	0.077	550	346	25.8	3040
400	0.047	0.059	644	397	29.5	4065
500	0.037	0.048	752	452	33	4797
630	0.028	0.039	888	513	37	6000



Cross-section area	Max diameter of wires	Max Resistance		Current Carrying Capacity Air at		Overall diameter	Net Weight
		DC at 20 C	AC at 90 C	free	In pipes		
mm ²	mm	ohm/km	ohm/km	Amp	Amp	mm	kg/km

300/500 V insulated wires

0.5	0.21	39	46.7	2	2	2.3	10
0.75	0.21	26	31.6	10	7	2.5	13
1	0.21	19.5	23.4	13	10	2.7	16

450 /750 V insulated wires

1.5	0.26	13.3	15.95	17	13	3	21
2.5	0.26	7.98	9.5	24	19	3.7	34
4	0.31	4.95	5.93	32	23	4.5	50
6	0.31	3.3	3.95	40	29	5.1	71
10	0.41	1.91	2.29	57	41	6.9	120
16	0.41	1.21	1.45	76	54	7.6	179
25	0.41	0.78	0.94	103	70	9.5	276
35	0.41	0.554	0.663	128	87	11	375
50	0.41	0.386	0.462	156	106	12.6	542
70	0.51	0.272	0.326	200	131	14.6	733
95	0.51	0.206	0.247	251	166	16.8	957
120	0.51	0.161	0.193	293	190	18.9	1243
150	0.51	0.129	0.155	335	219	21.2	1518
185	0.51	0.106	0.127	390	250	23.4	1895
240	0.51	0.08	0.096	471	300	26.7	2400

موصلات النحاس المفردة والمعزولة (الشعري)

Copper Conductor With PVC

Description: Soft annealed copper fixable stranded Insulated with PVC compound

Standards: Cables are produced according to SASO IEC 60228 , IEC 60227 also BS 6500 ,BS 6004

Rated Voltage: 300/500 V & 450/750 v



كابلات الشبكات (Ethernet) الفئة 6
Copper Conductor With PVC

size	Cond. dia mm	Insulation thickness mm	Jacket thicknessmm	Outer dia	Standard length mm	Approx Weight kg
4X2X 24 AWG	0.51	0.17	0.6	5.3	305	9.8

PERFORMANCE SPECIFICATION AS PER EIA/TIA 568-A

DC Resistance at 20 C (s/km)		93.8
Impedance(s)		100+/-15 (1-16 MHz)
Nominal capacitance (q/m)		46
Max Attenuation (Db/100Mtr)	1 MHz	2.1
	4 MHz	4.3
	10 MHz	6.6
	16 MHz	8.2
	20 MHz	9.2
	100 MHz	22
Min Crosstalk (Db/100Mtr)	1 MHz	65.3
	4 MHz	56.3
	10 MHz	50.3
	16 MHz	47.3
	20 MHz	45.8
	100 MHz	35.3

4X2X24 AWG

NETWORK CABLE – LAN EIA/TIA 568-A & UL-444

CONSTRUCTION :

24 AWG Solid bare copper conductor insulated with solid polyethylene colour coded cores twisted into pairs and cabled together. Gray outer jacket of PVC as per UL -444.

UL LISTED TYPE CM .

PACKAGING :

1000 Ft (305mt) length on reels.

4X2X23 AWG

Usage cable:

This cable are used as Cat 6 Class 250 MHz UTP data cable in data communication systems.

CABLE STRUCTURE :

23 AWG mono electrolytic Copper PE Insulation Cores
Twisted in pairs

The pairs are twisted by star shaped separator to from the cable structure.
7.30 mm PVC Outer sheath

ELECTRICAL PROPERTIES:

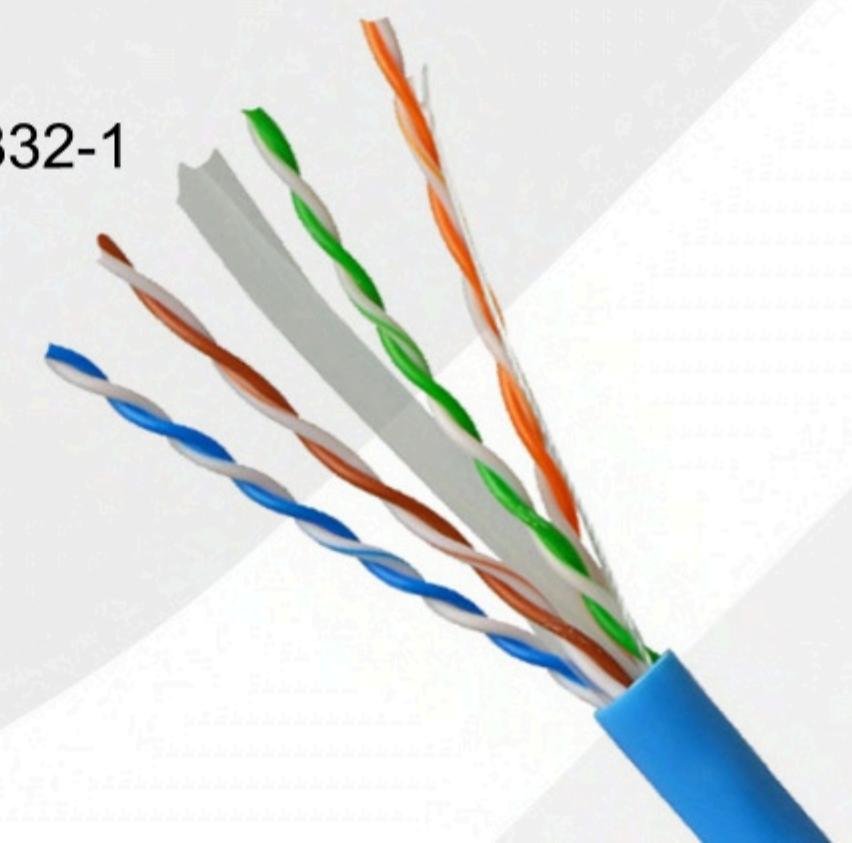
Operating voltage: 250 v Operating temperature: -20c+60c
Insulation Resistance : 5000 Mohm xKm .

APPLICABLE STASNDARD:

IEC 11801 , IEC 61156 ,EN 50173 , IEC 60332-1

PACKAGING :

305m Carton



unshielded cables

SIZE	CORES	Strands x diameter	insulation thickness	sheath thickness	Approx Out Dia	Approx weight	packing
AWG	No	no x mm	mm	mm	mm	kg/km	
18	2	1 x 1.02	0.38	0.89	5.7	42	c,6
16	2	1 x 1.29	0.38	0.89	6.2	55	c,6
14	2	1 x 1.63	0.51	1.01	7.7	84	8,6
12	2	1 x 2.05	0.51	1.01	8.6	113	8,6

shielded cables

SIZE	CORES	Strands x diameter	insulation thickness	sheath thickness	Approx Out Dia	Approx weight	packing
AWG	No	no x mm	mm	mm	mm	kg/km	
18	2	1 x 1.02	0.38	0.89	6.1	53	c,6
16	2	1 x 1.29	0.38	0.89	6.6	66	c,6
14	2	1 x 1.63	0.51	1.01	8.1	106	8,6
12	2	1 x 2.05	0.51	1.01	9	136	8,6
18	4	1 x 1.02	0.38	0.89	6.8	78	8,6
16	4	1 x 1.29	0.38	0.89	7.7	107	8,6
14	4	1 x 1.63	0.51	1.01	9.3	163	8
12	4	1 x 2.05	0.51	1.01	10.8	233	8

الاسلاك والكابلات المقاومة للحريق Fire Survival Cables

FIRE ALARM CABLES (SHIELDED & SHIELDED) 105 C (UL 1424) POWER LIMITED FIRE PROTECTIVE SIGNALLING CIRCUIT CABLES 300 V

APPLICATION : Can be used as fixed wiring within buildings in accordance with NEC Article 760 power limited circuits . Also suitable as a power limited circuit cable in accordance with NEC Article 725 class 2 or 3 circuits.

CONSTRUCTION :

- Conductor: solid Annealed Copper as per ASTM B3.
- Insulation : extruded solid PVC rated 105 C .
- Assembly : color coded insulated cores cabled.

When the assembly is shielded an aluminum mylar tape is used with a stranded tinned copper drain wire in contact with aluminum part of the screen.

- Jacket : red colored PVC jacketed passes the IEEE-383 flame test.

No of conductor	color
1	Black
2	red
3	yellow
4	blue
5	brown
6	orange



كابلات الكنترول المرنة المعزولة
Copper Conductor With PVC

Description:

Control cables PVC insulated and PVC sheath Copper conductor (Solid or Stranded) .

Standards:

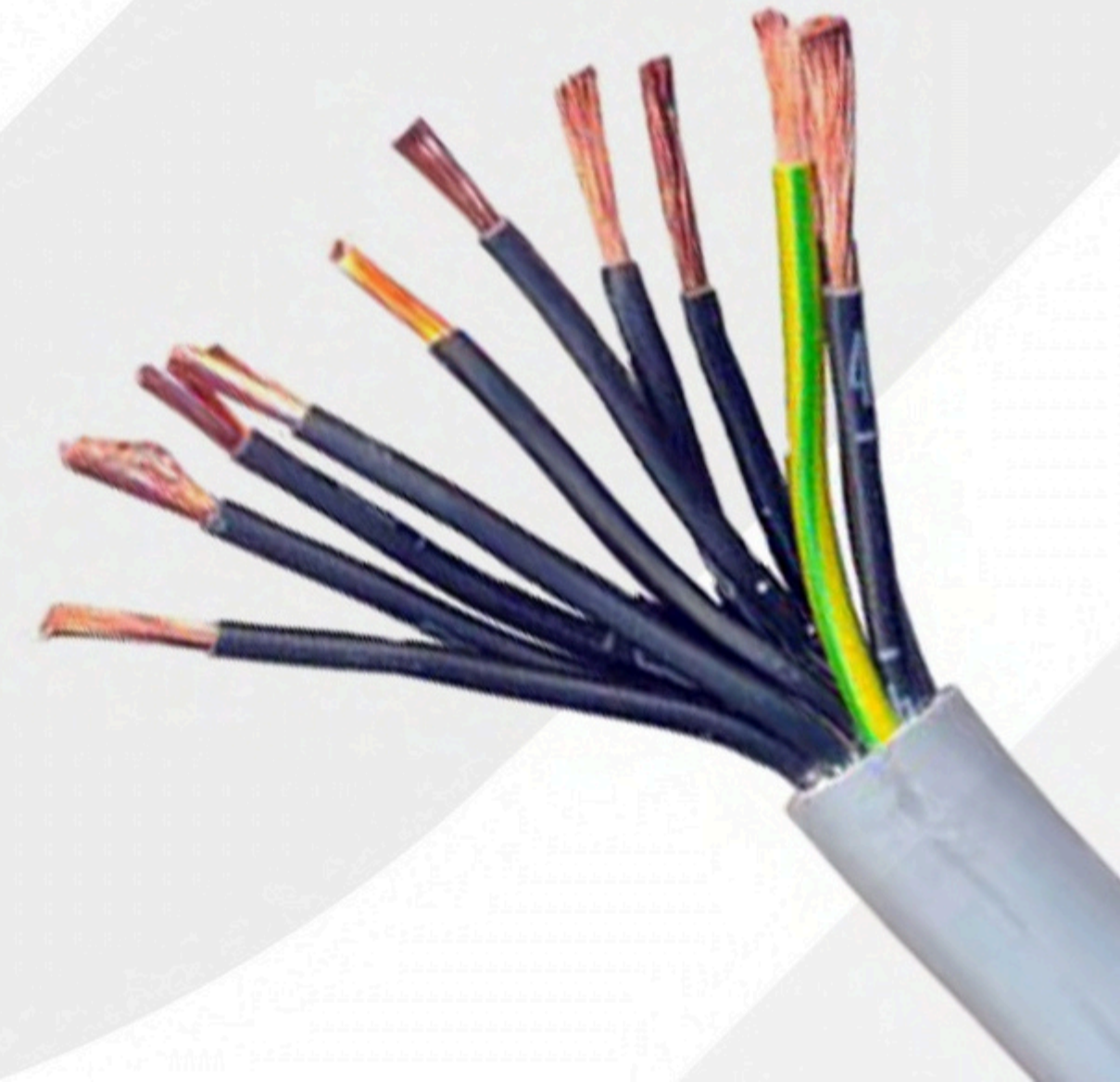
Cables are produced according to IEC 60228 ,IEC 60227 also BS 6004 ,BS 6346 Rated .

Voltage: 300/ 500 V & 450 /750 V

Cross-section area of conductor	Max Resistance		current carrying capacity			overall diameter	weight
	DC at 20 C	AC at 70 C	Laid direct in ground at 35 C	Laid In Duct	Laid in Air at 40 C		
mm2	ohm/km	ohm/km	Amp	Amp	Amp	Approx mm	Approx kg/km
5X1.5	12.1	14.6	18	15.5	13.5	12.3	215
7X1.5	12.1	14.6	16	14	12.5	13.3	265
10X1.5	12.1	14.6	14	12.5	11.5	16.5	360
12X1.5	12.1	14.6	13	11.5	10.5	17.5	410
14X1.5	12.1	14.6	12	10.5	9.5	17.8	465
16X1.5	12.1	14.6	11	10	9	18.7	530
19X1.5	12.1	14.6	10	9	8	19.7	600
24X1.5	12.1	14.6	9	8	7.5	22.9	740
30X1.5	12.1	14.6	8	7.5	6.5	24.2	890
37X1.5	12.1	14.6	7.5	6.5	6	26.1	1070

5X2.5	7.41	8.87	24	20.5	18	13.4	275
7X2.5	7.41	8.87	22	18.5	16	14.5	350
10X2.5	7.41	8.87	20	16.5	14.5	18.1	480
12X2.5	7.41	8.87	18	15.5	13.5	18.7	555
14X2.5	7.41	8.87	16	14	12	19.6	630
16X2.5	7.41	8.87	15	13	11	20.6	710
19X2.5	7.41	8.87	14	12	10.5	21.7	820
24X2.5	7.41	8.87	13	10.5	9.5	25.3	1020
30X2.5	7.41	8.87	11.5	10	8.5	26.8	1235
37X2.5	7.41	8.87	10	9	7.5	28.9	1495

5X4	4.61	5.51	31	25.5	24	16.1	410
7X4	4.61	5.51	28	23	21.5	17.4	520
10X4	4.61	5.51	25	21	19.5	22	720
12X4	4.61	5.51	23	19.5	18	22.7	840
14X4	4.61	5.51	20.5	17	16	23.9	950
16X4	4.61	5.51	19.5	16	15	25.2	1070
19X4	4.61	5.51	18	15	14	26.6	1260
24X4	4.61	5.51	16	13.5	12.5	31.4	1580
30X4	4.61	5.51	14.5	12	11	33.5	1965
37X4	4.61	5.51	13	11	10	36.2	2510





SAMA CABLES

شركة سما الكابلات للصناعة