

Engineering Home

for Electrical Industries

بيت الهندسة للصناعات الكهربائية



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PROTEC | بروتك

موزع معتمد لشركة بيت الهندسة

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CHAIRMAN'S STATEMENT



Engineering Home for Electrical Industries is a leading Egyptian company providing quality cable management products to the construction industry.

The company was established in 1993 and has grown to be the major contributor in the plastic conduits market in Egypt, and some African nations.

Our reputation of excellence is built on a solid foundation of resources, capabilities and skills. Research and development at Engineering Home is a never-ending process aiming at providing the best products to our customers. Every year, new production lines and injection machines are added to meet the growing demand for our products.

Our quality, prices, and after-sales services are our pillars for success and fulfilling our customers' needs.

We would like to thank our customers for their continuous trust. We are looking forward to continuing our business relationships with them in the years to come.

We take the opportunity to renew our promise to keep striving to have that impact in the market that meet our customers' expectations.

Chairman

Eng. Shawky Mohamed Saad



Manufactured from virgin, not used before PE raw materials, which confirms its uniformity and resistance to cracks under severe working conditions and which has been formulated to meet the stringent requirements of BS EN 61386-22, IEC 61386-22, EOS1283/2008.



Other Colors



And more



Flame Retardant Pliable PE Conduit (Standard Sizes)

خراطيم مرنة مقاومة للحريق (مقاسات نمطية)

Code	Outer Diameter (mm)	Wall Thickness (mm)	Standard Coil (m)
2216	16	2.15	50
2220	20	2.25	50
2225	25	2.6	50
2232	32	2.8	50
2240	40	3	25
2250	50	3.25	25

Pliable PE Conduit (Standard Sizes)

خراطيم بولي إيثيلين مرنة (مقاسات نمطية)

Code	Outer Diameter (m.m.)	Wall Thickness (m.m.)	Standard Coil (m)
2116	16	2.15	50
2120	20	2.25	50
2125	25	2.6	50
2132	32	2.8	50
2140	40	3	25
2150	50	3.25	25

Flame Retardant Pliable PE Conduit (Add. Sizes)

خراطيم مرنة مقاومة للحريق (مقاسات إضافية)

Code	Inner Diameter (mm)	Wall Thickness (mm)	Standard Coil (m)
1213	13	2.1	45
1216	16	2.3	45
1219	19	2.4	45
1223	23	2.6	45
1229	29	3.3	45
1236	36	3.8	22.5
1248	48	3.25	25

*Alternative Sizes, Lengths or Colors can be supplied to order.

Pliable PE Conduit (Add. Sizes)

خراطيم بولي إيثيلين مرنة (مقاسات إضافية)

Code	Inner Diameter (mm)	Wall Thickness (mm)	Standard Coil (m)
1113	13	2.1	45
1116	16	2.3	45
1119	19	2.4	45
1123	23	2.6	45
1129	29	3.3	45
1136	36	3.8	22.5
1148	48	3.25	25

*Alternative Sizes, Lengths or Colors can be supplied to order.

Manufactured from extra super high impact UPVC which is capable of withstanding the most hazardous conditions on site and which has been formulated to meet the stringent requirements of BS EN 61386-21, BS 50086-2-1, (Formaly Bs 6099), Bs 4607 and IEC 61386-21.

Standard Sizes مقاسات نمطية



Light Gauge IEC CODE 2221 320N مواسير سمك خفيف

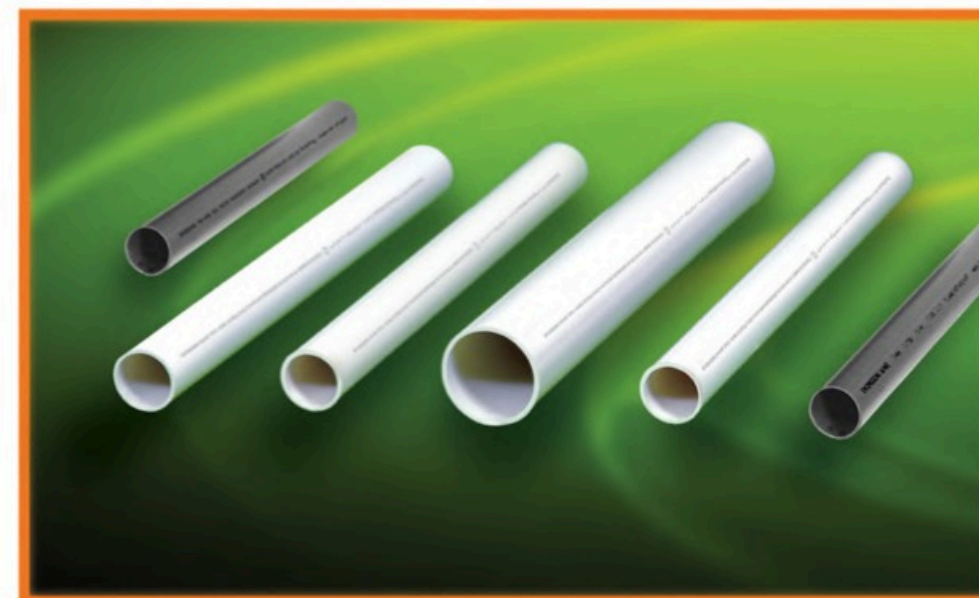
Code	Outer Diameter (m.m.)	Wall Thickness (m.m.)	Standard Roll (m)
4120	20	1.30	34 × 3
4125	25	1.45	20 × 3
4132	32	1.70	15 × 3
4140	40	2.10	10 × 3
4150	50	2.45	5 × 3
4163	63	3.00	5 × 3

Medium Gauge IEC CODE 3321 750N مواسير سمك متوسط

Code	Outer Diameter (m.m.)	Wall Thickness (m.m.)	Standard Roll (m)
4220	20	1.55	34 × 3
4225	25	1.80	20 × 3
4232	32	2.10	15 × 3
4240	40	2.30	10 × 3
4250	50	2.85	5 × 3

Heavy Gauge IEC CODE 4421 1250N مواسير سمك ثقيل

Code	Outer Diameter (m.m.)	Wall Thickness (m.m.)	Standard Roll (m)
4320/1	20	1.80	34 × 3
4320	20	2.10	34 × 3
4325/1	25	1.95	20 × 3
4325	25	2.20	20 × 3
4332	32	2.70	15 × 3
4340	40	2.80	10 × 3
4350	50	3.40	5 × 3



Additional Sizes مقاسات إضافية

Round Conduit (Add. Sizes 1) مواسير (مقاسات إضافية ١)

Code	Inner Diameter (m.m.)	Wall Thickness (m.m.)	Standard Roll (m)
3113	13	0.70	34 × 3
3116	16	1.00	34 × 3
3119	19	1.00	34 × 3
3123	23	1.00	34 × 3
3129	29	1.25	34 × 3
3136	36	1.50	34 × 3



Round Conduit (Add. Sizes 2) مواسير (مقاسات إضافية ٢)

Code	Outer Diameter (m.m.)	Wall Thickness (m.m.)	Standard Roll (m)
3120	20	1.50	34 × 3
3125	25	1.50	20 × 3
3132	32	1.80	15 × 3
3140	40	1.90	10 × 3
3150	50	2.40	5 × 3
3163	63	3.00	5 × 3



- ☐ Standard Rigid Conduits are available in White.
- ☐ Rigid Conduits (Add. Sizes) are available in Grey.
- ☐ Alternative Sizes, Lengths or Colors can be supplied to order.

Manufactured from extra super high impact UPVC which is capable of withstanding the most hazardous conditions on site and which has been formulated to meet the stringent requirements of BS EN 61386-21, BS EN 50086-2-1, BS4607 where applicable. Available in white.

Couplers

جلب

Code	Size(mm)	Standard Pack
4420/1	20	100
4425/1	25	50
4432/1	32	25
4440/1	40	15
4450/1	50	10
4463/1	63	4



Bends

أنواع

Code	Size(mm)	Standard Pack
4520/1	20	25
4520/2	20	25
4525/1	25	10
4525/2	25	10
4532/2	32	10
4540	40	1
4550	50	1
4563	63	1



Strap Saddles

قفيز بدون قاعدة

Code	Size(mm)	Standard Pack
4020/1	20	100
4025/1	25	100
4032/1	32	75
4040/1	40	75
4050/1	50	50



Strap Bar Saddles

قفيز بالقاعدة

Code	Size(mm)	Standard Pack
4020	20	100
4025	25	75
4032	32	50
4040	40	50
4050	50	50



Adaptors (Female Thread)

أدايتور

Code	Size(mm)	Standard Pack
4720	20	100
4725	25	50
4732	32	25
4740	40	25
4750	50	10

Reducers

مخفف

Code	Size(mm)	Standard Pack
4425/20	25/20	100
4432/25	32/25	100
4440/32	40/32	15
4450/40	50/40	10



Expansion Coupler

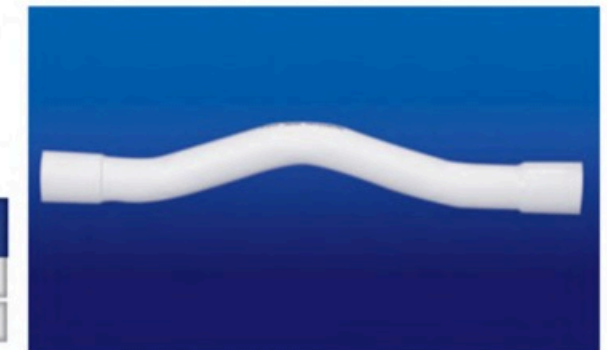
جلبة تمدد

Code	Size(mm)	Standard Pack
EC20	20	30
EC25	25	30
EC32	32	10
EC40	40	5
EC50	50	4

Conduit Intersection Junction

وصلة تقاطع مواسير

Code	Size(mm)	Standard Pack
4520/6	20	25
4525/6	25	10



Engineering Home

ROUND CONDUIT CIRCULAR BOXES بوابات دائرية

Available in white, with 2 mounting lugs, standard mounting screw spacing 50.8mm (2"), with brass inserts M4. Provision for brass earthing terminals. Small knockouts are provided to accept steel insert clips. In accordance with BS 4607 where applicable and meet the requirements of BS 7671 wiring regulations.

Terminal

نهاية

Code	Size(mm)	Standard Pack
4620/1	20	25
4625/1	25	25



Through

إمتداد

Code	Size(mm)	Standard Pack
4620/2	20	20
4625/2	25	20

Angle

زاوية

Code	Size(mm)	Standard Pack
4620/12	20	15
4625/12	25	15



U- Two Way

شكل U

Code	Size(mm)	Standard Pack
4620/U	20	20
4625/U	25	20



Tee

ثلاثي

Code	Size(mm)	Standard Pack
4620/3	20	15
4625/3	25	15



Y- Three Way

شكل Y

Code	Size(mm)	Standard Pack
4620/Y	20	15
4625/Y	25	15

Four Way

رباعي

Code	Size(mm)	Standard Pack
4620/4	20	15
4625/4	25	15



H- Four Way

شكل H

Code	Size(mm)	Standard Pack
4620/H	20	15
4625/H	25	15



Circular Boxes Fittings

Available in white. Fixing centers 50.8 mm.

Circular Extension Rings

حلقات امتداد للبيوت

Code	Height(mm)	Standard Pack
4800	32	25
4820	20	25
4840	40	20

*Circular Extension Rings have two lugs fitted with M4 brass inserts and two plain bored lugs.

Circular Lids

غطاء دائري

Code	Diameter (mm)	Standard Pack
4601	65	100

*Suitable for all round boxes.





Bending Springs

السوست

Light Gauge	Medium Gauge	Heavy Gauge	Standard Pack
4120 S	4220 S	4320/1 S	1
4125 S	4225 S	4320 S	1
4132 S	4232 S	4325/1 S	1
4140 S	4240 S	4325 S	1
4150 S	4250 S	4332 S	1
4163 S	--	4340 S	1
--	--	4350 S	1

Rectangular Adaptable Conduit Boxes

بوابات مستطيلة



(10 × 7)

مستطيل

Code	Internal Size (mm)	Standard Pack
4907	97×59×55	10

*Available in white.
Entries: 16, 20, 25 and 32 mm
*Other dimensions can be supplied to order.



(10 × 10)

مربع

Code	Internal Size (mm)	Standard Pack
4910	100×100×49	5

*Available in white.
Entries: 20/25mm + 25/32mm (Side)
2(20/25)mm + 2(25/32)mm (Back)
*Other dimensions can be supplied to order.



Single Gang Accessory Box

مربع

Code	Internal Size (mm)	Standard Pack
4907/1	74×74×35	15

*Available in white.
Entries: 2 x 20 mm on each of the four sides.
*Other dimensions can be supplied to order.



Twin Gang Accessory Box

مستطيل

Code	Internal Size (mm)	Standard Pack
4907/2	74×134.3×35	10

*Available in white
Entries: 4 x 20 mm on each of the long sides.
2 x 20 mm on each of the short sides.
*Other dimensions can be supplied to order.

Flexible PVC

فليكسبل



Code	Inner Diameter (mm)	Outer Diameter (mm)	Standard Coil (m)
5212	12	16.8	30
5214	14	18.5	30
5216	16	21	30
5220	20	24.7	30
5222	22	26.7	30
5225	25	31.1	30
5232	32	38	30
5235	35	41	30
5240	40	46	30
5250	50	56.5	30

Flexible Conduits Adaptor

أدايتور فليكسبل

Code	Size(mm)	Standard Pack
5716	16	100
5720	20	100
5725	25	50
5732	32	20
5740	40	10
5750	50	10



UPVC Socketed Conduits for Multiple Purposes

مواسير UPVC لأغراض متعددة

Code		Outer Diameter (mm)	Maximum Internal Pressure x (Bar)				
With Rubber Ring Joint	Without Rubber Ring Joint		4	6	8	10	16
			Wall Thickness (mm)				
31050J6/x	31050P6/x	50		1.8	2	2.4	3.7
31075J6/x	31075P6/x	75	1.8	2.2	2.9	3.6	5.6
31090J6/x	31090P6/x	90	1.8	2.7	3.5	4.3	6.7
31110J6/x	31110P6/x	110	2.2	3.2	3.4	5.3	8.2
31125J6/x	31125P6/x	125	2.5	3.7	3.9	6	9.3
31140J6/x	31140P6/x	140	2.8	4.1	4.3	6.7	10.4
31160J6/x	31160P6/x	160	3.2	4.7	4.9	7.7	11.9
31200J6/x	31200P6/x	200	4	5.9	6.2	9.6	14.9
31250J6/x	31250P6/x	250	4.9	7.3	7.7	11.9	

*Multiple purposes include water, sewage, electricity and communications.

*Standard conduit length is 6 meters. Alternative sizes and/or lengths can be supplied to order.

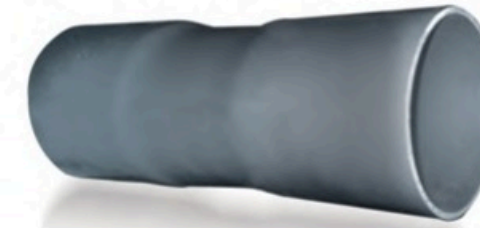


UPVC Socketed Conduits for Electrical Cables

مواسير UPVC لكابلات الكهرباء

Code		Outer Diameter (mm)	Maximum External Force y (Newton)				
With Rubber Ring Joint	Without Rubber Ring Joint		250	450	750	1000	1600
Wall Thickness (mm)							
61075J6/y	61075P6/y	75	2.03	2.5	3	3.3	5.1
61090J6/y	61090P6/y	90	2.45	3	3.55	3.8	6.2
61110J6/y	61110P6/y	110	2.8	3.37	4	4.3	6.6
61125J6/y	61125P6/y	125	3	3.7	4.35	4.8	7.4
61140J6/y	61140P6/y	140	3.3	4	4.7	5.37	8.3
61160J6/y	61160P6/y	160	3.6	4.35	5.13	6.7	10.2
61200J6/y	61200P6/y	200	4.15	5.05	6.05	7.7	11.9
61250J6/y	61250P6/y	250	5.19	6.5	7.6	9.6	14.8

* Standard conduit length is 6 meters. Alternative sizes and/or lengths can be supplied to order.



Cables Round Conduit Couplers

جلب

Code	Size (mm)
34050 P	50
34075 P	75
34090 P	90
34110 P	110
34125 P	125
34140 P	140
34160 P	160
34200 P	200
34250 P	250



Cables Round Conduit Couplers (with Joint)

جلب مواسير كابلات بالجوان المطاطي

Code	Size (mm)
34050 J	50
34075 J	75
34090 J	90
34110 J	110
34125 J	125
34140 J	140
34160 J	160
34200 J	200
34250 J	250



End Bell

جلبه نهاية

Code	Size (mm)
34050 E	50
34075 E	75
34090 E	90
34110 E	110
34125 E	125
34140 E	140
34160 E	160
34200 E	200
34250 E	250



Cables Round Conduit Bends

أكواع مواسير كابلات

Code	Size (mm)
35050 P	50
35075 P	75
35090 P	90
35110 P	110
35125 P	125
35140 P	140
35160 P	160
35200 P	200
35250 P	250



Cables Round Conduit Bends (with Joint)

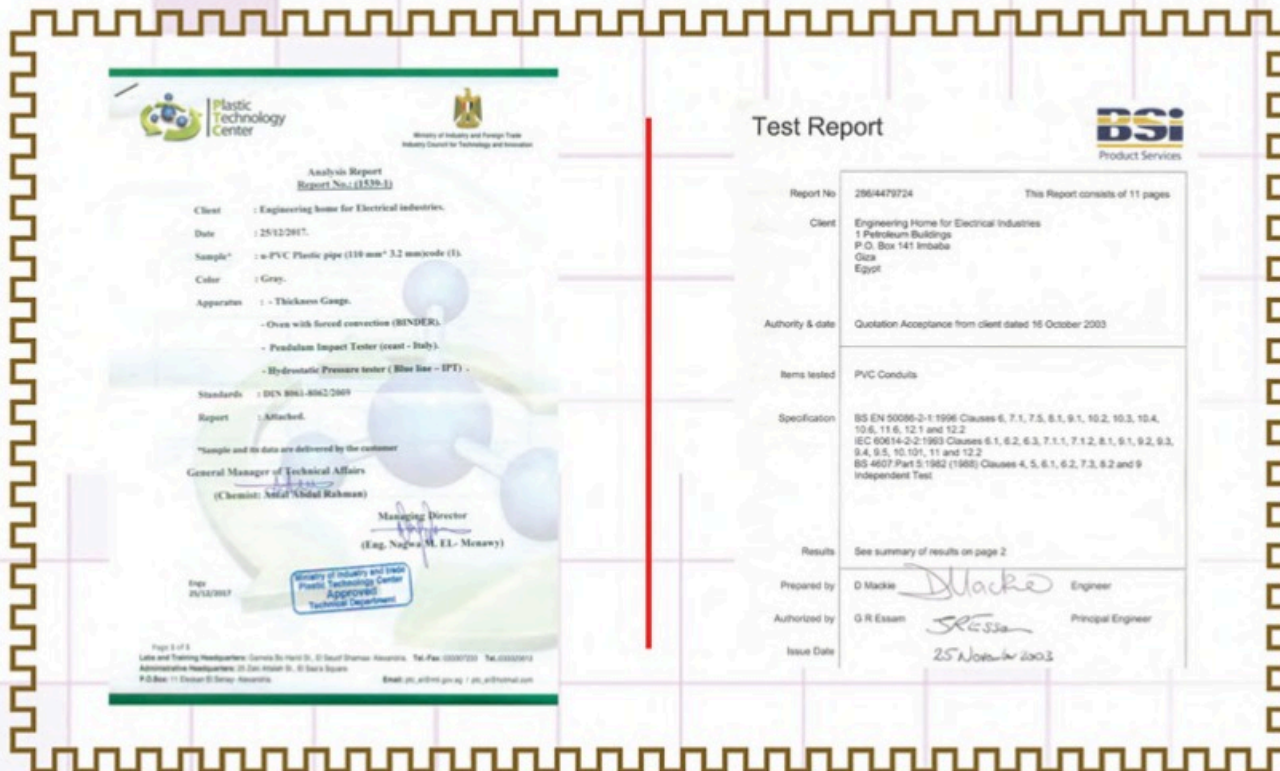
Code	Size (mm)
35050 J	50
35075 J	75
35090 J	90
35110 J	110
35125 J	125
35140 J	140
35160 J	160
35200 J	200
35250 J	250

أكواع مواسير كابلات بالجوان المطاطي



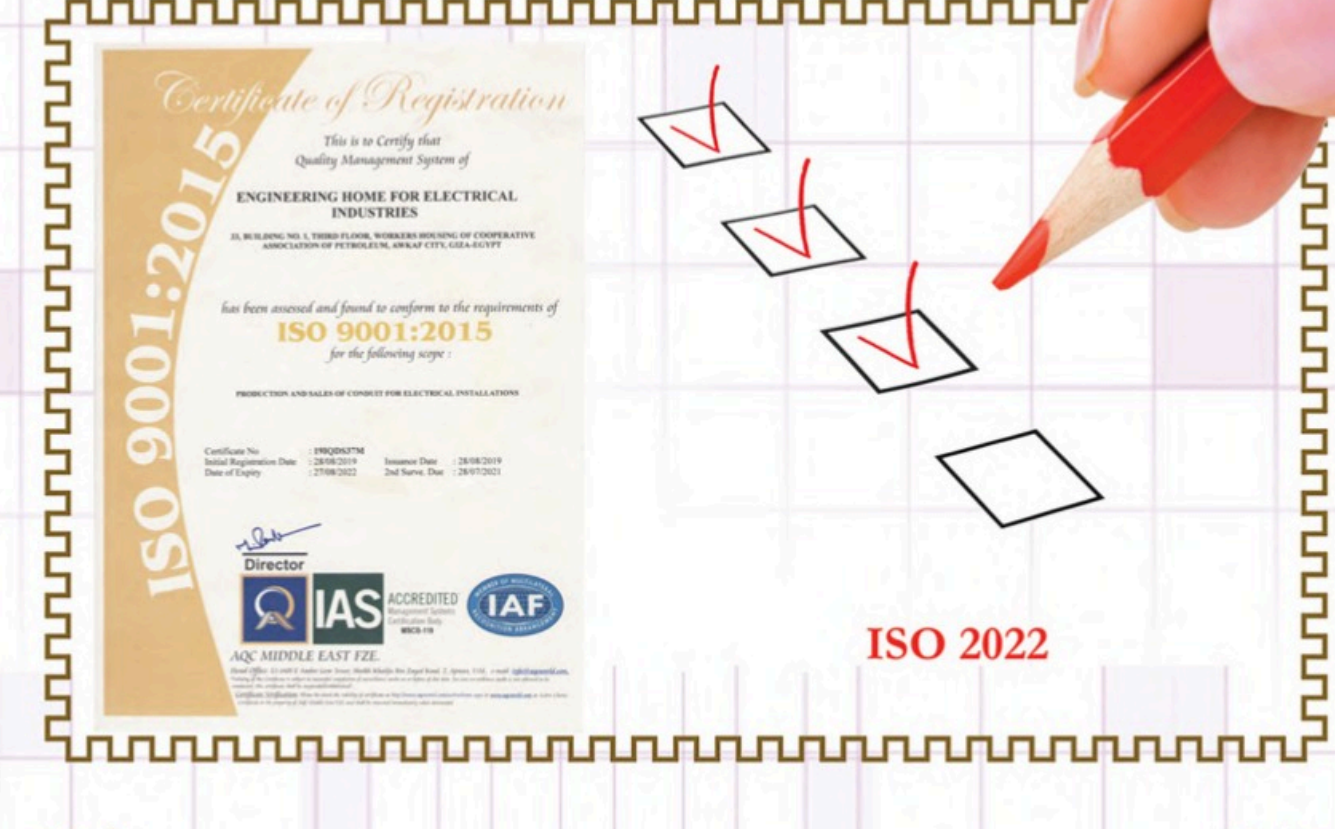
هيئة التوحيد القياسي PVC

هيئة التوحيد القياسي PE



مركز بحوث البلاستيك PTC

BSI



ISO 2022



مركز بحوث الطاقة - جامعة القاهرة ERC

هيئة المواصفات والجودة EOS