

Quincy Facility 1302 NE Intermodal Way Quincy, WA 98848 (509) 497-0350

### SUBMITTAL SHEET - FIBERGLASS ELBOW





ם ס		Dimensions (inches)				
'ipe Size (inches)	Tangent Length T (min)	Standard Radius R (min)	Bell Entrance A (avg)	Bell Bottom B (avg)	Bell Length C (min)	
1/2	1 ½	4	0.852	0.836	0.652	
3⁄4	1½	4 ½	1.064	1.046	0.719	
1	1 7%	5 ¾	1.330	1.310	0.875	
1 ¼	2	7 ¼	1.677	1.655	0.938	
1 ½	2	8 ¼	1.918	1.894	1.062	
2	2	9 ½	2.393	2.369	1.125	
2 ½	3	10 ½	2.890	2.868	1.469	
3	3 1⁄8	13	3.515	3.492	1.594	
3 ½	3 ¼	15	4.015	3.992	1.687	
4	3 ¾	16	4.515	4.491	1.750	
5	3 ⁵⁄ଃ	24	5.593	5.553	1.937	
6	3 ¾	30	6.658	6.614	2.125	

8" and larger diameters available upon request (non-UL listed)

#### Advantages & Highlights of Fiberglass Elbows

- Manufactured to UL 2515 specifications for ABOVE GROUND REINFORCED THERMOSETTING RESIN CONDUIT (RTRC) AND FITTINGS
- Come with factory installed PVC couplings or stubs with a spigot end
- Wide ranges of sizes ¾" 6", available in 11.25°, 22.5°, 30°, 45°, 90°, large radius sweeps available upon request

S40 DSDB Coupling Dimensions







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### SUBMITTAL SHEET - PVC ELBOW



	Dimensions (inches)						
'ipe Size (inches)	Tangent Length T (min)	Standard Radius R (min)	Bell Entrance A (avg)	Bell Bottom B (avg)	Bell Length C (min)		
1/2	1 ½	4	0.852	0.836	0.652		
3⁄4	1 ½	4 1⁄2	1.064	1.046	0.719		
1	1 1⁄8	5 ¾	1.330	1.310	0.875		
1 ¼	2	7 ¼	1.677	1.655	0.938		
1 ½	2	8 ¼	1.918	1.894	1.062		
2	2	9 ½	2.393	2.369	1.125		
2 ½	3	10 ½	2.890	2.868	1.469		
3	3 1⁄8	13	3.515	3.492	1.594		
3 ½	3 ¼	15	4.015	3.992	1.687		
4	3 ¾	16	4.515	4.491	1.750		
5	3 ⁵⁄ଃ	24	5.593	5.553	1.937		
6	3 ¾	30	6.658	6.614	2.125		

8" and larger diameters available upon request (non-UL listed)

#### Advantages & Highlights of PVC Elbows

- Manufactured to UL 651 specifications for SCHEDULE 40, 80, TYPE EB and A RIGID PVC CONDUIT and FITTINGS
- Rigid PCD conduit and fittings covered in these requirements are intended to be joined to each other and to rigid PCD boxes, conduit bodies, and fittings in the field by such means as a push-fit or a cement that is or contains a solvent for PVC.

Integral Coupling Dimensions





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### EZ BENDS



(inches)	Pine Size	Schedule 40 Weight (lbs)	Schedule 80 Weight (lbs)
2		7.32	9.60
2 ½		11.64	14.64
3		16.56	19.56

 Compression formed interference fit conforms to UL651 and NEMA TC-3 Polyvinyl Chloride (PVC) Fittings for Use with Rigid PVC Conduit and Tubing

Couplings are intended to be joined with a cement that is or contains a solvent for polyvinyl chloride

- Designed to go from underground up to a junction box connection
- Flared Ends allow the cable to be pulled through without going over edges
- EZ Bends are made from 10 ft PVC sticks
- Dimensions are approximate and subject to normal manufacturing tolerances.



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# EZ RISER AND

### POLE RISER

Pipe Size (inches)	Part Type	Radius	Approximate Overall Length (in)	Schedule 80 Weight (lbs)
2 ½	EZ Riser	90° x 24″	106	22.6
3	EZ Riser	90° x 24″	106	29.6
4	EZ Riser	90° x 24″	106	42.2
2 ½	Pole Riser	90° x 36″	219	32.7
3	Pole Riser	90° x 36″	219	44.0
4	Pole Riser	90° x 36″	219	63.3



#### Advantages & Highlights of EZ & Pole Riser

- Schedule 80 pipe is conforming to UL 651 and NEMA TC-2 Electrical Polyvinyl Chloride (PVC) Conduit
- Compression formed interference fit conforms to UL651 and NEMA TC-3 Polyvinyl Chloride (PVC) Fittings for Use with Rigid PVC Conduit and Tubing
- Couplings are intended to be joined with a cement that is or contains a solvent for polyvinyl chloride
- EZ Risers are made from 10 ft sticks with a 90° x 24" radius with an integral coupling
- Pole Risers are made from 20 ft sticks with a 90° x 36" radius with an integral coupling
- Dimensions are approximate and subject to normal manufacturing tolerances.

\*Other sizes available upon request

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# Double Socket Deep Bell (DSDB) Couplings



Pipe Size (inches)	Overall Length (avg)	Bell Entrance A (avg)	Bell Bottom B (avg)	Bell Length C (min)	Weight (Ibs)
1/2	3.0	0.852	0.836	0.652	0.049
3⁄4	3.25	1.064	1.046	0.719	0.068
1	3.25	1.330	1.310	0.875	0.101
1 ¼	4.5	1.677	1.655	0.938	0.190
1½	5.0	1.918	1.894	1.062	0.253
2	6.0	2.393	2.369	1.125	0.397
2 ½	6.0	2.890	2.868	1.469	0.631
3	8.5	3.515	3.492	1.594	1.277
3 ½	7.0	4.015	3.992	1.687	1.291
4	9.5	4.515	4.491	1.750	2.065
5	10.5	5.593	5.553	1.937	3.137
6	12.5	6.658	6.614	2.125	4.887

All dimensions are inches and for Schedule 40 products



#### Advantages & Highlights of DSDB Couplings

- Manufactured from pipe conforming to UL 651 and NEMA TC-2 Electrical Polyvinyl Chloride (PVC) Conduit
- Compression formed interference fit conforms to UL651 and NEMA TC-3 *Polyvinyl Chloride (PVC) Fittings for Use with Rigid PVC Conduit and Tubing*
- Raceway Couplings are approximately 2-3 times the minimum bell length for ease of installation in the field
- Couplings are intended to be joined with a cement that is or contains a solvent for poly-vinyl chloride
- Dimensions are approximate and subject to normal manufacturing tolerances
- Coupling are available upon request for the following schedules:
  - Schedule 40 sizes = ½" 6"
  - Schedule 80 sizes = 1" 6"
  - DB 120 = 2", 3", 4", 5", 6"
  - Schedule 40 Buff = 2"
  - Gas Sleeve = ½" 4"
  - C-duct = 4"



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DEFLECTION (5°) COUPLINGS



Pipe Size (inches)	Overall Length (avg)	Bell Entrance A (avg)	Bell Bottom B (avg)	Bell Length C (min)	Weight (Ibs)
1/2	3.0	0.852	0.836	0.652	0.049
3⁄4	3.25	1.064	1.046	0.719	0.068
1	3.25	1.330	1.310	0.875	0.101
1 ¼	4.5	1.677	1.655	0.938	0.190
1 ½	5.0	1.918	1.894	1.062	0.253
2	6.0	2.393	2.369	1.125	0.397
2 ½	6.0	2.890	2.868	1.469	0.631
3	8.5	3.515	3.492	1.594	1.277
3 ½	7.0	4.015	3.992	1.687	1.291
4	9.5	4.515	4.491	1.750	2.065
5	10.5	5.593	5.553	1.937	3.137
6	12.5	6.658	6.614	2.125	4.887

#### Advantages & Highlights of 5° Couplings

- Manufactured from pipe conforming to UL 651 and NEMA TC-2 Electrical Polyvinyl Chloride (PVC) Conduit
- Compression formed interference fit conforms to UL651 and NEMA TC-3 *Polyvinyl Chloride (PVC) Fittings for Use with Rigid PVC Conduit and Tubing*
- Raceway Couplings are approximately 2-3 times the minimum bell length for ease of installation in the field
- Couplings are intended to be joined with a cement that is or contains a solvent for polyvinyl chloride
- Dimensions are approximate and subject to normal manufacturing tolerances



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# **PVC SWEDGE REDUCERS**



- 1. Bell-by-Spigot (picture to left)
- 2. Bell-by-Bell (picture below)
  - Tapered interference fit for solvent weld PVC •
  - Socket per NEMA TC-3 socket entrance.
  - Optional Inner ID chamfered 0.3" min. at 45°



Size	OAL	Α	В	C	Weight
	(inch)	(inch)	(inch)	(inch)	(lbs)
1 - ¾	2.75	1.125	1.125	0.5	0.068
1 ¼ - 1	3.875	1.75	1.625	0.5	0.171
1 ½ - 1	4.0	1.75	1.5	0.75	0.230
2 - 1 ¼	4.75	2.25	2.0	0.75	0.566
2 - 1 ½	4.75	2.0	2.0	0.75	0.336
2 ½ - 2	6.75	2.75	3.0	1.0	0.728
3 - 2	7.25	3.0	3.25	1.0	1.242
3 - 2 ½	8.0	3.25	3.75	1.0	1.173
4 - 3	8.75	4.25	4.0	1.5	1.970
5 - 4	10.5	4.25	4.0	1.75	3.137
6 - 5	11.75	4.75	5.25	1.25	4.411

\*Other sizes available upon request



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Size	OAL	А	В	С
	(inch)	(inch)	(inch)	(inch)
3 - 2	7.0	2.875	1.75	2.375
3 - 2 ½	7.75	2.875	2.5	2.375
4 - 3	8.5	3.375	2.875	2.25
5 - 4	10.0	4.0	3.375	2.625
6 - 5	11.25	4.0	4.5	2.75

В

#### **Advantages & Highlights of Swedge Reducers**

Manufactured to NEMA TC-3 specifications for Poly-• vinyl Chloride (PVC) Fittings for Use with Rigid PVC Conduit and Tubing.

Rigid PCD conduit and fittings covered in these re-• quirements are intended to be joined with a cement that is or contains a solvent for polyvinyl chloride.

Dimensions are approximate and subject to normal manufacturing tolerances.



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# EXTENDED FA



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Pipe Size (inches)	Overall Length OAL (avg)	Threaded Side A (inch)	PVC Bell Side B (inch)	Gap C (inch)	Weight (Ibs)
2	6.5	2	3	1.5	0.620
3	7.0	2	3.5	1.5	1.345
4	7.5	2	4	1.5	2.052
5	9.25	2.5	5.5	1.25	3.310
6	9.75	2.75	5.5	1.5	5.005

#### Advantages & Highlights of Extended FAs:

- Manufactured from Schedule 80 pipe conforming to UL 651 and NEMA TC-2 *Electrical Polyvinyl Chloride (PVC) Conduit*
- Compression formed interference fit conforms to UL651 and NEMA TC-3 Polyvinyl Chloride (PVC) Fittings for Use with Rigid PVC Conduit and Tubing
- Couplings are intended to be joined with a cement that is or contains a solvent for polyvinyl chloride
- Threads are made to NPT (National Pipe Tapered)
  - 2" = 11.5 threads per inch
  - 3", 4", 5", 6" = 8 threads per inch
  - Taper is 3/4" per foot (approx. 3.5°)
- Dimensions are approximate and subject to normal manufacturing tolerances

All dimensions are inches

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EXTENDED TA

### (TERMINAL ADAPTER)





Pipe Size (inches)	Overall Length OAL (avg)	Thread Length (in)	Bell Depth (in)	Weight (Ibs)
2	6.5	1.125	3.5	0.620
3	7.0	1.5	4.0	1.345
4	7.5	1.625	4.5	2.052

All dimensions are inches

Other sizes available upon request

#### Advantages & Highlights of Extended TAs:

- Manufactured from Schedule 80 pipe conforming to UL 651 and NEMA TC-2 *Electrical Polyvinyl Chloride (PVC) Conduit*
- Compression formed interference fit conforms to UL651 and NEMA TC-3 Polyvinyl Chloride (PVC) Fittings for Use with Rigid PVC Conduit and Tubing
- Couplings are intended to be joined with a cement that is or contains a solvent for polyvinyl chloride
- Threads are made to NPT (National Pipe Tapered)
  - 2" = 11.5 threads per inch
  - 3" & 4" = 8 threads per inch
  - Taper is 3/4" per foot (approx. 3.5°)
- Dimensions are approximate and subject to normal manufacturing tolerances



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### FABRICATED END BELLS



Pipe (inc	Overall	Flare	PVC		Flare	
he	Length	Side A	Side B	Gap	Width	Weight
ze s)	OAL (avg)	(avg)	(avg)	C (avg)	D (avg)	(lbs)
2	2.5	0.375	1.25	1	3.25	0.20
3	4.0	0.5	2.5	1	4.75	0.87
4	5.5	0.625	3.375	1.5	6.0	1.68
6	8.25	1.0	5.75	1.5	7.5	3.29

All dimensions are inches and for Schedule 40 pipe



#### **Advantages & Highlights of Fabricated End Bells**

- Manufactured from Schedule 40 pipe conforming to UL 651 and NEMA TC-2 *Electrical Polyvinyl Chloride* (*PVC*) Conduit
- DB120 is manufactured from pipe conforming to ASTM F512 Smooth-Wall Poly(Vinyl Chloride) (PVC) Conduit and Fittings for Underground Installation
- Compression formed interference fit conforms to UL651 and NEMA TC-3 Polyvinyl Chloride (PVC) Fittings for Use with Rigid PVC Conduit and Tubing
- Couplings are intended to be joined with a cement that is or contains a solvent for polyvinyl chloride
- For use with Schedule 40 and Schedule 80 conduit
- Protects wiring which is being pulled through concrete vault walls
- DB 120 & C-duct Fabricated End Bells are available upon request
- Dimensions are approximate and subject to normal manufacturing tolerances
- Schedule 40 Fabricated End Bells are used in concrete vault walls to provide a smooth safe entrance to the conduit outside.



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### POLY TO POLY ADAPTERS

One side has right hand threads and the other side has left hand threads to join two pieces of polyethylene pipe simultaneously





Pipe Size (inches)	Overall Length OAL (avg)	Poly Side A (avg)	Poly Side B (avg)	Gap C (min)	Weight (Ibs)
1	5.5	2.25	2.25	0.75	0.236
1 ¼	6.5	2.5	2.5	1.0	0.360
1 ½	6.75	2.75	2.75	1.0	0.450
2	7.5	3.25	3.25	1.0	0.720
3	8.75	3.75	3.75	1.5	1.633
4	10.5	4.0	4.0	1.5	2.737
6	14.5	6.25	6.25	2.0	7.166

#### Advantages & Highlights of Poly-Poly Adapters

- Manufactured from Schedule 80 pipe conforming to UL 651 and NEMA TC-2 *Electrical Polyvinyl Chloride (PVC) Conduit*
- Poly side is threaded to screw directly onto polyethylene pipe
  - Threads are made to the following specifications
    - $\frac{1}{2}$ " 2" = 10 threads per inch
    - 3" 6" = 8 threads per inch
    - Taper is 3/4" per foot (approx. 3.5°)
- Right Hand Thread (RHT) and Left Hand Thread (LHT) allow two plain ends of polyethylene pipe to be joined at the same time
- Dimensions are approximate and subject to normal manufacturing tolerances



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# POLY TO PVC ADAPTERS





Pipe Size (inches)	Overall Length (avg)	PVC Side A (avg)	Poly Side B (avg)	Gap C (min)	Weight (Ibs)
1	4.5	1.25	2.5	0.75	0.184
1 ¼	5.0	1.375	2.625	1.0	0.288
1½	6.5	2.5	3.0	1.0	0.435
2	6.5	2.5	3.0	1.0	0.600
3	8.5	3.0	4.0	1.5	1.548
4	8.5	2.5	4.5	1.5	2.320
6	13.5	4.5	6.5	2.5	6.711

#### Advantages & Highlights of Poly-PVC Couplings

- Manufactured from Schedule 80 pipe conforming to UL 651 and NEMA TC-2 *Electrical Polyvinyl Chloride* (*PVC*) Conduit
- Compression formed interference fit conforms to UL651 and NEMA TC-3 Polyvinyl Chloride (PVC) Fittings for Use with Rigid PVC Conduit and Tubing
- Poly side is threaded and designed to grip plain end polyethylene pipe
- Threads are made to the following specifications
  - ½" 2" = 10 threads per inch
  - 3" 6" = 8 threads per inch
  - Taper is 3/4" per foot (approx. 3.5°)
- 2" Poly-to-PVC couplings have undergone tensile testing and have an average pull force over 325 lbs.
- Couplings are intended to be joined with a cement that is or contains a solvent for polyvinyl chloride
- Dimensions are approximate and subject to normal manufacturing tolerances



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### EXPANSION COUPLINGS





Pipe Size (inches)	Closed Length (in)	Open Length (in)	Weight (Ibs)
1/2	12.0	19.0	0.270
3⁄4	13.0	19.5	0.374
1	14.0	20.0	0.648
1 ¼	14.5	20.5	0.912
1 ½	15.0	21.0	1.127
2	16.0	24.5	1.647
2 ½	17.0	25.0	2.716
3	18.0	25.5	4.002
3 ½	19.0	27.5	5.146
4	20.0	28.5	6.304
5	22.0	29.0	8.811
6	23.5	29.5	11.764



#### **Advantages & Highlights of Expansion Couplings**

- Manufactured from Schedule 40 or 80 pipe conforming to UL 651 and NEMA TC-2 Electrical Polyvinyl Chloride (PVC) Conduit
- Compression formed interference fit conforms to UL651 and NEMA TC-3 Polyvinyl Chloride (PVC) Fittings for Use with Rigid PVC Conduit and Tubing
- Couplings are intended to be joined with a cement that is or contains a solvent for polyvinyl chloride
- 6" travel minimum travel distance
- Made with 2 buna rubber O-rings separated by 7/16" - 1/2" and lubricated with Way Oil Vistac 68
- Dimensions are approximate and subject to normal manufacturing tolerances



SLIP METER RISER

SIMPLIFIED PART

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### METER RISER CLASSIC PART



Pipe Size (inches)	Overall Length OAL (in)	Sch.	Fitting (in)
2½ - 3	24	40	TA = 2½" Custom swedge reducer Fits over 3" IPS pipe
3	24	40	TA = 3" Custom swedge reducer Fits over 3" IPS pipe

24"					
	(inches)	Pipe Size	Overall Length OAL (in)	Sch.	Fitting (in)
	1¼		24	80	TA = 1¼"
	1½		24	80	TA = 1½"
	2		24	80	TA = 2"
	3		24	80	TA = 3"

#### Advantages & Highlights of Slip Meter Risers

- Meter Risers are the classic design with 3 separate parts glued together with a cement that is or contains a solvent for poly- vinyl chloride. Note: the swedge reducer is a custom part for this product.
- Slip Meter Risers are a simplified design that does not require the custom swedge reducer.
- Both types of Meter Risers provide a transition from rigid or corrugated conduit underground service to the electric meter with a terminal adapter glued in place.
- Raceways Meter Risers are manufactured from UL listed PVC conduit, UL listed PVC fittings, and PVC cement.



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### REPAIR COUPLINGS



Pipe Size (inches)	C-duct Availability	DB 120 Availability	Schedule 40 Availability	Schedule 40 Weight (lbs)
1	No		Yes	0.324
1 ¼	No	No	Yes	0.456
1½	No		Yes	0.552
2	No	Yes	Yes	0.732
2 ½	No	No	Yes	1.164
3	No	Yes	Yes	1.656
3 ½	No	No	Yes	1.992
4	Yes	Yes	Yes	2.364
5	No		Yes	3.204
6	No	Yes	Yes	4.152

#### Advantages & Highlights of Repair Couplings

- Schedule 40 pipe is manufactured from pipe conforming to UL 651 and NEMA TC-2 *Electrical Polyvinyl Chloride (PVC) Conduit*
- DB120 is manufactured from pipe conforming to ASTM F512 Smooth-Wall Poly(Vinyl Chloride) (PVC) Conduit and Fittings for Underground Installation
- Couplings are intended to be joined with a cement that is or contains a solvent for polyvinyl chloride
- Weights are calculated for the nominal length of Schedule 40 pipe at 11" overall length
- Repair Coupling lengths are approximate and are bumped (edges made flat) for the following lengths:
  - 11"
  - 8"
  - 6"
  - Other custom upon request



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### PVC SPLIT REPAIR COUPLINGS





Size	OAL	S/40 Weight
	(inch)	(lbs)
1/2	11	0.156
3⁄4	11	0.216
1	11	0.324
1 ¼	11	0.456
1 ½	11	0.552
2	11	0.732
2 1/2	11	1.164
3	11	1.656
3 1/2	11	1.992
4	11	2.364
5	11	3.204
6	11	4.152

#### Advantages & Highlights of PVC Split Repair Couplings

- Schedule 40 & 80 pipe conforming to UL 651 and NEMA TC-2 *Electrical Polyvinyl Chloride (PVC) Conduit*
- DB120 pipe is conforming to ASTM F512 Smooth-Wall Poly(Vinyl Chloride) (PVC) Conduit and Fittings for Underground Installation
- Split Repair Couplings are formed to slip over the OD of PVC pipe then split lengthwise
- Both halves are put back together with H-strips and PVC clips
- Weights are calculated for the nominal length of Schedule 40 pipe at 11" overall length as a standard length
- Split Repair Couplings are also available in a 6" length
- Dimensions are approximate and subject to normal manufacturing tolerances.



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## PVC SPLIT DUCT



#### **Advantages & Highlights of Split Duct**

- Schedule 40 & 80 pipe conforming to UL 651 and NEMA TC-2 Electrical Polyvinyl Chloride (PVC) Conduit
- DB120 pipe is conforming to ASTM F512 Smooth-Wall Poly(Vinyl Chloride) (PVC) Conduit and Fittings for
- Underground Installation
- Split Duct is available in Schedule 40, 80, and DB120 with sizes from 1/2" to 6"
- 10 foot sticks are cut in half and reassembled with H-strips and PVC snap rings
- Split duct less than 2" OD does not contain H-strips
- Contact Raceways for split duct elbow availability
- Dimensions are approximate and subject to normal manufacturing tolerances.