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ALBORZ CABLE Co.

Company Profile

Company profile:

Alborg Cable Company was established in 1978 and is amongst the leading cable manufacturers in Iran. Our corporation is the pioneer in producing medium voltage cables of up to 33kV and high voltage up to 132kV.

Our factory is located in the Alborg Industrial City and operating in 25,000 square meters of covered production and services space on land spanning 120,000 square meters.

Today, the production capacity of the factory is approximately 16,000 tons of copper and 4,000 tons of aluminum annually. Following the government's national development plan, and according to the needs of the country for high voltage cables, this company with the help of its experts has established high voltage lines of up to 132 kV with a gas curing method.

Alborg Cable Company has received ISO 9001:2000 certificates from TÜV in addition to the Iranian certificate of standard for medium and high voltage cables. In addition, we have received type test certificates from CSE (Italy) and KEMA (Netherlands) for different types of cables from 10kV up to 63kV and fire resistant, halogen free, low smoke test certificate too.

Alborg Cable Co. has a large share in the supplying of cables for important projects in Iran including:

- Oil and gas industries i.e., South Pars Project
- Petrochemical and refinery industries
- Cement industries
- Energy and electrical distribution network
- Steel and ore industry
- Metro and urban railway projects

Currently the products of Alborz Cable Co. are based on international standards of IEC, VDE, BS as well as the Institute of standards & industrial research of Iran (SIRI) and the client's application including:

- High voltage aluminum and copper cables up to 1200 mm² cross section and up to 132 kV
- Medium voltage cables up to 33kV
- Single core and multicore power cables with PVC, PE and XLPE insulation
- Control cables
- Instrument cables
- Armoured and non armoured cables
- Lead cover cables
- Silicon rubber cables
- Fire resistance and flame retardant cables
- Low smoke- halogen free cables
- Data & communication cables
- Self-supporting cables
- Special cables as per customer-order





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● Low Voltage Cable

Low Voltage Cable



Application:

These cables are being used both indoor and outdoor for delivering electrical power for a wide variety of uses such as utility lighting, at power stations, distributed network, and providing drive for electric motors.

Reference standards: IEC60303-1, VDE0271, BS6346, BS13549-1

Rated voltages (U₀/U): 300/500, 450/750, 600/1000, 1000/3000 V

Construction:

Conductor: Copper or aluminum according to IEC 60326, BS EN 60318, VDE 0395, DIN 3084
 Insulation: XLPE, PVC, PE, PTFE
 Screens: CWB, CWB, CTS, TCWB, BCR, OSCR
 Metallic layer: Lead sheath
 Armour: SWA, AWA, G SA, GA, SWB
 Outer sheath: PVC, PE, PVC-LS, LSHF

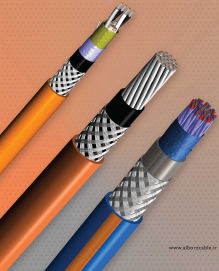
These products range from fire resistant, flame retardant, lead cover and armoured cables, low smoke, zero halogen, anti termites, sunlight resistance, oil and hydrocarbon resistant based on customer request.

Cable Type:		Low Voltage Cable				
Reference Standard:		IEC 60303				
Rated Voltage:		0.6/1.0/3.0 kV				
Description:		Cu/PVC/GWA/PVC				
Number of Cores and Cross Section	Insulation Thickness	Diameter Under Armour	Wire Armour Diameter	Outer Sheath Thickness	Overall Diameter	Cable Weight
mm ²	mm	Approx. mm	mm	mm	Approx. mm	Approx. kg/km
3 x 1.5 RM	0.8	8.8	1	15	1.8	411
3 x 2.5 RM	0.8	9.8	1	16	1.8	483
3 x 4 RM	1	11.8	1.25	18	1.8	691
3 x 6 RM	1	13.8	1.25	20	1.8	815
3 x 10 RM	1	16.0	1.25	23	1.8	1017
3 x 16 RM	1	18.4	1.25	23	1.8	1216
3 x 25 RM	1.2	19.9	1.4	27	1.8	1838
3 x 35 RM	1.2	22.0	1.4	1.8	29	2340
3 x 50 RM	1.4	22.7	1.4	2	30	2510
3 x 70 RM	1.4	26.9	2	2.1	35	3516
3 x 95 RM	1.4	28.7	2	2.3	39	4568
3 x 120 RM	1.4	30.1	2	2.4	41	5400
3 x 150 RM	1.8	36.3	2.5	2.5	47	6971
3 x 185 RM	2	38.9	2.5	2.7	51	8117
3 x 240 RM	2.2	45.1	2.5	2.9	57	10941
3 x 300 RM	2.4	52.4	2.5	3.1	65	12718

Cable Type		Low Voltage Power Cable					
Reference Standard		IEC 60502-1					
Rated Voltage		0.6/1.0 kV					
Description		Cu/PVC/SWA/PVC					
Number of Cores and Cross Section	Insulation Thickness	Lead Sheath Thickness	Diameter Under Armour	Wire Armour Diameter	Outer Sheath Thickness	Overall Diameter	Cable Weight
mm ²	mm	mm	Approx. mm	mm	mm	Approx. mm	Approx. kg/km
3 x 25 MM	1.2	1.2	24.69	1.6	1.9	32	3076
3 x 35 MM	1.2	1.3	27.04	2	2	34	3954
3 x 50 MM	1.4	1.4	27.88	2	2.2	37	4912
3 x 70 MM	1.4	1.5	31.27	2	2.3	40	5581
3 x 95 MM	1.6	1.7	35.78	2.5	2.5	47	7498
3 x 120 MM	1.6	1.7	38.24	2.5	2.6	49	8500
3 x 150 MM	1.8	1.9	41	2.8	2.8	55	10286
3 x 185 MM	2	2	46.66	2.5	2.9	59	12079
3 x 240 MM	2.2	2.2	52.75	2.6	3.2	66	15112
3 x 300 MM	2.4	2.3	60.69	2.15	3.4	75	19212
3 x 35 + 35 MM	1.2 & 1	1.3	26.12	1.6	2	34	3253
3 x 35 + 35 MM	1.2 & 1	1.3	27.95	2	2.1	37	4043
3 x 50 + 25 MM	1.4 & 1.2	1.5	32.04	2	2.2	40	5205
3 x 70 + 35 MM	1.4 & 1.2	1.6	34.28	2.5	2.4	47	6927
3 x 95 + 50 MM	1.6 & 1.4	1.7	41.04	2.5	2.6	52	8649
3 x 120 + 70 MM	1.6 & 1.4	1.8	43.44	2.8	2.7	55	10076
3 x 150 + 70 MM	1.8 & 1.4	1.9	48.24	2.5	2.9	60	11758
3 x 185 + 95 MM	2 & 1.6	2.1	52.64	2.8	3.1	66	14034
3 x 240 + 120 MM	2.2 & 1.6	2.3	58.64	2.15	3.2	75	18205
3 x 300 + 150 MM	2.4 & 1.8	2.4	64.64	2.15	3.4	79	21564

Also available with aluminum conductor, multi core, lead covered, shielded, armoured and/or different types of insulation and outer sheath.





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● Instrument Cable

Instrument Cable



Application:

Used to transmit and receive control systems as well as analogue and digital signals to and from sensors and equipment in different types of industries, especially within control circuits of power plants, petrochemical industry, train stations, airports, factories, hospital and hotels. In addition, these cables are used indoors, outdoors, underground and under oil and humidity conditions.

Instrument cables shall be isolated from external electrical interferences and should not be allowed for direct connection to low impedance earth.

Reference standards: IEC 60691, IEC 60502-1, IEC 60345, EN 85 50298, BS 5108, YDE 0258, YDE 0261

Rated voltages (U₀/U): 150/150, 180/180, 450/750, 600/1000 V

Construction:

Conductor: Tinned or plain annealed copper
Insulation: XLPE, PVC, PE, HFFR, SR,
Screen: CWB, CTS, TDWB, TDW + Alpac, ISCR,
OSCR

Metallic layer: Lead sheath

Armour: SWA, SWB

Outer sheath: PVC, PE, PVC-LS, LSHP

These products range includes fire resistant, flame retardant, lead cover and armoured cables, low Smoke, zero halogen, and terrazole, sunlight resistance, oil and hydrocarbon resistant based on customer request.

Cable Type:	Multi Pair Instrument Cable			
Reference Standard:	BS 1108			
Rated Voltage:	200/300 V			
Description:	Cu/XLPE/Pvc/TDWB/Alpac/Pvc/TDWB/Alpac/PVC			
Number of Pairs and Cross Section	Insulation Thickness	Outer Sheath Thickness	Overall Diameter	Cable Weight
$n \times 2 \times \text{mm}^2 + \text{Drain Wires}$	mm	mm	Approx. mm	Approx. kg/km
2 × 2 = 0.75 + 3 × 0.1	0.4	0.9	11	107
4 × 2 = 0.75 + 3 × 0.1	0.4	1	13	177
6 × 2 = 0.75 + 3 × 0.1	0.4	1.1	14	213
12 × 2 = 0.75 + 11 × 0.1	0.4	1.3	21	449
18 × 2 = 0.75 + 17 × 0.1	0.4	1.4	24	607
27 × 2 = 0.75 + 26 × 0.1	0.4	1.6	34	1027
3 × 2 = 1 + 3 × 0.5	0.4	0.9	12	119
4 × 2 = 1 + 3 × 0.5	0.4	1	14	158
6 × 2 = 1 + 3 × 0.5	0.4	1.1	17	208
12 × 2 = 1 + 13 × 0.5	0.4	1.4	23	347
18 × 2 = 1 + 17 × 0.5	0.4	1.4	28	495
27 × 2 = 1 + 26 × 0.5	0.4	1.6	34	829
3 × 2 = 1.5 + 3 × 0.5	0.4	1	13	110
4 × 2 = 1.5 + 3 × 0.5	0.4	1.1	15	148
6 × 2 = 1.5 + 3 × 0.5	0.4	1.2	16	174
12 × 2 = 1.5 + 13 × 0.5	0.4	1.4	23	320
18 × 2 = 1.5 + 17 × 0.5	0.4	1.5	26	410
27 × 2 = 1.5 + 26 × 0.5	0.4	1.6	40	768

Also available with multi pair/trial/quad, lead covered, individual and overall shield, IS and MS, armoured and different types of insulation and/or outer sheath.



Control Cable



Application:

Control cables are used mainly in electrical wiring, industrial and use in control and measurement of equipment's signal. They are often utilized to connect process control equipment, signaling, and industrial devices such as relaying, telemeasuring and measuring circuits for industrial plants. In addition, these cables are used as indoor, outdoor, underground and in conduit, under oil and humidity conditions.

Reference standards: IEC 60091, BS 5308, ENI BS 50266, IEC 60502
 Rated voltage (U₀/U): 1.5/3.0, 3.0/3.0, 6.0/10.0 V

Construction:

Conductor: Tinned or plain annealed copper
 Insulation: PVC, PE, XLPE, HFR, SR
 Screens: CWS, CWS, CTS, TCWS, TDW + Alpo
 Outer sheath: PVC, PE, PVC-LS, LS-F

These products range includes fire resistant, flame retardant, lead covered, and armoured cables, low smoke, zero halogen, and termites, sunlight resistance, oil and hydrocarbon resistant based on customer request.

Cable Type:		Retro Core-Cu steel Cable					
Reference Standard:		IEC 60502-1					
Rated Voltage:		500/1.0/3.0 V					
Description:		ControlCablePVC					
Number of Cores and Cross Section	Insulation Thickness	Diameter Under Armour	Wire Armour diameter	Cable Sheath Thickness	Cable Diameter	Cable Weight	
g x mm ²	mm	Approximate	mm	mm	Approximate	Approximate	
5 x 1.5 RE	0.7	8.3	1	1.8	14	451	
7 x 1.5 RE	0.7	10.4	1	1.8	17	581	
10 x 1.5 RE	0.7	13.1	1.25	1.8	20	716	
13 x 1.5 RE	0.7	15.7	1.25	1.8	23	768	
19 x 1.5 RE	0.7	18.0	1.25	1.8	24	788	
27 x 1.5 RE	0.7	19.1	1.6	1.8	26	1383	
37 x 1.5 RE	0.7	21.6	1.6	1.8	29	1603	
48 x 1.5 RE	0.7	24.8	1.6	1.9	31	2021	
61 x 1.5 RE	0.7	27.1	1	1	36	2636	
5 x 1.5 SH	0.7	10.0	1	1.8	14	481	
7 x 1.5 SH	0.7	11.0	1	1.8	17	521	
10 x 1.5 SH	0.7	13.9	1.25	1.8	21	751	
12 x 1.5 SH	0.7	14.4	1.25	1.8	21	813	
19 x 1.5 SH	0.7	16.9	1.25	1.8	23	1043	
27 x 1.5 SH	0.7	20.1	1.6	1.8	28	1463	
37 x 1.5 SH	0.7	21.6	1.6	1.8	30	1773	
48 x 1.5 SH	0.7	26.1	1.6	1.9	34	2147	
61 x 1.5 SH	0.7	28.9	1	1.1	38	2791	
5 x 2.5 RE	0.7	10.6	1	1.8	17	543	
7 x 2.5 RE	0.7	11.4	1.25	1.8	18	679	
10 x 2.5 RE	0.7	14.8	1.25	1.8	21	807	
12 x 2.5 RE	0.7	15.1	1.25	1.8	22	951	
19 x 2.5 RE	0.7	18.0	1.6	1.8	25	1371	
27 x 2.5 RE	0.7	21.7	1.6	1.8	29	1767	
37 x 2.5 RE	0.7	24.4	1.6	1.9	30	2167	
48 x 2.5 RE	0.7	28.1	1	1.1	37	2504	
61 x 2.5 RE	0.7	31.1	1	1.1	40	3471	
5 x 2.5 SH	0.7	11.1	1	1.8	17	579	
7 x 2.5 SH	0.7	12.1	1.25	1.8	19	711	
10 x 2.5 SH	0.7	15.7	1.25	1.8	22	927	
12 x 2.5 SH	0.7	16.1	1.25	1.8	22	1085	
19 x 2.5 SH	0.7	19.1	1.6	1.8	26	1429	
27 x 2.5 SH	0.7	22.1	1.6	1.8	30	1866	
37 x 2.5 SH	0.7	26.0	1.6	1.9	33	2383	
48 x 2.5 SH	0.7	30.1	1	1.1	39	3113	
61 x 2.5 SH	0.7	33.1	1	1.1	42	3686	

Also available with multi cores, lead covered, armoured and different types of insulation and/or outer sheath.



● Medium Voltage Cable

Alborg Cable Co. has been manufacturing medium voltage XLPE cables for more than 30 years.

Medium Voltage Cable



Application:

Medium voltage cables are suitable for use in wet or dry locations as well as for aerial, direct burial, conduit, open tray and underground duct installations.

Reference standards: IEC 60502-2, BS 6622, DIN 2569-2
Rated voltages (U₀/U): 3.6kV(7.2), 6/10(12), 8.7/15(17.3), 12/20(24), 18/30(36) and 19/30(36) kV

Construction:

The basic construction of medium voltage cables are stranded annealed copper or aluminum conductor, conductor screen, insulation, insulation screen, metallic shield screen, wire or tape armour and outer sheath.

Conductor: Stranded annealed copper or aluminum conductor according to IEC 60228, BS EN 60228, and DIN 2084.
Water blocking of the conductors can also be designed into products with the existence of water blocking yarn.

Conductor Screen: Conductor screen consist of non-metallic and an extruded semi-conductive compound, which may be applied on the semi-conductive tape based on the customer's request.

Insulation: The XLPE insulation is applied to the conductor screen in gas curing and cooling process under the nitrogen gas pressure in Catenary Continuous Vulcanizations (CCV).

Insulation screen: Insulation screen shall be consisting of non-metallic and an extruded semi-conductive compound.

Metallic layer:

- **Shield screen:** Consist of copper wire and open helically tape or copper tape screen engaged to perform the electrical earth fault current.

- **Lead sheath:** The lead sheath is impervious to moisture, petroleum fluids and gases. The lead cover is used to perform the mechanical functions and acts as a barrier to the entrance of hydrocarbons and protect cables against radial moisture entry. The lead sheath is also used for earth fault current, and this protection rate can be increased through the use of armour.

- **Aluminum Co-Polymer:** Applies corrugated aluminum laminated sheath and swellable material to protect radially and longitudinally water proof cables.

- **Armour:** SMA, AWA, ATA, GTA
Non ferromagnetic materials must be used in single core cables.

- **Outer sheath:** Outer sheath shall be extruded high temperature PVC (GTJ) type. The outer sheath is also available with a variety of new materials such as LDPE, HDPE, LSHF and low smoke, zero halogen, and ceramic, sunlight resistance, oil and hydrocarbon resistant based on customer request.

These products range includes flame retardant, lead cover and armoured cables, low smoke, zero halogen, and ceramic, sunlight resistance, oil and hydrocarbon resistant based on customer request.

Cable Type:		Medium Voltage Cable				
Reference Standard:		IEC 60502 - 2				
Rated Voltage:		10/20/24 kV				
Description:		Cu/Al/PUR/PE/SCT/VC/WS/BL - PVC/LS/BL - PVC/LS/VA/PVC				
No. of Cores and Cross Section	Insulation Thickness	Lead Thickness	Galvanized Steel Wire Diameter	Outer Sheath Thickness	Overall Diameter	Cable weight
n x mm ²	mm	mm	mm	mm	Approx. mm	Approx. kg/km
3 x 35/16 RM	5.5	2.3	2.8	3.3	74.9	13360
3 x 50/16 RM	5.5	2.3	3.15	3.4	79.4	15111
3 x 70/16 RM	5.5	2.4	3.15	3.6	83.7	17114
3 x 95/16 RM	5.5	2.5	3.15	3.7	87.9	19125
3 x 120/16 RM	5.5	2.6	3.15	3.8	91.3	21176
3 x 150/25 RM	5.5	2.7	3.15	3.9	95.8	23177
3 x 185/25 RM	5.5	2.8	3.15	4.1	100.1	25908
3 x 240/25 RM	5.5	3	3.15	4.3	106.2	29650
3 x 300/25 RM	5.5	3.1	3.15	4.4	111.3	33410

Cable Type:		Medium Voltage Cable				
Reference Standard:		IEC 60502 - 2				
Rated Voltage:		10/20/24 kV				
Description:		Cu/Al/PUR/PE/SCT/VC/WS/BL - PVC/LS/VA/PVC				
No. of Cores and Cross Section	Insulation Thickness	Galvanized Steel Wire Diameter	Outer Sheath Thickness	Overall Diameter	Cable weight	
n x mm ²	mm	mm	mm	Approx. mm	Approx. kg/km	
3 x 35/16 RM	5.5	2.8	3.4	74.9	13360	
3 x 50/16 RM	5.5	3.15	3.4	79.4	15111	
3 x 70/16 RM	5.5	3.15	3.6	83.7	17114	
3 x 95/16 RM	5.5	3.15	3.7	87.9	19125	
3 x 120/16 RM	5.5	3.15	3.8	91.3	21176	
3 x 150/25 RM	5.5	3.15	3.9	95.8	23177	
3 x 185/25 RM	5.5	3.15	4.1	100.1	25908	
3 x 240/25 RM	5.5	3.15	4.3	106.2	29650	
3 x 300/25 RM	5.5	3.15	4.4	111.3	33410	

Also available with one/three cores, lead covered, armoured, water proof and different types of outer sheath.

Cable Type:		Medium Voltage Cable				
Reference Standard:		IEC 60502				
Rated Voltage:		10/20/24 kV				
Description:		Cu/Al/PUR/PE/SCT/VC/WS/BL - PVC/LS/BL - PVC/LS/VA/PVC				
No. of Cores and Cross Section	Insulation Thickness	Lead Thickness	Galvanized Steel Wire Diameter	Outer Sheath Thickness	Overall Diameter	Cable weight
n x mm ²	mm	mm	mm	mm	Approx. mm	Approx. kg/km
3 x 35/16 RM	6	2.7	3.15	3.8	83	20100
3 x 50/16 RM	6	2.8	3.15	4	87	22097
3 x 70/16 RM	6	2.9	3.15	4.1	90	24116
3 x 95/16 RM	6	3	3.15	4.2	93	26190
3 x 120/25 RM	6	3.1	3.15	4.4	97	28320
3 x 150/25 RM	6	3.2	3.15	4.5	101	30443
3 x 185/25 RM	6	3.3	3.15	4.7	106	32680
3 x 240/25 RM	6	3.4	3.15	4.9	110	35048

Cable Type:		Medium Voltage Cable				
Reference Standard:		IEC 60502				
Rated Voltage:		10/20/24 kV				
Description:		Cu/Al/PUR/PE/SCT/VC/WS/BL - PVC/LS/VA/PVC				
No. of Cores and Cross Section	Insulation Thickness	Galvanized Steel Wire Diameter	Outer Sheath Thickness	Overall Diameter	Cable weight	
n x mm ²	mm	mm	mm	Approx. mm	Approx. kg/km	
3 x 35/16 RM	6	3.15	3.5	80	11426	
3 x 50/16 RM	6	3.15	3.7	87	12749	
3 x 70/16 RM	6	3.15	3.8	91	14214	
3 x 95/16 RM	6	3.15	3.9	94	15840	
3 x 120/25 RM	6	3.15	4	98	17526	
3 x 150/25 RM	6	3.15	4.1	102	19258	
3 x 185/25 RM	6	3.15	4.3	108	21039	
3 x 240/25 RM	6	3.15	4.4	112	22860	

Also available with one/three cores, lead covered, armoured, water proof and different types of outer sheath.

High Voltage Cable



Application:

High-voltage cables also called HV cables are used for electric power transmission at high voltage.

High-voltage cables may be any length, with relatively short cables used in apparatus and longer cables within buildings, as buried cables in an industrial plant or power distribution while the longest cables are often utilized for submarine cables for power transmission.

Like other power cables, high-voltage cables have the structural elements of conductors, insulation, and outer jacket. High-voltage cables differ from lower-voltage cables which they have additional internal layers to control the electric field around the conductor.

Reference standards: IEC 60840

Rated voltages U₀/U: 26/30(34.5), 26/33(31.5), 76/132(145) kV

These standards define the minimum electrical, mechanical and thermal requirements of cables.

Construction:

High voltage power cables are manufactured with copper or aluminum conductor XLPE insulation at rated voltage of more than 33 kV similar to Medium Voltage Cables structure, however, high-voltage cables have a single core. The XLPE insulation is applied to the conductor across in gas curing and cooling process under the nitrogen gas pressure in ordinary continuous vulcanization (CCV).

Furthermore these cables can be used in moist environments which applies corrugated aluminum co-polymer layer lead sheath or available materials to protect from radially and longitudinally water penetration.

Cable Type:		High Voltage Cable				
Reference Standard:		IEC 60840				
Rated Voltage:		26/30(34.5) kV				
Description:		Cu/SXLPE/Co-ECT/CSH/Pe/Al-PVC AT/AF/C				
Number of Core and Cross Section	Insulation Thickness	Aluminum Tape Armour Thickness	Cover Sheath Thickness	Overall Diameter	Cable Weight	
mm ²	mm	mm	mm	Approx. mm	Approx. kg/km	
1 x 95/116 RM	10	0.3	2.4	47	3800	
1 x 120/14 RM	10	0.3	2.5	49.00	3140	
1 x 150/18 RM	10	0.3	2.6	50.00	3970	
1 x 185/23 RM	10	0.3	2.6	53.00	4000	
1 x 240/28 RM	10	0.3	2.7	55.00	4750	
1 x 300/35 RM	10	0.4	2.8	57.00	5410	
1 x 480/55 RM	10	0.5	2.9	61.00	6800	
1 x 600/70 RM	10	0.5	3	64.00	7800	
1 x 800/90 RM	10	0.5	3.1	68.00	9314	
1 x 1000/100 RM	10	0.5	3.2	73.00	11130	
1 x 1000/100 RM	10	0.5	3.4	73.00	12110	

Cable Type:		High Voltage Cable				
Reference Standard:		IEC 60840				
Rated Voltage:		26/30(34.5) kV				
Description:		Cu/SXLPE/Al-ORBUCTION/W/BB/Al-PB-UL-Co/Al-PVC/AT/AF/C				
Number of Core and Cross Section	Insulation Thickness	Aluminum Tape Armour Thickness	Cover Sheath Thickness	Overall Diameter	Cable Weight	
mm ²	mm	mm	mm	Approx. mm	Approx. kg/km	
1 x 185/23 RM	11.3	0.5	2.9	49	5131	
1 x 240/28 RM	11.3	0.5	3	49	5836	
1 x 300/35 RM	11	0.5	3	46	6491	
1 x 400/45 RM	10.5	0.5	3.1	48	7479	
1 x 500/55 RM	10.5	0.5	3.2	51	8893	
1 x 630/70 RM	10.5	0.5	3.3	57	10629	
1 x 800/90 RM	10.5	0.5	3.5	61	12790	
1 x 1000/100 RM	10.5	0.5	3.7	67	15181	

