

ELECTRICAL NONMETALLIC TUBING, FITTINGS AND ACCESSORIES

APPLICATIONS

- Residential dwellings
- Commercial buildings
- Industrial buildings
- Fire alarm systems
- Recreational vehicles
- Marinas and boatyards
- Institutions
- Solar voltaic systems

An integrated system of electrical Non-Metallic tubing and components designed to improve efficiency and lower lifecycle cost.

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FEATURES

Royal Building Products manufactures an extensive corrugated flexible conduit system that is used for electrical raceways. The line of ENT tubing, fittings and components is made from high quality, durable PVC and is available in ½" to 2" diameters. Royal's system includes snap-in couplings, connectors and adapters that make assembly fast and reliable, reducing labor cost.

ENT tubing is pliable, and easy to cut with no special tools required. The result is no sharp edges.

Royal's ENT system weighs approximately 50% less than metal systems; lightweight for easy handling, storage and transportation.

CONSTRUCTION

Components are designed to provide a secure fit. No solvent cement required to achieve a concrete-tight connection. Three click insertion and four prong locking mechanism ensures joint integrity.



For use in walls, floors, non-plenum ceilings and other general purpose applications.

PERFORMANCE

The system is slurry-tight and gives wiring superior protection. It is easy to pull cables and wires through the Royal's ENT corrugated tubing.

CORROSION PROOF

Resistant to most chemicals, PVC is typically not affected by corrosive soils or salts. ENT will not rust or corrode from electrochemical and galvanic environments and requires no maintenance.

IMPACT RESISTANT

Tough, durable, high tensile strength PVC is crush-resistant and strong enough for the harshest jobsite environments.

COMPLETE PRODUCT LINE:

- ENT Tubing in reels, coils or 10' straight lengths
- ENT Slab Boxes in various configurations
- ENT Couplings
- ENT Terminal Adapters
- ENT Connectors
- ENT to EMT Adapters
- Stubbies for Transitions

ELECTRICAL NONMETALLIC TUBING, FITTINGS AND ACCESSORIES

SPECIFICATIONS

Royal ENT is designed to replace EMT, flexible conduit or other raceway or cable systems for installation in accordance with Article 362 of the National Electrical Code, and other applicable sections of the Code and local codes. Royal ENT product shall meet the requirements of UL Standard 1653 and shall be listed by UL as suitable for its intended purpose.

Royal Electrical Solutions fittings and outlet boxes shall be designed for use with ENT and listed by UL.

Royal Building Products Electrical Solutions ENT products shall be installed as a complete system in accordance with NEC Article 300.18 and shall be securely fastened in place at intervals not exceeding 3 ft. of each outlet box, device box, junction box, cabinet or fitting where it terminates.

STORAGE AND HANDLING

- Storage -4°F to 158°F
- Handling -4°F and 105°F
- Not to be stored outdoors

CODES AND STANDARD COMPLIANCE

Royal Building Products' complete line of electrical non-metallic (ENT) tubing and fittings are certified to UL 1653. Royal ENT has achieved the designation of FT-4 Rating in accordance to the Vertical Char Test in UL 1653. Royal ENT is rated for a maximum of 90°C (194°F) wire.

Royal's ENT system is approved for use in wood stud, masonry and metal stud walls, in locations subject to severe corrosive influences covered in NEC Article 300.6 and where subject to chemicals for which the materials are specifically approved, in concealed, dry, and damp locations not prohibited by NEC Article 362.12, above suspended ceilings where the suspended ceilings provide a thermal barrier of material that has at least a 15-minute finish rating as identified in listings of fire-rated assemblies except as permitted in NEC Article 362.10, encased in poured concrete, embedded in a concrete slab on grade, and for wet locations indoors, NEC Article 362.

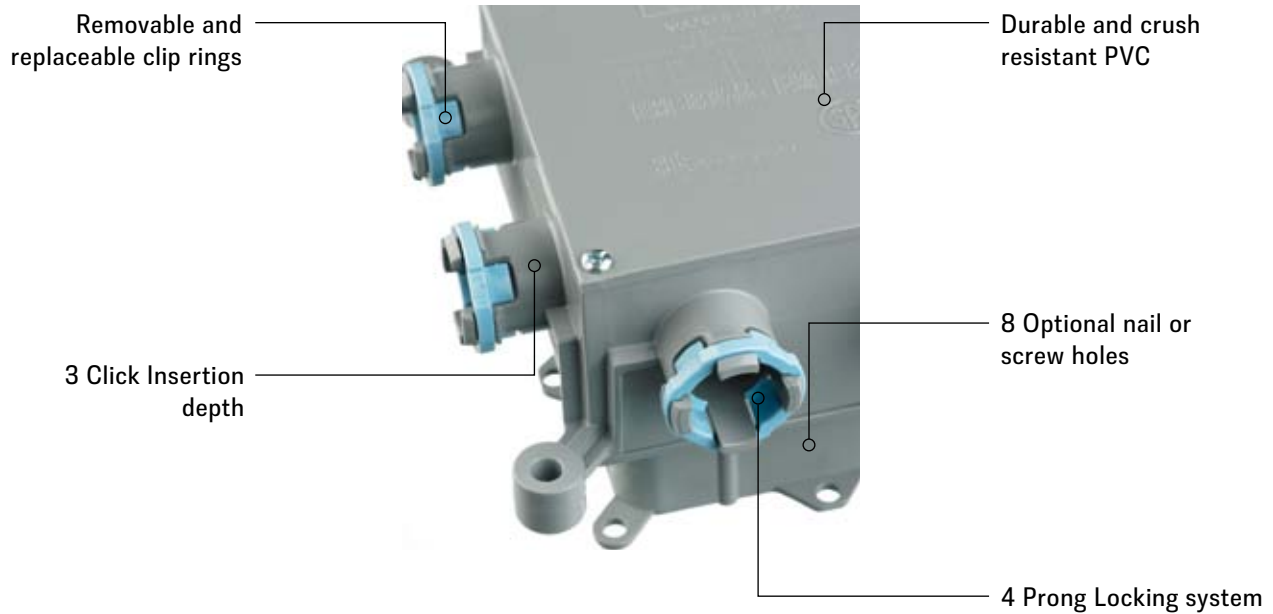
There shall not be more than the equivalent of four quarter bends (360° total) between pull points, for example, slab boxes in electrical non-metallic tubing.

Royal Building Products ENT is not to be in an outside application of any kind as the product is not sunlight resistant.



ELECTRICAL NONMETALLIC TUBING, FITTINGS AND ACCESSORIES

DESIGN ADVANTAGES OF THE ROYAL ENT SYSTEM



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- Three clicks from the tubing during insertion assures the assembly joint is concrete-tight
- Four prong locking system is double the number of tabs in other systems and provides greater assembly joint strength
- Replaceable locking rings are easily removed by cutting without damaging the box or fittings
- EMT to PVC quick adapters easily connect old to new conduit routings and assemblies
- Single and double gang box extensions for wall locations provide greater flexibility

ELECTRICAL NONMETALLIC TUBING, FITTINGS AND ACCESSORIES



ENT INSTALLATION

1. Consult local codes to ensure ENT use is code approved for installation.
2. Cut electrical nonmetallic tubing square and cleanly. Appropriate cutting tools include hacksaws and ENT cutters.
3. All cut ends should be trimmed inside and outside to remove rough edges before assembly.
4. Bend or flex tubing by hand to position. Avoid damaging the tubing with tools or other equipment.
5. Insert tubing end into fitting, making sure three full corrugations are snapped into fitting beyond flexible tabs. There should be three clicks when properly joined. No solvent cementing is required.
6. Keep ENT straight. Small deflections over a long run may accumulate significant degrees of bend which will affect conductor installation.
7. Securely fasten ENT tubing at intervals not exceeding 3 feet to prevent flotation. Suitable materials for fastening tubing include wire, tie wraps and tape.
8. No special training required.



ENT TO CONDUIT INSTALLATION

1. Use a cement marked for use with ENT.
2. Do not use a primer or cleaner before making the assembly.
3. Brush on only; do not use a dauber.
4. Apply a light coat around the tubing, not lengthwise. Do not fill corrugations.
5. Brush out and remove excess cement from corrugations.

ENT FITTINGS & TUBING

COILS BLUE ENT TUBING



SIZE (IN)	RBP PART NUMBER	FEET
1/2"	EC005200BL	200
3/4"	EC007100BL	100
1"	EC010100BL	100
1 1/4"	EC012350BL	350
1 1/2"	EC015300BL	300

REELS BLUE ENT TUBING



SIZE (IN)	RBP PART NUMBER	FEET
1/2"	ERO051500BL	1,500
3/4"	ERO071000BL	1,000
1"	ERO101000BL	1,000
1 1/4"	ERO121000BL	1,000
1 1/2"	ERO15750BL	750
2"	ERO20500BL	500

STRAIGHT LENGTH BLUE ENT TUBING



SIZE (IN)	RBP PART NUMBER	FEET
1/2"	ES00510BL	100
3/4"	ES00710BL	100
1"	ES01010BL	100

Supplied in 10 foot lengths

SIZE (IN)	RBP PART NUMBER	FEET
1/2"	EC005370	370
3/4"	EC007240	240
1"	EC010160	160
1 1/4"	EC012500	500
1 1/2"	EC015300	300
2"	EC020225	225

COILS GREY ENT TUBING



SIZE (IN)	RBP PART NUMBER	FEET
1/2"	ER0052000	2,000
3/4"	ER0071500	1,500
1"	ER0101000	1,000
1 1/4"	ER0121000	1,000
1 1/2"	ER015750	750
2"	ER020500	500

REELS GREY ENT TUBING



SIZE (IN)	RBP PART NUMBER	FEET
1/2"	ES00510	100
3/4"	ES00710	100
1"	ES01010	100

Supplied in 10 foot lengths

STRAIGHT LENGTH GREY ENT TUBING



ENT FITTINGS & TUBING

ENT COUPLING



SIZE (IN)	RBP PART NUMBER	CARTON QUANTITY
1/2"	RKC10	150
3/4"	RKC15	100
1"	RKC20	50
1 1/4"	RKC25	50
1 1/2"	RKC30	40
2"	RKC35	25

ENT THREADED TERMINAL ADAPTER (CONNECTOR) W/ LOCK NUT



SIZE (IN)	RBP PART NUMBER	CARTON QUANTITY
1/2"	RKTA10	150
3/4"	RKTA15	100
1"	RKTA20	50
1 1/4"	RKTA25	50
1 1/2"	RKTA30	50
2"	RKTA35	25

ENT TO EMT ADAPTER (CONNECTOR) W/ SET SCREW



SIZE (IN)	RBP PART NUMBER	CARTON QUANTITY
1/2"	RKTC10	125
3/4"	RKTC15	100
1"	RKTC20	50
1 1/4"	RKTC25	50
1 1/2"	RKTC30	40
2"	RKTC35	15

ENT SNAP-IN CONNECTOR



SIZE (IN)	RBP PART NUMBER	CARTON QUANTITY
1/2"	RKTS10	150
3/4"	RKTS15	100
1"	RKTS20	50

ENT CLIP RING



SIZE (IN)	RBP PART NUMBER	CARTON QUANTITY
1/2"	RKR10	200
3/4"	RKR15	200
1"	RKR20	200
1 1/4"	RKR25	100
1 1/2"	RKR30	100
2"	RKR35	50

SIZE (IN)	RBP PART NUMBER	CARTON QUANTITY
1/2"	RLN10	200
3/4"	RLN15	200
1"	RLN20	200
1 1/4"	RLN25	200
1 1/2"	RLN30	200
2"	RLN35	200

HEAVY DUTY LOCK NUT



SIZE (IN)	RBP PART NUMBER	CARTON QUANTITY
1/2"	RECM10	150
3/4"	RECM15	150
1"	RECM20	200
1 1/4"	RECM25	200

STRAIGHT STUBBY (POLYETHYLENE)



SIZE (IN)	RBP PART NUMBER	CARTON QUANTITY
1/2"	RKASTB10	50
3/4"	RKASTB15	50
1"	RKASTB20	50
1 1/4"	RKASTB25	50
1 1/2"	RKASTB30	50
2"	RKASTB35	50

45° ANGLED FORM STUBBY (POLYETHYLENE)



SIZE (IN)	RBP PART NUMBER	CARTON QUANTITY
1/2"	RTP10	250
3/4"	RTP15	100
1"	RTP20	100

TAPERED PLUG (POLYETHYLENE)



SIZE (IN)	RBP PART NUMBER	CARTON QUANTITY
1" Extension	R SMBEXTENSION	20

SLAB BOX EXTENSION



ENT FITTINGS & TUBING

ENT SLAB BOX WITH HUB EXTENSIONS AND GREY LID



SIZE (IN)	RBP PART NUMBER	CARTON QUANTITY
1/2 (8)	RSMB-H-10	25
1/2 (4) 3/4 (4)	RSMB-H-10-15	25
1/2 (4) 3/4 (2) 1 (2)	RSMB-H-10-15-20	25
1/2 (4) 1 (4)	RSMB-H-10-20	25
3/4 (8)	RSMB-H-15	25
3/4 (4) 1 (4)	RSMB-H-15-20	25

ENT SLAB BOX WITH KNOCKOUTS AND GREY LID



SIZE (IN)	RBP PART NUMBER	CARTON QUANTITY
1/2 (8)	RSMB-10	25
1/2 (4) 3/4 (4)	RSMB-10-15	25
1/2 (4) 3/4 (2) 1 (2)	RSMB-10-15-20	25
3/4 (8)	RSMB-15	25
3/4 (4) 1 (4)	RSMB-15-20	25
1/2 (2) 3/4 (4) 1(2)	RSMB-15-20-10	25

ENT SHALLOW SLAB BOX



SIZE (IN)	RBP PART NUMBER	CARTON QUANTITY
1/2 (8)	RSMBS-H-10	25
1/2 (4) 3/4 (4)	RSMBS-H-10-15	25
1/2 (4) 3/4 (2) 1 (2)	RSMBS-H-10-15-20	25
1/2 (4) 1 (4)	RSMBS-H-10-20	25
3/4 (8)	RSMBS-H-15	25
3/4 (4) 1 (4)	RSMBS-H-15-20	25

SIZE (IN)	RBP PART NUMBER	CARTON QUANTITY
1/2 (8)	RSMB-10-IMB	20
1/2 (4) 3/4 (4)	RSMB-10-15-IMB	20
1/2 (4) 3/4 (2) 1 (2)	RSMB-10-15-20-IMB	20
1/2 (4) 1 (4)	RSMB-10-20-IMB	20
3/4 (8)	RSMB-15-IMB	20
3/4 (4) 1 (4)	RSMB-15-20-IMB	20

ENT ISOLATOR MODULE SLAB BOX



SIZE (IN)	RBP PART NUMBER	CARTON QUANTITY
1/2"	RSVSB-H-10	70
3/4"	RSVSB-H-15	70
1"	RSVSB-H-20	70

- Certified by CSA to UL 514C

ENT SHALLOW SINGLE GANG CONCRETE WALL BOX



SIZE (IN)	RBP PART NUMBER	CARTON QUANTITY
1/2 (8)	RSVDB-H-10	25
1/2 (4) 3/4 (4)	RSVDB-H-10-15	25
1/2 (4) 3/4 (2) 1 (2)	RSVDB-H-10-15-20	25
1/2 (4) 1 (4)	RSVDB-H-10-20	25
3/4 (8)	RSVDB-H-15	25
3/4 (4) 1 (4)	RSVDB-H-15-20	25

- Certified by CSA to UL 514C

ENT DEEP SINGLE GANG CONCRETE WALL BOX



SIZE (IN)	RBP PART NUMBER	CARTON QUANTITY
1/2 (8)	RSSB-H-10	25
1/2 (4) 3/4 (4)	RSSB-H-10-15	25
1/2 (4) 3/4 (2) 1 (2)	RSSB-H-10-15-20	25
1/2 (4) 1 (4)	RSSB-H-10-20	25
3/4 (8)	RSSB-H-15	25
3/4 (4) 1 (4)	RSSB-H-15-20	25

- UL Listed for box only

DIVIDER PLATE - SOLD SEPARATELY

	RSSB-H-DC	10
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ENT SQUARE SLAB BOX

