
GOLDEN
CABLES
نوصل الطـــــاقة
نوصل المـــــستقبل

GOLDEN CABLES

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GOLDEN CABLES

Introducing the company

التعريف بالشركة

جولدن للكابلات شركة رائدة فى مجال سحب وتغليف الأسلاك والكابلات الكهربائية المتخصصة وكابلات الطاقة

تم إنشاءها عام 1980 , تطورت من شركة سحب محلية إلى شركة عملاقة متخصصة في مجال الكابلات الكهربائية والطاقة

لماذا تعد جولدن للكابلات الخيار الأمثل !!

جولدن للكابلات شركة رائدة فى مجال سحب وتغليف الأسلاك والكابلات الكهربائية المتخصصة وكابلات الطاقة

الـــــــرؤيـــــــــة

أن نصبح شركة عالمية رائدة في توفير حلول وخدمات الطاقة مع تعظيم القيمة التي يحصل عليها عملائنا ، ويمثل ضمن تطور وإذهار المجتمعات التى تعمل بها جزءاً حيوياً من مهمتنا

Golden Cables is a leading company in the field of manufacturing and packaging wires and cables Specialized electrical and power cables.
Established in 1980, it has evolved from a local manufacturing company to a giant company Specializing in Electrical cables and Energy

Why Golden Cables is the perfect choice !!

With a production capacity of more than 250,000 kilograms of electric cables And more than 2,000,000 meters of various sizes per month thanks to the provision of the latest Production lines, in addition to the efficiency of engineers, technicians and workers
The company, which contributes to increasing the movement of production and production capacity
He also applied the methodology of our six-year endeavor and the General Authority for Standardization Egyptian and quality

The Vision

To become a leading global provider of energy solutions and services while maximizing value
By our customers, and within the development and astonishment of the communities in which it operates is a vital part of our mission

Chairman's speech

كلمة رئيس مجلس الإدارة

Message from the Chairman of
the Board of Directors

Golden Cables Company has made a great effort to build
A good reputation in the Egyptian, Arab and African market
With excellence and excellence, as we earn this reputation
Through our way of running a business that is governed by
values Ethics and standards on the following growth:-

رسالة رئيس مجلس الإدارة

لقد بذلت شركة جولدن للكابلات جهداً كبيراً لبناء سمعة حسنة في السوق المصري والعربي والأفريقي بالتفوق والإمتياز حيث اننا نكسب هذه السمعة من خلال طريقنا في إدارة الأعمال التي تحكمها القيم والأخلاق والمعايير على النحو التالي :-

Integrity

To be ethical, honest and transparent in all our work

النـــزاهـــــة

أن نتحلى بالأخلاق والأمانة والشفافية في جميع أعمالنا

Responsibility, commitment
and cooperation

Take responsibility for our actions and decisions
Speedy completion and delivery of projects
Uphold the value of equality, humility and respect
or others Cooperation and teamwork

المسؤلية والإلتزام والتعاون

- **تحمـــــل مسئولية أعمالنا وقراراتنا**
- **سرعة إنجاز المشروعات وتسليمها**
- **إعلاء قيمة المساواة والتواضع واحترام الآخرين**
- **التعـــــاون والعمـــل الجمـــــاعي**

Customer
satisfaction

This is by providing exceptional customer service
at the local and global levels by providing
High quality innovative products, services
and solutions

رضـــــا العمـــلاء

وذلك من خلال تقديم خدمـــة عملاء استثنائيـة على المستويين المحلي والعـالمي وذلك بتوفير منتجات وخدمات وحلول مبتكرة ذات جودة عالية

innovation

This is through the continuous pursuit and innovation
of the latest technology development and dissemination
He was humiliated by seeking the best means to improve
the performance

الإبتـــــــكار

- **وذلك من خلال السعي الدائم والإبتكار أحدث التقنيات وتطويرها وتعميمها.**
- **وذلك من خلال السعي وراء أفضل الوسائل لتحسين الأداء.**

Excellence

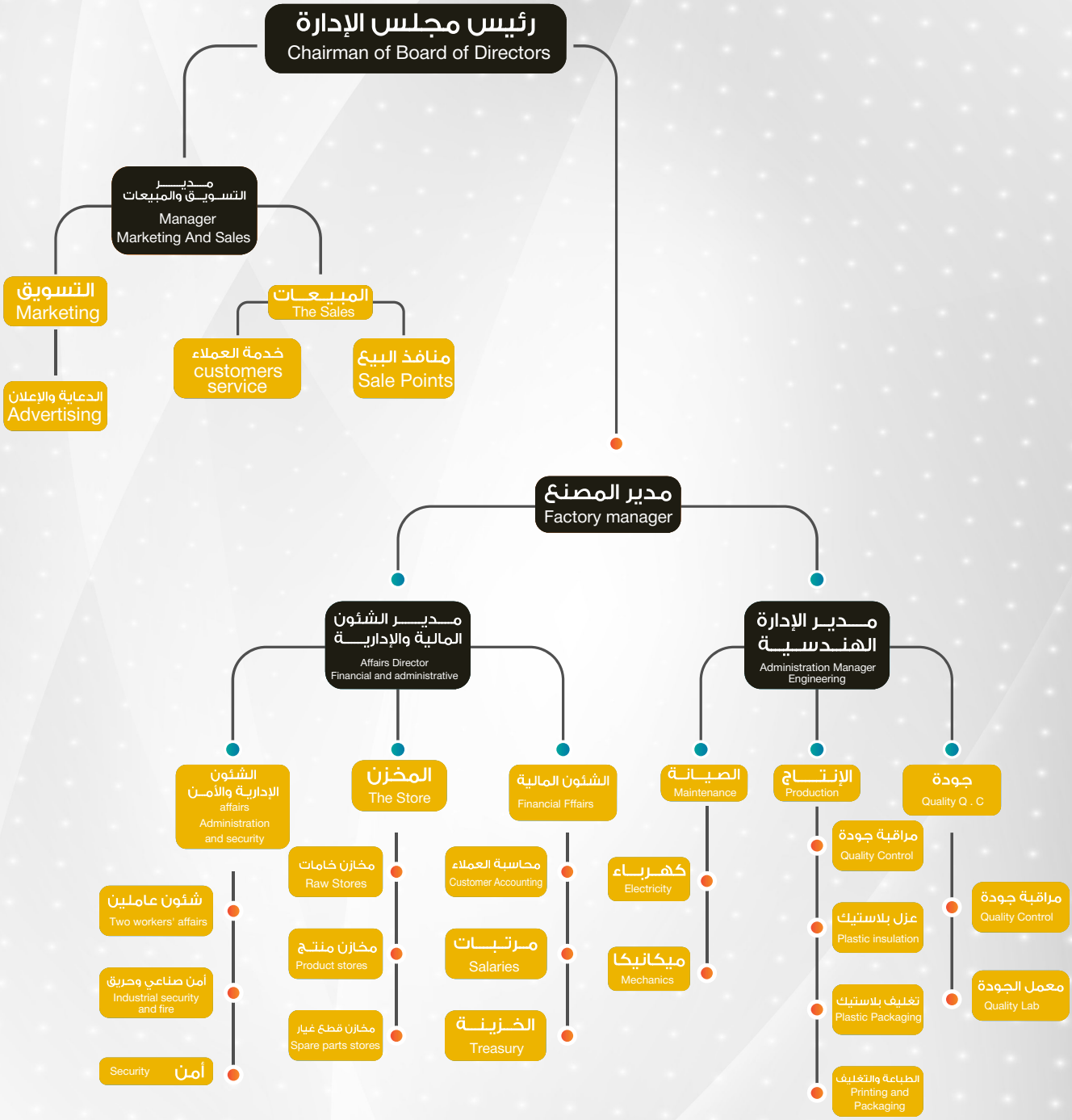
This is by striving to achieve excellence in every
aspect aspects of our business
Facing difficulties with determination and
determinationto achieve success

التمـــــــيز

- **وذلك من خلال السعي لتحقيق التميز في كل جانب من جوانب أعمالنا.**
- **مواجهة الصعوبات بعزم وتصميم لتحقيق النجاح**

Organizational Structure

الهيكل التنظيمي



Production process sequence map
خريطة تسلسل عملية الإنتاج

جميع هذه المراحل بعد إجراء الإختبار عليها والتأكد من صحتها
قد تكون مقبولة أو مرفوضة حسب نتيجة الإختبار

Quality standards

معـايـيـر الجـــودة

- تتم تصنيع كابلات وأسلاك جولدن للكابلات بما يتوافق مع أهم المعايير المصرية والعالمية , المصرية(م.ق.م 2005 / 2948 و 2018 / 182)
  والمواصفات العالمية (8/60227 + IEC 60502 وتطبيق أحدث النظم العالمية المعايير الجودة
- يتم تصنيع كابلات وأسلاك جولدن للكابلات أيضاً بما يتوافق مع نتائج أبحاث السوق الوافية ومتطلبات العملاء
- يتفق نظام إدارة الجودة لدى جولدن للكابلات مع شهادة الجودة كما أن الشركة حاصلة على شهادة الأيزو ISO2018 / 45001 • ISO2015 / 14001 • ISO2015 / 9001
- كابلات وأسلاك جولدن للكابلات يتم إختبارها فى الجهات الحكومية المختصة
- كما أن الشركة تمتلك معمل اختبار مركزى لتفعيل منظومة رقابة وضبط جودة الإنتاج بصفة مستمرة

- Golden Cables cables and wires are manufactured in accordance with the most important standards Egyptian and International, Egyptian (P.S. 2948/2005 and 182/2018) And international specifications (8/60227+ IEC 60502) and the application of the latest international systems To quality standards
- Golden Cables cables and wires are manufactured in accordance with market research results Adequate to customer requirements
- The quality management system of Golden Cables is consistent with the quality certificate ISO certified ISO2018 / 45001 • ISO2015 / 14001 • ISO2015 / 9001
- Golden Cables cables and wires are tested in the competent government agencies
- The company also owns a central testing laboratory to activate the monitoring and control system. Continuous production quality

Product testing and safety

إختبار وسلامة المنتجات

إختبـــــار المنتـــــج

تستخـدم أحـدث التقنيـات لإجـراء مجمـوعـة كـاملـة مـن إختبارات علي بعض من العينـات نقدمها في مختبراتنا المتطـورة والتـي تكـون متوافقـة مـع الظـروف البيئيـة وذلـك وفقـاً للمعاييـر المصريـة والبـريطـانيـة واللجنـة الكهـروتقنيـة الـدوليـة IEC وإختـبرت منتجـاتنـا علي جميع مستويات أثناء عملية التصنيع أيضاً وتخضع لمراقبة مستمرة.

The latest technology is used to perform a full range of tests on some of the samples
We offer it in our advanced laboratories, which are compatible with environmental conditions
according to Egyptian, British and IEC International Electrotechnical Commission standards
have tested our products At all levels during the manufacturing process as well and
are subject to continuous monitoring

أهم الإختبارات التي تتم بالمعمل

The most important tests performed in the laboratory

- M easure the diameter of the cross sectional area of the conductor — قياس قطر ومساحة مقطع الموصل.
- Measure the thickness of the insulation and casing — قياس سمك العزل والغلاف.
- Measure the electrical resistance of a conductor Insulation durability — قياس المقاومة الكهربائية للموصل.
- test (high voltage) — إختبار متانة العزل (الجهد العالي).
- Measure the insulation resistance at 70° C — قياس مقاومة العزل عند 70° مئوية.

Standards Related to Power Cables

No. of IEC	Subject
60227	Polyvinyl chloride insulated cables of rated voltage up to and including 450/750 V
60228	Conductors of insulated cables
60229	Electric cables – Tests on extruded oversheaths with a special protective function
60304	standard coulors for insulation for low-frequency cables and wires
60331	Tests for electric cables under fire conditions - Circuit integrity
60332	Tests on electric and optical fibre cables under fire conditions
60502-1	Power cables with extruded insulation and their accessories for rated voltages from
60189	Telephone Cable
11801	Lan Cable

أسلاك مباني جهد منخفض 450 / 750 ف

Building Wires 750/450 V

Short Description:	CU / PVC
Voltage:	750/450 V
C o n d u c t o r :	Stranded Plain Copper Conductor according to IEC 60228 Class 2
Insulation / Tempreature:	PVC Insulation / 70°C
Cable Marking:	GOLDEN CABLE INDUSTRIES No. of cores × size 450/750 V CU /PVC
Printing Type:	InkJet
Core Identification:	
Single Core:	G/Y (All Colours are Available as per Customer Request and as per Stock)
Packing:	Cable shall be supplied in lengths as indicated in technical schedule on Air Coils or drums.
Tests:	- Routine tests generally to IEC 60227 are performed on the cables and test certificate will be supplied o n request. - Electrical Resistance of the conductors shall be tested on IEC 60228. - Voltage Tes:t No breakdown of The insu ation shall occur, The applied Voltage and duration wil beas per IEC 60227 .

Electrical D a t a :

Maximum conductor operating temperature:	70 °C
Maximum conductor temperature during S.C:	160 °C

Laying conditions at trefoil formation are as below:

Soil thermal resistivity:	120 ◦ C . C m / Wa t t
- Burial depth:	0.5 m
- Ground temperature:	35 C°
- Air temperature:	40 °C
- Frequancy:	50 Hz

- Cables are protected from direct solar radiation and no other thermalsources ni the neighborhood.

Single Core Cables أسلاك معزولة ومجدولة

Cu / Pvc

Low Voltage Cables

450 / 750 V Indoor wires

Single Core Cables with Stranded

Copper Conductors and PVC Insulated

Description

Soft annealed stranded Copper conductors insulated with PVCcompound rated 70 C or 90 C according to IEC 60227 & BS EN 31-2-50525.

Application

For indoor fixed installations in dry locations, laid in conduits, as well as in steel support brachets.

Nominal Cross Sectional Area	Number and Nominal Diameter of Wires	Max Canductor Resistance		Current Rating in Air		Appro x. Overall Diameter	Approx Weight
		DC at 20 deg°C	AC at 70 deg°C	Free	In Pipes		
mm²		Ω / km	Ω / km	A	A	mm	Kg / Km
1.5 RE	7* 0.5	12.1	14.6	20	15	2.8	20
1.5 RM	7 * 0.5	12.1	14.6	20	15	3	21
2 RE	7 * 0.6	9.15	10.9	22	17	3.2	27
2 RM	7 * 0.6	9.15	10.9	22	17	3.4	28
2.5 RE	7 * 0.67	7.41	8.89	28	22	3.4	31
2.5 RM	7 * 0.67	7.41	8.89	28	22	3.6	33
3 RE	7 * 0.74	6.1	7.41	31	24	3.6	36
3 RM	7 * 0.74	6.1	7.41	31	24	3.8	39
4 RE	7 * 84	4.61	5.51	37	26	3.9	46
4 RM	7 * 84	4.61	5.51	37	26	4.1	49
6 RE	7 * 1.05	3.08	3.68	46	33	4.4	66
6 RM	7 * 1.05	3.08	3.68	46	33	4.7	70
10 RM	7 * 1.3	1.83	2.17	66	47	5.8	109
16 RM	7 * 1.7	1.15	1.37	87	62	6.8	166
25	19 * 1.3	0.727	0.8600	118	81	8.8	278
35	19 * 1.5	0.524	0.6300	147	100	9.9	371
50	19 * 1.8	0.387	0.4600	197	122	11.8	514
70	19 * 2.2	0.265	0.3200	230	151	13.5	711
95	19 * 2.5	0.193	0.2300	289	191	15.7	967
120	37 * 2	0.153	0.1900	337	219	17.4	1240
150	37 * 2.25	0.124	0.1500	385	259	12.4	1500
185	37 * 2.5	0.0991	0.1200	449	288	21.5	1852
240	61 * 2.25	0.0754	0.0920	542	345	24.7	2457
300	61 * 2.5	0.0601	0.0750	621	391	27.2	2977

Single Core Cables with Flexible Copper Conductors and PVC Insulated

Description

Soft annealed Copper fine wires, bunched Together in subunits or stranded bunched groups into a main units, which forms the flexible conductor.
Insulated with soft PVC 70 C or 90 C Compound.
Cables are produced according to IEC 60227 or BS EN 31-2-50525.

Application

For indoor fixed instllation in dry locations, where particular flexibility is required. For electrical panels connection or for electrical apparatus they can be laid in groups around steel sheets,

C . S . A	Cond Dia m.	Oreval Dia m.	Weight	Ma x. Cond Resist ance	Voltage Drop	Curren Rating	
						Ground at 30 C	Air at 40 C
mm	mm	mm	Kg / Km	DC at 20 C Ω/Km	C / A / Km	Am p.	Am p.
1x 0.5	0.9	21	8.82	39	58.2	3	2
1 x 0.75	1.2	2.7	12.74	26	48.3	7	10
1 x 1	1x34	2.9	14.7	19.50	374	11	13

Nominal Cross Sectional Area	Number and Nominal Diameter of Wires	Maximum Diameter of Wires	Max Canductor Resistance		Current Rating in Air		Appro x. Overall Diameter	Approx Weight
			DC at 20 deg°C	AC at 70 deg°C	Free	In Pipes		
mm ²		mm ²	Ω / km	Ω / km	A	A	mm	Kg / Km
1.5	21 * 30	0.26	13.3	15.9	20	15	3	20
2.0	28 * 30	0.28	9.15	10.9	22	17	3.3	2.8
2.5	35 * 30	0.26	7.98	9.56	28	22	3.7	31
3.0	42 * 30	0.31	6.1	741	31	24	3.9	3.7
4	56 * 30	0.31	4.95	5.93	37	26	4.2	44
6	84 * 30	0.31	3.3	3.95	46	33	4.7	62
10	140 * 30	0.41	1.91	2.29	66	47	6.2	108
16	224 * 30	0.41	1.21	1,45	87	62	7.2	162
25	350 * 30	0.41	0.78	0.9400	118	81	9,5	276
35	490 * 30	041	0.554	0.6630	147	100	11.0	376
50	700 * 30	0.41	0.386	0.4620	179	122	12.6	542
70	980 * 30	0.51	0.272	0.3260	230	151	14.6	733
95	1230 * 30	0.51	0.206	0.2470	289	191	16.8	957
120	1680 * 30	0.51	0.161	01930	337	219	18.9	1243
150	2100 * 30	0.51	0129	01550	385	252	21.2	1548
185	2590 * 30	0.51	0106	01270	449	288	23.4	1895
240	3360 * 30	0.51	0.0801	0.0960	542	345	26.7	2400

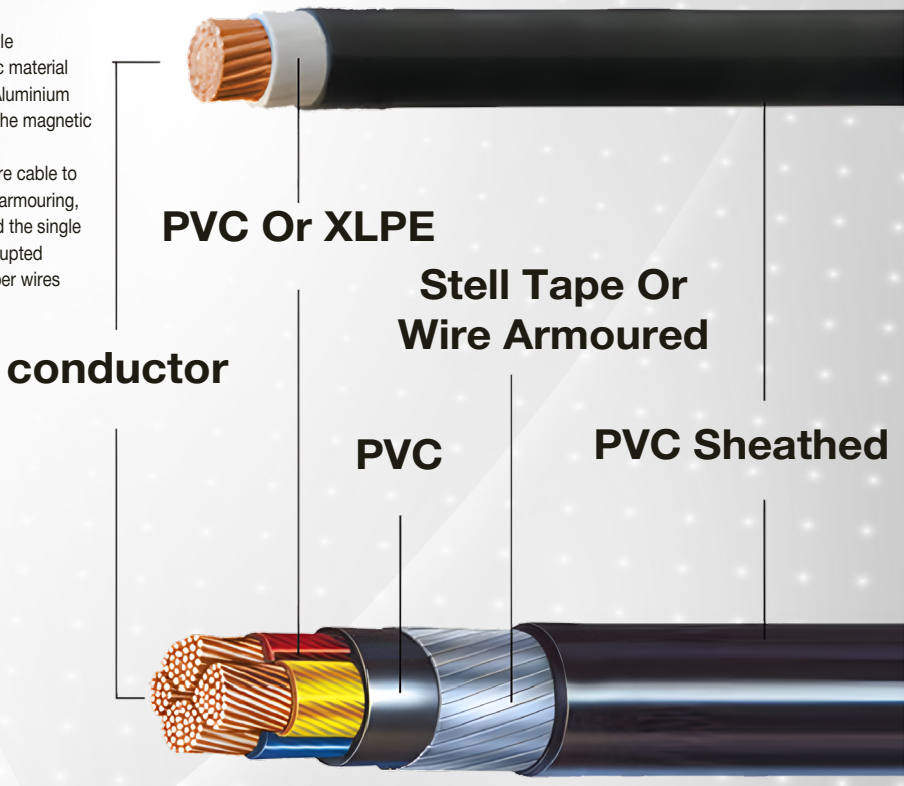
Operating Voltage
(up to 3/1.8 kV)

Cable Construction

1. Conductor
   Copper or Aluminium conductors, solid, stranded or fexaible with round or sectoral shaped conductors.
2. Insulation
   An extruded layer of PVC or XLPE is applied over the conductor.
   PVC insulated cables are suitable for maximum conductor operating temperature of 70◦C or 85◦C and 90◦C for XLPE.
3. Assembly
   In case of multicore cables cores are assembled together using non hygroscopic filler(if needed)to fill space between cores, wrapped with suitable binder tape to form a round cable.
4. Bedding
   In case of armoured cables an extruded layer of PVC or other material is applied as bedding.
5. Armouring
   a. Steel Tape: Double layers of steel tapes are applied helically with gap.
   b. Steel Wire: Galvanized steel wires are applied helically.
6. Sheath
   An extruded layer of PVC is applied as an outer sheath, or according to the client special requirements.

Option
Lead Sheath: Upon request a layer of lead is extruded over the bedding layer.

Armouring of Single Core Cable
1. Armouring by non-magnetic material either Aluminium Tape or Aluminium Wire armouring to reduce the magnetic losses.
2. If it is required for single core cable to be armoured by steel wire armouring, the magnetic circuit around the single core cable should be interrupted by inserting insulated copper wires between the steel wires.



Single Core Unarmoured

كابلات نحاس عزل مزدوج بدون تسليح

Cu / Pvc / PVC

Low Voltage Cables

0.6/1 (1.2) KV Single Core Unarmoured

Single Core Cables with Stranded Circular Copper Conductors, PVC Insulated and PVC Sheathed

Description

Soft annealed stranded Copper conductor. Insulated with PVC Compound rated 70 C and sheathed with PVC Compound layer.
Cables are produced according IEC 60502.

Application

For outdoor and indoor installations in damp and wet locations. They are normaly used for power distribution in urban networks, industrial plants, as in thermopower and hydropower stations.

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air						Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground			Laid in Free air (Shaded)				
			Flat ⊙⊙⊙	Trefoil ⊙⊙	Duct ⊛	Flat Seperated ⊙ ⊙ ⊙	Free Touched ⊙⊙⊙	In Pipes Touched ⊛		
mm²	Ω / km	Ω / km	A	A	A	A	A	A	mm	Kg / Km
4	4.61	5.51	53	53	38	50	37	35	7.1	87
6	3.08	3.68	65	66	47	65	48	46	7.6	113
10	1.83	2.17	88	89	62	89	9	62	8.3	154
16	1.15	1.37	113	113	77	108	85	79	9.3	216
25	0.727	0.8701	143	144	101	143	112	109	10.6	320
35	0.524	0.6273	171	173	123	176	138	134	11.7	410
50	0.387	0.4635	203	205	148	214	170	165	13.4	545
70	0.268	0.3214	248	252	183	271	215	209	15	745
95	0.193	0.232	296	301	224	332	267	259	17.1	1020
120	0.153	0.1845	337	342	255	386	310	301	18.5	1260
150	0.124	0.1501	378	383	292	442	357	347	20.5	1550
185	0.0991	0.1207	426	433	333	510	415	402	22.8	1925
240	0.0754	0.0931	494	501	393	608	496	481	25.8	2500
300	0.0601	0.0755	556	565	450	704	575	558	28.8	3110
400	0.047	0.0608	629	639	516	819	669	648	32	3975
500	0.0366	0.0495	709	721	594	957	777	753	36	5080
630	0.0283	0.041	792	807	672	1113	893	864	39.7	6385
800	0.0221	0.035	874	891	753	1284	1014	982	44.2	8260
1000	0.0176	0.0308	956	975	845	1478	1154	1116	1.7 5	10345

Single Core ATA Cables

كابلات نحاس عزل مزدوج مسلح

Cu / Pvc / ATA / PVC

Low Voltage Cables

0.6/1 (1.2) KV Single Core ATA cables

Single Core Cables, with Stranded

Copper Conductors, PVC insulation,

Aluminum Tape Armoured, And PVC Sheathed

Description

Soft annealed copper conductor, insulated with PVC compound rated 70 °C.
Aluminum Tape Armoured and sheathec with PVC compound layer.
Cables are produced according IEC 60502.

Application

For outdoor and indoor installation in damp and wet locations where mechanical damages are expected to occur.

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air						Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground			Laid in Free air (Shaded)				
			Flat ⊙⊙⊙	Trefoil	Duct	Flat Seperated ⊙ ⊙ ⊙	Free Touched ⊙⊙⊙	In Pipes Touched		
mm²	Ω / km	Ω / km	A	A	A	A	A	A	mm	Kg / Km
25	0.727	0.87	144	146	108	151	124	120	14.8	465
35	0.524	0.6272	173	175	131	185	151	147	15.9	565
50	0.387	0.4634	204	207	156	223	183	179	17.6	715
70	0.268	0.3212	249	253	192	280	230	224	19.2	935
95	0.193	0.2317	297	302	232	340	281	274	21.1	1220
120	0.153	0.1841	337	343	265	392	325	317	22.5	1470
150	0.124	0.1497	377	384	300	445	371	362	24.3	1770
185	0.0991	0.1203	425	433	343	509	427	416	26.4	2155
240	0.0754	0.0926	489	500	400	599	506	494	29.4	2765
300	0.0601	0.075	548	562	456	684	581	569	32.2	3385
400	0.047	0.0601	615	633	523	779	669	656	36	4330
500	0.0366	0.0488	687	711	594	889	769	756	40	5475
630	0.0283	0.0402	761	791	671	1007	872	862	43.5	6800
800	0.0221	0.034	829	867	746	1121	978	970	48.4	8770
1000	0.0176	0.0298	889	939	826	1236	1090	1088	55.9	10935

Single Core AWA Cables

كابلات نحاس عزل مزدوج مسلح

Cu / Pvc / AWA / PVC

Low Voltage Cables

0.6/1 (1.2) KV Single Core AWA Cables

Single Core Cables, with Stranded

Copper Conductors, PVC insulation,

Aluminum Wire Armoured, And PVC Sheathed

Description

Soft annealed copper conductor, insulated with PVC compound rated 70°C, Aluminum Wire Armoured and sheathed with PVC compound layer.
Cables are according to IEC 60502 or BS 6346.

Application

For outdoor and indoor installation in damp and wet locations where mechanical damages are expected to occur.

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air						Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground			Laid in Free air (Shaded)				
			Flat ⊙⊙⊙	Trefoil ⊙⊙	Duct ⊛	Flat Seperated ⊙ ⊙ ⊙	Free Touched ⊙⊙⊙	In Pipes Touched ⊙⊙		
mm²	Ω / km	Ω / km		A	A				mm	Kg / Km
25	0.727	0.87	145	148	112	156	130	126	17.1	555
35	0.524	0.6272	174	177	134	190	158	154	18.2	670
50	0.387	0.4634	205	208	159	228	190	185	19.9	825
70	0.268	0.3212	250	254	196	283	237	231	21.5	1055
95	0.193	0.2317	296	302	236	340	287	281	23.4	1350
120	0.153	0.1841	334	342	267	389	330	323	24.8	1620
150	0.124	0.1497	372	382	303	437	374	367	26.6	1930
185	0.0991	0.1203	415	428	342	493	427	420	28.7	2325
240	0.0754	0.0926	473	491	397	568	499	493	31.7	2955
300	0.0601	0.075	519	544	446	630	563	561	34.8	3630
400	0.047	0.0601	572	605	502	699	636	639	38.4	4585
500	0.0366	0.0488	626	669	565	776	716	726	42.4	5740
630	0.0283	0.0402	677	732	623	850	794	812	6.1 4	7110
800	0.0221	0.034	695	764	662	897	846	877	52	9290
1000	0.0176	0.0298	727	807	715	973	919	959	59.5	11530

Multi Core Copper Unarmoured Cables كابلات نحاس متعدد الأقطاب بدون تسليح

Cu / Pvc / Pvc

Low Voltage Cables

0.6/1 (1.2) KV Multi Core Unarmoured Cables

Multicore Cables . with stranded Copper Conductors PVC Insulated and PVC Sheathed

Description

Multicore cables of stranded Copper conductors are insulated with PVC compound rated 70°C, assembled together, covered with overall jacket of PVC compound. Cables are produced according to IEC 60502.

Application

Out door and indoor installations in damp and wet locations.t

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air			Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground				
			Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm ²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
2 core cables							
1.5 RM	12.1	14.6	34	25	21	9.5	127
2.5 RM	7.41	8.87	43	33	29	10.4	163
4 RM	4.61	5.54	57	42	41	12.2	233
6 RM	3.08	3.69	72	53	52	13.4	300
10 RM	1.83	2.19	93	73	69	14.6	390
16 RM	1.15	1.39	122	86	92	16.6	550
25 RM	0.727	0.8701	156	114	121	20.1	730
35 RM	0.524	0.6273	189	137	149	22.3	940
50 SM	0.387	0.4634	236	165	186	22.5	1140
70.5M	0.268	0.3212	287	204	230	24.3	1565
95 SM	0.193	0.2317	346	249	287	28.6	2145
120 SM	0.153	0.1841	396	287	336	31.7	2630
150 SM	0.124	0.1496	443	325	383	34.5	3245
185 SM	0.0991	0.1201	503	373	446	39.2	4040
240 SM	0.0754	0.0923	582	439	528	43.8	5245
300 SM	0.0601	0.0745	653	497	601	47	6475
400 SM	0.047	0.0595	741	570	699	52.9	8310
3 core cables							
1.5 RM	12.1	14.6	27	21	20	10	150
2.5 RM	7.41	8.87	35	27	24	11	195
4 RM	4.61	5.54	46	36	34	12.8	282
6 RM	3.08	3.69	59	43	43	14.2	370
10 RM	1.83	2.19	78	57	59	15.5	490
16 RM	1.15	1.39	98	71	80	17.6	700
25 RM	0.727	0.8702	130	94	102	21.4	975
35 RM	0.524	0.6274	156	114	125	23.8	1270
50 SM	0.387	0.4635	189	136	151	24.2	1620
70 SM	0.268	0.3214	232	169	191	27.5	2280
95 SM	0.193	0.2319	278	205	235	31.6	3120
120 SM	0.153	0.1844	315	234	270	33.6	3820
150 SM	0.124	0.15	354	266	310	37.5	4685
185 SM	0.0991	0.1206	399	303	357	41.7	5870
240 SM	0.0754	0.0928	462	357	423	47.2	7680
300 SM	0.0601	0.0752	521	406	486	52.5	9600
400 SM	0.047	0.0603	593	468	567	59.7	12310
500 SM	0.0366	0.0489	668	534	650	66.4	15690

GOLDEN CABLES

Multi Core Copper Unarmoured Cables كابلات نحاس متعدد الأقطاب بدون تسليح

Cu / Pvc / Pvc

Low Voltage Cables

0.6/1 (1.2) KV Multi Core Unarmoured Cables

Multicore Cables. with stranded Copper Conductors PVC Insulated and PVC Sheathed

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air			Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground				
			Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm ²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
4 core cables							
RM 1.5	12.1	14.6	28	22	21	10.8	180
RM 2.5	7.41	8.87	36	28	25	11.9	235
RM 4	4.61	5.54	46	36	36	14	343
RM 6	3.08	3.69	60	44	45	15.6	454
RM 10	1.83	2.19	79	58	61	17	610
RM 16	1.15	1.39	99	73	83	19.6	880
RM 25	0.727	0.8702	131	96	105	23.5	1270
RM 35	0.524	0.6274	158	116	129	26.2	1660
SM 50	0.387	0.4635	195	141	161	28.3	2140
SM 70	0.268	0.3214	239	175	203	32.1	3025
SM 95	0.193	0.2319	285	211	247	35.8	4125
SM 120	0.153	0.1844	324	243	287	39.4	5095
SM 150	0.124	0.15	364	277	329	43.9	6245
SM 185	0.0991	0.1206	411	316	379	48.9	7840
SM 240	0.0754	0.0928	476	372	450	55.2	10195
SM 300	0.0601	0.0752	537	425	516	61.3	12720
SM 400	0.047	0.0603	610	490	601	69.9	16365
SM 500	0.0366	0.0489	689	561	690	77.4	20815
4 core cables							
16RM/RM 25	1.15/0.727	1.3762/0.8702	130	95	103	22.6	1170
16RM/RM 35	1.15/0.524	1.3762/0.6274	157	115	126	24.6	1470
RM 25/50SM	0.727/0.387	0.8702/0.4635	195	141	161	28.3	1920
RM 35/70SM	0.524/0.268	0.6274/0.3214	239	175	203	31.9	2680
50SM/95SM	0.387/0.193	0.4635/0.2319	282	209	243	34.3	3640
70SM/120SM	0.268/0.153	0.6214/0.1844	322	241	282	37.7	4575
70SM/150SM	0.268/0.124	0.6214/0.15	361	273	323	41.5	5440
95SM/185SM	0.193/0.0991	0.2319/0.1206	407	311	372	46.4	6910
120SM/240SM	0.153/0.0754	0.1844/0.0928	472	366	441	52.4	8905
SM 150/300SM	0.124/0.0601	0.15/0.0752	532	419	507	58.2	11105
185SM/400SM	0.0991/0.047	0.1206/0.0603	605	482	590	65.9	14245
240SM/500SM	0.0754/0.0366	0.0928/0.0489	682	550	676	73.3	18190

Multipole copper armored cables كابلات نحاس متعدد الأقطاب مسلح

Cu / PVC /PVC / STA / PVC

0.6/1 (1.2) KV Multi Core STA cables

Multicore Cables . with stranded Copper Conductors PVC Insulated , steel tape Armoured and PVC Sheathed

Description

Multicore cables of stranded Copper conductors are insulated with PVC compound rated 70°C, assembled together, armoured with steel tape and covered with overall jacket of PVC compound

Cables are produced according to IEC 60502.

Application

For outdoor installations in damp and wet locations, where mechanical damages are expected to occur.

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air			Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground				
			Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm ²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
2 core cables							
6 RM	3.08	3.69	71	53	53	16.4	470
10 RM	1.83	2.19	93	73	70	17.4	570
16 RM	1.15	1.39	121	86	93	19.4	750
25 RM	0.727	0.8701	155	114	123	22.3	930
35 RM	0.524	0.6273	187	138	151	24.5	1165
50 SM	0.387	0.4634	232	167	187	24.7	1350
70 SM	0.268	0.3212	283	203	231	26.5	1785
95 SM	0.193	0.2317	339	250	287	31.4	2455
120 SM	0.153	0.1841	391	290	339	35.7	3295
150 SM	0.124	0.1496	438	328	385	38.3	3910
185 SM	0.0991	0.1201	496	375	447	43.2	4845
240 SM	0.0754	0.0923	573	440	527	47.8	6130
300 SM	0.0601	0.0745	640	496	597	51.2	7450
400 SM	0.047	0.0595	726	570	691	57.1	9400
3 core cable							
4 RM	4.61	5.54	45	36	35	15.8	440
6 RM	3.08	3.69	58	43	44	17	545
10 RM	1.83	2.19	77	57	59	18.4	680
16 RM	1.15	1.39	96	72	81	20.5	910
25 RM	0.727	0.8702	128	95	103	23.6	1210
35 RM	0.524	0.6274	154	114	126	26	1535
50 SM	0.387	0.4635	198	140	161	26.6	1860
70 SM	0.268	0.3214	242	176	203	30.1	2560
95 SM	0.193	0.2319	293	215	255	35.6	3780
120 SM	0.153	0.1844	333	245	293	37.4	4500
150 SM	0.124	0.15	373	278	336	41.7	5490
185 SM	0.0991	0,1206	421	317	387	45.9	6750
240 SM	0.0754	0.0928	488	373	460	51.4	8660
300 SM	0.0601	0.0752	551	424	531	56.5	10665
400 SM	0.047	0.0603	627	492	621	63.9	13545
500 SM	0.0366	0.0489	706	560	714	70.6	17060

GOLDEN CABLES

Multipole copper armored cables — كابلات نحاس متعدد الأقطاب مسلح

Cu / PVC /PVC / STA / PVC

Low Voltage Cables

0.6/1 (1.2) KV Multi Core STA cables

Multicore Cables . with stranded Copper Conductors
PVC Insulated , steel tape Armoured and PVC Sheathed

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air			Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground				
			Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm ²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
4 core cables							
4 RM	4.61	5.54	47	37	37	17	520
6 RM	3.08	3.69	60	45	46	18.4	650
10 RM	1.83	2.19	80	59	63	19.8	820
16 RM	1.15	1.39	100	74	85	22.2	1120
25 RM	0.727	0.8702	130	96	105	25.7	1505
35 RM	0.524	0.6274	156	117	130	28.4	1925
50 SM	0.387	0.4635	204	148	172	31.1	2455
70 SM	0.268	0.3214	252	184	220	35.9	3680
95 SM	0.193	0.2319	301	222	269	39.6	4855
120 SM	0.153	0.1844	343	257	312	43.4	5920
150 SM	0.124	0.15	386	291	359	48.1	7185
185 SM	0.0991	0.1206	436	333	415	53.1	8875
240 SM	0.0754	0.0928	506	391	494	59.4	11345
300 SM	0.0601	0.0752	571	447	570	65.5	14000
400 SM	0.047	0.0603	650	517	667	74.3	17860
500 SM	0.0366	0.0489	736	592	774	83	23230
4 core cables with reduced neutral							
25RM/16RM	1.15/0.727	1.3762/0.8702	129	96	104	24.8	1395
35 RM/16RM	1.15/0.524	1.3762/0.6274	155	116	127	26.8	1715
50SM/25 RM	0.727/0.387	0.8702/0.4635	193	143	162	30.5	2225
70SM/35 RM	0.524/0.268	0.6274/0.3214	236	176	203	34.5	3050
95SM/50SM	0.387/0.193	0.4635/0.2319	298	220	264	38.1	4340
120 SM/70SM	0.268/0.153	0.3214/0.1844	340	253	307	41.7	5365
150SM/70SM	0.268/0.124	0.3214/0.15	381	286	351	45.7	6330
185SM/95SM	0.193/0.0991	0.2319/0.1206	432	329	407	50.4	7860
240SM/120SM	0.153/0.0754	0.1844/0.0928	501	385	484	56,4	9975
300SM/150SM	0.124/0.0601	0.15/0.0752	565	440	558	62.2	12285
400SM/185 SM	0.0091/0.047	0.1206/0.0603	642	509	651	70.3	15650
500SM/240SM	0.0754/0.0366	0.0928/0.0489	726	582	754	78.9	20475

Multipole copper armored cables كابلات نحاس متعدد الأقطاب مسلح

Cu / PVC / PVC / SWA / PVC

0.6/1 (1.2) KV Multi Core SWA Cables

Multicore Cables . with stranded Copper Conductors PVC Insulated , steel wire Armoured and PVC Sheathed

Description

Multicore cables of stranded Copper conductors are insulated with PVC compound rated 70°C, assembled together, armoured with steel wires and covered with overall jacket of PVC compound.
Cables are produced according to IEC 60502 or BS 6346.

Application

For outdoor installations in damp wet locations where mechanical damages are expected to occur.

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air			Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground				
			Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm ²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
2 core cables							
4 RM	4.61	4.61	57	44	42	15.8	480
6 RM	3.08	3.08	72	54	54	17.7	660
10 RM	1.83	1.83	93	75	72	18.9	784
16 RM	1.15	1.15	122	88	96	20.9	985
25 RM	0.727	0.727	156	117	127	25.6	1430
35 RM	0.524	0.524	188	141	155	27.8	1720
50 SM	0.387	0.387	234	171	193	28.2	1920
70 SM	0.268	0.268	287	211	241	30.4	2560
95 SM	0.193	0.193	343	255	296	35.3	3360
120 SM	0.153	0.153	392	293	345	38.2	3950
150 SM	0.124	0.124	439	332	394	42	5030
185 SM	0.0991	0.0991	494	380	453	47.1	6115
240 SM	0.0754	0.0754	569	440	531	51.5	7515
300 SM	0.0601	0.0601	633	494	598	54.9	8910
400 SM	0.047	0.047	711	562	686	60.8	11020
3 core cables							
4 RM	4.61	4.61	45	36	36	17.2	630
6 RM	3.08	3.08	58	43	45	18.6	750
10 RM	1.83	1.83	78	57	61	19.8	905
16 RM	1.15	1.15	97	71	83	22	1170
25 RM	0.727	0.727	129	97	106	26.9	1755
35 RM	0.524	0.524	156	117	130	29.3	2135
50 SM	0.387	0.387	199	145	167	30.1	0/24
70 SM	0.268	0.268	246	180	212	34	3420
95 SM	0.193	0.193	295	218	260	38.1	4435
120 SM	0.153	0.153	335	247	299	39.9	5205
150 SM	0.124	0.124	375	282	344	45.4	6680
185 SM	0.0991	0.0991	421	320	394	49.6	8085
240 SM	0.0754	0.0754	486	375	465	55.1	10115
300 SM	0.0601	0.0601	544	425	532	60.4	12315
400 SM	0.047	0.047	611	482	615	68.9	16155
500 SM	0.0366	0.0366	677	540	696	75.8	19925

GOLDEN CABLES

Multipole copper armored cables — كابلات نحاس متعدد الأقطاب مسلح

Cu / PVC / SWA / PVC

Low Voltage Cables

0.6/1 (1.2) KV Multi Core SWA Cables

Multicore Cables . with stranded Copper Conductors PVC Insulated , steel wire Armoured and PVC Sheathed

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air			Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground				
			Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
4 core cables							
4 RM	4.61	5.54	49	36	36	18.4	725
6 RM	3.08	3.69	62	43	43	19.9	870
10 RM	1.83	2.19	84	57	57	21.3	1060
16 RM	1.15	1.39	105	73	73	24.4	1520
25 RM	0.727	0.8702	131	99	99	29	2085
35 RM	0.524	0.6274	157	119	119	31.9	2590
50 SM	0.387	0.4635	207	151	151	35	3360
70 SM	0.268	0.3214	254	187	187	38.6	4375
95 SM	0.193	0.2319	303	226	226	43.3	5990
120 SM	0.153	0.1844	344	260	260	47.1	7165
150 SM	0.124	0.15	386	294	294	51.8	8565
185 SM	0.0991	0.1206	434	336	336	56.8	10380
240 SM	0.0754	0.0928	500	389	389	63.1	13050
300 SM	0.0601	0.0752	560	441	441	69	15860
400 SM	0.047	0.0603	625	500	500	79.3	20890
500 SM	0.0366	0.0489	692	561	561	86.8	25770
4 core cables with reduced neutral							
25 RM/16 RM	1.15/0.727	1.3762/0.8702	130	98	98	28.1	1965
35 RM/16RM	1.15/0.524	1.3762/0.6274	156	118	118	30.3	2340
50SM/25 RM	0.727/0.387	0.8702/0.4635	195	146	146	34.4	3105
70SM/35 RM	0.524/0.268	0.6274/0.3214	238	180	180	38.4	4065
95SM/50SM	0.387/0.193	0.4635/0.2319	300	223	223	40.6	5030
120SM/70SM	0.268/0.153	0.3214/0.1844	341	256	256	45.6	6575
150 SM/70SM	0.268/0.124	0.3214/0.15	382	289	289	49.4	7660
185SM/95SM	0.193/0.0991	0.2319/0.1206	431	331	331	54.1	9325
240SM/120SM	0.153/0.0754	0.1844/0.0928	497	386	386	60.1	11590
300SM/150SM	0.124/0.0601	0.15/0.0752	556	435	435	65.9	14060
400SM/185 SM	0.0091/0.047	0.1206/0.0603	621	494	494	75.3	18480
500SM/240SM	0.0754/0.0366	0.0928/0.0489	688	553	553	82.7	22855


GOLDEN
CABLES

Single Core Unarmoured

كابلات نحاس عزل مزدوج بدون تسليح

Cu / Xlpe / PVC

Low Voltage Cables

0.6/1 (1.2) KV Single Core Unarmoured Cables

Single Core Cables, with Stranded Circular Copper Conductors, XLPE Insulated and PVC Sheathed

Description

Soft annealed Stranded Copper conductor, Insulated with XLPE compound coverd with a layer of PVC compound to form the overall jaket.
Cables are according to IEC 60502 or BS 7889.

Application

For outdoor and indoor installations in damp and wet locations. They are normally used for power distribution in urban networks, in industrial plants, as well as in Thermopower and Hydropower stations.

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air						Appro x. Overall Diameter	Approx Weight
			Laid in Free Ground			Laid in Free air (Shaded)				
	DC at 20 deg°C	DC at 70 deg°C	Flat ⊙⊙⊙	Trefoil	Duct	Flat Seperated ⊙⊙⊙	Free Touched ⊙⊙⊙	In Pipes Touched		
mm²	Ω / km	Ω / km	A	A	A	A	A	A	mm	Kg / Km
4	4.61	5.54	60	60	42	65	47	44	6.5	75
6	3.08	3.69	76	77	56	80	59	59	7	98
10	1.83	2.19	103	105	72	103	79	75	7.7	135
16	1.15	1.39	129	131	92	142	110	105	8.7	195
25	0.727	0.9272	166	168	118	179	138	134	10	285
35	0.524	0.6685	199	201	143	220	171	166	111	380
50	0.387	0.4939	236	239	172	269	210	204	12.6	500
70	0.268	0.3425	288	292	214	340	268	260	14.4	700
95	0.193	0.2472	344	349	259	418	331	321	16.1	950
120	0.153	0.1965	391	397	298	486	386	375	17.7	1190
150	0.124	0.1598	439	445	339	557	446	433	19.7	1465
185	0.0991	0.1285	496	503	390	646	519	503	21.8	1815
240	0.0754	0.099	574	583	457	771	622	602	24.6	2365
300	0.0601	0.0803	647	658	524	895	722	699	27.4	2945
400	0.047	0.0645	732	744	603	1044	842	815	30.6	3780
500	0.0366	0.0525	826	840	695	1222	981	950	34.6	4845
630	0.0283	0.0431	925	942	794	1420	1132	1096	38.9	6165
800	0.0221	0.0366	1022	1042	894	1639	1291	1249	43.8	8045
1000	0.0176	0.0321	1119	1142	999	1894	1473	1423	51.1	10050

Single Core ATA Cables

كابلات نحاس أحادي الأقطاب عزل مزدوج مسلح

Cu / Xlpe / ATA / PVC

Low Voltage Cables

0.6/1(1.2) KV Single Core ATA cables

Single Core Cables, with Stranded
Copper Conductors, XLPE insulation,
Aluminum Tape Armoured, And PVC Sheathed

Description

Soft annealed copper conductor, insulated with XLPE compound rated 90 °C, Aluminum Tape Armoured and sheathed with PVC compound layer.
Cables are produced according IEC 60502.

Application

For outdoor and indoor installation in damp and wet locations where mechanical damages are expected to occur.

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air						Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground			Laid in Free air (Shaded)				
			Flat	Trefoil	Duct	Flat Seperated	Free Touched	In Pipes Touched		
mm²	Ω / km	Ω / km	A	A	A	A	A	A	mm	Kg / Km
25	0.727	0.9272	168	170	126	190	154	150	14.2	430
35	0.524	0.6684	201	204	151	233	188	183	15.3	525
50	0.387	0.4938	237	241	181	281	229	222	16.8	660
70	0.268	0.3423	290	294	223	352	287	279	18.6	880
95	0.193	0.2469	346	351	269	429	351	341	20.1	1140
120	0.153	0.1962	392	399	309	495	406	395	21.7	1395
150	0.124	0.1595	439	447	352	563	465	452	23.5	1680
185	0.0991	0.1281	494	504	400	646	536	522	25.6	2055
240	0.0754	0.0985	570	583	470	762	636	620	28.2	2615
300	0.0601	0.0797	640	656	533	872	732	715	31	3220
400	0.047	0.0638	719	739	613	997	846	828	34.6	4120
500	0.0366	0.0516	805	831	698	1141	975	957	38.6	5230
630	0.0283	0.0423	892	926	792	1291	1110	1094	42.7	6575
800	0.0221	0.0356	975	1018	884	1439	1248	1236	48	8545
1000	0.0176	0.031	1049	1105	981	1592	1390	1390	22.5	10660

Single Core AWA Cables

كابلات نحاس أحادي الأقطاب عزل مزدوج مسلح

CU / XIpe / AWA / PVC

Low Voltage Cables

0.6//1(1.2) KV Single Core AWA Cables

Single Core Cables, with Stranded
Copper Conductors, XLPE insulation,
Aluminum Wire Armoured, And PVC Sheathed

Description

Soft annealed copper conductor, insulated with XLPE compound rated 90 °C
Aluminum Wire Armoured and sheathed with PVC compound layer.
Cables are according to IEC 60502 or BS 5467

Application

For outdoor and indoor installation in damp and wet locations where mechanical damages are expected to occur.

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air						Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground			Laid in Free air (Shaded)				
			Flat ⊙⊙⊙	Trefoil	Duct	Flat Seperated ⊙ ⊙ ⊙	Free Touched ⊙⊙⊙	In Pipes Touched		
mm²	Ω / km	Ω / km	A	A	A	A	A	A	mm	Kg / Km
25	0.727	0.9271	170	172	190	198	162	152	16.5	515
35	0.524	0.6684	203	206	233	240	197	192	17.6	625
50	0.387	0.4938	239	243	281	288	238	232	19.1	770
70	0.268	0.3422	291	296	352	358	297	289	20.9	1000
95	0.193	0.2468	345	352	429	431	360	351	22.4	1275
120	0.153	0.196	389	399	495	493	414	405	24	1530
150	0.124	0.1593	434	445	563	555	471	461	25.8	1830
185	0.0991	0.1279	485	500	646	628	538	529	27.9	2220
240	0.0754	0.0983	553	573	762	726	630	622	30.7	2810
300	0.0601	0.0794	614	640	872	814	717	711	33.5	3435
400	0.047	0.0635	673	710	997	898	809	810	37.2	4375
500	0.0366	0.0512	738	787	1141	997	913	923	41.2	5510
630	0.0283	0.0418	801	864	1291	1097	1019	1038	45.1	6860
800	0.0221	0.0349	825	905	1439	1152	1088	1126	51.6	9055
1000	0.0176	0.0304	864	958	1592	1248	1184	1235	5.9.1	11245

Multi Core Unarmoured Cables كابلات نحاس متعدد الأقطاب عزل مزدوج بدون تسليح

Cu / Xlpe / PVC

Low Voltage Cables

0.6/1 (1.2) KV Multi Core Unarmoured Cables

Multicore Cables . with stranded Copper Conductors , XLPE Insulated and PVC Sheathed

Description

Multicore cables of stranded Copper conductors are insulated with XI PE compound, assembled together and covered with an overall jacket of PVC compound.

Cables are produced according to IEC 60502.

Application

For outdoor and indoor Installations in damp and wet locations. They are normally used for power distribution in urban networks, in industrial plants, as well as in Thermopower and Hydropower Stations.

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air			Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground				
			Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm ²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
2 core cables							
1.5 RM	12.1	14.6	41	31	28	9.1	115
2.5 RM	7.41	8.87	50	39	38	TO	148
4 RM	4.61	5.54	68	49	52	11	194
6 RM	3.08	3.69	86	64	67	12.2	255
10 RM	1,83	2.19	112	85	89	13.4	345
16 RM	1.15	1.39	144	102	118	15.4	500
25 RM	0.727	0.9272	188	133	154	18.9	675
35 RM	0.524	0.6685	227	162	189	21.1	880
50 SM	0.387	0.4938	276	193	230	20.9	1045
70 SM	0.268	0.3423	337	236	286	22.9	1460
95 SM	0.193	0.2469	405	288	357	26.6	2000
120 SM	0.153	0.1961	463	336	419	30.1	2485
150 SM	0.124	0.1593	519	378	478	32.9	3070
185 SM	0.0991	0.1279	590	438	560	37.5	3815
240 SM	0.0754	0.0982	682	513	663	41.6	4955
300 SM	0.0601	0.0792	767	582	757	45	6150
400 SM	0,047	0.0632	872	673	884	50.7	7895
3 core cables							
1.5 RM	12.1	14.6	31	25	23	9.5	130
2.5 RM	7.41	8.87	42	33	34	10.6	175
4 RM	4.61	5.54	54	39	44	11.6	233
6 RM	3.08	3.69	68	49	53	12.9	310
10 RM	1.83	2.19	89	65	72	14.2	430
16 RM	1.15	1.39	116	82	95	16.4	625
25 RM	0.727	0.9273	153	110	126	20.1	895
35 RM	0.524	0.6686	184	132	156	22.5	1180
50 SM	0.387	0.494	220	157	186	22.6	1490
70 SM	0.268	0.3425	270	195	236	26.1	2135
95 SM	0.193	0.2471	324	236	290	29.4	2895
120 SM	0.153	0.1964	368	272	337	32.8	3605
150 SM	0.124	0.1597	410	307	383	35.9	4435
185 SM	0.0991	0.1284	464	351	441	39.9	5555
240 SM	0.0754	0.0988	537	414	524	45	7250
300 SM	0.0601	0.0799	605	471	602	49.9	9050
400 SM	0.047	0.0641	688	547	701	57.3	11675
500 SM	0.0366	0.0518	776	625	806	63.8	14945

GOLDEN CABLES

Multi Core Unarmoured Cables كابلات نحاس متعدد الأقطاب عزل مزدوج بدون تسليح

Cu / Xlpe / PVC

Low Voltage Cables

0.6/1 (1.2) KV Multi Core Unarmoured Cables

Multicore Cables . with stranded Copper Conductors , XLPE Insulated and PVC Sheathed

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air			Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground				
			Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm ²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
4 core cables							
1.5 RM	12.1	14.6	32	26	24	10.3	155
2.5 RM	7.41	8.87	43	33	35	11.4	210
4 RM	4.61	5.54	55	40	45	12.6	280
6 RM	3.08	3.69	70	50	55	14	385
10 RM	1.83	2.19	92	67	75	15.5	535
16 RM	1.15	1.39	118	84	98	17.9	790
25 RM	0.727	0.9273	155	112	131	22.1	1170
35 RM	0.524	0.6686	186	136	161	24.8	1545
50 SM	0.387	0.494	225	162	197	26.3	1970
70 SM	0.268	0.3425	276	204	249	30.4	2825
95 SM	0.193	0.2471	330	243	303	33.1	3825
120 SM	0,153	0.1964	374	282	352	37.2	4785
150 SM	0.124	0.1597	421	321	405	41.7	5875
185 SM	0.0991	0.1284	475	369	467	46.7	7395
240 SM	0.0754	0.0988	551	431	554	52.5	9620
300 SM	0.0601	0.0799	621	493	636	58.1	11995
400 SM	0.047	0.0641	706	571	741	66.7	15480
500 SM	0.0366	0.0518	797	653	851	74.2	19815
4 core cables with reduced neutral							
25 RM/16RM	1.15/0.727	1.4666/0.9273	154	111	129	21.2	1075
35 RM/16 RM	1.15/0.524	1.4666/0.6686	185	133	157	23.2	1365
505M/25 RM	0.727/0.387	0.9273/0.494	226	163	198	26.1	1755
70SM/35 RM	0.524/0.268	0.6686/0.3425	277	204	250	30.2	2495
95SM/50 SM	0.387/0.193	0.494/0.2471	329	243	301	32.6	3380
120 SM/70SM	0.268/0.153	0.3425/0.1964	372	278	347	35.5	4290
150SM/70SM	0.268/0.124	0.3425/0.1597	418	315	397	39.3	5115
185 SM/95SM	0.193/0.0991	0.2471/0.1284	472	363	458	44.2	6505
240SM/120SM	0.153/0.0754	0.1964/0.0988	546	424	543	49.7	8415
300SM/150SM	0.124/0.0601	0.1597/0.0799	615	485	624	55	10480
400SM/185SM	0.0991/0.047	0.1284/0.0641	700	560	727	62.7	13460
500SM/240 SM	0.0754/0.0366	0.0988/0.0518	789	643	834	70.11	17300

Multi Core STA Cables — كابلات نحاس مسلح عزل مزدوج متعدد الأقطاب

CU / XIpe / PVC/ STA / PVC

Low Voltage Cables

0.6/1 (1.2) KV Multi Core STA Cables

Multicore Cables . with stranded Copper Conductors XLPE Insulated , steel tape Armoured and PVC Sheathed

Description

Multicore cables of stranded Copper conductors are insulated with XLPE compound, assembled together, armoured with steel tape and covered with an overall jacket of PVC compound.
Cables are produced according to IEC 60502.

Application

For outdoor installations in damp wet locations where mechanical damages are expected to occur.

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air			Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground				
			Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
2 core cables							
6 RM	3.08	3.69	84	64	68	15	405
10 RM	1.83	2.19	110	85	90	16.2	510
16 RM	1.15	1.39	142	103	118	18.2.	680
25 RM	0.727	0.9272	185	135	155	21.1	865
35 RM	0.524	0.6685	224	162	191	23.3	1090
50 SM	0.387	0.4938	272	193	231	22.9	1235
70 SM	0.268	0.3423	330	237	286	25.1	1675
95 SM	0.193	0.2469	397	289	355	29	2265
120 SM	0.153	0.1961	457	339	422	33.7	3085
150 SM	0.124	0.1593	512	381	480	36.5	3695
185 SM	0.0991	0.1279	580	440	559	41.5	4595
240 SM	0.0754	0.0982	670	513	658	45.6	5805
300 SM	0.0601	0.0792	751	580	749	49	7070
400 SM	0.047	0.0632	853	669	871	54.7	8925
3 core cables with reduced neutral							
6 RM	3.08	3.69	67	49	53	15.8	475
10 RM	1.83	2.19	88	66	73	17.1	605
16 RM	1.15	1,39	114	82	95	19.3	830
25 RM	0.727	0.9273	151	110	128	22.3	1120
35 RM	0.524	0.6686	182	134	157	24.7	1435
50 SM	0.387	0.494	230	164	199	24.6	1700
70 SM	0.268	0.3425	281	203	251	28.5	2390
95 SM	0.193	0.2471	337	246	309	32	3205
120 SM	0.153	0.1964	387	285	366	36.6	4280
150 SM	0.124	0.1597	432	322	415	39.9	5195
185 SM	0.0991	0.1284	488	371	480	43.9	6385
240 SM	0.0754	0.0988	566	434	570	49.2	8195
300 SM	0.0601	0.0799	639	496	658	53.9	10075
400 SM	0.047	0.0641	728	573	772	61.1	12810
500 SM	0.0366	0.0518	820	654	889	67.8	16245

Multi Core STA Cables — كابلات نحاس مسلح عزل مزدوج متعدد الأقطاب

CU / XIpe / PVC/ STA / PVC

Low Voltage Cables

0.6/1 (1.2) KV Multi Core STA Cables

Multicore Cables . with stranded Copper Conductors XLPE Insulated , steel tape Armoured and PVC Sheathed

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air			Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground				
			Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm ²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
4core cables							
6 RM	3.08	3.69	67	50	55	17	555
10 RM	1.83	2.19	89	67	75	18.4	725
16 RM	1.15	1.39	116	84	98	20.8	1005
25 RM	0.727	0.9273	153	113	131	24.3	1390
35 RM	0.524	0.6686	184	137	162	27	1795
50 SM	0.387	0.494	237	170	211	28.3	2210
70 SM	0.268	0.3425	290	211	267	32.8	3125
95 SM	0.193	0.2471	347	258	329	36.9	4510
120 SM	0.153	0.1964	395	296	384	41.2	5575
150 SM	0.124	0.1597	445	337	443	45.7	6755
185 SM	0.0991	0.1284	504	388	513	50.7	8365
240 SM	0.0754	0.0988	584	453	610	56.5	10700
300 SM	0.0601	0.0799	659	518	704	62.1	13190
400 SM	0.047	0.0641	750	601	825	70.9	16885
500 SM	0.0366	0.0518	850	689	958	79.8	22155
4 core cables with reduced neutral							
25 RM/16 R	1.15/0.727	1.4666/0.9273	152	112	130	23.4	1285
35RM/16 R	1.15/0.524	1.4666/0.6686	182	135	158	25.4	1595
50SM/25 R	0.727/0.387	0.9273/0.494	223	164	198	28.3	2035
70SM/35 R	0.524/0.268	0.6686/0.3425	272	203	249	33	2865
95SM/50 S	0.387/0.193	0.494/0.2471	347	255	328	36.2	4035
120SM/705	0.268/0.153	0.3425/0.1964	394	292	378	39.1	5000
150SM/70S	0.268/0.124	0.3425/0.1597	441	331	433	43.3	5945
185SM/95S	0.193/0.0991	0.2471/0.1284	499	381	502	48.2	7425
240 SM/1203	0.153/0.0754	0.1964/0.0988	578	449	597	53.7	9440
300 SM/1505	0.124/0.0601	0.1597/0.0799	653	510	689	58.8	11580
400 SM/1853	0.0991/ 0.047	0.1284/0.0641	743	592	806	66.7	14745
500 SM/2403	0.0754/0.0366	0.0988/0.0518	838	675	930	74.1	18735

GOLDEN CABLES

Multi Core SWA Cables — كابلات نحاس مسلح عزل مزدوج متعدد الأقطاب

Cu / XIpe / PVC / SWA / PVC

Low Voltage Cables

0.6/1 (1.2) KV Multi Core SWA Cables

Multicore Cables . with stranded Copper Conductors XLPE Insulated , steel wire Armoured and PVC Sheathed

Description

Multicore cables of stranded Copper conductors are insulated with XLPE compound, assembled together, armoured with steel wires and covered with an overall jacket of PVC compound.
Cables are produced according to IEC 60502 or BS 5467.

Application

For outdoor installations in damp wet locations where mechanical damages are expected to occur.

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air			Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground				
			Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm ²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
2 core cables							
4 RM	4.61	5.54	68	52	55	14.6	410
6 RM	3.08	3.69	86	67	71	15.8	500
10 RM	1,83	2.19	111	88	93	17.7	700
16 RM	1.15	1.39	143	106	123	19.8	900
25 RM	0.727	0.9272	187	139	161	24.4	1335
35 RM	0.524	0.6685	226	166	198	26.6	1620
50 SM	0.387	0.4938	274	198	240	26.2	1750
70 SM	0.268	0.3423	332	243	296	28.6	2255
95 SM	0.193	0.2469	402	297	369	32.9	3105
120 SM	0.153	0.1961	458	341	430	36.4	3735
150 SM	0.124	0,1593	512	385	488	39	4365
185 SM	0.0991	0.1279	580	444	569	45.2	5790
240 SM	0.0754	0.0982	667	515	666	49.3	7105
300 SM	0.0601	0.0792	746	580	756	52.5	8455
400 SM	0.047	0.0632	839	662	868	58.4	10495
3 core cables							
4 RM	4.61	5.54	54	41	46	15.3	465
6 RM	3.08	3.69	67	51	56	16.6	570
10 RM	1.83	2.19	88	68	76	18.5	810
16 RM	1.15	1.39	114	84	99	20.7	1065
25 RM	0.727	0.9273	152	113	132	25.6	1620
35 RM	0.524	0.6686	183	137	162	28	1990
50 SM	0.387	0.494	232	168	206	28.1	2265
70 SM	0.268	0.3425	286	209	262	32.4	3205
95 SM	0.193	0.2471	342	253	322	35.9	4135
120 SM	0.153	0.1964	390	290	375	39.1	4945
150 SM	0.124	0.1597	434	330	426	43.6	6330
185 SM	0.0991	0.1284	490	375	490	47.6	7625
240 SM	0.0754	0.0988	565	436	579	52.7	9580
300 SM	0.0601	0.0799	634	496	663	57.6	11615
400 SM	0.047	0.0641	715	567	769	64.8	14570
500 SM	0.0366	0.0518	791	635	872	73	19020

Multi Core SWA Cables — كابلات نحاس مسلح عزل مزدوج متعدد الأقطاب

CU / XLPE / PVC / SWA / PVC

Low Voltage Cables

0.6/1 (1.2) KV Multi Core SWA Cables

Multicore Cables . with stranded Copper Conductors XLPE Insulated , steel tape Armoured and PVC Sheathed

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air			Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground				
			Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
4core cables							
4 RM	4.61	4.61	54	42	47	16.3	535
6 RM	3.08	3.08	68	52	57	18.4	765
10 RM	1.83	1.83	90	69	77	19.8	950
16 RM	1.15	1.15	115	86	101	23	1390
25 RM	0.727	0.727	154	116	136	27.6	1945
35 RM	0.524	0.524	185	140	166	30.5	2435
50 SM	0.387	0.387	238	174	218	31.8	2860
70 SM	0.268	0.268	293	218	277	36.9	4095
95 SM	0.193	0.193	350	260	337	39.4	5195
120 SM	0.153	0.153	397	301	393	44.9	6770
150 SM	0.124	0.124	446	341	451	49.4	8090
185 SM	0.0991	0.0991	503	390	521	54.2	9805
240 SM	0.0754	0.0754	579	456	614	60.2	12320
300 SM	0.0601	0.0601	649	513	702	65.8	14975
400 SM	0.047	0.047	725	584	810	75.9	19775
500 SM	0.0366	0.0366	806	659	920		
4 core cables with reduced neutral						83.4	24540
25 RM/16RM	1.15/0.727	1.15/0.727	153	115	134	26.7	1815
35 RM/16RM	1.15/0.524	1.15/0.524	184	138	163	28.7	2180
50SM/25RM	0.727/0.387	0.727/0.387	225	168	204	31.8	2700
70SM/35RM	0.524/0.268	0.524/0.268	275	210	257	36.9	3835
95SM/50SM	0.387/0.193	0.387/0.193	349	259	335	38.9	4720
120SM/70SM	0.268/0.153	0.268/0.153	395	296	386	41.8	5750
150SM/70SM	0.268/0.124	0.268/0.124	442	338	442	47	7190
185SM/95SM	0.193/0.0991	0.193/0.0991	498	384	510	51.9	8805
240SM/120SM	0.153/0.0754	0.153/0.0754	575	449	602	57.4	10975
300SM/150SM	0.124/0.0601	0.124/0.0601	644	507	689	62.5	13285
400SM/185SM	0.0991/0.047	0.0991/0.047	723	578	798	71.5	17405
500SM/240SM	0.0754/0.0366	0.0754/0.0366	800	648	902	79.3	21805

ALuminium Cables

Low Voltage
Cables
Operating Voltage
(up to 3/1.8 kV)

Cable Construction

1. Conductor
Copper or Aluminium conductors, solid, stranded or with round or sectoral shaped conductors.

2. Insulation
An extruded layer of PVC or XLPE is applied over the conductor.
PVC insulated cables are suitable for maximum conductor operating temperature of 70°C or 85°C and 90°C for XLPE.

3. Assembly
In case of multicore cables cores are assembled together using non hygroscopic filler (if needed) to fill space between cores, wrapped with suitable binder tape to form a round cable.

4. Bedding
In case of armoured cables an extruded layer of PVC or other material is applied as bedding.

5. Armouring
a. Steel Tape: Double layers of steel tapes are applied helically with gap.
b. Steel Wire: Galvanized steel wires are applied helically.

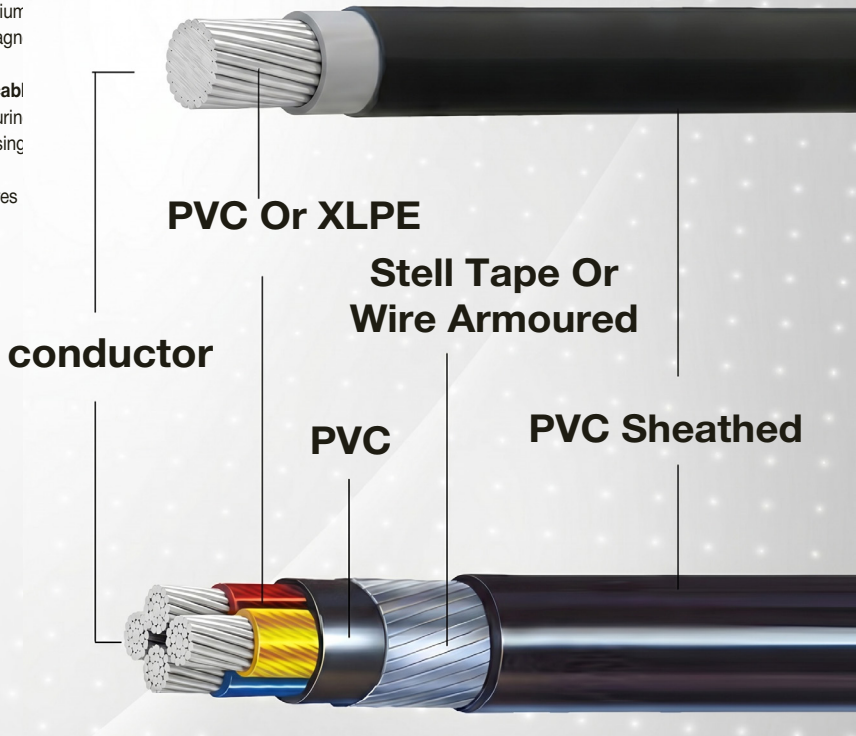
6. Sheath
An extruded layer of PVC is applied as an outer sheath, or according to the client special requirements.

Option
Lead Sheath: Upon request a layer of lead is extruded over the bedding layer.

Armouring of Single Core Cable

1. Armouring by non-magnetic mate
either Aluminium Tape or Aluminiu
Wire armouring to reduce the magn
losses.

2. If it is required for single core cabl
be armoured by steel wire armourin
the magnetic circuit around the sing
core cable should be interrupted
by inserting insulated copper wires
between the steel wires.



Single Core Unarmoured Cables كابلات ألومنيوم عزل مزدوج

Al / PVC / PVC

Low Voltage Cables

0.6/1 (1.2) KV Single Core Unarmoured Cables

Single Core Cables, with Stranded
Circular Aluminium Conductors
PVC Insulatedand PVC Sheathed

Description

Soft annealed stranded Aluminum conductor. Insulated with PVC compound rated 70 °C and sheathed with PVC Compound layer.
Cables are produced according to IEC 60502.

Application

For outdoor and indoor installations in damp and wet locations. They are normally used for power distribution in urban networks, industrial plants, as well as in thermopower and hydropower stations.

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air						Appro x. Overall Diameter	Approx Weight
			Laid in Free Ground			Laid in Free air (Shaded)				
	DC at 20 deg°C	DC at 70 deg°C	Flat	Trefoil	Duct	Flat Seperated	Free Touched	In Pipes Touched		
mm²	Ω / km	Ω / km	A	A	A	A	A	A	mm	Kg / Km
16	1.91	2.2949	86	87	60	83	65	63	9.1	120
25	1.2	1.4419	111	112	79	111	87	85	10.6	170
35	0.868	1.0431	133	134	95	136	107	104	11.7	210
50	0.641	0.7704	157	159	115	166	132	128	13.4	265
70	0.443	0.5327	193	195	142	210	167	162	15	340
95	0.32	0.3851	230	233	174	258	207	201	17.1	445
120	0.253	0.3048	262	266	198	300	241	234	18.5	535
150	0.206	0.2485	294	298	227	343	278	269	20.5	655
185	0.164	0.1984	333	338	260	397	324	314	22.8	810
240	0.125	0.1519	386	392	307	473	388	376	25.7	1035
300	0.1	0.1224	437	444	353	548	451	438	28.7	1285
400	0.0778	0.0964	499	508	410	644	531	515	32	1615
500	0.0605	0.0764	570	580	478	757	625	605	35.9	2015
630	0.0469	0.0612	648	660	550	889	730	707	39.6	2515
800	0.0367	0.0503	730	744	630	1045	850	822	44.6	3170
1000	0.0291	0.0425	814	830	719	1219	982	950	51.7	3950

Single Core ATA Aluminum Cable

كابلات ألومنيوم أحادي عزل مزدوج مسلح

Al / PVC /ATA / PVC

Low Voltage Cables

0.6/1(1.2) KV

Single Core Cables, with Stranded Aluminium Conductors, PVC insulation, Aluminum Tape Armoured, And PVC Sheathed

Description

Soft annealed Aluminum conductor, insulated with PVC compound rated 70 °C, Aluminum Tape Armoured and sheathed with PVC compound layer.
Cables are produced according to IEC 60502.

Application

For outdoor and indoor installation in camp and wet locations where mechanical damages are expected to occur.

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air						Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground			Laid in Free air (Shaded)				
			Flat	Trefoil	Duct	Flat Seperated	Free Touched	In Pipes Touched		
mm²	Ω / km	Ω / km	A	A	A				mm	Kg / Km
16	1.91	2.2949	87	88	65	90	73	71	13.3	260
25	1.2	1.4419	112	113	84	118	96	94	14.8	315
35	0.868	1.043	134	136	101	144	117	114	15.9	360
50	0.641	0.7704	158	160	121	174	142	139	17.6	435
70	0.443	0.5326	194	197	150	218	179	174	19.2	525
95	0.32	0.385	231	235	180	265	219	213	21.1	645
120	0.253	0.3046	263	267	207	306	253	247	22.5	745
150	0.206	0.2483	294	299	233	348	289	281	24.3	880
185	0.164	0.1981	333	339	268	400	334	325	26.4	1040
240	0.125	0.1517	385	392	314	472	397	387	29.3	1295
300	0.1	0.1221	433	443	359	542	459	447	32.1	1555
400	0.0778	0.0959	493	505	417	626	535	523	36	1970
500	0.0605	0.0759	559	575	480	724	624	611	39.9	2415
630	0.0469	0.0606	630	651	549	833	721	708	43.4	2930
800	0.0367	0.0495	702	729	628	951	829	817	48.8	3680
1000	0.0291	0.0417	770	806	709	1071	942	933	55.9	4540

Single Core AWA Aluminum Cable

كابلات ألومنيوم أحادي عزل مزدوج مسلح

Al / PVC / AWA / PVC

Low Voltage Cables

0.6/1(1.2) KV

Single Core Cables, with Stranded Aluminium Conductors, PVC insulation, Aluminum wire Armoured, And PVC Sheathed

Description

Soft annealed Aluminum conductor, insulated with PVC compound rated 70 °C.
Aluminum Wire Armoured and sheathed with PVC compound layer.
Cables are produced according to IEC 60502 or BS 6346.

Application

For outdoor and indoor installation in damp and wet locations where mechanical damages are expected to occur.

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air						Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground			Laid in Free air (Shaded)				
			Flat	Trefoil	Duct	Flat Seperated	Free Touched	In Pipes Touched		
mm²	Ω / km	Ω / km	A	A	A				mm	Kg / Km
16	1.91	2.2949	88	89	67	93	77	75	15.6	330
25	1.2	1.4419	113	115	87	122	101	98	17.1	405
35	0.868	1.043	135	137	104	148	123	119	18.2	465
50	0.641	0.7704	159	162	124	178	148	144	19.9	545
70	0.443	0.5326	195	198	152	222	185	180	21.5	650
95	0.32	0.385	231	236	1.84	268	224	219	23.4	780
120	0.253	0.3046	262	268	209	308	259	253	24.8	895
150	0.206	0.2483	292	299	237	347	294	287	26.6	1040
185	0.164	0.1981	329	337	270	395	337	331	28.7	1210
240	0.125	0.1517	377	389	315	459	397	390	31.6	1485
300	0.1	0.1221	420	435	357	517	454	448	34.7	1800
400	0.0778	0.0959	470	491	408	585	522	518	38.4	2225
500	0.0605	0.0759	525	553	467	662	598	598	42.3	2680
630	0.0469	0.0606	580	617	526	740	678	683	46	3240
800	0.0367	0.0495	616	666	578	807	748	763	52.4	4200
1000	0.0291	0.0417	658	719	637	889	828	851	59.5	5135

Multi Core Unarmored Aluminum Cable

كابلات ألومنيوم بدون تسليح

Al / PVC / PVC

Low Voltage Cables

0.6/1 (1.2) KV Multi Core Unarmoured Cables

Multicore Cables . with Stranded Aluminium Conductors PVC Insulated and PVC Sheathed

Description

Multicore cables of stranded Aluminium conductors are insulated with PVC compound rated 70°C, assembled together, covered with overall jacket of PVC compound.

Cables are produced according to IEC 60502.

Application

For outdoor and indoor installations in damp and wet locations.

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air			Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground				
			Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
2 core cables							
16 RM	1.91	2.295	94	68	71	17.1	310
25 RM	1.2	1.4419	121	88	94	20.1	430
35 RM	0.868	1.0431	147	106	116	22.3	535
50 RM	0.641	0.7704	174	128	141	25.7	670
70 RM	0.443	0.5327	214	158	178	29.1	865
95 RM	0.32	0.3851	256	191	218	33.1	1115
120 RM	0.253	0.3048	292	221	253	36.1	1360
150 RM	0.206	0.2485	327	249	288	39.9	1675
185 RM	0.164	0.1982	370	287	333	44.5	2070
240 RM	0.125	0.1518	429	338	394	50.3	2650
300 RM	0.1	0.1221	486	386	455	56.1	3285
400 RM	0.0778	0.096	556	447	529	62.9	4180
3 core cables							
16 RM	1.91	2.295	78	56	59	18.2	380
25 RM	1.2	1.442	101	73	79	21.4	525
35 RM	0.868	1.0432	121	89	97	23.8	655
50 SM	0.641	0.7704	147	106	117	24.2	775
70 SM	0.443	0.5327	180	131	148	27.5	1035
95 SM	0.32	0.3851	216	159	182	31.6	1370
120 SM	0.253	0.3048	245	182	210	33.6	1630
150 SM	0.206	0.2485	275	206	241	37.5	2015
185 SM	0.164	0.1983	311	236	278	41.7	2470
240 SM	0.125	0.1518	362	279	331	47.2	3225
300 SM	0.1	0.1222	409	318	381	52.5	3945
400 SM	0.0778	0.0961	470	371	449	59.7	5170
500 SM	0.0605	0.076	536	428	521	66.4	6470

GOLDEN CABLES

Multi Core Unarmored Aluminum Cable — كابلات ألومنيوم بدون تسليح

Al / PVC / PVC

Low Voltage Cables

0.6/1 (1.2) KV Multi Core Unarmoured Cables

Multicore Cables . with Stranded Aluminium Conductors PVC Insulated and PVC Sheathed

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air			Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground				
			Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
4 core cables							
16 RM	1.91	2.295	79	57	61	19.9	475
25 RM	1.2	1.442	102	75	81	23.5	675
35 RM	0.868	1.0432	123	90	100	26.2	845
50 SM	0.641	0.7704	151	110	125	28.3	1025
70 SM	0.443	0.5327	185	136	157	32.1	1360
95 SM	0.32	0.3851	221	164	192	35.8	1805
120 SM	0.253	0.3048	252	189	223	39.4	2170
150 SM	0.206	0.2485	283	216	256	43.9	2685
185 SM	0.164	0.1983	321	247	296	48.9	3290
240 SM	0.125	0.1518	372	291	352	55.2	4235
300 SM	0.1	0.1222	421	333	405	61.3	5215
400 SM	0.0778	0.0961	484	388	477	69.9	6845
500 SM	0.0605	0.076	552	450	554	77.4	8485
4 core cables with reduced neutral							
25 RM/16RM	1.91/1.2	2.295/1.442	101	74	80	22.6	630
35RM/16RM	1.91/0.868	2.295/1.0432	122	89	98	24.6	760
50SM/25 RM	1.2/0.641	1.442/0.7704	151	110	125	28.3	935
70SM/35 RM	0.868/0.443	1.0432/0.5327	186	136	158	31.9	1225
95SM/50SM	0.641/0.32	0.7704/0.3851	219	162	188	34.3	1620
120 SM/70 SM	0.443/0.253	0.5327/0.3048	250	187	220	37.7	1960
150 SM/70SM	0.443/0.206	0.5327/0.2485	280	212	251	41.5	2360
185 SM/95 SM	0.32/0.164	0.3851/0.1983	318	243	290	46.4	2905
240SM/120 SM	0.253/0.125	0.3048/0.1518	369	287	345	52.4	3720
300 SM/150 SM	0.206/0.1	0.2485/0.1222	417	328	397	58.2	4615
400 SM/185 SM	0.164/0.0778	0.1983/0.0961	479	382	467	65.9	5970
500 SM/240 SM	0.125/0.0605	0.1518/0.076	547	441	543	73.3	7485

GOLDEN CABLES

Multi Core Armoured Aluminum Cable — كابلات الومنيوم مسلح متعدد الأقطاب

Al / PVC /PVC / STA / PVC

Low Voltage Cables

0.6/1 (1.2) KV Multi Core STA cables

Multicore Cables . with Stranded Aluminium Conductors PVC Insulated Stell Tape Armoured and PVC Sheathed

Description

Multicore cables of stranded Aluminium conductors are insulated with PVC compound rated 70°C, assembled together, armoured with steel tape and covered with overall jacket of PVC compound.
Cables are produced according to IEC 60502.

Application

For outdoor installations in damp wet locations, where mechanical damages are expected to occur.

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air			Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground				
			Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
2 core cables							
16 RM	1.91	2.295	93	68	72	19.3	485
25 RM	1.2	1.4419	120	89	95	22.3	635
35 RM	0.868	1.0431	145	107	117	24.5	755
50 RM	0.641	0.7704	172	129	142	27.9	930
70 RM	0.443	0.5327	212	160	179	31.3	1155
95 RM	0.32	0.3851	252	192	217	35,9	1500
120 RM	0.253	0.3048	289	224	255	40.1	2140
150 RM	0.206	0.2485	324	253	290	43.7	2515
185 RM	0.164	0.1982	366	289	333	48.5	3030
240 RM	0.125	0.1518	425	339	394	54.3	3730
300 RM	0.1	0.1221	481	388	453	60.3	4515
400 RM	0.0778	0.096	549	449	526	67.1	5550
3 core cables							
16 RM	1.91	2.295	77	57	60	20.4	575
25 RM	1.2	1,442	99	74	80	23.6	765
35 RM	0.868	1.0432	120	89	98	26	925
50 SM	0.641	0.7704	153	109	125	26.6	1020
70 SM	0.443	0.5327	188	137	158	30.1	1315
95 SM	0.32	0.3851	227	167	198	35.6	2030
120 SM	0.253	0.3048	259	191	228	37.4	2310
150 SM	0.206	0.2485	290	217	261	41.7	2820
185 SM	0.164	0.1983	329	248	302	45.9	3350
240 SM	0.125	0.1518	383	293	361	51.4	4210
300 SM	0.1	0.1222	434	334	418	56.5	5010
400 SM	0.0778	0.0961	499	391	494	63.9	6405
500 SM	0.0605	0.076	569	452	575	70.6	7835

GOLDEN CABLES

Multi Core Armoured Aluminum Cable — كابلات ألومنيوم مسلح متعدد الأقطاب

Al / PVC /PVC / STA / PVC

Low Voltage Cables

0.6/1 (1.2) KV Multi Core STA cables

Multicore Cables . with Stranded Aluminium Conductors PVC Insulated Stell Tape Armoured and PVC Sheathed

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air			Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground				
			Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm ²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
4 core cables							
16 RM	1.91	2.295	78	57	62	22.1	670
25 RM	1.2	1.442	101	75	82	25.7	910
35 RM	0.868	1.0432	121	91	100	28.4	1105
50 SM	0.641	0.7704	158	115	134	31.1	1340
70 SM	0.443	0.5327	196	143	171	35.9	2015
95 SM	0.32	0.3851	234	172	209	39.6	2535
120 SM	0.253	0.3048	267	200	243	43.4	2995
150 SM	0.206	0.2485	300	227	279	48.1	3620
185 SM	0.164	0.1983	341	260	324	53.1	4325
240 SM	0.125	0.1518	397	306	387	59.4	5390
300 SM	0.1	0.1222	449	351	448	65.5	6495
400 SM	0.0778	0.0961	517	411	530	74.3	8340
500 SM	0.0605	0.076	592	476	623	83	10900
4 core cables with reduced neutral							
25 RM/16 RM	1.91/1.2	2.295/1.442	100	74	81	24.8	855
35RM/16RM	1.91/0.868	2.295/1.0432	120	90	99	26.8	1005
50 SM/25 RM	1.2/0.641	1.442/0.7704	149	111	125	30.5	1240
70SM/35 RM	0.868/0.443	1.0432/0.5327	183	137	158	34.5	1600
95SM/50SM	0.641/0.32	0.7704/0.3851	232	171	205	38.1	2315
120 SM/70SM	0.443/0.253	0.5327/0.3048	265	197	239	41.7	2750
150 SM/70 SM	0.443/0.206	0.5327/0.2485	297	223	273	45.7	3245
185SM/95 SM	0.32/0.164	0.3851/0.1983	338	257	318	50.4	3860
240 SM/120 SM	0.253/0.125	0.3048/0.1518	393	302	379	56.4	4790
300SM/150SM	0.206/0.1	0.2485/0.1222	445	346	439	62.2	5795
400SM/185 SM	0.164/0.0778	0.1983/0.0961	511	404	517	70.3	7375
500 SM/240 SM	0.125/0.0605	0.1518/0.076	585	468	607	78.9	9775

Multi Core Armoured Aluminum Cable كابلات ألومنيوم مسلح متعدد الأقطاب

Al / PVC / PVC / SWA / PVC

Low Voltage Cables

0.6/1 (1.2)KV Multi Core SWA Cables

Multicore Cables . with Stranded Aluminium Conductors PVC Insulated Steel Wire Armoured and PVC Sheathed

Description

Multicore cables of stranded Aluminium conductors are insulated with PVC compound rated 70°C, assembled together, armoured with steel wires and covered with overall jacket of PVC compound.
Cables are produced according to IEC 60502.

Application

For outdoor installations in damp wet locations where mechanical damages are expected to occur.

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air			Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground				
			Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
4 core cables							
16 RM	1.91	2.295	94	70	74	21.5	770
25 RM	1.2	1.4419	121	91	99	25.6	1130
35 RM	0.068	1.0431	146	110	120	27.8	1310
50 RM	0.641	0.7704	173	131	146	31.4	1575
70 RM	0.443	0.5327	214	163	184	35.2	2055
95 RM	0.32	0.3851	254	196	223	39.8	2535
120 RM	0.253	0.3048	290	225	258	42.6	2880
150 RM	0.206	0.2485	325	256	295	47.4	3790
185 RM	0.164	0.1982	366	291	337	52.4	4460
240 RM	0.125	0.1518	423	340	396	58	5295
300 RM	0.1	0.1221	477	387	453	64	6270
400 RM	0.0778	0.096	541	444	523	70.8	7495
4 core cables with reduced neutral							
16 RM	1.91	2.295	78	57	62	22.6	875
25 RM	12	1.442	100	76	82	26.9	1305
35 RM	0.868	1.0432	121	91	101	29.3	1520
50 SM	0.641	0.7704	155	113	130	30.1	1625
70 SM	0.443	0.5327	191	140	165	34	2175
95 SM	0.32	0.3851	229	170	202	38.1	2685
120 SM	0.253	0.3048	261	193	233	39.9	3015
150 SM	0.206	0.2485	292	220	268	45.4	4010
185 SM	0.164	0.1983	330	251	309	49.6	4685
240 SM	0.125	0.1518	383	295	366	55.1	5665
300 SM	0.1	0.1222	431	337	421	60.4	6660
400 SM	0.0778	0.0961	492	389	495	68.9	9015
500 SM	0.0605	0,076	555	443	570	75.8	10705

GOLDEN CABLES

Multi Core Armoured Aluminum Cable — كابلات ألومنيوم مسلح متعدد الأقطاب

AI / PVC / PVC / SWA / PVC

Low Voltage Cables

0.6/1 (1.2) KV Multi Core SWA Cables

Multicore Cables . with Stranded Aluminium Conductors PVC Insulated Steel Wire Armoured and PVC Sheathed

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air			Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground				
			Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
4 core cables							
16 RM	1.91	2.295	79	59	64	25.4	1175
25 RM	1.2	1.442	102	77	84	29	1490
35 RM	0.868	1.0432	122	93	103	31.9	1770
50 SM	0.641	0.7704	160	118	139	35	2245
70 SM	0.443	0.5327	197	146	175	38.6	2710
95 SM	0.32	0.3851	236	176	215	43.3	3670
120 SM	0.253	0.3048	269	203	249	47.1	4240
150 SM	0.206	0.2485	301	230	285	51.8	5000
185 SM	0.164	0.1983	341	264	329	56.8	5830
240 SM	0.125	0.1518	395	307	391	63.1	7090
300 SM	0.1	0.1222	445	350	450	69	8355
400 SM	0.0778	0.0961	505	404	526	79.3	11370
500 SM	0.0605	0.076	570	463	606	86.8	13440
4 core cables with reduced neutral							
25 RM/16RM	1.91/1.2	2.295/1.442	101	76	84	28.1	1425
35 RM/16RM	1.91/0.868	2.295/1.0432	121	92	101	30.3	1630
50 SM/25 RM	1.2/0.641	1.442/0.7704	151	113	130	34.4	2120
70SM/35 RM	0.868/0.443	1.0432/0.5327	185	140	163	38.4	2610
95 SM/50 SM	0.641/0.32	0.7704/0.3851	233	174	209	40.6	3005
120SM/70SM	0.443/0.253	0.5327/0.3048	266	200	245	45.6	3955
150 SM/70 SM	0.443/0.206	0.5327/0.2485	298	226	279	49.4	4580
185SM/95SM	0.32/0.164	0.3851/0.1983	338	260	323	54.1	5325
240SM/120SM	0.253/0.125	0.3048/0.1518	392	305	383	60.1	6405
300SM/150SM	0.206/0.1	0.2485/0.1222	441	345	441	65.9	7575
400 SM/185 SM	0.164/0.0778	0.1983/0.0961	501	399	516	75.3	10205
500SM/240 SM	0.125/0.0605	0.1518/0.076	565	455	594	82.7	12155


نسعي لتحقيق التميز في كل جانب
من جوانب أعمالنا
striving to achieve excellence in every
aspect aspects of our business
GOLDEN
CABLES

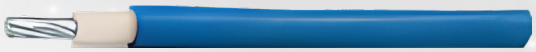
Single Core Unarmoured Cables كابلات ألومنيوم عزل مزدوج

Al / XLPE / PVC

Low Voltage Cables

0.6/1 (1.2) KV

Single Core Cables, with Stranded Circular Aluminum Conductors, XPLE Insulated and PVC Sheathed



Description

Soft annealed stranded Aluminum conductor, Insulated with XLPE compound covered with a layer of PVC compound to form the overall jacket.
Cables are according to IEC 60502.

Application

For outdoor and indoor installations in damp and wet locations. They are normally used for power distribution in urban networks, in industrial plants, as well as in Thermopower and Hydropower stations.

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air						Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground			Laid in Free air (Shaded)				
			Flat ⊙⊙⊙	Trefoil	Duct	Flat Seperated ⊙ ⊙ ⊙	Free Touched ⊙⊙⊙	In Pipes Touched		
mm²	Ω / km	Ω / km	A	A	A				mm	Kg / Km
16	1.91	2.4489	100	101	70	104	80	77	8.5	100
25	1.2	1.5387	129	130	92	139	107	104	10	140
35	0.868	1.1131	154	156	111	171	133	129	11.1	175
50	0.641	0.8221	183	185	134	208	163	158	12.6	220
70	0.443	0.5684	224	227	166	264	208	202	14.4	295
95	0.32	0.4109	267	271	201	324	256	249	16.1	380
120	0.253	0.3252	304	309	232	377	300	291	17.7	465
150	0.206	0.2651	341	346	263	432	346	336	19.7	575
185	0.164	0.2116	386	392	304	502	404	392	21.8	700
240	0.125	0.162	448	456	357	599	485	470	24.5	900
300	0.1	0.1305	507	516	411	696	566	548	27.3	1115
400	0.0778	0.1026	580	590	478	819	667	646	30.6	1420
500	0.0605	0.0813	663	675	558	965	787	762	34.5	1785
630	0.0469	0.0649	754	768	647	1131	922	892	38.8	2300
800	0.0367	0.053	850	867	744	1329	1077	1042	44.2	2950
1000	0.0291	0.0446	949	968	847	1556	1249	1207	51.1	3655

GOLDEN CABLES

Single Core ATA Aluminum Cable كابلات ألومنيوم أحادي مسلح عزل مزدوج

Al / Xlpe / ATA / PVC

Low Voltage Cables

0.6/1 (1.2) KV

Single Core Cables, with Stranded Circular Aluminum Conductors, XPLE insulatiom, Aluminium Tape Armoured , and PVC Sheathed

Description

Soft annealed Aluminum conductor, insulated with XLPE compound rated 90 °C, Aluminum Tape Armoured and sheathed with PVC compound layer.
Cables are produced according to IEC 60502.

Application

For outdoor and indoor installation in damp and wet locations where mechanical damages are expected to occur.

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air						Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground			Laid in Free air (Shaded)				
			Flat ⊙⊙⊙	Trefoil	Duct	Flat Seperated ⊙ ⊙ ⊙	Free Touched ⊙⊙⊙	In Pipes Touched		
mm²	Ω / km	Ω / km	A	A	A				mm	Kg / Km
16	1.91	2.4489	102	103	76	112	90	88	12.7	230
25	1.2	1.5387	130	132	98	148	120	116	14.2	280
35	0.868	1.1131	156	158	117	180	146	142	15.3	320
50	0.641	0.8221	184	187	140	218	177	172	16.8	380
70	0.443	0.5684	225	228	174	274	223	217	18.6	475
95	0.32	0.4109	269	273	209	333	272	265	20.1	570
120	0.253	0.3252	305	310	240	386	316	308	21.7	670
150	0.206	0.2651	341	347	273	439	362	352	23.5	790
185	0.164	0.2116	386	394	313	506	419	408	25.6	940
240	0.125	0.162	447	456	368	599	498	485	28.1	1145
300	0.1	0.1305	504	515	419	689	5//	561	30.9	1390
400	8/0.07	0.1026	4/5	588	488	198	675	658	34.6	1760
500	0.0605	0.0813	652	670	563	925	788	770	38.5	2165
630	0.0469	0.0649	735	759	648	1064	913	895	42.6	2705
800	0.0367	0.053	821	852	743	1214	1052	1035	48.4	3460
1000	0.0291	0.0446	903	944	838	1371	1200	1186	55.5	4265

Single Core AWA Aluminum Cable

كابلات ألومنيوم مسلح عزل مزدوج

Al / XLPE / AWA / PVC

Low Voltage Cables

0.6/1 (1.2) KV

Single Core Cables, with Stranded Circular Aluminum Conductors, XPLE insulatiom , Aluminium wire Armoured , and PVC Sheathed

Description

Soft annealed Aluminium conductor, insulated with XLPE compound rated 90 °C, Aluminum Wire Armoured and sheathed with PVC compound layer.
Cables are produced according to IEC 60502.

Application

For outdoor and indoor installation in damp and wet locations where mechanical damages are expected to occur.

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air						Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground			Laid in Free air (Shaded)				
			Flat	Trefoil	Duct	Flat Seperated	Free Touched	In Pipes Touched		
mm²	Ω / km	Ω / km	A	A	A	A	A	A	mm	Kg / Km
16	1.91	2.4489	103	104	78	118	96	93	15	295
25	1.2	1.5386	132	134	101	154	126	123	16.5	365
35	0.868	1.113	157	160	122	187	153	149	17.6	420
50	0.641	0.822	186	189	145	225	185	180	19.1	490
70	0.443	0.5683	227	230	179	280	231	225	20.9	595
95	0.32	0.4107	269	274	214	338	281	274	22.4	700
120	0.253	0.3249	305	311	246	389	325	317	24	805
150	0.206	0.2648	340	348	277	439	369	360	25.8	940
185	0.164	0.2112	383	393	315	501	425	415	27.9	1105
240	0.125	0.1616	440	453	368	585	500	491	30.6	1345
300	0.1	0.1299	492	509	419	663	573	564	33.4	1600
400	0.0778	0.102	551	574	480	749	661	655	37.2	2015
500	0.0605	0.0805	616	647	550	847	759	757	41.1	2445
630	0.0469	0.064	683	724	625	951	865	868	45	2990
800	0.0367	0.0518	725	782	689	1031	955	972	52	3980
1000	0.0291	0.0432	778	848	763	1136	1061	1089	59	4850

Multi Core Aluminum Unarmoured Cables كابلات ألومنيوم بدون تسليح

AI /XLPE / PVC

Low Voltage Cables

0.6/1 (1.2) KV Multi Core Unarmoured Cables

Multicore Cables . with Stranded Aluminium Conductors XLPE Insulated and PVC Sheathed

Description

Multicore cables of Stranded Aluminium conductors are insulated with XLPE compound, assembled together and covered with an overall jacket of PVC compound. Cables are produced according to IEC 60502.

Application

For outdoor and indoor installations in damp and wet locations. They are normally used for power distribution in urban networks, in industrial plants, as well as in Thermopower and Hydropower Stations.

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air			Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground				
			Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm ²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
2 core cables							
16 RM	1.91	2.4489	113	79	89	15.9	270
25 RM	1.2	1.5387	146	103	119	18.9	375
35 RM	0.868	1.1131	176	126	147	21.1	470
50 RM	0.641	0.8221	209	151	179	24.1	585
70 RM	0.443	0.5684	257	188	227	27.7	765
95 RM	0.32	0.4109	307	227	278	31.1	985
120 RM	0.253	0.3251	350	262	324	34.5	1230
150 RM	0.206	0.2651	392	297	370	38.3	1520
185 RM	0.164	0.2114	444	340	428	42.7	1865
240 RM	0.125	0.1618	516	402	509	48.1	2380
300 RM	0.1	0.1302	585	462	589	53.7	2975
400 RM	0.0778	0.1023	670	536	688	60.3	3785
3 core cables					73		
16 RM	1.91	2.4489	92	65	98	16.9	320
25 RM	1.2	1.5387	118	86	121	20.1	450
35 RM	0.868	1.1131	142	103	145	22.5	565
50 SM	0.641	0.8221	171	121	183	22.6	650
70 SM	0.443	0.5684	209	151	225	26.1	890
95 SM	0.32	0.4109	251	183	262	29.4	1150
120 SM	0.253	0.3252	286	211	297	32.8	1415
150 SM	0.206	0.2651	319	239	344	35.9	1765
185 SM	0.164	0.2115	361	274	409	39.9	2150
240 SM	0.125	0.1619	420	323	471	45	2795
300 SM	0.1	0.1302	474	369	555	49.9	3415
400 SM	0.0778	0.1023	544	433	645	57.3	4535
500 SM	0.0605	0.0809	621	501		63.8	5705

Low Voltage Cables

0.6/1 (1.2)KV Multi Core Unarmoured Cables

Multicore Cables . with Stranded Aluminium Conductors XLPE Insulated and PVC Sheathed

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air			Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground				
			Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm ²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
4 core cables							
16 RM	1.91	2.4489	93	66	76	18.5	395
25 RM	1.2	1.5387	120	87	101	22.1	575
35 RM	0.868	1.1131	144	105	125	24.8	730
50 SM	0.641	0.8221	175	126	153	26.3	850
70 SM	0.443	0.5684	215	158	194	30.4	1160
95 SM	0.32	0.4109	256	189	235	33.1	1500
120 SM	0.253	0.3252	291	219	274	37.2	1860
150 SM	0.206	0.2651	327	249	314	41.7	2315
185 SM	0.164	0.2115	370	287	364	46.7	2850
240 SM	0.125	0.1619	430	337	432	52.5	3670
300 SM	0.1	0.1302	486	386	498	58.1	4500
400 SM	0.0778	0.1023	558	452	586	66.7	5960
500 SM	0.0605	0.0809	638	522	681	74.2	7485
4 core cables with reduced neutral							
25 RM/16RM	1.91/1.2	2.4489/1.5387	119	86	100	21.2	530
35. RM/16RM	1.91/0.868	2.4489/1.1131	143	103	122	23.2	655
50SM/25 RM	1.2/0.641	1.5387/0.8221	175	126	153	26.1	765
70SM/35 RM	0.868/0.443	1.1131/0.5684	215	158	194	30.2	1040
95SM/50SM	0.641/0.32	0.8221/0.4109	255	188	233	32.6	1350
120SM/70SM	0.443/0.253	0.5684/0.3252	289	216	270	35.5	1675
150SM/70SM	0.443/0.206	0.5684/0.2651	324	245	308	39.3	2030
185SM/95SM	0.32/0.164	0.4109/0.2115	367	283	357	44.2	2515
240 SM/120 SM	0.253/0.125	0.3252/0.1619	427	332	424	49.7	3230
300 SM/150 SM	0.206/0.1	0.2651/0.1302	482	380	489	55	3980
400SM/185 SM	0.164/0.0778	0.2115/0.1023	554	443	575	62.7	5185
500 SM/240 SM	0.125/0.0605	0.1619/0.0809	632	515	668	70.1	6580

Multi Core Aluminum STA Cables كابلات ألومنيوم مسلح

Al / XLPE / PVC / STA / PVC

Low Voltage Cables

0.6/1 (1.2)KV Multi Core STA Cables

Multicore Cables . with Stranded Aluminium Conductors XLPE Insulated Steel Tape Armoured and PVC Sheathed

Description

Multicore cables of stranded Aluminium conductors are insulated with XLPE compound, assembled together, armoured with steel tape and covered with an overall jacket of PVC compound.

Cables are produced according to IEC 60502.

Application

For outdoor installations in damp wet locations where mechanical damages are expected to occur.

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air			Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground				
			Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm ²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
2 core cables							
16 RM	1.91	2.4489	111	80	90	18.1	430
25 RM	1.2	1.5387	144	105	120	21.1	565
35 RM	0.868	1.1131	173	126	148	23.3	680
50 RM	0.641	0.8221	206	151	180	26.3	830
70 RM	0.443	0.5684	254	189	227	30.1	1060
95 RM	0.32	0.4109	303	229	278	33.7	1330
120 RM	0.253	0.3251	347	265	326	38.3	1955
150 RM	0.206	0.2651	388	299	371	42.1	2325
185 RM	0.164	0.2114	439	344	428	46.9	2810
240 RM	0.125	0.1618	510	403	507	52.3	3440
300 RM	0.1	0.1302	577	462	585	57.9	4155
400 RM	0.0778	0.1023	660	535	681	64.5	5100
3 core cables							
16 RM	1.91	2.4489	91	65	74	19.1	500
25 RM	1.2	1.5387	117	86	99	22.3	675
35 RM	0.868	1.1131	141	104	121	24.7	820
50 SM	0.641	0.8221	178	127	154	24.6	855
70 SM	0.443	0.5684	218	158	195	28.5	1145
95 SM	0.32	0.4109	262	191	240	32	1460
120 SM	0.253	0.3252	301	222	285	36.6	2090
150 SM	0.206	0.2651	335	251	323	39.9	2525
185 SM	0.164	0.2115	381	289	375	43.9	2980
240 SM	0.125	0.1619	443	340	447	49.2	3745
300 SM	0.1	0.1302	502	390	517	53.9	4440
400 SM	0.0778	0.1023	578	455	613	61.1	5670
500 SM	0.0605	0.0809	659	526	715	67.8	7005

Multi Core Aluminum STA Cables — كابلات ألومنيوم مسلح عزل مزدوج

AI / XLPE / PVC / STA / PVC

Low Voltage Cables

0.6/1 (1.2)KV Multi Core STA Cables

Multicore Cables . with Stranded Aluminium Conductors XLPE Insulated Steel Tape Armoured and PVC Sheathed

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air			Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground				
			Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
4 core cables							
16 RM	1.91	2.4489	92	67	77	20.7	580
25 RM	1.2	1.5387	119	88	102	24.3	795
35 RM	0.868	1.1131	143	106	125	27	975
50 SM	0.641	0.8221	184	132	164	28.3	1090
70 SM	0.443	0.5684	225	164	208	32.8	1465
95 SM	0.32	0.4109	269	200	255	36.9	2180
120 SM	0.253	0.3252	307	231	298	41.2	2650
150 SM	0.206	0.2651	346	262	344	45.7	3195
185 SM	0.164	0.2115	393	302	400	50.7	3820
240 SM	0.125	0.1619	457	355	478	56.5	4755
300 SM	0.1	0.1302	518	407	553	62.1	5695
400 SM	0.0778	0.1023	596	477	654	70.9	7365
500 SM	0.0605	0.0809	682	553	769	79.8	9820
4 core cables with reduced neutral							
25 RM/16 RM	1.91/1.2	2.4489/1.5387	118	87	101	23.4	745
35 RM/16 RM	1.91/0.868	2.4489/1.1131	141	104	123	25.4	885
50 SM/25 RM	1.2/0.641	1.5387/0.8221	173	127	154	28.3	1050
70SM/35 RM	0.868/0.443	1.1131/0.5684	211	158	193	33	1410
95 SM/50 SM	0.641/0.32	0.8221/0.4109	269	198	254	36.2	2005
120SM/70 SM	0.443/0.253	0.5684/0.3252	306	227	294	39.1	2390
150SM/70SM	0.443/0.206	0.5684/0.2651	342	257	336	43.3	2860
185SM/95SM	0.32/0.164	0.4109/0.2115	389	297	391	48.2	3435
240 SM/120 SM	0.253/0.125	0.3252/0.1619	453	351	467	53.7	4255
300 SM/150 SM	0.206/0.1	0.2651/0.1302	513	401	541	58.8	5085
400 SM/185 SM	0.164/0.0778	0.2115/0.1023	590	470	640	66.7	6470
500 SM/240 SM	0.125/0.0605	0.1619/0.0809	673	543	747	74.1	8010

Multi Core Aluminum SWA Cables — كابلات ألومنيوم مسلح

Al / XLPE / SWA / PVC

Low Voltage Cables

0.6/1 (1.2)KV Multi Core SWA Cables

Multicore Cables . with Stranded Aluminium Conductors XLPE Insulated Steel Wire Armoured and PVC Sheathed

Description

Multicore cables of stranded Aluminium conductors are insulated with XLPE compound, assembled together, armoured with steel wire and covered with an overall jacket of PVC compound.
Cables are produced according to IEC 60502.

Application

For outdoor installations in damp wet locations where mechanical damages are expecte to occur.

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air			Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground				
			Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
2 core cables							
16 RM	1.91	2.4489	113	82	94	20.3	695
25 RM	1.2	1.5387	146	108	125	24.4	1035
35 RM	0.868	1.1131	175	129	153	26.6	1210
50 RM	0.641	0.8221	208	155	186	29.6	1420
70 RM	0.443	0.5684	255	193	233	33.6	1765
95 RM	0.32	0.4109	306	233	286	37.6	2325
120 RM	0.253	0.3251	348	268	331	41	2690
150 RM	0.206	0.2651	389	302	376	44.6	3105
185 RM	0.164	0.2114	439	347	434	50.6	4160
240 RM	0.125	0.1618	509	405	512	56	4955
300 RM	0.1	0.1302	574	462	588	61.4	5800
400 RM	0.0778	0.1023	652	531	680	68.2	6965
3 core cables							
16 RM	1.91	2.4489	92	67	77	21.3	780
25 RM	1.2	1.5387	118	88	103	25.6	1170
35 RM	0.868	1.1131	142	106	125	28	1375
50 SM	0.641	0.8221	180	130	160	28.1	1420
70 SM	0.443	0.5684	222	162	204	32.4	1960
95 SM	0.32	0.4109	266	196	250	35.9	2385
120 SM	0.253	0.3252	304	226	292	39.1	2755
150 SM	0.206	0.2651	338	257	332	43.6	3660
185 SM	0.164	0.2115	383	294	383	47.6	4220
240 SM	0.125	0.1619	445	343	455	52.7	5125
300 SM	0.1	0.1302	501	392	524	57.6	5980
400 SM	0.0778	0.1023	573	454	616	64.8	7430
500 SM	0.0605	0.0809	646	519	711	73	9780

Multi Core Aluminum SWA Cables كابلات ألومنيوم مسلح

AI / XLPE / SWA / PVC

Low Voltage Cables

0.6/1 (1.2)KV Multi Core SWA Cables

Multicore Cables . with Stranded Aluminium Conductors XLPE Insulated Steel Wire Armoured and PVC Sheathed

Nominal Cross Sectional Area	Max Canductor Resistance		Current Rating in Air			Appro x. Overall Diameter	Approx Weight
	DC at 20 deg°C	DC at 70 deg°C	Laid in Free Ground				
			Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm ²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
4 core cables							
16 RM	1.91	2.4489	93	69	80	24	1040
25 RM	1.2	1.5387	120	90	105	27.6	1350
35 RM	0.868	1.1131	144	109	129	30.5	1615
50 SM	0.641	0.8221	185	135	169	31.8	1740
70 SM	0.443	0.5684	228	169	215	36.9	2430
95 SM	0.32	0.4109	272	202	262	39.4	2870
120 SM	0.253	0.3252	309	235	306	44.9	3850
150 SM	0.206	0.2651	348	266	352	49.4	4530
185 SM	0.164	0.2115	394	306	408	54.2	5260
240 SM	0.125	0.1619	456	359	483	60.2	6375
300 SM	0.1	0.1302	514	407	556	65.8	7480
400 SM	0.0778	0.1023	585	471	653	75.9	10255
500 SM	0.0605	0.0809	661	541	754	83.4	12205
4 core cables with reduced neutral							
25 RM/16 RM	1.91/1.2	2.4489/1.5387	119	89	104	26.7	1270
35 RM/16 RM	1.91/0.868	2.4489/1.1131	143	107	127	28.7	1470
50SM/25 RM	1.2/0.641	1.5387/0.8221	174	130	158	31.8	1710
70SM/35 RM	0.868/0.443	1.1131/0.5684	214	163	200	36.9	2385
95 SM/50 SM	0.641/0.32	0.8221/0.4109	271	201	260	38.9	2695
120SM/70SM	0.443/0.253	0.5684/0.3252	308	231	300	41.8	3140
150SM/70SM	0.443/0.206	0.5684/0.2651	344	263	345	47	4105
185SM/95SM	0.32/0.164	0.4109/0.2115	390	301	399	51.9	4815
240 SM/120 SM	0.253/0.125	0.3252/0.1619	452	354	474	57.4	5790
300 SM/150 SM	0.206/0.1	0.2651/0.1302	510	401	546	62.5	6790
400 SM/185 SM	0.164/0.0778	0.2115/0.1023	582	466	642	71.5	9130
500SM/240 SM	0.125/0.0605	0.1619/0.0809	655	531	738	79.3	11080


GOLDEN
CABLES
Control Cables

Control Cables

PVC insulated and PVC sheathed to IEC 60502
300 / 500 V

Conductor	Plain annealed stranded copper
Sizes	1.5 mm² 2.5 mm² 4 mm²
Core insulation	PVC (polyvinyl chloride)
Color coding	5 Cores dentification is Red. Yellow, Blue, Black, Y/G 5 > cores will be black continuously numbered Cares twisted together to form a round
Assembly	assembly cable with fillers when necessary
Outer sheath	PVC (polyvinyl chloride)
Cables marking	= GOLDEN CABLES= size,cables short description voltage.manufacturing year. me-ter marking

Application

For outdoor and indoor installations in damp and wet locations, connecting signaling and control units in industry, in railways, in traffic signals, in thermo power and hydropower stations. They are laid in air, in ducts, In frenches, in steel support brackets or direct in ground, when well protected

Nominal Cross Sectional Area (mm2)	No. of Cores	Nominal Thick-ness of insulation (mm)	Current Rating (A)			Appro x. Overall Diameter mm	Approx Weight Kg / Km
			Ground	Duct	Air		
1.5	5	0.8	14.7	12.6	13.5	11.5	210
	7	0.8	12.6	10.8	11.7	12.7	242
	10	0.8	10.5	9	9.9	15.9	333
	12	0.8	9.4	8.1	9	16.4	382
	14	0.8	9.4	8.1	9	17.2	434
	16	0.8	8.4	7.2	8.1	18.1	492
	19	0.8	8.4	7.2	8.1	19.1	564
	24	0.8	7.3	6.3	7.2	22.2	702
	30	0.8	6.3	5.4	6.3	23.5	850
	37	0.8	6.3	5.4	6.3	25.4	1026
	44	0.8	4.2	3.6	4.5	28.5	1212
2.5	5	0.8	18.9	16.1	16.5	12.8	280
	7	0.8	16.2	13.8	14.3	14.1	328
	10	0.8	13.5	11.5	12.1	17.7	456
	12	0.8	12.1	10.3	11	18.3	528
	14	0.8	12.1	10.3	11	19.2	602
	16	0.8	10.8	9.2	9.9	20.2	685
	19	0.8	10.8	9.2	9.9	21.3	789
	24	0.8	9.4	8	8.8	24.9	985
	30	0.8	8.1	6.9	7.7	26.4	1199
	37	0.8	8.1	6.9	7.7	28.5	1454
	44	0.8	5.4	4.6	5.5	32.3	1733
4	5	1.0	24.5	21	23.2	15.2	412
	7	1.0	21	18	20.1	16.8	483
	10	1.0	17.5	15	17	21.3	675
	12	1.0	15.7	13.5	15.5	22.1	786
	14	1.0	15.7	13.5	15.5	23.2	901
	16	1.0	14	12	13.9	24.5	1028
	19	1.0	14	12	13.9	25.9	1189
	24	1.0	12.2	10.5	12.4	30.5	1494
	30	1.0	10.5	9	10.8	32.4	1835
	37	1.0	10.5	9	10.8	35.2	2239

Control Cables

XLPE insulated and PVC sheathed to IEC 1-60502

300 / 500 V

Conductor	Plain annealed stranded copper
Sizes	1.5 mm² 2.5 mm² 4 mm²
Core insulation	XLPE (Cross linked Polyethylene)
Alternatives	LSOH (Low smoke zero halogen)
Color coding	5 Cores Identification is Red, Yellow, Blue, Black, Y/G 5 > cores will be black continuously numbered
Assembly	Cares twisted together to form a round assembly cable with fillers when necessary
Outer sheath	PVC | Polyvinyl chloride)
Alternatives	LSOH | Low smoke zero halogen)
Cables marking	=GOLDEN CABLES, size, cables short description, voltage, manufacturing year,me-fer marking

Nominal Cross Sectional Area (mm2)	No. of Cores	Nominal Thick-ness of insulation (mm)	Current Rating (A)			Appro x. Overall Diameter mm	Approx Weight Kg / Km
			Ground	Duct	Air		
1.5	5	0.7	18.2	16.1	16.5	11	181
	7	0.7	15.6	13.8	14.3	21.1	206
	10	0.7	13	11.5	12.1	15.1	283
	12	0.7	11.7	10.3	11	15.6	323
	14	0.7	11.7	10.3	11	16.3	356
	16	0.7	10.4	9.2	9.9	17.2	413
	19	0.7	10.4	9.2	9.9	18.1	472
	24	0.7	9.1	8	8.8	21	586
	30	0.7	7.8	6.9	7.7	23.2	705
	37	0.7	7.8	6.9	7.7	24	849
	44	0.7	5.2	4.6	5.5	27	1001
2.5	5	0.7	24.5	20.3	24	12.2	246
	7	0.7	21	17.4	20.8	13.5	286
	10	0.7	17.5	14.5	17.6	16.9	396
	12	0.7	15.7	13	16	17.5	456
	14	0.7	15.7	13	16	18.3	519
	16	0.7	14	11.6	14.4	19.3	590
	19	0.7	14	11.6	14.4	20.3	678
	24	0.7	12.2	10.1	12.8	23.7	846
	30	0.7	10.5	8.7	11.2	25.1	1027
	37	0.7	10.5	8.7	11.2	27.1	1234
	44	0.7	7	5.8	8	30.6	1473
4	5	0.7	31.5	25.2	30.7	13.6	336
	7	0.7	27	21.6	26.6	15	599
	10	0.7	22.5	18	22.5	18.9	552
	12	0.7	20.2	16.2	20.5	19.6	641
	14	0.7	20.2	16.2	20.5	20.6	733
	16	0.7	18	14.4	18.4	21.7	835
	19	0.7	18	14.4	18.4	22.9	965
	24	0.7	15.7	12.6	16.4	26.8	1207
	30	0.7	13.5	10.8	14.3	28.4	1474
	37	0.7	13.5	10.8	14.3	30.8	1798

Control PVC Cables

Control Cables

Conductor	Plain annecled stranded copper
Sizes	1.5 mm² 2.5 mm² 4 mm²
Core insulation	PVC (polyvinyl chloride)
Color coding	5 Cores Identification is Red. Yelow. Blue, Black, Y/G 5 > cores wil be black continuously numbered
Assembly	Cores twisted together to form a round assembly cable with fillers when
Inner sheath	necessary PVC (polyvinyl Chloride) or binder tape
Screening	Copper tape helicaly applied
Outer sheath	PVC (polyvinyl chloride)
Cables marking	=GOLDEN CABLES=,size, cables short description, voltage, manufacturing year,me ter marking

Application

For outdoor and indoor installations in damp and wet locations, conrecting signaling and control units in industry, in raiways, in traffic signals. In thermo power and nydropower stations. They are laid in air, n ducts.In frenches, in steel support brackets or direct in ground, when well protected

Nominal Cross Sectional Area (mm2)	No. of Cores	Nominal Thick-ness of insulation (mm)	Current Rating (A)			Appro x. Overall Diameter mm	Approx Weight Kg / Km
			Ground	Duct	Air		
1.5	5	0.8	13.9	11.9	12.8	13.3	290
	7	0.8	11.9	10.2	11.1	14.5	330
	10	0.8	9.9	8.5	9.4	1707	443
	12	0.8	8.9	7.6	8.5	1802	496
	14	0.8	8.9	7.6	8.5	19	553
	16	0.8	7.9	6.8	7.6	19.9	617
	19	0.8	7.9	6.8	7.6	20.9	696
	24	0.8	6.9	5.9	6.8	24	856
	30	0.8	5.9	5.1	5.9	25.3	1012
	37	0.8	5.9	5.1	5.9	27.2	1201
	44	0.8	3.9	3.4	4.2	30.3	1407
2.5	5	0.8	17.9	15.2	15.6	14.6	369
	7	0.8	15.3	13.1	13.5	15.9	425
	10	0.8	12.8	10.9	11.4	19.5	578
	12	0.8	11.5	9.8	10.4	20.1	654
	14	0.8	11.5	9.8	10.4	21	734
	16	0.8	10.2	8.7	9.4	22	824
	19	0.8	10.2	8.7	9.4	23.1	936
	24	0.8	8.9	7.6	8.3	26.7	1157
	30	0.8	7.6	6.5	7.3	28.2	1381
	37	0.8	7.6	6.5	7.3	30.3	1651
	44	0.8	5.1	4.3	5.2	34.4	1981
4	5	1.0	23.2	19.9	22	17	517
	7	1.0	19.9	17.1	19.1	18.6	599
	10	1.0	16.6	14.2	16.1	23.1	822
	12	1.0	14.9	12.8	14.7	23.9	938
	14	1.0	14.9	12.8	14.7	25	1060
	16	1.0	13.3	11.4	13.2	26.3	1197
	19	1.0	13.3	11.4	13.2	27.7	1367
	24	1.0	11.6	9.9	11.7	32.6	1730
	30	1.0	9.9	8.5	10.3	34.6	2085
	37	1.0	9.9	8.5	10.3	37.4	2514

Control XLPE Cables

Control Cables

XLPE insulated, copper tape screened and PVC sheathed 1-60502 / 500 V

Conductor	Plain annealed stranded copper
Sizes	1.5 mm² 2.5 mm² 4 mm²
Core insulation	XLPE (Cross linked Polyethylene)
Alternatives	LSOH (Low smoke zero halogen)
Color coding	5 Cores Identification is Red, Yellow, Blue, Black, Y/G 5 > cores will be black continuously numbered
Assembly	Cores twisted together to form a round assembly cable with fillers when necessary
Inner Sheath	PVC (polyvinyl chloride)
Alternatives	LSOH (Low smoke zero halogen)
Screening	Copper tape helically applied
Outer sheath	PVC (polyvinyl chloride)
Alternatives	LSOH (Low smoke zero halogen)
Cables marking	= GOLDEN CABLES, size, cables short description, voltage, manufacturing year,meter marking

Application

For outdoor and indoor installations in damp and wet locations, connecting signaling and control units in industry, in railways, in traffic signals, in thermo power and hydropower stations. They are laid in air, in ducts, In trenches, in steel support brackets or direct in ground, when well protected

Nominal Cross Sectional Area (mm2)	No. of Cores	Nominal Thick-ness of insulation (mm)	Current Rating (A)			Appro x. Overall Diameter mm	Approx Weight Kg / Km
			Ground	Duct	Air		
1.5	5	0.7	17.2	15.2	15.6	12.8	257
	7	0.7	14.8	13.1	13.5	14	290
	10	0.7	12.3	10.9	11.4	16.9	387
	12	0.7	11.1	9.8	10.4	17.4	430
	14	0.7	11.1	9.8	10.4	18.1	478
	16	0.7	9.8	8.7	9.4	19	532
	19	0.7	9.8	8.7	9.4	19.9	596
	24	0.7	8.6	7.6	8.3	22.8	731
	30	0.7	7.4	6.5	7.3	24	858
	37	0.7	7.4	6.5	7.3	25.8	1014
	44	0.7	4.9	4.3	5.2	28.7	1186
2.5	5	0.7	23.2	19.2	22.8	14	330
	7	0.7	19.9	16.5	19.7	15.3	379
	10	0.7	16.6	13.7	16.7	18.7	512
	12	0.7	14.9	12.3	15.2	19.3	577
	14	0.7	14.9	12.3	15.2	20.1	646
	16	0.7	13.3	11	13.6	21.1	723
	19	0.7	13.3	11	13.6	22.1	818
	24	0.7	11.6	9.6	12.1	25.5	1009
	30	0.7	9.9	8.2	10.6	26.9	1200
	37	0.7	9.9	8.2	10.6	29	1430
	44	0.7	6.6	5.5	7.6	32.8	1710
4	5	0.7	29.9	23.9	29.2	25.4	729
	7	0.7	25.6	20.5	25.3	16.8	499
	10	0.7	21.3	17.1	21.4	20.7	682
	12	0.7	19.2	15.3	19.4	21.4	776
	14	0.7	19.2	15.3	19.4	22.4	875
	16	0.7	17.1	13.6	17.5	23.5	985
	19	0.7	17.1	13.6	17.5	24.7	1123
	24	0.7	14.9	11.9	15.5	28.6	1391
	30	0.7	12.8	10.2	13.6	30.2	1669
	37	0.7	12.8	10.2	13.6	32.9	2036

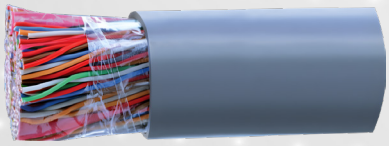
GOLDEN
CABLES

كابلات التليفونات

— TELEPHONE CABLES —

Control Cables

Non - Shielded Telephone Cables based on IEC 60189



Cable Description

Conductor	Solid annealed copper wire, plain or tinned according to IEC 60228 class 1.
Insulation	PVC (polyvinyl chloride) rated 70°C
Assembly	Two cores are twisted to form a pair, pairs assembled together depending on the cable construction. - For cables up to 10 pairs, pairs are assembled together directly in concentric layers. For cables more than 10 pairs and less than 30 pairs, pairs are grouped into units of 5 pairs. - For cables from 30 to 100 pairs, pairs are grouped into units of 10 pairs. Each of the above mentioned units are identified with identification tapes.
Color code	According to IEC60189 for the above mentioned construction.
Outer sheath	Flame Retardant polyvinyl chloride 70°C, grey color, or upon request.
Temperature rating	-5°C up to +70°C during operation
Marking	Inkjet marking (= GOLDEN CABLES =TEL NO. OF PAIRS X SIZE MFG. YEAR)
Packing	Wooden drums, or air coils for up to 10 pairs. Other packing types could be aranged upon request

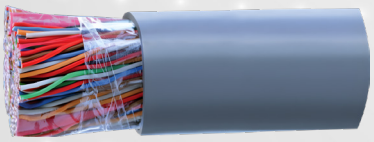
Application

For indoor installations and interconnection of transmission, telephone, telegraph and electronic equipment. For outdoor applications armored and jelly filled cables are also available.

Nominal conductor diameter (mm)	No. Of Pairs	Minimum insulation thickness (mm)	Minimum outer sheath hickness (mm)	.Approx Overall Diameter (mm)	Approx Overall Weight (Kg / Km)
.6	1	0.15	0.40	3.2	13
	2	0.15	0.40	4.4	23
	3	0.15	0.50	4.85	32
	4	0.15	0.50	5.3	40
	5	0.15	0.60	6.0	51
	6	0.15	0.60	6.05	59
	8	0.15	0.70	7.01	77
	10	0.15	0.70	8.0	93
	15	0.15	0.80	9.04	138
	20	0.15	0.80	10.57	177
	25	0.15	0.90	11.08	220
	30	0.15	0.90	12.73	258
	40	0.15	0.90	14.38	332
	50	0.15	0.90	15.97	413
	60	0.15	1.00	17.48	494
	80	0.15	1.00	19.08	638
	100	0.15	1.15	22.24	804
	150	0.15	1.15	26.67	1174
	200	0.15	1.35	30.08	1540
	250	0.15	1.35	34.09	1898
	300	0.15	1.60	37.65	2296

Control Cables

Shielded Telephone Cables based on IEC 60189



Conductor	Solid annealed copper wire, plain or tinned according to IEC 60228 class 1.
Insulation	PVC (polyvinyl chloride) rated 70°C
Assembly	Two cores are twisted to form a pair, pairs are then assembled or grouped together depending on the cable. - For cables up to 10 pairs, pairs are assembled together directly in concentric layers. For cables more than 10 pairs and less than 30 pairs, pairs are grouped into units of 5 pairs. - For cables from 30 to 100 pairs, pairs are grouped into units of 10 pairs. Each of the above mentioned units are identified with identification tapes.
Color code	According to IEC60189 for the above mentioned construction.
Metalic Shield	Aluminum polyester tape wrapped over the assembled cable.
Outer Sheath	Flame Retardant polyvinyl chloride 70°C, grey color, or upon request.
Bending radius	8 x d (d = overall diameter)
Temperature Rating	-5°C up to +70°C during operation
Marking	Inkjet marking (=GOLDEN CABLES=TEL NO. OF PAIRS X SIZE MFG. YEAR)
Packing	Wooden drums, or air coils for up to 10 pairs. Other packing types could be arranged upon request.

Application

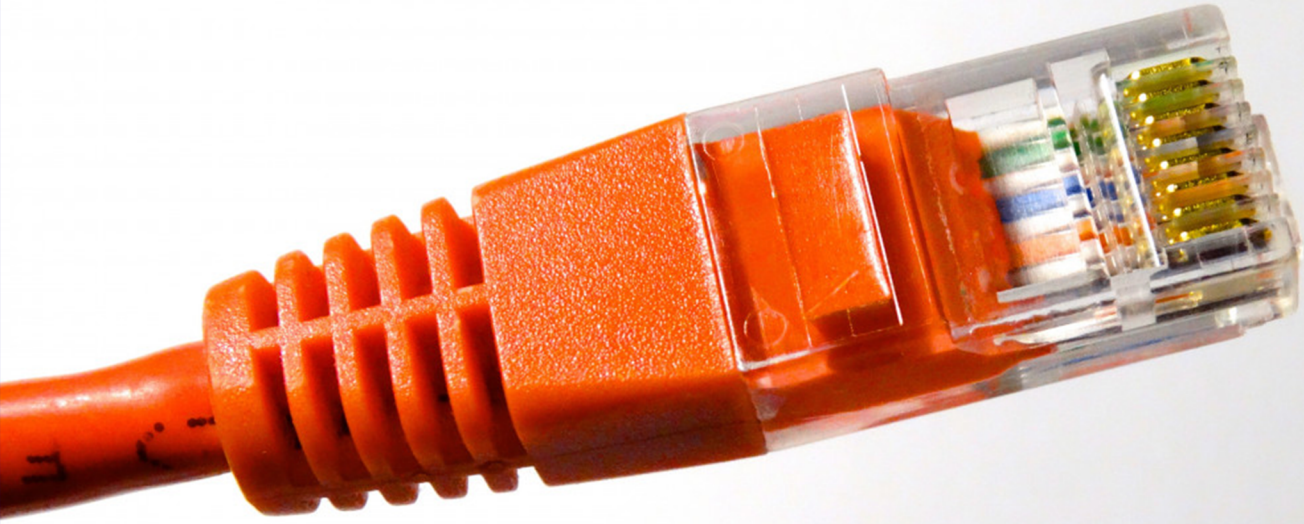
For indoor installations and interconnection of transmission, telephone, telegraph and electronic equipment.
For outdoor applications armored and jelly filled cables are also available.

Nominal conductor diameter (mm)	No. Of Pairs	Minimum insulation thickness (mm)	Minimum outer sheath hickness (mm)	.Approx Overall Diameter (mm)	Approx Overall Weight (Kg / Km)
.6	1	0.15	0.40	3.14	15
	2	0.15	0.40	4.54	26
	3	0.15	0.50	4.99	35
	4	0.15	0.50	5.44	43
	5	0.15	0.60	6.14	55
	6	0.15	0.60	6.64	63
	8	0.15	0.70	7.24	81
	10	0.15	0.70	8.14	98
	15	0.15	0.80	9.49	142
	20	0.15	0.80	10.66	181
	25	0.15	0.90	11.89	225
	30	0.15	0.90	12.82	263
	40	0.15	0.90	14.47	337
	50	0.15	0.90	16.07	419
	60	0.15	1.00	17.57	501
	80	0.15	1.00	19.89	645
	100	0.15	1.15	33-22	813
	150	0.15	1015	26.76	1181
	200	0.15	1.35	30.89	1552
	250	0.15	1.35	34.18	1910
	300	0.15	1.60	37.65	2309

GOLDEN
CABLES

كابلات اللإنترنت

INTERNET CABLES



Internet Cables

Cat 5e (FTP)

CATEGORY 5E FTP 4X2X24 AWG

ANSI/TIA-568 C.2 Category SE, According to EN 3-50288 and ISO/IEC 2-11801nd Edition, 125 MHZ

Cables Structure

Conductor	Φ 0.51 mm copper conductor
Insulation	Polyethylene
Assembly	Cores are twisted in pairs, all pairs assembled together and binded with polyester tape
Screen	AL/PET foil Screen in contact with a tinned copper drain wire
Sheath	PVC Grey color
Overall radius	6.3 mm
Weight	43.0 Kg / Km
Standard Packing	100 m/Coil, 305 m/box, 1000 m/drum

Technical Data

Impedance	0 15 ± 100
Mutual Capacitance	50 pF/m
Conductor Resistance	Maχ. 940/Km
Resistance Unbalance	Max. %2
Insulation Resistance	5000 MΩ/Km
Test Voltage	Max. 1200 V
Operating Temperature	Up To + 80 C
Min. Bending Radius	8XD
Nominal Velocity	66%

Application

It is used for data communications in local area networks for bandwidths up to 125 MHz where additional protection from unwanted interference is required

Frequency (MHz)	Attenuation (dB/100m) Max	Near-End cross talk (NEXT) Loss Min. (dB)	PS Near-End cross talk (PSNEXT) Loss Min.(dB)	Equal Level Far-End Crosstalk (ELFEXT) Min. (dB/100m)	PS Equal Level Far-End Crosstalk (PSELFEXT) Min (dB/100m)	Structural return Loss (SRL) Min (dB)
1	2	65.3	62.3	63.8	60.8	23
4	4.1	56.3	53.3	51.8	48.8	23
8	5.8	51.8	48.8	45.7	42.7	23
10	6.5	50.3	47.3	43.8	40.8	23
16	8.2	47.2	44.2	39.7	36.7	23
20	9.3	45.8	42.8	37.8	34.8	23
25	10.4	44.3	41.3	35.8	32.8	22
31.25	11.7	42.9	39.9	33.9	30.9	21
62.5	17	38.4	35.4	27.9	24.9	18
100	22	35.3	32.3	23.8	20.8	16

Internet Cables

Cat 5e (UTP)

CATEGORY 5E UTP 4X2X24 AWG

ANSI/TIA-568 C.2 Category SE According to EN 3-50288 and ISO/IEC 2-11801nd Edition, 125 MHZ

Cables Structure

Conductor	0.51 mm copper conductor
Insulation	Polyethylene
Assembly	Cores are twisted in pairs, and all pairs assembled together
Sheath	PVC Grey color
Overall radius	5.3 mm
Weight	31.0 Kg/Km
Standard Packing	100 m/Coil, 305 m/box, 1000 m/drum

Technical Data

Impedance	150±100
Mutual Capacitance	50 pF/m
Conductor Resistance	Max. 94 Q/Km
Resistance Unbalance	Max. %2
Insulation Resistance	5000MΩ/Km
Test Voltage	Max. 1200 V
Operating Temperature	Up To + 80 C
Min. Bending Radius	BXD
Nominal Velocity	66 %

Application

It is used for data communications in local area networks for bandwidths up to 125 MHz

Frequency (MHz)	Attenuation (dB/100m) Max	Near-End cross talk (NEXT) Loss Min. (dB)	PS Near-End cross talk (PSNEXT) Loss Min.(dB)	Equal Level Far-End Crosstalk (ELFEXT) Min. (dB/100m)	PS Equal Level Far-End Crosstalk (PSELFEXT) Min (dB/100m)	Structural return Loss (SRL) Min (dB)
1	2	65.3	62.3	63.8	60.8	23
4	4.1	56.3	53.3	51.8	48.8	23
8	5.8	51.8	48.8	45.7	42.7	23
10	6.5	50.3	47.3	43.8	40.8	23
16	8.2	47.2	44.2	39.7	36.7	23
20	9.3	45.8	42.8	37.8	34.8	23
25	10.4	44.3	41.3	35.8	32.8	22
31.25	11.7	42.9	39.9	33.9	30.9	21
62.5	17	38.4	35.4	27.9	24.9	18
100	22	35.3	32.3	23.8	20.8	16

Internet Cables

Cat 6 (UTP)
CATEGORY 6 UTP 4X2X23 AWG

ANSI/TIA-568 C.2 category-6. According to EN 3-50288 and ISO/IEC 2-11801nd Edition, 250 MHZ

Cables Structure

Conductor	0.57 mm copper conductor
Insulation	Polyethylene
Assembly	Cores are twisted in pairs, and all pairs assembled together with star shaped separator
Sheath	PVC Grey color
Overall radius	6.0 mm
Weight	44.0 Kg/Km
Standard Packing	100 m/Coil, 305 m/box, 1000 m/drum

Technical Data

Characteristic Impedance (250-1 MHz)	180±100
Mutual Capacitance	50 pF/m
Conductor Resistance	Max. 940/Km
Resistance Unbalance	Max. %2
Insulation Resistance	5000 MQ/Km
Test Voltage	Max. 1200 V
Operating Temperature	Up To + 80 C
Min. Bending Radius	BXD
Nominal Velocity	66 %

Application

It is used for data communications in local area networks for bandwidths up to 250 MHz

Frequency (MHz)	Attenuation (dB/100m) Max	Near-End cross talk (NEXT) Loss Min. (dB)	PS Near-End cross talk (PSNEXT) Loss Min.(dB)	Equal Level Far-End Crosstalk (ELFEXT) Min. (dB/100m)	PS Equal Level Far-End Crosstalk (PSELFEXT) Min (dB/100m)	Structural return Loss (SRL) Min (dB)
1	2	74.3	72.3	67.8	64.8	20
4	3.8	65.3	63.3	55.8	52.8	23
8	5.3	60.8	58.8	49.7	46.7	24.5
10	6.0	59.3	57.3	47.8	44.8	25
16	7.6	56.2	54.2	43.7	40.7	25
20	8.5	54.8	52.8	41.8	38.8	24.3
25	9.5	53.3	51.3	39.8	36.8	23.6
31.25	10.7	51.9	49.9	37.9	34.9	21.5
62.5	15.4	47.4	45.4	31.9	28.9	20.1
100	19.8	44.3	42.3	27.8	24.8	18
200	29	39.8	37.8	21.8	18.8	17.3
250	32.8	38.3	36.3	19.8	16.8	16.4

GOLDEN
CABLES

أســـلاك دش وإشـــارة

– COAXIAL WIRES AND SIGNAL–

Coaxial Cables

C80

Based on GOLDEN CABLES Internal Specifications

Cables Construction

Consists of Bare Soft Annealed Copper conductor coated with Foamed Polyethylene dielectric, wrapped with a woven layer of Braided Bare Copper wires and finally sheathed with Polyvinyl Chloride.

Cables Structure

Inner Conductor	Solid Copper Wire, Bare, Nominal Diameter 1.0 mm.
Insulation	Foamed Polyethylene, Nominal Diameter 4.50 mm.
Metallic screen	Bare Copper Braid providing %55 Optical Coverage
Approximate Overall Diameter	6.15 mm
Outer Sheath Material	Flame Retardant PVC
Outer Sheath Color	Black, or White (Other Colours available)
Outer Sheath Marking	GOLDEN CABLES = EGYPT 75 OHM C80 COAXIAL
Approximate Cable Weight	39 Kg/Km
Delivery Length	100 m Coils in Carton Boxes (Other lengths can be arranged)

Electrical properties at 20 °C

Max operating Temperature	°C	75
Characteristic Impedance (Nominal)	Ω	75
Velocity of Propagation (Nominal)	%	75
Capacitance (Nominal)	pF/m	56
DC Resistance (Maximum)		
Inner conductor	Ω/km	22
Outer conductor	Ω/km	27

Application

Suitable for Video Signaling, Digital Communication and Power Limited Applications

Attenuation

MHz	50	100	200	400	700	900	1000
db / 100m (Max)	7	9	12	17	22	25	26.5

Coaxial Cables

CF160

Based on GOLDEN CABLES Internal Specifications

Cables Construction

Consists of Bare Soft Annealed Copper conductor coated with Foamed Polyethylene dielectric, wrapped with Aluminum / Polyester Screen followed by a woven layer of Braided Copper wires and finally sheathed with Polyvinyl Chloride.

Cables Structure

Inner Conductor	Solid Copper Wire, Bare, Nominal Diameter 1.0 mm.
Insulation	Foamed Polyethylene, Nominal Diameter 4.50 mm.
Metallic screen	Aluminum/Polyester Screen providing %100 Optical coverage in contact with Bare Copper braid providing 55
Approximate Overall Diameter	Optical coverage 6.25 mm
Outer Sheath Material	Flame Retardant PVC
Outer Sheath Color	Black, or White (Other Colours available)
Outer Sheath Marking	= GOLDEN CABLES EGYPT 75 OHM CF160 COAXIAL
Approximate Cable Weight	40 Kg/Km
Delivery Length	100 m Coils in Carton Boxes (Other lengths can be arranged)

Electrical properties at 20 °C

Max operating Temperature	°C	75
Characteristic Impedance (Nominal)	Ω	75
Velocity of Propagation (Nominal)	%	75
Capacitance (Nominal)	pF/m	56
DC Resistance (Maximum)		
Inner conductor	Ω/km	22
Outer conductor	Ω/km	27

Application

Suitable for Video Signaling, Digital Communication and Power Limited Applications

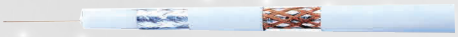
Attenuation

MHz	50	100	200	400	700	900	1000
db / 100m (Max)	7	9	12	17	22	25	26.5

Coaxial Cables

RG6

Based on Mil-C-2/17A



Cables Construction

Consists of Bare Soft Annealed Copper conductor coated with Foamed Polyethylene dielectric, wrapped with Aluminum / Polyester Screen and then followed a woven layer of Braided Tinned Copper wires and finally sheathed with Polyvinyl Chloride.

Cables Structure

Inner Conductor	Solid Copper Wire, Bare, Nominal Diameter 1.0 mm.
Insulation	Foamed Polyethylene, Nominal Diameter 4.50 mm.
Metallic screen	Aluminurn / Polyester Screen providing %100 Optical coverage in contac with Tinned Copper braid providing 66 Optical coverage
Approximate Overall Diameter	6.40 mm
Outer Sheath Material	Flame Retardant PVC
Outer Sheath Color	Black, or White (Other Colours available)
Outer Sheath Marking	= GOLDEN CABLES EGYPT 75 OHM RG6 TYPE COAXIAL
Approximate Cable Weight	47 Kg/Km
Delivery Length	100 m Coils in Carton Boxes (Other lengths can be arranged)

Electrical properties at 20 °C

Max operating Temperature	°C	75
Characteristic Impedance (Nominal)	Ω	75
Velocity of Propagation (Nominal)	%	75
Capacitance (Nominal)	pF/m	56
DC Resistance (Maximum)		
Inner conductor	Ω/km	22
Outer conductor	Ω/km	12.7

Application

Suitable for Video Signaling, Digital Communication and Power Limited Applications

Attenuation

MHz	50	100	200	400	700	900	1000
db / 100m (Max)	7	9	12	17	22	25	26.5

Coaxial Cables

RG11

Based on Mil-C-6/17B

Cables Construction

Consists of Bare Soft Annealed Copper conductor coated with Foamed Polyethylene dielectric, wrapped with Aluminum/Polyester Screen and followed by a woven layer of Braided Tinned Copper wires and final ly sheathed with Polyvinyl Chloride.

Cables Structure

Inner Conductor	Solid Copper Wire, Bare, Nominal Diameter 1.63 mm.
Insulation	Foamed Polyethylene, Nominal Diameter 7.25 mm.
Metallic screen	Aluminum/Polyester Screen providing %100 Optical coveragein contact with Tinned Copper Braid providing60 Optical coverage
Approximate Overall Diameter	10.20 mm
Outer Sheath Material	Flame Retardant PVC
Outer Sheath Color	Black, or White | Other Colors available)
Outer Sheath Marking	= GOLDEN CABLES EGYPT 75 OHM RG11 TYPE ARM COAXIAL
Approximate Cable Weight	110 Kg/Km
Delivery Length	100 m Coils in Carton Boxes (Other lengths can be arranged)

Electrical properties at 20 °C

Max operating Temperature	°C	75
Characteristic Impedance (Nominal)	Ω	75
Velocity of Propagation (Nominal)	%	75
Capacitance (Nominal)	pF/m	53.7
DC Resistance (Maximum)		
Inner conductor	Ω/km	9.7
Outer conductor	Ω/km	9

Application

Suitable for Video Signaling, Digital Communication and Power Limited Applications

Attenuation

MHz	50	100	200	400	700	900	1000
db / 100m (Max)	4.3	7.9	10.2	14	15.6	20.6	22.2

Coaxial Cables

RG58

Based on Mil-C-028/17

Cables Construction

Consists of a flexible Soft Annealed linned copper conductor coated with Solid Polyethylene dielectric, surrounded by a woven layer of Braided Tinned Copper wires and finally sheathed with Polyvinyl Chloride.

Cables Structure

Inner Conductor	Flexible Copper Wire. Tinned, 19 x 0.18 mm.
Insulation	Solid Polyethylene, Nominal Diameter 2.95 mm.
Outer Conductor	Tinned Copper Braid providing %96 Optical Coverage
Approximate Overall Diameter	4.91 mm
Outer Sheath Material	Flame Retardant PVC
Outer Sheath Color	Black, or White (Other Colors available)
Outer Sheath Marking	=GOLDEN CABLES EGYPT CO-AXIAL RG58 TYPE 50 OHM
Approximate Cable Weight	37.5 Kg/Km
Delivery Length	100 m Coils in Carton Boxes (Other lengths can be arranged)

Electrical properties at 20 °C

Max operating Temperature	°C	75
Characteristic Impedance (Nominal)	Ω	50
Velocity of Propagation (Nominal)	%	66
Capacitance (Nominal)	pF/m	101
DC Resistance (Maximum)		
Inner conductor	Ω/km	38
Outer conductor	Ω/km	12

Application

Suitable for the Interconnection of Telecommunication Transmission Equipment

Attenuation

MHz	50	100	200	400	700	900
db / 100m (Max)	10.8	16.1	23.9	37.7	55.8	65.8

Coaxial Cables

RG 59 (Solid PE)

Based on Mil-C-29/17C

Cables Construction

Corisists of Bare Soft Annealed Copper conductor coated with Solid Polyethylene dielectric, wrapped with Aluminum/Polyester Screen and then surrounded by a woven layer of Braided Tinned Copper wires and finally sheathed with Polyvinyl Chloride

Cables Structure

Inner Conductor	Solid Copper Wire, Bare, Nominal Diameter 0.59 mm.
Insulation	Solid Polyethylene, Nominal Diameter 3.70 mm.
Metallic screen	Aluminum/Polyester Screen providing %100 Optical Coverage in contact with Tinned Copper Braid providing %95 Optical Coverage.
Approximate Overall Diameter	6.30 mm.
Outer Sheath Material	Flame Retardant PVC
Outer Sheath Color	Black, or White (Other Colors available)
Outer Sheath Marking	=GOLDEN CABLES = EGYPT 75 OHM RG59 TYPE COAXIAL
Approximate Cable Weight	65 Kg/Km
Delivery Length	100 mCoils in Carton Boxes (Other lengths can be arranged)

Electrical properties at 20 °C

Max operating Temperature	°C	75
Characteristic Impedance (Nominal	Ω	75
Velocity of Propagation (Nominal)	%	64
Capacitance (Nominal)	pF/m	64
DC Resistance (Maximum)		
Inner conductor	Ω/km	65
Outer conductor	Ω/km	8

Application

Suitable for Video Signaling. Digital Communication and Power Limited Applications

Attenuation

MHz	50	100	200	400	700	900	1000
db / 100m (Max)	7.87	11.15	16.07	22.96	31.82	36.41	39.36

Coaxial Cables

RG 59 (Foamed PE)

Based on Mil-C-29/17C

Cables Construction

Consists of Bare Soft Annealed Copper conductor coated with Foamed Polyethylene dielectric, wrapped with Aluminum/Polyester Screen and then surrounded by a woven layer of Braided Tinned Copper wires and finally sheathed with polyethylene chloride

Cables Structure

Inner Conductor	Solid Copper Wire, Bare, Nominal Diameter 0.81 mm.
Insulation	Foamed polyethylene, Nominal Diameter 3.70 mm.
Metallic screen	Aluminum/Polyester Screen providing %100 Optical Coverage in contact with Tinned Copper Braid providing %61 Optical Coverage.
Approximate Overall Diameter	6.20 mm
Outer Sheath Material	Flame Retardant PVC
Outer Sheath Color	Black, or White (Other Colors available)
Outer Sheath Marking	= GOLDEN CABLES EGYPT 75 OHM RG59 TYPE COAXIAL
Approximate Cable Weight	50 Kg/Km
Delivery Length	100 m Coils in Carton Boxes (Other lengths can be arranged)

Electrical properties at 20 °C

Max operating Temperature	°C	75
Characteristic Impedance (Nominal)	Ω	75
Velocity of Propagation (Nominal)	%	75
Capacitance (Nominal)	pF/m	57
DC Resistance (Maximum)		
Inner conductor	Ω/km	36
Outer conductor	Ω/km	16

Application

Suitable for low power video signaling and RF signed connection

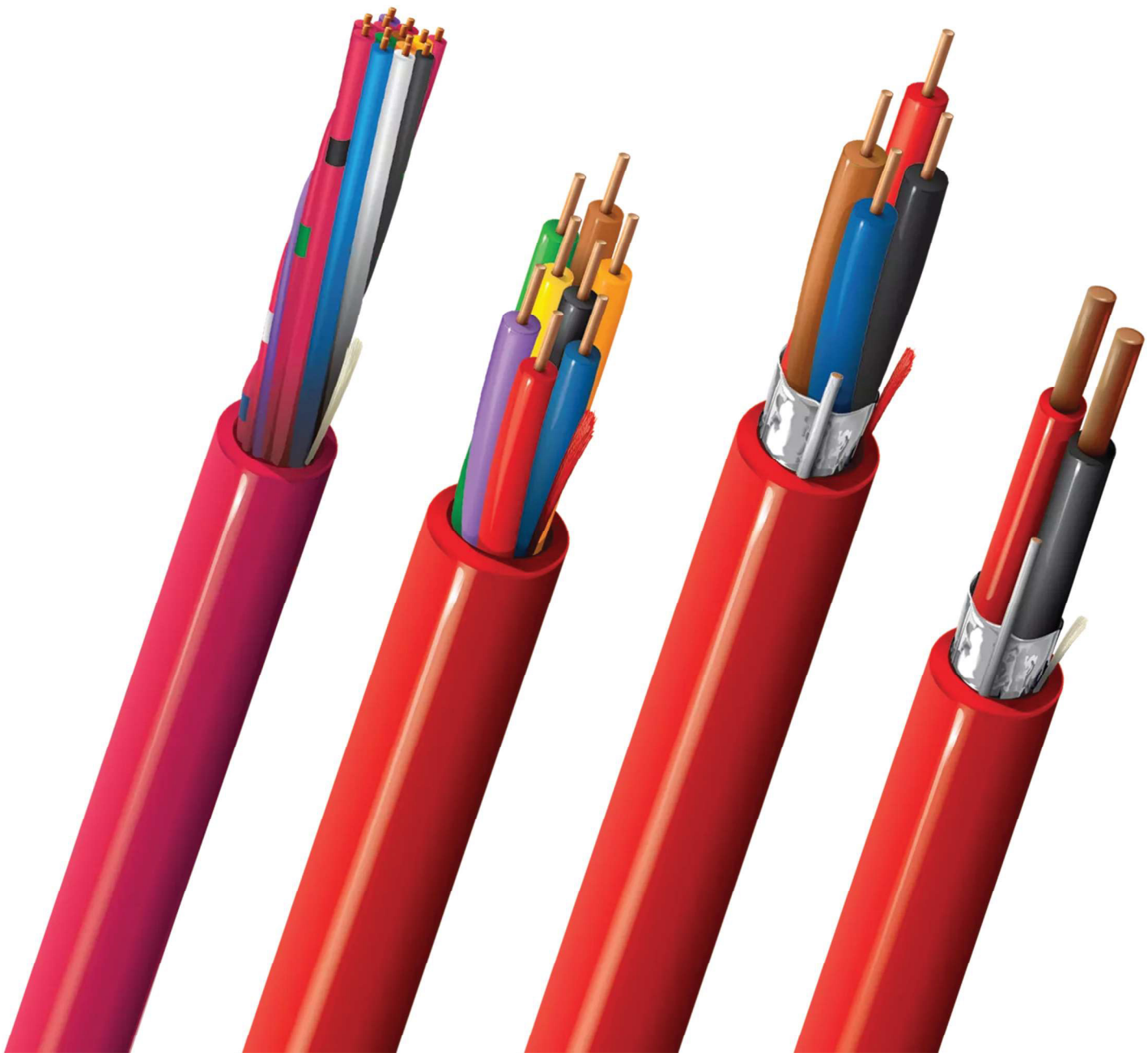
Attenuation

MHz	50	100	200	400	800	1000
db / 100m (Max)	8	10	14.5	20	25	28

GOLDEN
CABLES

كابلات إنذار الحريق

FIRE ALARM CABLES



Fire alarm cables & Fire resistant cables

Fire resistant cables: are used when the cables are required to keep circuit integrity and continue to operate in the presence of a fire for a specified time under defined conditions, these cables are called fire resistant cables. The cables are tested based on the following standards:

Fire resistant cables: are used when the cables are required to keep circuit integrity and continue to operate in the presence of a fire for a specified time under defined conditions, these cables are called ire resistant cables. The cables are tested based on the following standards:

BS6387 Fire Resistance Test
The test method given in this British Standard consists of three component Protocols, designated C, W and Z.
When separate test pieces from the same sample of cable are tested to each of these three protocols, these together comprise the full test. When the requirements of each one of the protocols are met, the cable may be designated as "category CWZ".
It details the following methods to categorize the cables according to cable withstand capacities.

Resistance to fire alone:

Protocol C: subjects the cable under test to a flame via direct impingement corresponding to a temperature attack of 950 °C ±40 °C for 3 hours.

Resistance to fire with water:

Category W: Cables are subjected to fire at 650°C+40 °C for 15 minutes, then at 650°C with water spray for a further 15 minutes.

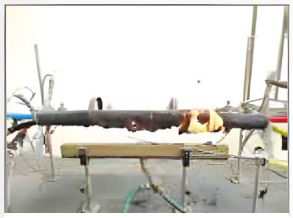
Resistance to fire with mechanical shock:

Protocol Z: subjects the cable under test to a flame via direct impingement corresponding to a temperature attack of 950 °C ±40 °C for 15 min. with indirect application of mechanical shock.
"Product standards might refer to only one of the protocols C or W or Z,but, in such cases, may not use the designation Category CWZ".

Fire alarm cables

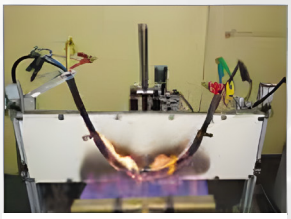
	Fire Guard 1000 Plus®	Fire Guard 1000	Fire Guard %100
Standards	BS 7846-F120 BS 8519 BS 8491	BS 7846-F2 BS 50200 BS 6387-CWZ BS 2-8434	BS 6387-CWZ BS 50200 BS 2-8434
Approval	LPCB approved and listed in red book		
Bending Radius	6 x Dcable (Round conductors) - 8 x Dcable (shaped condcutors)		4 x Dcable (Dca <= 8mm) 6 x Dcable (Dca > 8mm)
Temperature range	- 25 to 90 °C		
Mechanical impact	Very Good	Very Good	Requires protection
Flame propagation	BS EN 24-3-60332	IEC 2-1-60332	IEC 2-1-60332
Flexibility	Rigid	Rigid	Semi Flexible
Halogen Free	EN 1-60754		
Low corrosive gas		EN 2-60754	
Low smoke emission	BS EN 2-61043	BS 7846	BS EN 2-61043
Light Transmittance	over %70		over %60

Fire Resistant Testing Facilities

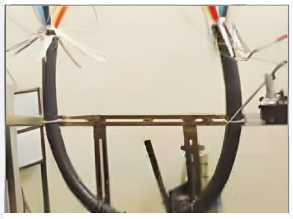


Category "C"

Category "W"

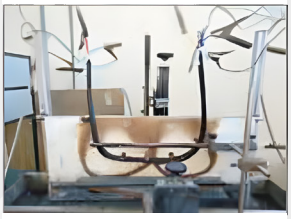


Category "Z"



Category "F-120"

Category PH-120 with water



Category "PH-120"

Flame Test BS 1-60332

Flame Test BS EN 3-60332

Smoke Density test BS EN 61034

Fire alarm cables

Fire Alarm Solid

Solid Fire Alarm Cables 500 V Un screened Multi-Core cables to BS EN 7-50288

Conductor	Plain annealed solid copper
Core Insulation	PVC (Polyvinyl chloride) 105°C
Color coding	Two Cores: Red, Black Three Cores: Red, Yellow, Blue Four Cores: Red, Yellow, Blue, Black
Assembly	Cores twisted together to form round cable.
Outer Sheath	PVC (Polyvinyl chloride)
Cable Marking	= GOLDEN CABLES, Size, Cable short description, Voltage, manufacturing year meter marking

Application

These cables are used for communication and signaling in fire alarm systems.

No. of cores	Nominal Cross sectional area (mm2)	Nominal Thickness of Insulation (mm)	Approx. Overall Diameter (mm)	Approx. Net Weight (kg / k m)
2	1.00	0.44	6.29	53.07
3			6.64	67.94
4			7.22	83.82
2	1.50	0.44	6.73	63.89
3			7.12	83.32
4			7.95	107.75

Fire alarm cables

Fire Alarm Flexible

Flexible Fire Alarm Cables 500 V UN screened Multi-Core cables to BS EN 7-50288

Conductor	Plain annealed flexible copper
Core Insulation	PVC (Polyvinyl chloride) 105°C
Color coding	Two Cores: Red, Black Three Cores: Red, Yellow, Blue Four Cores: Red, Yellow, Blue, Black
Assembly	Cores twisted together to form round cable.
Outer Sheath	PVC (Polyvinyl chloride)
Cable Marking	= GOLDEN CABLES, Size, Cable short description, Voltage, manufacturing year, meter marking

Application

These cables are used for communication and signaling in fire alarm systems.

No. of cores	Nominal Cross sectional area (mm2)	Nominal Thickness of Insulation (mm)	Approx. Overall Diameter (mm)	Approx. Net Weight (kg / k m)
2	1.00	0.44	6.53	53.03
3			6.9	67.82
4			7.51	83.41
2	1.50	0.44	7.09	65.63
3			7.51	85.25
4			8.39	110.16

Fire alarm cables

Fire Alarm Stranded

Stranded Fire Alarm Cables 500 V
Multi-Core cables to BS EN 7-50288

Conductor	Plain annealed stranded copper PVC (Polyvinyl chloride) 105°C
Core Insulation	Two Cores: Red, Black
Color coding	Three Cores: Red, Yellow, Blue
	Four Cores: Red, Yellow, Blue, Black
	Cores twisted together to form round cable.
Assembly	PVC (Polyvinyl chloride)
Outer Sheath	= GOLDEN CABLES, Size, Cable short description, Voltage, manufacturing year
Cable Marking	, meter marking

Application

These cables are used for communication and signaling in fire alarm systems.

No. of cores	Nominal Cross sectional area (mm2)	Nominal Thickness of Insulation (mm)	Approx. Overall Diameter (mm)	Approx. Net Weight (kg / k m)
2	1.00	0.44	6.61	56.58
3			6.99	72.6
4			7.6	89.7
2	1.50	0.44	7.15	69.31
3			7.57	90.63
4			8.46	117.3

Fire alarm cables

Fire Alarm Stranded

Stranded Fire Alarm Cables 500 V Screened Multi-Core cables to BS EN 7-50288

Conductor	Plain annealed stranded copper PVC (Polyvinyl chloride) 105°C
Core Insulation	Two Cores: Red, Black
Color coding	Three Cores: Red, Yellow, Blue
Assembly	Four Cores: Red, Yellow, Blue, Black
	Cores twisted together to form round cable.
Collective Screen	Aluminum / PET tape in contact with tinned copper drain wire
Outer Sheath	PVC (Polyvinyl chloride)
Cable Marking	= GOLDEN CABLES, Size, Cable short description, Voltage, manufacturing year meter marking

Application

These cables are used for communication and signaling in fire alarm systems.

No. of cores	Nominal Cross sectional area (mm2)	Nominal Thickness of Insulation (mm)	Approx. Overall Diameter (mm)	Approx. Net Weight (kg / k m)
2	1.00	0.44	6.75	62.7
3			7.15	80.75
4			7.75	100.3
2	1.50	0.44	7.3	75.5
3			7.71	99.2
4			8.6	128

Single Core - Cu/MICA/LSOH

Fire Guard 100-LPCB
Single core with copper conductors to BS 6387

CABLE DESCRIPTION

Conductor
Plain annealed copper

Core Insulation
Flame barrier mica tape & LSOH

Insulation Color
as per customer request

Cable Marking
GODLEN CABLES, Size, Description, Voltage, Manufacturing Year

Operation Voltage
0.75/0.45 KV

APPLICATION

These cables are used in hazardous areas where safety and circuit integrity are highly required during fire conditions.

Single Core Cables, Fire Resistance Wires, With Stranded Copper Conductor Mica Glass Tape, and LSOH Insulated (FIRE GUARD 100)

Nominal Cross Sectional Area	Max. Conductor Resistance		Current Rating		Approximate over all Diameter	Approximate Weight
	DC at 20°C	DC at 90C	Air			
			Free air	Pipes		
mm²	Ω / km	Ω / km	A	A	mm	Kg / Km
1.5	1.5	1.5	1.5	1.5	1.5	1.5
2.5	2.5	2.5	2.5	2.5	2.5	2.5
4	4	4	4	4	4	4
6	6	6	6	6	6	6
10	10	10	10	10	10	10
16	16	16	16	16	16	16
25	25	25	25	25	25	25
35	35	35	35	35	35	35
50	50	50	50	50	50	50
70	70	70	70	70	70	70
95	95	95	95	95	95	95
120	120	120	120	120	120	120
150	150	150	150	150	150	150
185	185	185	185	185	185	185
240	240	240	240	240	240	240
300	300	300	300	300	300	300
400	400	400	400	400	400	400
500	500	500	500	500	500	500
630	630	630	630	630	630	630

Multi Core - Cu/MICA/XLPE/SWA/LSOH

Multi cores with copper conductors to BS 6387 & 7846

CABLE DESCRIPTION

Conductor: Plain annealed stranded copper
Core Insulation: Flame barrier Mica tapes & XLPE
Assembly: Cores are assembled together to form round cable
Inner Sheath: LSOH (Low Smoke Zero Halogen)
Armour: Single Layer of Steel Wire

Outer Sheath
LSOH (Low Smoke Zero Halogen)
Outer Sheath Color
Black
Cable Marking
GOLDEN CABLES, Size, Description, Voltage, Manufacturing Year
Operation Voltage
1/0.6 KV

APPLICATION

These cables are used in hazardous areas where safety and circuit integrity are highly required during fire conditions.

Multi Core Cables, Fire Resistance, With Stranded Copper Conductor Mica Glass Tape, XLPE Insulated Galvanized Steel Wire armoured and LSOH Sheathed (FIRE GUARD 1000)

Nominal Cross Sectional Area	Max. Conductor Resistance		Current Rating			Approximate over all Diameter	Approximate Weight
	DC at 20°C	DC at 90C	Air				
			Ground	Free air	Pipes		
mm²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
Two Cores							
1.5	12.1	15.429	33	24	26	14.1	310
2.5	7.41	9,449	43	31	35	15.5	370
4	4.61	5.878	56	41	46	16.5	425
6	3.08	3.927	71	52	59	17.7	490
10	1.83	2.334	93	69	79	19.1	605
16	1.15	1.467	121	90	105	21.8	885
25	0.727	0.927	187	139	161	24.4	1165
35	0.524	0.669	226	166	198	26.6	1605
50	0.387	0.494	274	198	240	26.2	1795
70	0.268	0.343	332	243	296	28.6	2260
95	0.193	0.247	402	297	369	32.9	3210
120	0.153	0.197	458	341	430	36.4	3820
150	0.124	0.160	512	385	488	39	4500
185	0.099	0.129	580	444	569	45.2	5750
240	0.075	0.100	667	515	666	49.3	7215
300	0.060	0.081	746	580	756	52.5	8560
400	0.047	0.065	839	662	868	58.4	10550

Fire resistant cables

كابلات مقاومة حريق

Nominal Cross Sectional Area	Max. Conductor Resistance		Current Rating			Approximate over all Diameter	Approximate Weight
	DC at 20°C	DC at 90C	Air				
			Ground	Free air	Pipes		
mm²	Ω / km	Ω / km	A	A	A	mm	Kg / Km
Three Cores							
1.5	12.1	15.429	33	24	26	14.7	345
2.5	7.41	9.449	43	31	35	16.2	420
4	4.61	5.878	56	41	46	17.3	490
6	3.08	3.927	71	52	59	18.6	585
10	1.83	2.334	93	69	79	20.8	850
16	1.15	1.467	121	90	105	23.1	1085
25	0.727	0.927	152	113	132	25.6	1665
35	0.524	0.669	183	137	162	28	2005
50	0.387	0.494	232	168	206	28.1	2340
70	0.268	0.343	286	209	262	32.4	3095
95	0.193	0.247	342	253	322	35.9	4315
120	0.153	0.197	390	290	375	39.1	5125
150	0.124	0.160	434	330	426	43.6	6505
185	0.099	0.129	490	375	490	47.6	7845
240	0.075	0.100	565	436	579	52.7	9770
300	0.060	0.081	634	496	663	57.6	11745
400	0.047	0.065	715	567	769	64.8	14635
Four Cores							
1.5	12.1	15.429	33	24	26	15.7	395
2.5	7.41	9.449	43	31	35	17.3	480
4	4.61	5.878	56	41	46	18.5	575
6	3.08	3.927	71	52	59	20.9	805
10	1.83	2.334	93	69	79	22.3	1000
16	1.15	1.467	121	90	105	24.9	1305
25	0.727	0.927	154	116	136	27.6	1990
35	0.524	0.669	185	140	166	30.5	2450
50	0.387	0.494	238	174	218	31.8	2970
70	0.268	0.343	293	218	277	36.9	4325
95	0.193	0.247	350	260	337	39.4	5395
120	0.153	0.197	397	301	393	44.9	6965
150	0.124	0.160	446	341	451	49.4	8300
185	0.099	0.129	503	390	521	54.2	10055
240	0.075	0.100	579	456	614	60.2	12590
300	0.060	0.081	649	513	702	65.8	15135
400	0.047	0.065	725	584	810	75.9	19925

GOLDEN
CABLES

كابلات السيارات

AUTMOTIVE CABLES

PVC insulation based on ISO 6722

Cables Structure

Conductor	Plain/tinned annealed copper
Insulation	PVC (polyvinyl chloride) basedon ISO 6722 class
Color code	A Color coded with or without stripes upon
Temperature rating	request 40°C up to +85°C
Packing	Cables are packed in carton boxes.

Application

This wire is used in the manufacture of electrical harnesses for cars and other automotive products.

Conductor			Nominal Insulation Thickness (mm)	Appro x. Overall Diameter mm	Approx Weight Kg / Km
Nominal Cross Sectional Area mm ^{2}	Nominal No. of wires x Max Wire Diameter (No. x mm)	Max Conductor DC Resistance at 20°C (Ohm/Km)			
0.5	16 x 0.21	37.1	0.6	2.3	9
0.75	24 x 0.21	24.7	0.6	2.5	12
1	32 x 0.21	18.5	0.6	2.7	15
1.5	30 x 0.26	12.7	0.6	3.0	20
2	28 x 0.31	9.42	0.6	3.3	26
2.5	50 x 0.26	7.6	0.7	3.6	32
3	44 x 0.31	6.15	0.7	4.1	37
4	56 x 0.31	4.71	0.8	4.4	49
6	84 x 0.31	3.14	0.8	5.0	68

Heat - Resistant PVC Insulation based on ISO 6722

Cables Structure

Conductor	Plain / tinned annealed copper
Insulation	Heat resistant PVC (polyvinyl chloride) based on ISO 6722 class B.
Color code	Color coded with or without stripes upon request
Temperature rating	-40°C up to +100°C

Application

This wire is used in the manufacture of electrical harnesses for cars and other automotive products.

Conductor			Nominal Insulation Thickness (mm)	Appro x. Overall Diameter mm	Approx Weight Kg / Km
Nominal Cross Sectional Area mm ^{2}	Nominal No. of wires x Max Wire Diameter (No. x mm)	Max Conductor DC Resistance at 20°C (Ohm/Km)			
0.5	16 x 0.21	37.1	0.6	2.3	6
0.75	24 x 0.21	24.7	0.6	2.5	11
1	32 x 0.21	18.5	0.6	2.7	14
1.5	30 x 0.26	12.7	0.6	3.0	19
2.5	50 x 0.26	7.6	0.7	3.6	31
4	56 x 0.31	4.71	0.8	4.4	49
6	84 x 0.31	3.14	0.8	5.0	68

Heat - Pressure resistant PVC Insulation based on ISO 6722

Cables Structure

Conductor	Plain / finned annealed copper
Insulation	Heat resistant PVC (polyvinyl chloride) based on ISO 6722 class C. (Hot pressure resistance test at 120°C)
Color code	Color coded with or without stripes upon request
Temperature rating	- 40°C up to + 120°C

Application

This wire is used in the manufacture of electrical harnesses for cars and other automotive products.

Conductor			Nominal Insulation Thickness (mm)	Appro x. Overall Diameter mm	Approx Weight Kg / Km
Nominal Cross Sectional Area mm ^{2}	Nominal No. of wires x Max Wire Diameter (No. x mm)	Max Conductor DC Resistance at 20°C (Ohm/Km)			
0.5	16 x 0.21	37.1	0.6	2.3	6
0.75	24 x 0.21	24.7	0.6	2.5	11
1	32 x 0.21	18.5	0.6	2.7	14
1.5	30 x 0.26	12.7	0.6	3.0	19
2.5	50 x 0.26	7.6	0.7	3.6	30
3	44 x 0.31	6.15	0.7	4.1	36

Concentric Conductors with PVC Insulation based on DIN 72551

Cables Structure

Conductor	Concentric stranded copper conductor based on DIN 72551, part 6, type A.
Insulation	PVC (polyvinyl chloride) based on DIN 72551, part 5.
Color code	Color coded with or without stripes upon request
Temperature rating	-40°C up to + 105°C

Application

This wire is used in the manufacture of electrical hamesses for cars and other automotive products.

Conductor			Nominal Insulation Thickness (mm)	Appro x. Overall Diameter mm	Approx Weight Kg / Km
Nominal Cross Sectional Area mm ^{2}	Nominal No. of wires x Max Wire Diameter (No. x mm)	Max Conductor DC Resistance at 20°C (Ohm/Km)			
0.35	7 x 0.26	52	0.2	1.3	4.5
2.5	19 x 0.19	37.1	0.22	1.6	6.6
0.75	19 x 0.23	24.7	0.24	1.9	9
1	19 x 0.26	18.5	0.24	2.1	11
1.5	19 x 0.32	12.7	0.24	2.4	16
2	19 x 0.37	9.42	0.24	2.6	22.5
2.5	19 x 0.41	7.6	0.28	3.0	26

PVC Thin Insulation based on DIN 72551

Cables Structure

Conductor	Concentric stranded copper conductor based on DIN 72551, part 6, type B.
Insulation	PVC (polyvinyl chloride) based on DIN 72551, part 5.
Color code	Color coded with or without stripes upon request
Temperature rating	- 40°C up to + 105°C

Application

This wire is used in the manufacture of electrical hamesses for cars and other automotive products.

Conductor			Nominal Insulation Thickness (mm)	Appro x. Overall Diameter mm	Approx Weight Kg / Km
Nominal Cross Sectional Area mm ^{2}	Nominal No. of wires x Max Wire Diameter (No. x mm)	Max Conductor DC Resistance at 20°C (Ohm/Km)			
0.35	7 x 0.26	52	0.2	1.3	4.5
2.5	19 x 0.19	37.1	0.22	1.6	6.6
0.75	19 x 0.23	24.7	0.24	1.9	9
1	19 x 0.26	18.5	0.24	2.1	11
1.5	19 x 0.32	12.7	0.24	2.4	16
2	19 x 0.37	9.42	0.24	2.6	22.5
2.5	19 x 0.41	7.6	0.28	3.0	26

GOLDEN
CABLES

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Golden For Cables

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