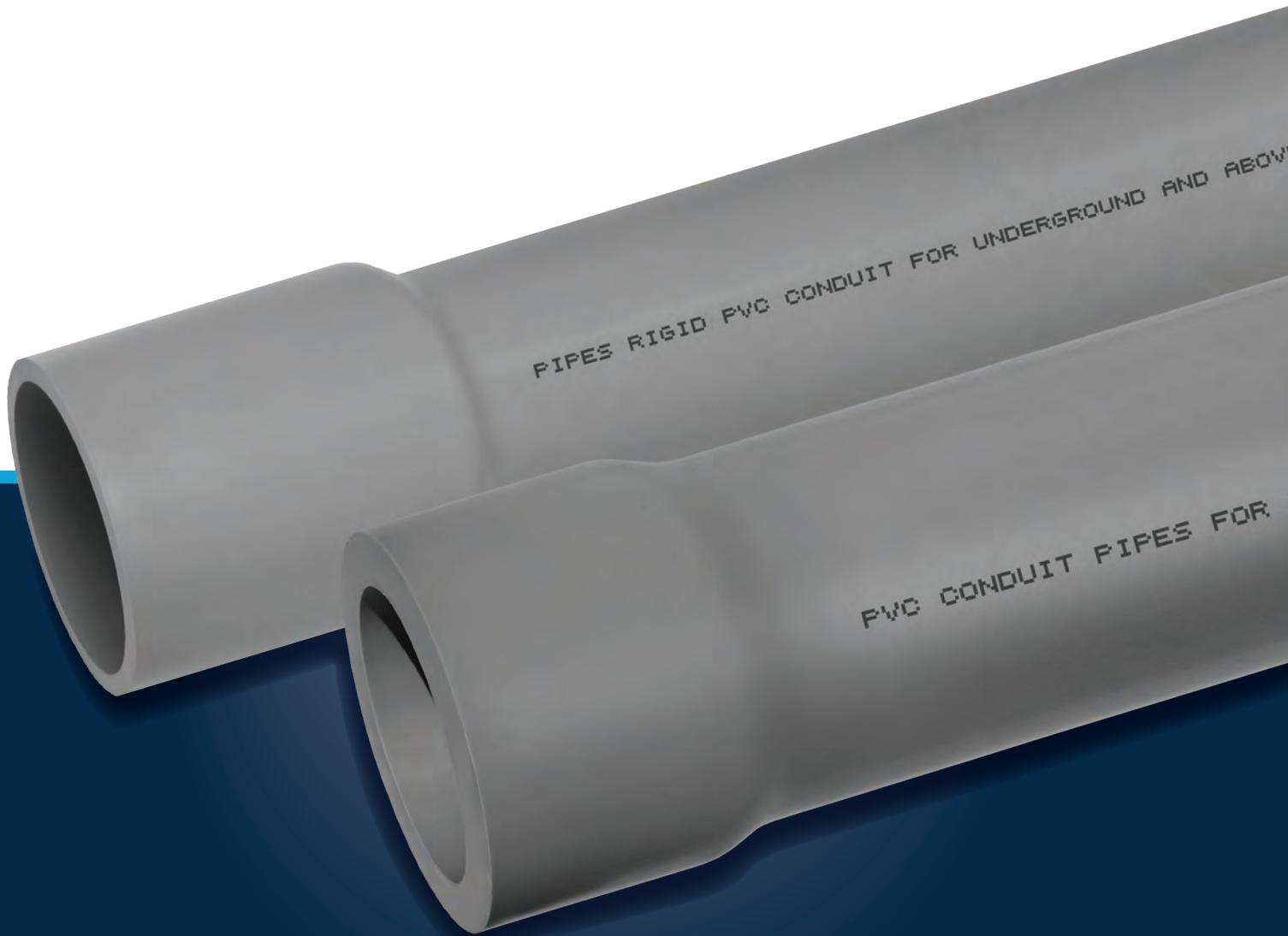


E-Z WELD® CONDUIT

BY ALVA



PVC Conduit

E-ZWELD® CONDUIT

BY ALVA

ALVA Manufacturing is your trusted source for high-quality PVC conduit solutions. With over 30 years of manufacturing expertise, we deliver UL-certified conduits designed for reliability and safety across a range of electrical applications.

From Sch 40 to Sch 80, our conduits meet stringent standards while ensuring ease of installation.

In addition to PVC, our plants manufacture CPVC, HDPE, and PPR pipes, offering comprehensive solutions tailored to our customers.

At **ALVA Manufacturing**, we prioritize customer satisfaction by seamlessly managing the supply chain from order to delivery. Our commitment to quality and innovation ensures consistent performance and reliability in every product.



PVC Conduit

PVC Conduit, also known as polyvinyl chloride conduit, is a type of plastic pipe commonly used in electrical applications to protect and route electrical wiring. It is a rigid, non-metallic pipe made of PVC material, which is a thermoplastic polymer that is lightweight, durable, and resistant to corrosion, moisture, and impact.

ALVA Manufacturing offers PVC Conduit in sizes ranging from 1/2 inch to 6 inches in diameter. PVC Conduit is typically used in applications where a high degree of physical protection is required.

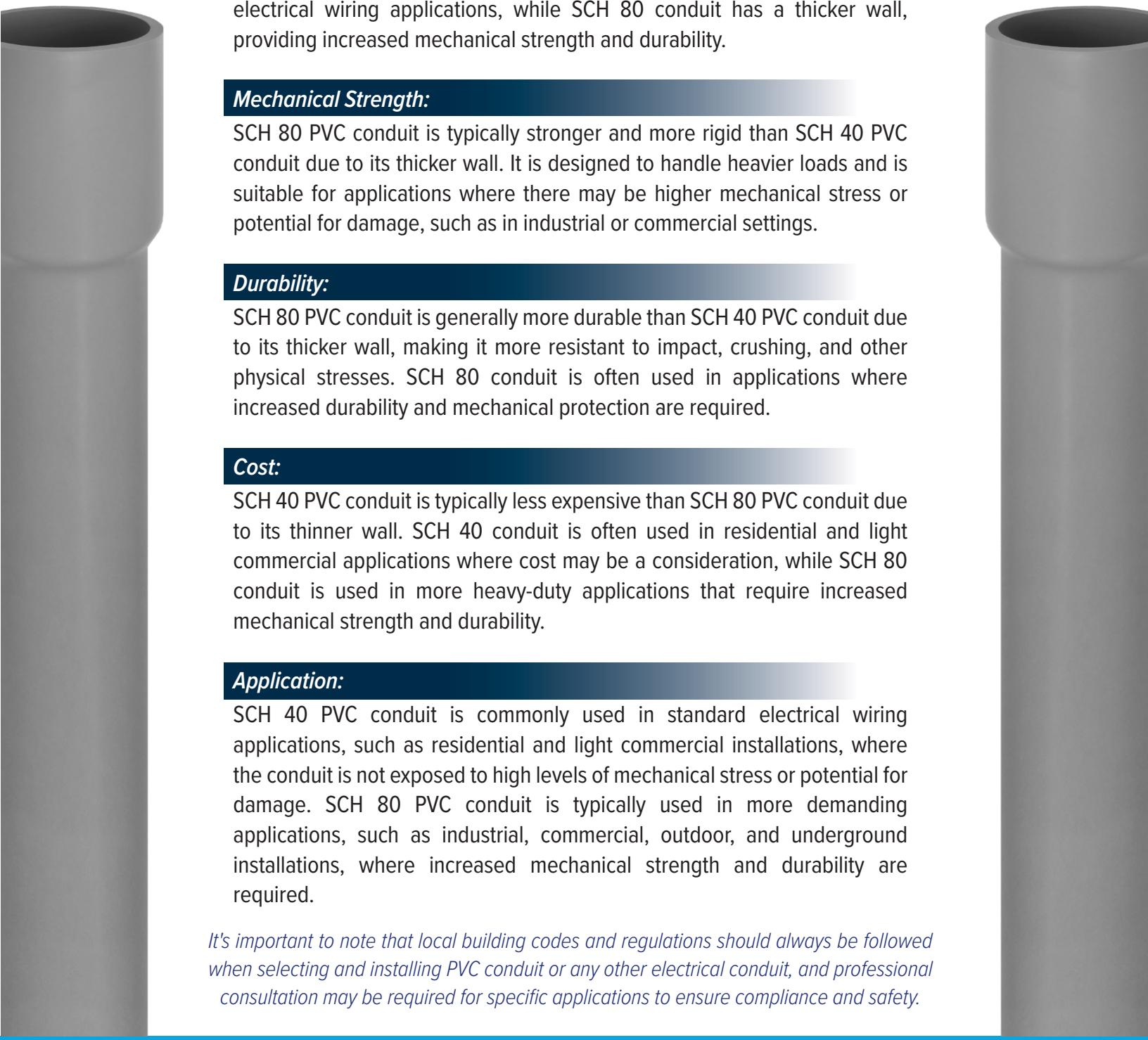
ALVA Manufacturing PVC Conduit is easy to install and is certified to be used in outdoor and underground applications where exposure to harsh weather conditions or moisture is a concern. It can also be used in commercial and industrial settings, as well as in residential applications, such as wiring for lighting fixtures and outlets.

Non-metallic conduit, such as PVC conduit, has several advantages over metal conduit:

- 1. Corrosion Resistance:** Non-metallic conduit is resistant to corrosion, which makes it ideal for use in outdoor and damp environments. In contrast, metal conduit can corrode over time, particularly if it is exposed to moisture or other harsh conditions.
- 2. Lightweight and Easy to Install:** Non-metallic conduit is much lighter than metal conduit, which makes it easier to install and handle. This can result in faster installation times and lower labor costs.
- 3. Low Conductivity:** Non-metallic conduit has low conductivity, which means that it doesn't conduct electricity. This can be an advantage in situations where you want to reduce the risk of electrical shock.
- 4. Cost-effective:** Non-metallic conduit is generally less expensive than metal conduit, making it an attractive option for projects with tight budgets.
- 5. Chemical Resistance:** Non-metallic conduit is resistant to many chemicals and solvents, which can make it a good choice for use in industrial or chemical applications.



In summary, non-metallic conduit has several advantages over metal conduit, including **corrosion resistance, lightweight and easy installation, low conductivity, cost-effectiveness and chemical resistance**.



PVC conduit with SCH 40 (Schedule 40) and SCH 80 (Schedule 80) designations refer to two different types of PVC conduit that have different wall thicknesses and are used for different applications. Here are some key differences between SCH 40 and SCH 80 PVC conduit:

Wall Thickness:

SCH 40 PVC conduit has a thinner wall compared to SCH 80 PVC conduit. The wall thickness of SCH 40 conduit is generally sufficient for most standard electrical wiring applications, while SCH 80 conduit has a thicker wall, providing increased mechanical strength and durability.

Mechanical Strength:

SCH 80 PVC conduit is typically stronger and more rigid than SCH 40 PVC conduit due to its thicker wall. It is designed to handle heavier loads and is suitable for applications where there may be higher mechanical stress or potential for damage, such as in industrial or commercial settings.

Durability:

SCH 80 PVC conduit is generally more durable than SCH 40 PVC conduit due to its thicker wall, making it more resistant to impact, crushing, and other physical stresses. SCH 80 conduit is often used in applications where increased durability and mechanical protection are required.

Cost:

SCH 40 PVC conduit is typically less expensive than SCH 80 PVC conduit due to its thinner wall. SCH 40 conduit is often used in residential and light commercial applications where cost may be a consideration, while SCH 80 conduit is used in more heavy-duty applications that require increased mechanical strength and durability.

Application:

SCH 40 PVC conduit is commonly used in standard electrical wiring applications, such as residential and light commercial installations, where the conduit is not exposed to high levels of mechanical stress or potential for damage. SCH 80 PVC conduit is typically used in more demanding applications, such as industrial, commercial, outdoor, and underground installations, where increased mechanical strength and durability are required.

It's important to note that local building codes and regulations should always be followed when selecting and installing PVC conduit or any other electrical conduit, and professional consultation may be required for specific applications to ensure compliance and safety.

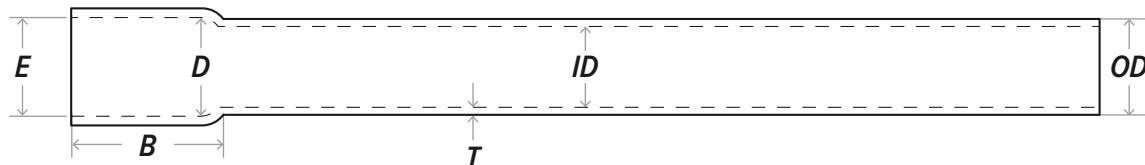


PVC Conduit Schedule 40

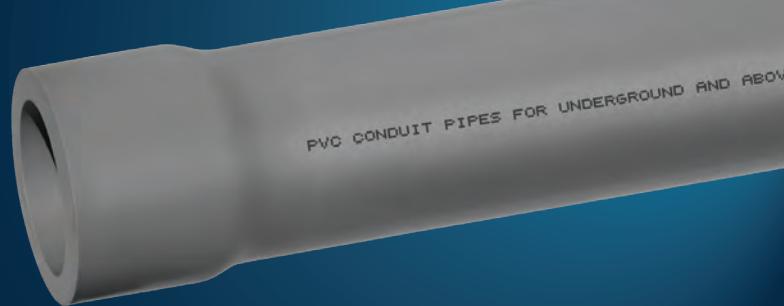


Schedule 40 PVC Conduit are manufactured with rigid Polyvinyl Chloride (PVC-U) compound according to the specifications of the UL 651 and ASTM D 1784 STANDARD.

- UL Listed SUNLIGHT RESISTANT according UL 651 - file number E528320
- Certified for underground and above ground usage
- For direct burial and encased burial usage
- Rigid nonmetallic raceway for wires and cables
- 10' Lengths
- 20' Lengths (on request)



PVC Conduit Schedule 40 (Crate Quantities)									
Part No.	Size inch	Minimum wall inch	Average inch (OD)	Average inch (ID)	Average entrance inch (E)	Average bottom inch (D)	Length feet	Bell End inch (B)	Feet per pack
EZP01UC	1/2	0.109	0.840	0.578	0.852	0.836	10	1.77	6,000
EZP02UC	3/4	0.113	1.050	0.780	1.064	1.046	10	2.16	4,400
EZP10UC	1	0.133	1.315	1.004	1.330	1.310	10	2.56	3,600
EZP11UC	1-1/4	0.140	1.660	1.335	1.677	1.655	10	3.15	3,300
EZP12UC	1-1/2	0.145	1.900	1.564	1.918	1.894	10	3.15	2,250
EZP20UC	2	0.154	2.375	2.021	2.393	2.369	10	3.15	1,400
EZP21UC	2-1/2	0.203	2.875	2.414	2.890	2.868	10	3.15	930
EZP30UC	3	0.216	3.500	3.008	3.515	3.492	10	3.94	880
EZP31UC	3-1/2	0.226	4.000	3.486	4.015	3.992	10	3.94	630
EZP40UC	4	0.237	4.500	3.961	4.515	4.491	10	3.94	570
EZP50UC	5	0.258	5.563	4.975	5.593	5.553	10	3.94	380
EZP60UC	6	0.280	6.625	5.986	6.658	6.614	10	5.90	260



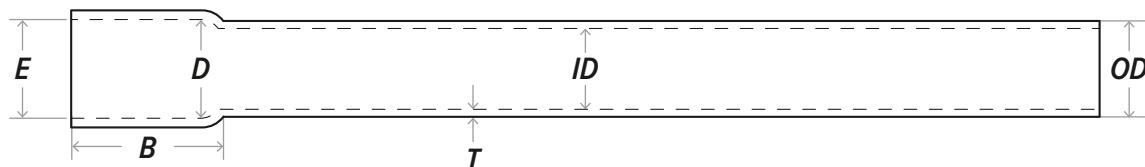
PVC Conduit Schedule 80



Schedule 40 PVC Conduit are manufactured with rigid Polyvinyl Chloride (PVC-U) compound according to the specifications of the UL 651 and ASTM D 1784 STANDARD.

UL Listed SUNLIGHT RESISTANT

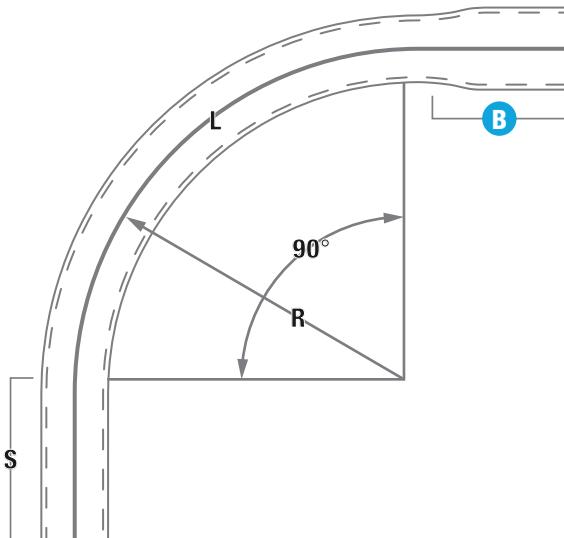
- Designed for underground or aboveground applications that are at risk of physical damage
- Rigid nonmetallic raceway for wires and cables
- Plain end connections are solvent weld
- 10' Lengths
- 20' Lengths (on request)



PVC Conduit Schedule 80 (Crate Quantities)									
Part No.	Size inch	Minimum wall inch	Average inch (OD)	Average inch (ID)	Average entrance inch (E)	Average bottom inch (D)	Length feet	Bell End inch (B)	Feet per pack
EZP01HC	1/2	0.147	0.840	0.502	0.852	0.836	10	1.77	6,000
EZP02HC	3/4	0.154	1.050	0.698	1.064	1.046	10	2.16	4,400
EZP10HC	1	0.179	1.315	0.910	1.330	1.310	10	2.56	3,600
EZP11HC	1-1/4	0.191	1.660	1.227	1.677	1.655	10	3.15	3,300
EZP12HC	1-1/2	0.200	1.900	1.446	1.918	1.894	10	3.15	2,250
EZP20HC	2	0.218	2.375	1.881	2.393	2.369	10	3.15	1,400
EZP21HC	2-1/2	0.276	2.875	2.250	2.890	2.868	10	3.15	930
EZP30HC	3	0.300	3.500	2.820	3.515	3.492	10	3.94	880
EZP31HC	3-1/2	0.318	4.000	3.486	4.015	3.992	10	3.94	630
EZP40HC	4	0.337	4.500	3.737	4.515	4.491	10	3.94	570
EZP50HC	5	0.375	5.563	4.713	5.593	5.553	10	3.94	380
EZP60HC	6	0.432	6.625	5.646	6.658	6.614	10	5.90	260

PVC Conduit Schedule 40 90° Bell End Standard Radius

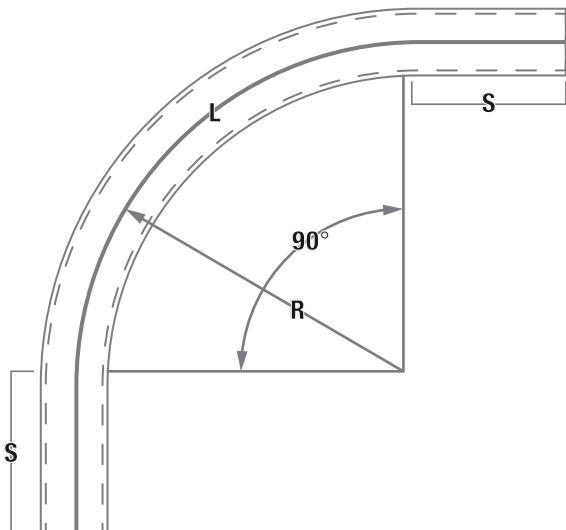
Elbows are used to change the direction of a conduit run by 90 degrees.



Part No.	Size	R	S	B	L
<i>EZPE01U90BE</i>	<i>1/2"</i>	<i>4.000</i>	<i>1.500</i>	<i>1.000</i>	<i>6.250</i>
<i>EZPE02U90BE</i>	<i>3/4"</i>	<i>4.500</i>	<i>1.500</i>	<i>1.500</i>	<i>7.125</i>
<i>EZPE10U90BE</i>	<i>1"</i>	<i>5.750</i>	<i>1.875</i>	<i>1.500</i>	<i>9.000</i>
<i>EZPE11U90BE</i>	<i>1-1/4"</i>	<i>7.250</i>	<i>2.000</i>	<i>1.500</i>	<i>11.375</i>
<i>EZPE12U90BE</i>	<i>1-1/2"</i>	<i>8.250</i>	<i>2.000</i>	<i>2.000</i>	<i>13.000</i>
<i>EZPE20U90BE</i>	<i>2"</i>	<i>9.500</i>	<i>2.000</i>	<i>2.000</i>	<i>15.000</i>
<i>EZPE21U90BE</i>	<i>2-1/2"</i>	<i>10.500</i>	<i>3.000</i>	<i>2.250</i>	<i>16.500</i>
<i>EZPE30U90BE</i>	<i>3"</i>	<i>13.000</i>	<i>3.125</i>	<i>2.500</i>	<i>20.375</i>
<i>EZPE31U90BE</i>	<i>3-1/2"</i>	<i>15.000</i>	<i>3.250</i>	<i>3.250</i>	<i>23.500</i>
<i>EZPE40U90BE</i>	<i>4"</i>	<i>16.000</i>	<i>3.375</i>	<i>3.250</i>	<i>25.125</i>
<i>EZPE50U90BE</i>	<i>5"</i>	<i>24.000</i>	<i>3.625</i>	<i>4.250</i>	<i>37.675</i>
<i>EZPE60U90BE</i>	<i>6"</i>	<i>30.000</i>	<i>3.750</i>	<i>5.000</i>	<i>47.125</i>

PVC Conduit Schedule 40 90° Plain end Standard Radius

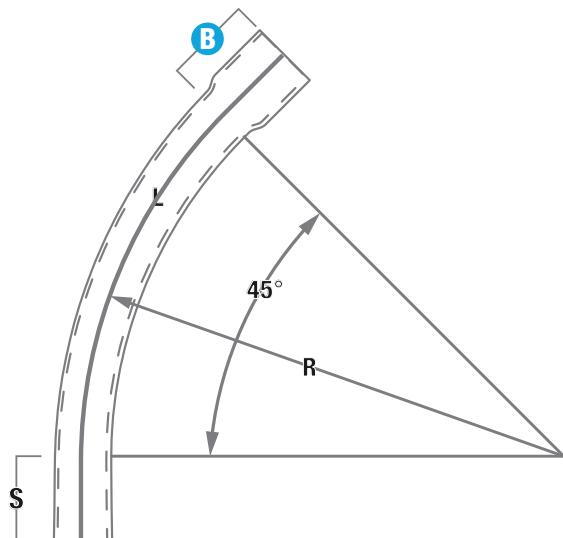
Elbows are used to change the direction of a conduit run by 90 degrees.



Part No.	Size	R	S	L
EZPE01U90	1/2"	4.000	1.500	6.250
EZPE02U90	3/4"	4.500	1.500	7.125
EZPE10U90	1"	5.750	1.875	9.000
EZPE11U90	1-1/4"	7.250	2.000	11.375
EZPE12U90	1-1/2"	8.250	2.000	13.000
EZPE20U90	2"	9.500	2.000	15.000
EZPE21U90	2-1/2"	10.500	3.000	16.500
EZPE30U90	3"	13.000	3.125	20.375
EZPE31U90	3-1/2"	15.000	3.250	23.500
EZPE40U90	4"	16.000	3.375	25.125
EZPE50U90	5"	24.000	3.625	37.675
EZPE60U90	6"	30.000	3.750	47.125

PVC Conduit Schedule 40 45° Bell End Standard Radius

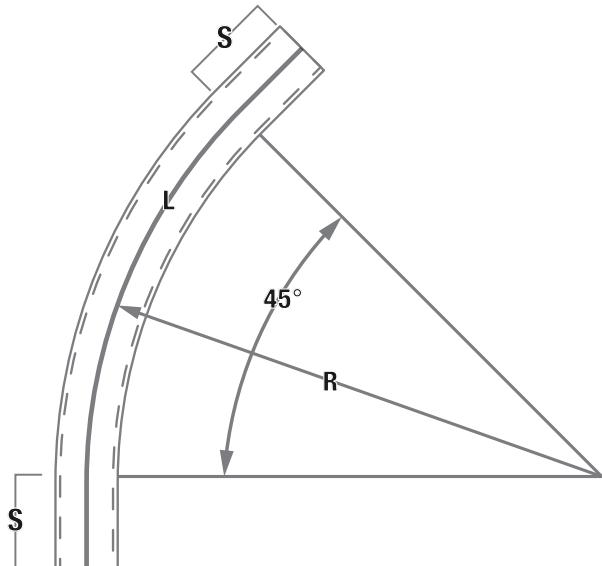
Elbows are used to change the direction of a conduit run by 45 degrees.



Part No.	Size	R	S	B	L
<i>EZPE01U45BE</i>	<i>1/2"</i>	<i>4.000</i>	<i>1.500</i>	<i>1.000</i>	<i>3.125</i>
<i>EZPE02U45BE</i>	<i>3/4"</i>	<i>4.500</i>	<i>1.500</i>	<i>1.500</i>	<i>3.500</i>
<i>EZPE10U45BE</i>	<i>1"</i>	<i>5.750</i>	<i>1.875</i>	<i>1.500</i>	<i>4.500</i>
<i>EZPE11U45BE</i>	<i>1-1/4"</i>	<i>7.250</i>	<i>2.000</i>	<i>1.500</i>	<i>5.688</i>
<i>EZPE12U45BE</i>	<i>1-1/2"</i>	<i>8.250</i>	<i>2.000</i>	<i>2.000</i>	<i>6.500</i>
<i>EZPE20U45BE</i>	<i>2"</i>	<i>9.500</i>	<i>2.000</i>	<i>2.000</i>	<i>7.500</i>
<i>EZPE21U45BE</i>	<i>2-1/2"</i>	<i>10.500</i>	<i>3.000</i>	<i>2.250</i>	<i>8.250</i>
<i>EZPE30U45BE</i>	<i>3"</i>	<i>13.000</i>	<i>3.125</i>	<i>2.500</i>	<i>10.188</i>
<i>EZPE31U45BE</i>	<i>3-1/2"</i>	<i>15.000</i>	<i>3.250</i>	<i>3.250</i>	<i>11.813</i>
<i>EZPE40U45BE</i>	<i>4"</i>	<i>16.000</i>	<i>3.375</i>	<i>3.250</i>	<i>12.563</i>
<i>EZPE50U45BE</i>	<i>5"</i>	<i>24.000</i>	<i>3.625</i>	<i>4.250</i>	<i>18.875</i>
<i>EZPE60U45BE</i>	<i>6"</i>	<i>30.000</i>	<i>3.750</i>	<i>5.000</i>	<i>23.563</i>

PVC Conduit Schedule 40 45° Plain end Standard Radius

Elbows are used to change the direction of a conduit run by 45 degrees.



Part No.	Size	R	S	L
<i>EZPE01U45</i>	<i>1/2"</i>	<i>4.000</i>	<i>1.500</i>	<i>3.125</i>
<i>EZPE02U45</i>	<i>3/4"</i>	<i>4.500</i>	<i>1.500</i>	<i>3.500</i>
<i>EZPE10U45</i>	<i>1"</i>	<i>5.750</i>	<i>1.875</i>	<i>4.500</i>
<i>EZPE11U45</i>	<i>1-1/4"</i>	<i>7.250</i>	<i>2.000</i>	<i>5.688</i>
<i>EZPE12U45</i>	<i>1-1/2"</i>	<i>8.250</i>	<i>2.000</i>	<i>6.500</i>
<i>EZPE20U45</i>	<i>2"</i>	<i>9.500</i>	<i>2.000</i>	<i>7.500</i>
<i>EZPE21U45</i>	<i>2-1/2"</i>	<i>10.500</i>	<i>3.000</i>	<i>8.250</i>
<i>EZPE30U45</i>	<i>3"</i>	<i>13.000</i>	<i>3.125</i>	<i>10.188</i>
<i>EZPE31U45</i>	<i>3-1/2"</i>	<i>15.000</i>	<i>3.250</i>	<i>11.813</i>
<i>EZPE40U45</i>	<i>4"</i>	<i>16.000</i>	<i>3.375</i>	<i>12.563</i>
<i>EZPE50U45</i>	<i>5"</i>	<i>24.000</i>	<i>3.625</i>	<i>18.875</i>
<i>EZPE60U45</i>	<i>6"</i>	<i>30.000</i>	<i>3.750</i>	<i>23.563</i>

Solvent Cements

PVC/uPVC

EZWELD® CONDUIT
BY ALVA



651 PVC / uPVC CEMENT REGULAR BODY / CLEAR

- Clear, regular body PVC/uPVC cement for use on pipes up to 8" (200 mm) diameter for schedule 40
- To be used on electrical conduit applications only
- For superior joint, use with E-Z Weld primers
- Meets ASTM D2564, UL 651 and NEMA TC-2, TC-6, and TC-8

Industry Listing	Hydrostatic Burst	Lap Shear Strength	Size	Part No.
			4 oz / 118 ml	65101
			8 oz / 237 ml	65102
			16 oz / 473 ml	65103
			32 oz / 946 ml	65104
			128 oz / 3.8 L	65105



201 ENT PVC / uPVC CEMENT MEDIUM BODY / BLUE

- Blue, medium body, PVC / uPVC cement for use on all PVC electrical conduit or any non-pressure PVC application with interference fit up to 6" (160 mm) diameter.
- Specially formulated for electrical non-metallic tubing commonly known as "SMURF" pipe.
- Can be used without primer if local codes permit

Industry Listing	Hydrostatic Burst	Lap Shear Strength	Size	Part No.
	Minimum 400 psi after 2 hour cure @ 73 °F (23 °C)	Minimum 250 psi after 2 hour cure @ 73 °F (23 °C)	16 oz / 473 ml	20103
			32 oz / 946 ml	20104
			128 oz / 3.8 L	20105



216 PVC / uPVC CEMENT HEAVY BODY / GRAY

- Industrial Grade Line of Products
- Gray, heavy body, PVC / uPVC cement for use on all classes and schedules of PVC pipe and fittings with interference fit up to 12" (315 mm) diameter
- Industrial strength cement formulated for gap filling, recommended for plumbing, industrial, irrigation and electrical conduit
- Meets ASTM D2564

Industry Listing	Hydrostatic Burst	Lap Shear Strength	Size	Part No.
	Minimum 400 psi after 2 hour cure @ 73 °F (23 °C)	Minimum 250 psi after 2 hour cure @ 73 °F (23 °C)	2 oz / 59 ml	31606
			4 oz / 118 ml	31601
			8 oz / 237 ml	31602
			16 oz / 473 ml	31603
			32 oz / 946 ml	31604
			128 oz / 3.8 L	31605



204 PVC / uPVC CEMENT MEDIUM BODY / CLEAR

- Clear, medium body, PVC / uPVC cement for use on pipe and fittings up to 6" (160 mm) diameter for schedule 40 and 4" (110 mm) for schedule 80
- To be used for plumbing, pressure/non-pressure applications, electrical conduit and PVC foam core
- Can be used without primer on non-pressure applications if local codes permit
- Meets ASTM D2564

Industry Listing	Hydrostatic Burst	Lap Shear Strength	Size	Part No.
	Minimum 400 psi after 2 hour cure @ 73 °F (23 °C)	Minimum 250 psi after 2 hour cure @ 73 °F (23 °C)	2 oz / 59 ml	30406
			4 oz / 118 ml	30401
			8 oz / 237 ml	30402
			16 oz / 473 ml	30403
			32 oz / 946 ml	30404
			128 oz / 3.8 L	30405



215 ALL TEMPERATURE CEMENT MEDIUM BODY / CLEAR

- Clear, medium body, PVC / uPVC cement for use on pipe and fittings up to 6" (160 mm) diameter for schedule 40 and 4" (110 mm) for schedule 80
- To be used for plumbing, irrigation, electrical conduit and PVC foam core
- No primer needed on non-pressure DWV applications, where local codes permit
- Temp: -15°F to 110°F (-26°C to 43°C)
- Meets ASTM D2564

Industry Listing	Hydrostatic Burst	Lap Shear Strength	Size	Part No.
	Minimum 400 psi after 2 hour cure @ 73 °F (23 °C)	Minimum 250 psi after 2 hour cure @ 73 °F (23 °C)	16 oz / 473 ml	21503
			32 oz / 946 ml	21504
			128 oz / 3.8 L	21505



211 CLEAR PRIMER

- Clear, fast acting primer for proper softening and preparation of all schedules and sizes of PVC and CPVC pipe and fitting surfaces
- Meets ASTM F656

Industry Listing	Size	Part No.
	4 oz / 118 ml	31101
	8 oz / 237 ml	31102
	16 oz / 473 ml	31103
	32 oz / 946 ml	31104
	128 oz / 3.8 L	31105



E-Z Weld Group has achieved GREENGUARD GOLD Certification for their Solvent Cements

Cement applicators and accessories

EZWELD® CONDUIT
BY ALVA

Plastic Cap & Brush		Dauber				
						
Part No.	11000	Part No.	12006	12002	12003	12004
Size	1"	Size	2 oz.	4 oz/118 ml & 8 oz/237 ml	16 oz/473 ml	32 oz/946 ml
Pack	50 pc/case	Pack	100 pc/case	100 pc/case	100 pc/case	100 pc/case
Telescoping Dauber (Small Ball)		8" Swab				
						
Part No.	13001	Part No.	13002	Part No.	13005	Part No.
Size	4 oz/118 ml (11401) & 8 oz/237 ml (11501)	Size	16 oz/473 ml (11103) & 32 oz/946 ml (110204)	Size	128 oz/3.8 L	Size
Pack	50 pc/case	Pack	50 pc/case	Pack	12 pc/case	Pack
Telescoping Dauber (Large Ball)		4" swab with 2 7/8 metal lid				
						
Part No.	13001	Part No.	13002	Part No.	13005	Part No.
Size	4 oz/118 ml (11401) & 8 oz/237 ml (11501)	Size	16 oz/473 ml (11103) & 32 oz/946 ml (110204)	Size	128 oz/3.8 L	Size
Pack	50 pc/case	Pack	50 pc/case	Pack	12 pc/case	Pack



Average Number of Joints per Quart Can*

Pipe Nominal Size	ASTM	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	6	8	10	12	14	18
	ISO (DIN)	20	25	32	40	50	63	75	90	110	160	200	250	315	350	450
Number of Joints		300	200	125	105	90	60	50	40	30	10	6	2-3	1-2	3/4	1/2

*This chart should be used as a general reference only as these figures are estimates based on testing done under laboratory conditions. Field working conditions can vary significantly.

Pipe Size Equivalent Chart

ASTM	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	6	8	10	12	14	18
ISO (DIN)	20	25	32	40	50	63	75	90	110	160	200	250	315	350	450

Average Handling / Set-up Times⁺

Handling / Set-up time is the time required prior to handling the joint carefully. In damp or humid weather, allow 50% additional cure time.						
Temperature While Joining	Pipe Diameter 1/2" to 1 1/4" 15 mm to 32 mm	Pipe Diameter 1 1/2" to 2" 40 mm to 50 mm	Pipe Diameter 2 1/2" to 5" 65 mm to 125 mm	Pipe Diameter 6" to 8" 150 mm to 200 mm	Pipe Diameter 10" to 16" 250 mm to 375 mm	Pipe Diameter 16"+ 400 mm
16 °C - 38 °C (60 °F - 100 °F)	2 minutes	5 minutes	25 minutes	30 minutes	2 hours	4 hours
5 °C - 16 °C (40 °F - 60 °F)	5 minutes	10 minutes	50 minutes	2 hours	8 hours	16 hours
-18 °C - 5 °C (0 °F - 40 °F)	10 minutes	15 minutes	4 hours	10 hours	24 hours	48 hours

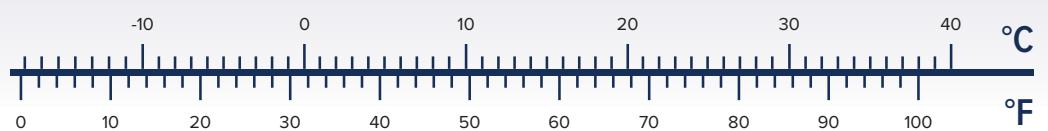
+ This chart should be used as a general reference only as these figures are estimates based on testing done under laboratory conditions. Field working conditions can vary significantly.

Average Joint Cure Times⁺⁺

Joint Cure Time is the time required before pressure testing the system. In damp or humid weather, allow 50% additional cure time.								
Relative Humidity 60% or Less	Pipe Diameter 1/2" to 1 1/4" 15 mm to 32 mm	Pipe Diameter 1 1/2" to 2" 40 mm to 50 mm	Pipe Diameter 2 1/2" to 8" 65 mm to 200 mm	Pipe Diameter 10" to 15" 250 mm to 375 mm	Pipe Diameter 16"+ 400 mm	Temperature While Joining and Curing	up to 145 psi / 10 bar	145 to 363 psi / 10 to 25 bar
16 °C - 38 °C (60 °F - 100 °F)	15 min	6 hrs	30 min	12 hrs	1½ hrs	24 hrs	48 hrs	72 hrs
5 °C - 16 °C (40 °F - 60 °F)	20 min	12 hrs	45 min	24 hrs	4 hrs	48 hrs	96 hrs	6 days
-18 °C - 5 °C (0 °F - 40 °F)	30 min	48 hrs	1 hour	96 hrs	72 hrs	8 days	8 days	14 days

++ This chart should be used as a general reference only as these figures are estimates based on testing done under laboratory conditions. Field working conditions can vary significantly.

Fahrenheit to Celsius Conversion Chart





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