



CATEGORY

PVC

AMMO ITEM #

PVC ELBOWS

Company: _____

Job: _____ #Item: _____

Notes: _____

PVC CONDUIT ELBOWS SCH80 & SCH40



This document details the specifications of the product SCHEDULE 40 and SCHEDULE 80 PVC CONDUIT ELBOWS

1- RAW MATERIALS

The product is manufactured with rigid Polyvinyl Chloride (PVC-U) compound according to the specifications of the UL 651 and ASTM D 1784 STANDARD. They will have no odor or taste, and their physical and chemical properties will be equal to or better than those specified in UL 651

2- PVC COMPOUND PROPERTIES

Compound Characteristics	Testing method
Base Resin: PVC (Homopolymer).	-
Resistance to Izod Impact	ASTM D256 (A)
Tensile strength of the material	ASTM D638
Modulus of Elasticity in Tension	ASTM D638
Deflection Temperature Under Load	ASTM D648
Color: Light Gray	-



3- QUALITY REQUIREMENTS

• **Impact Resistance Test:** the product will have a resistance according to its diameter and type. The test is carried out under laboratory conditions of temperature 23 C and 50% relative humidity with a 9.1 K weight, evaluating 10 specimens in each test, according to UL 651 standard

Trade Size	Metric designation	Schedule 40		Schedule 80	
		Feet	m	Feet	m
1/2	16	2-1/2	0.762	1-1/4	0.381
3/4	21	4	1.22	1-1/4	0.381
1	27	5	1.52	2	0.610
1-1/4	35	6	1.83	2-1/4	0.686
1-1/2	41	7-1/2	2.29	2-1/2	0.762
2	53	9-1/2	2.90	4	1.22
2-1/2	63	10-1/2	3.20	5	1.52
3-6	78-155	11	3.35	7	2.13

• **Extrusion Quality Test:** the product should not show visible delamination after 30 minutes of immersion in Anhydrous Acetone, the level and homogeneity of gelation is observed. This characteristic is related to the mechanical properties

• **Transverse Crushing Resistance Test:** the product is compressed up to 40% of the external diameter, in order to verify the existence of physical defects during manufacture, according to the UL 651 test method

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400 MARTIN LUTHER KING JR WAY, BRIDGETON, NJ 08302
PHONE : (718).338.1851 FAX : (718).228.1851
orders@ammoelectric.com

www.ammoelectric.com



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- **Impact Resistance Test:** the product will have a resistance according to its diameter and type. The test is carried out under laboratory conditions of temperature 23 C and 50% relative humidity with a 9.1 K weight, evaluating 10 specimens in each test, according to UL 651 standard
- **Crushing Resistance Test:** the product is compressed until reaching the indicated load and in the indicated compression percentage without suffering breaks or failures
- **Water Absorption Test:** the product does not show mass variation after immersion in water as indicated in the UL 651 standard
- **Low temperature handling test:** the product must remain free of break, cracks, or other failure when subjected to a free fall to the ground after being tempered at -20 C for 4 hours
- **Tensile strength test:** the product has a resistance equal to or greater in oven-conditioned test tubes than those presented in unconditioned test tubes. In no case should there be breakage at a load lower than that established in the standard. The test is performed in accordance with UL 651 and ASTM D638
- **Test of permanence of the printing:** the labeling of the product withstands continuous rubbing after being tempered in hot cold water and hot oil
- **Sunlight resistance test (schedule 40):** notched specimens prepared from unaged bar samples machined from the finished Schedule 40 or Schedule 80 rigid PVC conduit shall have an average Izod impact strength of at least 0.5 ft-lbf/inch (27 j/m) of notch width. Similar specimens prepared from samples conditioned for 720, 1080, and possibly 1440 hours shall have average Izod impact strengths that comply with the following Table

Average izod impact strength of unaged specimens	Conditioning period in hours	Percents decrease in average izod impact	Acceptability
0.5 - 1.5ft. Lbf/ich (27-81/m) of notch width	720-1080	0-5	Acceptable
		Over 5 but under 7.5	Not acceptable unless specimens comply after 1440 hours
	1080-1440b	7.5 or more	No acceptable
		0-5	Acceptable
		Over 5	Not acceptable

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4- DIMENSIONS AND TOLERANCES

4.1. RADIUS AND LENGTH OF THE STRAIGHT PORTION

Trade size of conduit in inches	Metric designator	Radius R of bend to center line of conduit		Length Ls of straight end portion	
		(in)	(mm)	(in)	(mm)
1/2	(16)	4	(100)	1-1/2	(38)
3/4	(21)	4-1/2	(114)	1-1/2	(38)
1	(27)	5-3/4	(146)	1-7/8	(48)
1-1/4	(35)	7-1/4	(184)	2	(50)
1-1/2	(41)	8-1/4	(210)	2	(50)
2	(53)	9-1/2	(241)	2	(50)
2-1/2	(63)	10-1/2	(267)	3	(76)
3	(78)	13	(330)	3-1/8	(79)
3-1/2	(91)	15	(380)	3-1/4	(83)
4	(103)	16	(400)	3-3/8	(86)
5	(129)	24	(600)	3-5/8	(92)
6	(155)	30	(760)	3-3/4	(95)

4.2. OUTSIDE DIAMETERS AND MINIMUM WALL THICKNESS

Metric designator	Outside Diameters			Minimum wall thicknesses	
	Average	Maximum	Minimum	SCH40	SCH80
16	21.34 #0.10	21.54	21.13	2.77	3.73
21	26.67 +0.10	26.92	26.42	2.87	3.91
27	33.40 +0.13	33.66	33.15	3.38	4.55
35	42.16 +0.13	42.47	41.86	3.56	4.85
41	48.26 +0.15	48.56	47.96	3.68	5.08
53	60.32 +0.15	60.63	60.02	3.91	5.54
63	73.02 +0.18	73.41	72.64	5.16	7.01
78	88.90 +0.20	89.28	88.52	5.49	7.62
91	101.60 +0.20	102.87	100.33	5.74	8.08
103	114.30 +0.23	115.57	113.03	6.02	8.56
129	141.30 +0.25	142.57	140.03	6.55	9.52
155	168.28 +0.28	169.54	167.00	7.11	10.97

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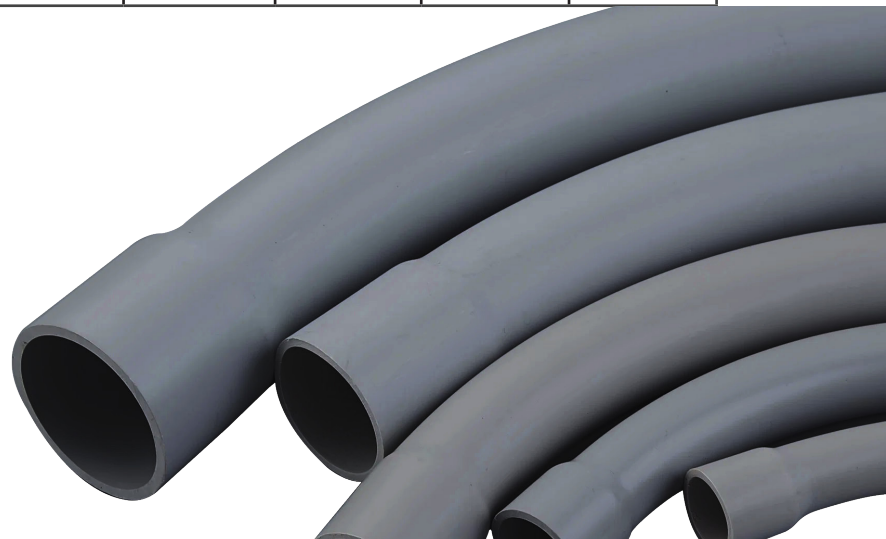
PVC ELBOWS

PVC CONDUIT ELBOWS SCH80 & SCH40



4.3. INTEGRAL COUPLINGS DIMENSIONS

Metric desig	Socket Diameters						Minimum Socket depth ^a	Minimum thickness at any point of socket	
	At entrance			At bottom				Schedule 40	Schedule 80
	Maximun	Minimun	Average	Maximun	Minimum	Average			
16	21.84	21.44	21.64 +0.10	21.44	21.03	21.23 +0.10	16.56	2.41	3.28
21	27.28	26.77	27.03 +0.10	26.82	26.31	26.57 +0.10	18.26	2.41	3.45
27	34.04	33.53	33.78 +0.13	33.53	33.02	33.27 +0.13	22.22	2.54	4.01
35	42.90	42.30	42.60 +0.13	42.34	41.73	42.04 +0.13	23.83	3.05	4.28
41	49.02	48.41	48.72 +0.15	48.41	47.80	48.11 +0.15	26.97	3.05	4.22
53	61.09	60.48	60.78 +0.15	60.48	59.87	60.17 +0.15	28.58	3.30	4.60
63	73.79	73.02	73.41 +0.18	73.23	72.47	72.85 +0.18	37.31	4.19	5.82
78	89.66	88.90	89.28 +0.20	89.08	88.32	88.70 +0.20	40.49	4.55	6.32
91	103.25	100.71	101.98 +0.20	101.78	101.02	101.400.2 0	42.85	4.78	6.71
103	115.95	113.41	114.68 +0.23	114.45	113.70	114.07+0.2 3	44.45	5.00	7.11
129	143.33	140.80	142.06 +0.25	141.80	140.28	141.05+0.2 5	49.20	5.44	7.90
155	170.38	167.84	169.11+0.2 8	168.76	167.23	168.00 +0.28	53.98	5.89	9.12



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PVC ELBOWS

PVC CONDUIT 90° ELBOWS SCH80 & SCH40



Elbow 90° SCH40 BELL END	AMMO #	SIZE	PKG	UPC
	ARP40B-5090	1/2"	50	837654105900
	ARP40B-7590	3/4"	35	837654105917
	ARP40B-10090	1"	20	837654105924
	ARP40B-12590	1-1/4"	30	837654105931
	ARP40B-15090	1-1/2"	30	837654105948
	ARP40B-20090	2"	15	837654105955
	ARP40B-25090	2-1/2"	18	837654105962
	ARP40B-30090	3"	14	837654105979
	ARP40B-35090	3-1/2"	12	837654105986
	ARP40B-40090	4"	10	837654105993
	ARP40B-50090	5"	30	837654106006
	ARP40B-60090	6"	25	837654106013
ARP40B-80045	8"	1	837654119884	

Elbow 90° SCH80 BELL END	AMMO #	SIZE	PKG	UPC
	ARP80B-5090	1/2"	50	837654106389
	ARP80B-7590	3/4"	35	837654106396
	ARP80B-10090	1"	20	837654106402
	ARP80B-12590	1-1/4"	30	837654106419
	ARP80B-15090	1-1/2"	30	837654106426
	ARP80B-20090	2"	15	837654106433
	ARP80B-25090	2-1/2"	18	837654106440
	ARP80B-30090	3"	14	837654106457
	ARP80B-35090	3-1/2"	12	837654106464
	ARP80B-40090	4"	10	837654119938
	ARP80B-50090	5"	30	837654106488
	ARP80B-60090	6"	25	837654106495
ARP80B-80090	6"	1	837654106471	

Elbow 90° SCH40 PLAIN END	AMMO #	SIZE	PKG	UPC
	ARP40P-5090	1/2"	50	837654106143
	ARP40P-7590	3/4"	35	837654106150
	ARP40P-10090	1"	20	837654106167
	ARP40P-12590	1-1/4"	30	837654106174
	ARP40P-15090	1-1/2"	30	837654106181
	ARP40P-20090	2"	15	837654106198
	ARP40P-25090	2-1/2"	18	837654106204
	ARP40P-30090	3"	14	837654106211
	ARP40P-35090	3-1/2"	12	837654106228
	ARP40P-40090	4"	10	837654106235
	ARP40P-50090	5"	30	837654106242
	ARP40P-60090	6"	25	837654106259
ARP40P-80090	8"	1	837654119914	

Elbow 90° SCH80 PLAIN END	AMMO #	SIZE	PKG	UPC
	ARP80P-5090	1/2"	50	837654106624
	ARP80P-7590	3/4"	35	837654106631
	ARP80P-10090	1"	20	837654106648
	ARP80P-12590	1-1/4"	30	837654106655
	ARP80P-15090	1-1/2"	30	837654106662
	ARP80P-20090	2"	15	837654106679
	ARP80P-25090	2-1/2"	18	837654106686
	ARP80P-30090	3"	14	837654106693
	ARP80P-35090	3-1/2"	12	837654106709
	ARP80P-40090	4"	10	837654106716
	ARP80P-50090	5"	30	837654106723
	ARP80P-60090	6"	25	837654106730

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Ammo Electric Inc.

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PVC CONDUIT 45° ELBOWS SCH80 & SCH40



Elbow 45° SCH40 BELL END	AMMO #	SIZE	PKG	UPC
	ARP40B-5045	1/2"	50	837654106020
	ARP40B-7545	3/4"	25	837654106037
	ARP40B-10045	1"	20	837654106044
	ARP40B-12545	1-1/4"	25	837654106051
	ARP40B-15045	1-1/2"	25	837654106068
	ARP40B-20045	2"	10	837654106075
	ARP40B-25045	2-1/2"	20	837654106082
	ARP40B-30045	3"	8	837654106099
	ARP40B-35045	3-1/2"	5	837654106105
	ARP40B-40045	4"	20	837654106112
	ARP40B-50045	5"	30	837654106129
ARP40B-60045	6"	25	837654106136	
ARP40B-80090	8"	1	837654119891	

Elbow 45° SCH80 BELL END	AMMO #	SIZE	PKG	UPC
	ARP80B-10045	1"	20	837654106525
	ARP80B-12545	1-1/4"	25	837654106532
	ARP80B-15045	1-1/2"	20	837654106549
	ARP80B-20045	2"	10	837654106556
	ARP80B-25045	2-1/2"	20	837654106563
	ARP80B-30045	3"	8	837654106570
	ARP80B-35045	3-1/2"	12	837654106587
	ARP80B-40045	4"	20	837654119921
	ARP80B-50045	5"	30	837654106600
	ARP80B-5045	1/2"	50	837654106501
	ARP80B-60045	6"	25	837654106617
ARP80B-7545	3/4"	35	837654106518	
ARP80B-80045	8"	1	837654106594	

Elbow 45° SCH40 PLAIN END	AMMO #	SIZE	PKG	UPC
	ARP40P-10045	1"	20	837654106280
	ARP40P-12545	1-1/4"	25	837654106297
	ARP40P-15045	1-1/2"	20	837654106303
	ARP40P-20045	2"	10	837654106310
	ARP40P-25045	2-1/2"	20	837654106327
	ARP40P-30045	3"	8	837654106334
	ARP40P-35045	3-1/2"	5	837654106341
	ARP40P-40045	4"	20	837654106358
	ARP40P-60045	6"	25	837654106372
	ARP40P-50045	5"	30	837654106365
	ARP40P-5045	1/2"	50	837654106266
ARP40P-7545	3/4"	25	837654106273	
ARP40P-80045	8"	1	837654119907	

Elbow 45° SCH80 PLAIN END	AMMO #	SIZE	PKG	UPC
	ARP80P-10045	1"	20	837654106761
	ARP80P-12545	1-1/4"	25	837654106778
	ARP80P-15045	1-1/2"	20	837654106785
	ARP80P-20045	2"	10	837654106792
	ARP80P-25045	2-1/2"	20	837654106808
	ARP80P-30045	3"	8	837654106815
	ARP80P-35045	3-1/2"	12	837654106822
	ARP80P-40045	4"	20	837654106839
	ARP80P-50045	5"	30	837654106846
	ARP80P-5045	1/2"	50	837654106747
	ARP80P-60045	6"	25	837654106853
ARP80P-7545	3/4"	25	837654106754	

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