



ELECTRICAL SYSTEMS



Electrical Nonmetallic Tubing and Fittings

- Easy Installation
- Complete concrete-tight system
- Approved for use in fire-rated floor/ceiling assemblies

KWIKON: AN INTEGRATED ENT SYSTEM THAT

KWIKON®

Savings in the LONG RUN

We designed Kwikon Electrical Nonmetallic Tubing (ENT), fittings, slab boxes and accessories with two goals. Firstly, we set out to create an integrated ENT system tough enough to meet the rugged day-to-day challenges of the construction industry. More importantly, we wanted to make a system that saves time and money on the job site. People who work with it daily insist we got it right on both counts.

The best alternative to heavy and labor-intensive 10 ft. lengths of metal conduit, Kwikon was made for fast, easy installation, saving valuable man-hours on any construction site. As the toughest non-corroding, non-conducting ENT system on the market, its durability—even under tons of concrete—ensures years of reliable use for savings over the long run.

Saving contractors time, money and worry, Kwikon is an integrated ENT system that makes sure the job gets done right.



SAVES TIME & MONEY



TUBING

Light and flexible, Kwikon tubing comes with color-coded stripes for easy cable identification. Use Kwikon for communications (yellow), fire alarm and emergencies (red) and power (blue).

FITTINGS

Kwikon offers the most complete line of ENT fittings, couplings 1/2" to 2", male adapters 1/2" to 2", snap in male adapters 1/2" to 1" and ENT to EMT transition fittings 1/2" to 1".

All Kwikon fittings are molded with six patented locking tabs that meet and exceed the minimum UL and CSA requirements for pull out, additionally all male adapters are supplied with locknuts.

Kwikon fittings are designed to meet the harsh environment of a concrete pour and are concrete-tight without taping and or solvent welding.

Kwikon couplings are also UL Listed for use with Schedule 40 or 80 conduit.

SLAB BOXES

Available in a variety of styles, Kwikon slab boxes are engineered tough and completely concrete-tight. No more stuffing boxes to keep concrete out.

FORM STUBBIES

Kwikon stubbies are used to hold conduit firmly in place until concrete is poured and cured. They eliminate the need to drill holes in plywood forms, and they protect the ENT from possible breakage during the removal of forms.

ACCESSORIES

To round out our fully integrated ENT system, Kwikon also provides a wide range of ENT wall boxes, ceiling boxes, plaster rings and covers for multiple applications.

KWIKON: THE ENT SYSTEM CONTRACTORS

Since its introduction in 1986, Kwikon has been trusted by electricians, engineers, building owners and general contractors across North America. Thanks largely to its rugged reliability and quick, easy installation, Kwikon has established itself as the market leader.

While metal was the industry's material of choice in the past, Kwikon has proved itself a more versatile, flexible and affordable improvement. Coiled in long convenient reels, it's simple and fast to measure, cut and fit—no special tools or training are needed. Kwikon's corrugated construction is so flexible it can be bent easily by hand. And our patented Kwikon couplings and connectors, with their six locking tab design, provide an instant snap-on, lock-in fit that easily meets UL requirements for conduit pull-out.

What's more, it comes backed by a national sales network of Kwikon specialists dedicated to making sure every job you do turns out right. No wonder so many contractors agree Kwikon is number one.

MARKETS

- **RESIDENTIAL**
(Low or High Rise)
- **COMMERCIAL**
(Low or High Rise)
- **INSTITUTIONAL**
(Prisons, Schools, Universities)
- **HOSPITALS & NURSING HOMES**
(Only in nonpatient care areas)
- **STADIUMS AND ARENAS**

TYPICAL INSTALLATIONS



Walls

Kwikon's flexibility and ease of handling in metal, wood or block walls reduce the time and labor needed to install electrical raceways.



Floor/Ceiling Assemblies

Kwikon's light weight and versatility make it perfect for slab applications. Integrated with our slab boxes, Kwikon can be used to install lights and ceiling fans.



A Clean Connection

Kwikon ENT Stubbies provide a clean 1-1/2" stub of ENT to make your connection while protecting the ENT from the traditional breakage that can occur when the forms are removed.

Inslab Floors

With its concrete-tight design and easy-to-install angled stubbies, Kwikon offers the perfect ENT solution for inslab floors.

DEPEND ON

CODES & STANDARDS

NEC, ARTICLE 362

Rules governing the installation of KWIKON ENT are described in the 2002 National Electrical Code, ANSI/NFPA Article 362. KWIKON ENT systems are recognized for use in places of assembly as referenced in Articles 518 and 520.

KWIKON ENT may be installed and concealed in floors, walls, ceilings and suspended ceilings where a thermal barrier of material has a minimum of fifteen minute finish rating.

KWIKON ENT may be installed and exposed in areas not subject to physical damage and where the building does not exceed three floors above grade [Section 362.10 (1)].

NOTE: KWIKON ENT may penetrate fire-rated walls, floors or ceilings with a UL-listed or recognized through-penetration fire-stop system.

FIRE-RESISTIVE CONSTRUCTION AND WALL ASSEMBLIES

KWIKON ENT tubing, fittings and slab boxes are approved for use in non-combustible 2 hour and 4 hour fire-rated floor/ceiling assemblies. Normal weight concrete cover must be provided; a minimum of 2-1/8" for 2 hour assemblies and 2-3/8" for 4 hour assemblies.

[ULI File: E 78276 and ULC File: R-19226].

Kwikon Electrical Nonmetallic Tubing and Kwikon fittings have been investigated for use in a non-load-bearing wall and partition assembly. The report (ULC CR2196) concludes the wall assemblies with Kwikon ENT and fittings will provide a 2 hour resistance to the passage of the flame and dangerous transmission of heat.

[ULC File: CR1296 and UL File: E122659]



KWIKON: TOUGHER THAN ANY OTHER ENT

As everyone knows, accidents happen...especially on construction sites. Workers trip, knock over equipment, drop tools. A good measure of an ENT's strength is how it performs on the job site. Made of heavy-duty, impact-resistant PVC, Kwikon is tough enough to withstand the day-to-day bumps and knocks of any job site. As a result, Kwikon reduces costly construction site damage and saves money by reducing waste.

Yet a bigger test of an ENT system's strength is how it holds up to being encased in concrete. Kwikon is completely non-corroding and concrete-tight, ensuring years of rugged durability once encased in concrete or enclosed behind walls or ceilings. Kwikon's strength saves you from the worry – and costs – of future repairs or maintenance.

- A** Strong, solid fittings meeting all UL requirements
- B** Unique “six locking tab” design creates a strong, pull-out resistant and concrete tight seal
- C** Flexible enough to be bent by hand, yet tough enough to withstand crushing and breaking

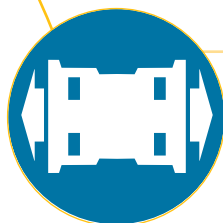


SYSTEM ON THE MARKET



SUITABLE FOR CONCRETE ENCASEMENT

Every contractor's worst nightmare is a product that doesn't work or hold up in poured concrete; the costs of replacement and repair can be tremendous. Every Kwikon product is designed for concrete encasement, requiring no solvent welding or tape around the connections, or paper stuffed inside.



PULL RESISTANT

Once a length of Kwikon tubing is connected to a coupling or connector, it stays connected, thanks to our unique six locking tab design. With a pull-out resistance of up to 175 lbs., our patented snap-on, lock-in system provides a seal that easily meets UL requirements for conduit pull-out.



FIRE RESISTANT

Kwikon ENT tubing, fittings and slab boxes are approved for use in noncombustible 2 hour and 4 hour fire-rated floor/ceiling assemblies.



IMPACT RESISTANT

Kwikon ENT is made of impact resistant PVC, so it won't break or crack if an object is dropped on it or someone steps on it.

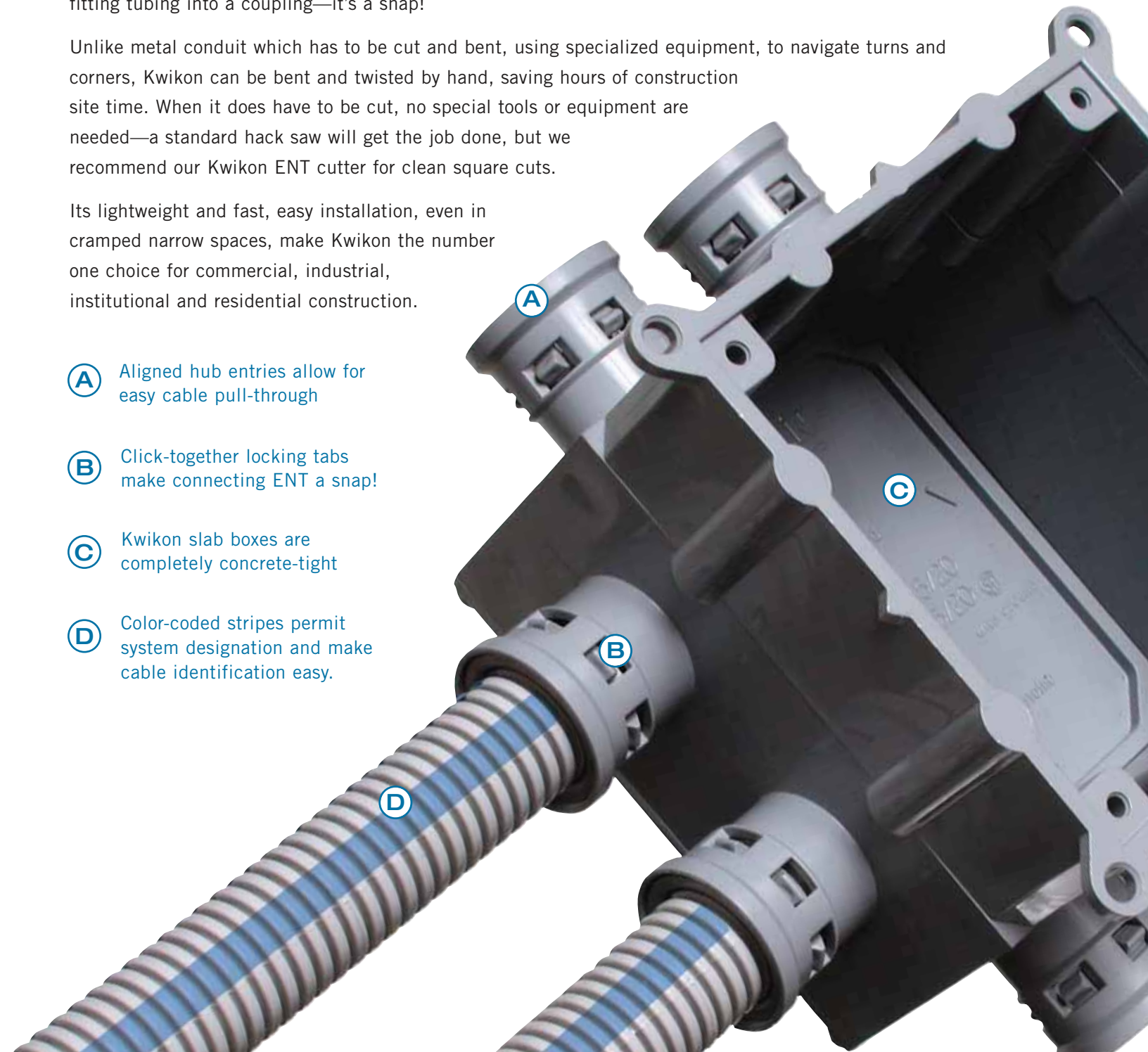
KWIKON: FASTER AND EASIER TO INSTALL THAN

With its convenient coil and reel lengths of up to 1500 ft. and snap-on fittings, Kwikon uses fewer couplings over long spans than metal conduit and eliminates the need for time-intensive set-screw couplings. And compared to other conduit systems, connecting Kwikon ENT to a Kwikon slab box is as quick and easy as fitting tubing into a coupling—it's a snap!

Unlike metal conduit which has to be cut and bent, using specialized equipment, to navigate turns and corners, Kwikon can be bent and twisted by hand, saving hours of construction site time. When it does have to be cut, no special tools or equipment are needed—a standard hack saw will get the job done, but we recommend our Kwikon ENT cutter for clean square cuts.

Its lightweight and fast, easy installation, even in cramped narrow spaces, make Kwikon the number one choice for commercial, industrial, institutional and residential construction.

- A** Aligned hub entries allow for easy cable pull-through
- B** Click-together locking tabs make connecting ENT a snap!
- C** Kwikon slab boxes are completely concrete-tight
- D** Color-coded stripes permit system designation and make cable identification easy.



INSTALLING KWIKON IS THIS EASY

1

UNROLL KWIKON TO DESIRED LENGTH

Available in convenient coil and reel lengths up to 1,500 ft., Kwikon gives you the flexibility to measure out exactly the amount of tubing you need. Kwikon requires fewer couplings for long spans than metal conduit. It's recommended ENT be securely fastened at 2 – 3 ft. intervals.



2

CUT KWIKON WITH ENT CUTTER

For straight cuts every time use the Kwikon scissor-style cutting tool. However, no special tools or cutting equipment are necessary. Kwikon can even be cut with a standard utility knife.



3

MAKE BENDS AND TURNS BY HAND

Unlike metal which has to be cut to fit tight spaces, Kwikon can be bent, turned and manipulated by hand to wind around irregular curves and corners. When bending, ensure the radius of the curve is at least six times the diameter of the tubing.



4

SIMPLY SNAP CONNECTIONS TOGETHER

With no special tools or equipment needed, Kwikon's unique snap-on fittings quickly and easily join or terminate ENT and provide a concrete-tight connection.



5

PULL CABLE THROUGH KWIKON

Kwikon's interior corrugated surface significantly reduces the amount of friction when pulling cables through long runs, even in runs with 90° bends. With Kwikon, you can pull longer runs of cable without worrying about damage.



PRODUCT CATALOG

ENT TUBING



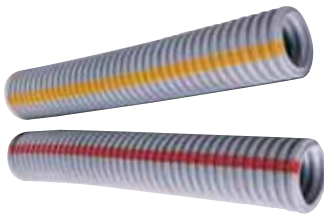
Kwikon ENT Coils – Blue Stripe

Size (inches)	ID (inches)	OD (inches)	Length (feet)	Product Code
1/2	0.574	0.840	200	012031
3/4	0.778	1.050	100	012040
1	1.000	1.315	100	012041
1-1/4	1.340	1.660	500	012046
1-1/2	1.610	1.900	300	012032
2	2.020	2.375	225	012043



Kwikon ENT Reels – Blue Stripe

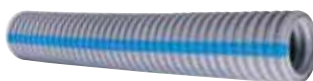
1/2	0.574	0.840	1500	012002
3/4	0.778	1.050	1000	012011
1	1.000	1.315	750	012021
1-1/4	1.340	1.660	1000	012047
1-1/2	1.610	1.900	750	012033
2	2.020	2.375	500	012044



Kwikon ENT Reels – Color Coded

Size (inches)	Length (feet)	Product Code RED	Product Code YELLOW
1/2	1500	012305	012335
3/4	1000	012307	012337
1	750	012310	012340

NOTE: 1-1/4", 1-1/2", 2" red and yellow stripe ENT is available by special order.



Kwikon ENT 10' Sticks – Blue Stripe

Size (inches)	Length (feet)	Product Code	Crate Size
1/2	10	012001	3600
3/4	10	012010	2200
1	10	012034	1800

Storage of Kwikon ENT Tubing

Manufacturer recommends that ENT tubing should not be stored outdoors where subjected to direct sunlight without protective covering, i.e. packaging or tarps.

ENT Support Unit (ESU)

Part Number	Product Code
ESU-10-35	089149



The ENT Support Unit (ESU) is designed to raise the tubing or conduit up off the concrete form during the concrete pour maintaining a level raceway. With its minimal surface contact, the ESU allows for maximum aggregate flow and concrete consolidation.

Easy to use, the ESU snaps around any size of ENT. It is perfect for use in high rise buildings constructed with post-tensioned (PT) concrete slabs.

- One size fits all 1/2" - 2"
- Saves time and labor
- Easy locking mechanism
- Securable to the concrete form
- Minimal footprint reduces amount of surface contact

KWIKON FITTINGS



Kwikon Couplings

Size (inches)	Part Number	Product Code
1/2	KC10	089000
3/4	KC15	089001
1	KC20	089002
1-1/4	KC25	189670
1-1/2	KC30	189671
2	KC35	189672

Kwikon Transition Couplings

1/2	KTC10	089012
3/4	KTC15	089013
1	KTC20	089014

Kwikon Connectors*

1/2	KTA10	089006
3/4	KTA15	089007
1	KTA20	089008
1-1/4	KTA25	189680
1-1/2	KTA30	189681
2	KTA35	189682

*KTA connectors are supplied with locknuts.

Kwikon Snap-in Connectors

1/2	KTS10	089146
3/4	KTS15	089147
1	KTS20	089148

ACCESSORIES



Tapered Plugs

Size (inches)	Part Number	Product Code
1/2	TP10	089003
3/4	TP15	089004
1	TP20	089005



Cutting Tool

Description	Part Number	Product Code
Cutting Tool 1/2" - 1"	CLC20	988210
Cutting Tool 1/2" - 2"	CLC35	988915
Replacement Blade for CLC20	SSB	988211
Replacement Blade for CLC35	SB35	988916

PRODUCT CATALOG

KWIKON ENT STUB DOWN FITTINGS



Both styles of stub down fittings are designed for direct connection to ENT on the horizontal by means of our unique six locking tab for concrete encasement Kwikon connection. The flanged base of the threaded 90° stub down offers contractors a NPSC threaded hub connection on the vertical – at the exit point of the slab, allowing for the direct transition to other raceway products.

With our unique Kwikon x Kwikon stub down fitting, the user creates a stub down of ENT without penetrating the form. After the concrete pour the permanently encased fitting will be flush with the bottom of the slab deck, ready to accept the connection of ENT raceway.

Designed to offer the optimal balance of bend radius and overall height in the slab, these fittings provide a bend radius of 2-1/2" while standing less than 3-3/8" tall.

Kwikon (KT90) Stub Down Fittings (Kwikon x Threaded)

Size (inches)	Part Number	Product Code
1/2	KT90-10	089060
3/4	KT90-15	089059
1	KT90-20	089058



Kwikon (KK90) Stub Down Fittings (Kwikon x Kwikon)

Size (inches)	Part Number	Product Code
1/2	KK90-10	089055
3/4	KK90-15	089056
1	KK90-20	089057



KWIKON ENT FORM STUBBIES

Ease and convenience were a priority in the design of Kwikon ENT form stubbies. Contractors use our stubbies to create conduit stub-downs in concrete without needing to drill holes in the plywood form. Available in the original stubby design, the angled version and the Multi-Link, Kwikon form stubbies also protect the ENT from potential damage during the removal of wood forms.



The angled stubby gives you the advantage of positioning the ENT at a lower profile within the slab. It's available in all sizes of ENT up to 1-1/2".



The Multi-Link form stubby is designed in convenient rows of three and feature a snap-together design which enables them to be configured in a variety of tightly grouped formations. It also features a thin removable film over the drop opening that prevents concrete slurry from seeping under the stubby during the concrete pour.



Kwikon ENT Form Stubbies

Size (inches)	Part Number	Product Code
1/2	KSTB-10	089330
3/4	KSTB-15	089331
1	KSTB-20	089332
1-1/4	KSTB-25	089333

Kwikon ENT Angled Form Stubbies

Size (inches)	Part Number	Product Code
1/2	KASTB-10	089233
3/4	KASTB-15	089234
1	KASTB-20	089235
1-1/4	KASTB-25	089236
1-1/2	KASTB-30	089238

Kwikon ENT Multi-Link Form Stubbies

Size (inches)	Part Number	Product Code
1/2	MSTB-10	089031
3/4	MSTB-15	089026
1	MSTB-20	089025

- Approved for support of ceiling fans up to 35 lbs. and luminaires up to 50lbs.
- Concrete-tight.
- All molded connectors have 360° locking tabs that exceed UL and CSA requirements for pull-out.
- Manufactured from high-impact PVC.
- Nonmetallic/non-conducting /non-corroding.
- Threaded brass inserts. (10/32 for ceiling fans, 8/32 for luminaires).
- Supplied as a fully assembled one piece unit.
- Clear Vue vacuum formed removable covers



- Threaded brass inserts (10/32 for ceiling fans, 8/32 for luminaires).
- Approval for support of ceiling fans up to 35 lbs and luminaires up to 50 lbs.
- Overall height of box (2-7/8") allows for use in thinner slabs.
- Clear Vue vacuum formed removable covers



- Direct mounting of 4" square covers and plaster rings.
- Mounting feet are located on corners for quicker positioning and securing to form.
- Standard dimension 2-gang cover plates cover all exposed surfaces.
- Clear Vue vacuum formed removable covers



KWIKON STANDARD SLAB BOXES

Kwikon Slab Boxes w/ Molded Connectors – Vol 44 cu in.

Size (inches)	Part Number	Product Code
8 x 1/2	SMB-H-10	089465
8 x 3/4	SMB-H-15	089462
4 x 1/2, 4 x 3/4	SMB-H-10/15	089458
4 x 1/2, 2 x 3/4 , 2 x 1	SMB-H-10/20	089466
4 x 3/4 , 4 x 1	SMB-H-15/20	089464

Kwikon Slab Boxes w/ Knockouts (w/o Molded Connectors) – Vol 44 cu in.

Size (inches)	Part Number	Product Code
8 x 1/2	SMB-10	089460
4 x 1/2, 2 x 3/4 , 2 x 1	SMB-10/20	089461

KWIKON SHALLOW SLAB BOXES

Kwikon Shallow Slab Boxes w/ Molded Connectors – Vol 36 cu in.

Size (inches)	Part Number	Product Code
8 x 1/2	SMBS-H-10	089480
8 x 3/4	SMBS-H-15	089482
4 x 1/2, 4 x 3/4	SMBS-H-10/15	089481
4 x 1/2, 2 x 3/4 , 2 x 1	SMBS-H-10/20	089483
4 x 3/4 , 4 x 1	SMBS-H-15/20	089484

Kwikon Shallow Slab Boxes w/ Knockouts (w/o Molded Connectors) – Vol 36 cu in.

Size (inches)	Part Number	Product Code
8 x 1/2	SMBS-10	089490
4 x 1/2, 2 x 3/4 , 2 x 1	SMBS-10/20	089491

KWIKON SQUARE SLAB BOXES

Kwikon Shallow Slab Boxes w/ Molded Connectors – Vol 44 cu in.

Size (inches)	Part Number	Product Code
8 x 1/2	SSBH-10	089467
8 x 3/4	SSBH-15	089468
4 x 1/2, 4 x 3/4	SSBH-10/15	089469
4 x 1/2, 2 x 3/4 , 2 x 1	SSBH-10/20	089474
4 x 3/4 , 4 x 1	SSBH-15/20	089475

PRODUCT CATALOG

KWIKON SLAB BOX ASSEMBLY FOR USE WITH PLASTER RINGS

- Approved for support of ceiling fans up to 35 lbs. and luminaries up to 50 lbs.
- Slab box assemblies are supplied without the collar - ready to accept the desired raised cover/plaster ring.
- Plaster rings mount directly to the box opening using the screws supplied.
- Used with raised covers, boxes are perfect for use in shear wall or block construction for wall mounted fixtures and devices.
- Clear Vue vacuum formed removable covers



Kwikon Slab Boxes w/ Molded Connectors

Size (inches)	Part Number	Product Code
8 x 1/2	MBH-10	089022
8 x 3/4	MBH-15	089018
4 x 1/2, 4 x 3/4	MBH-10/15	089020
4 x 1/2, 2 x 3/4, 2 x 1	MBH-10/20	089019
4 x 3/4, 4 x 1	MBH-15/20	089021

Kwikon Slab Boxes w/ Knockouts

8 x 1/2	MB-10	089017
4 x 1/2, 2 x 3/4, 2 x 1	MB-10/20	089016

KWIKON CONCRETE WALL BOXES

- Fully assembled and installation ready
- Perfectly suited for deep or shallow construction preferences
- Kwikon hubs do not protrude inside the box
- Clear Vue vacuum formed removable covers



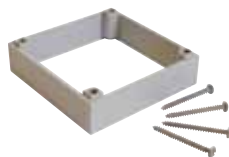
3-1/2" Deep Boxes

Size (inches)	Part Number	Product Code
4 x 1/2, 4 x 3/4	SVDB-H-10/15	089496
4 x 3/4, 4 x 1	SVDB-H-15/20	089049
4 x 1/2, 2 x 3/4, 2 x 1	SVDB-H-10/20	089052
8 x 3/4	SVDB-H-15	089065

2" Shallow Boxes

4 x 1/2	SVSB-H-10	089054
4 x 3/4	SVSB-H-15	089053

- Easily installed.
- Quickly adjusts to new height.



KWIKON SLAB BOX EXTENSION RING

Adjusts height of SMB/SMBH series slab boxes by 1"

Part Number	Product Code
SMBR	089494

Is equipped with several height brackets which accommodate the different rebar and post-tension cable heights and slab depths found from job-site to job-site.



FLOOR BOX STAND KIT

Floor Box Stand Kit (includes FB box)

Part Number	Product Code
FBS-KIT	178269

SUGGESTED SPECIFICATIONS

SECTION 16110 ELECTRICAL RACEWAY SYSTEMS

PART 1: GENERAL

1.1 References

- A. Standards referred to in this section are:
1. UL 1653 Electrical Nonmetallic Tubing.
 2. NEMA TC-13 Electrical Nonmetallic Tubing.



PART 2: PRODUCTS

2.1 Manufacturers

- A. Acceptable manufacturers are listed below
1. Electrical Nonmetallic Tubing:
 - a. Kwikon by IPEX
 2. Electrical Nonmetallic Tubing Fittings:
 - a. Kwikon by IPEX
 3. Electrical Nonmetallic Tubing Boxes:
 - a. Kwikon by IPEX
- B. All ENT tubing, ENT fittings, ENT boxes and accessories shall be manufactured by the same company so as to form a complete ENT system.
- C. ENT systems shall be approved for use in fire resistance rated concrete floor-ceiling assemblies with fire resistance ratings up to 4 hours.

2.2 Raceways

- A. ENT raceway shall be color coded to indicate the wiring system. Blue stripe for power, red stripe for fire alarm/emergency systems and yellow stripe for data/communications.
- B. ENT raceway shall be listed to UL1653 and manufactured in accordance with NEMA TC-13.

2.3 Fittings

- B. ENT Fittings shall meet the following requirements:
1. Six locking tabs located every 60° providing 360° contact.
 2. Locking tabs shall provide a conduit pull-out of a minimum 175 ft-lb force.
 3. Concrete-tight without the need for taping.
 4. When transitioning to EMT conduit, the transition fitting shall have six locking tabs for ENT connection and set-screw connection for EMT.

2.4 Boxes

- A. ENT boxes shall be manufactured of high-impact PVC
- B. ENT Slab Box and Wall Box requirements:
1. Slab Boxes shall be approved for the purpose and concrete-tight.
 2. Round Slab Boxes shall be approved for use with luminaires up to 50 lbs and ceiling fans up to 35 lbs.
 3. Round Slab Boxes shall have threaded brass inserts for the attachment of luminaires or ceiling fans.
 4. Slab Boxes shall have eight (8) integrally molded ENT hub connectors with six locking tabs for ENT raceway connection.

PART 3: INSTALLATION

3.1 Installation

- A. ENT raceways, fittings, boxes and accessories shall be installed in accordance with Article 362 of the 2002 National Electrical Code.
- B. Where ENT penetrates a fire-rated wall, floor or ceiling assembly, an approved firestop system as listed in Underwriters Laboratories Building Materials Directory or other nationally recognized testing laboratory shall be used.



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Kraloy has been an industry leader for over 40 years supplying the electrical trade with a comprehensive offering of nonmetallic PVC fittings. Kraloy offers adapters, couplings, elbows, access fittings, boxes, cover plates, expansion fittings and spacers – virtually any fitting required to complete the PVC conduit system.

Check out the full Kraloy product offering on our web site www.kraloyfittings.com or contact us directly for information.

Only when you specify Kraloy by name are you guaranteed The Fitting Choice.

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THE ICF BOX

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