

CORRUGATED PVC

POWER & COMMUNICATIONS FLEX® CORRUGATED FLEXIBLE CONDUIT

Power & Communications Flex® Nonmetallic Corrugated Conduit makes power and communication installations faster and easier by providing maximum installation flexibility. Power & Communications Flex is flexible enough to be used as a raceway or flexible sweep; and, unlike rigid conduit, it has a tight bend radius and can accommodate uneven offsets.

Power & Communications Flex is manufactured to IPS dimensions and can be used with any existing IPS conduit system using standard fittings. It's UV Resistant and suitable for a variety of applications including direct burial, under bridges, service entrance/FTTx terminations, manhole terminations, pedestal/enclosure terminations and running up utility poles.

Power & Communications Flex is available in sizes 3/4" through 4", with or without detectable pull tape (1" through 4" only) and comes in lengths ranging from 250 feet up to 5200 feet, depending on the size.



CORRUGATED PVC

Features:

- Accommodates any degree of bend or bend radius – ideal for shallow trenches, and is able to handle offsets
- Manufactured to IPS Dimensions – can be used with standard coupling/fittings
- UV Resistant
- Can be used as a raceway or flexible sweep
- Available in sizes 3/4" through 4"
- Small put-ups for short runs
- Available with detectable pull tape (1" through 4" only)
- Non-UL Listed

POWER & COMMUNICATIONS FLEX FITTINGS

FEMALE ADAPTERS

Size	Std. Ctn. Qty.	Std. Ctn. Wt (lbs.)
3/4"	100	4.5
1"	50	3.7
1-1/4"	30	3.3
1-1/2"	25	3
2"	30	6
2-1/2"	20	7
3"	25	12
3-1/2"	20	12
4"	7	5

MALE ADAPTERS

Size	Std. Ctn. Qty.	Std. Ctn. Wt (lbs.)
3/4"	125	4.3
1"	50	3
1-1/4"	25	2.7
1-1/2"	25	3
2"	5	7
2-1/2"	5	1.2
3"	45	18
3-1/2"	30	14
4"	5	3

BELL ENDS (SCHEDULE 40)

Size	Std. Ctn. Qty.	Std. Ctn. Wt (lbs.)
1"	50	2.5
1-1/4"	35	2.5
1-1/2"	30	2.4
2"	10	1.2
2-1/2"	10	1.9
3"	10	2.1
3-1/2"	40	10.2
4"	30	10.7

PLUGS

Size	Std. Ctn. Qty.	Std. Ctn. Wt (lbs.)
1-1/2"	50	2
2"	60	3
2-1/2"	25	2
3"	30	3
4"	48	8

Part Number Ordering Matrix Begins On Page 90

POWER & COMMUNICATIONS FLEX CONDUIT

Size	I.D.	O.D.	Pull Tape	Reel/Coil	Std. Ctn. Qty. (ft)	Std. Ctn. Wt. (lbs.)
3/4"	.83	1.040	Empty	Coil	350	40.00
1"	1.000	1.315	Empty	Coil	250	36.25
1"	1.000	1.315	Empty	Reel	5200	1144.00
1"	1.000	1.315	1800 lb. Detectable	Reel	5200	1144.00
1-1/4"	1.340	1.660	Empty	Reel	900	247.00
1-1/4"	1.340	1.660	Empty	Reel	4500	927.00
1-1/4"	1.340	1.660	1800 lb. Detectable	Reel	4500	927.00
1-1/2"	1.570	1.900	Empty	Reel	250	79.00
1-1/2"	1.570	1.900	Empty	Reel	4500	1084.50
1-1/2"	1.570	1.900	1800 lb. Detectable	Reel	4500	1147.50
1-1/2"	1.570	1.900	1250 lb.	Reel	2300	455.40
1-1/2"	1.570	1.900	1250 lb.	Reel	250	80.00
2"	2.045	2.375	Empty	Reel	1100	270.60
2"	2.045	2.375	Empty	Reel	250	97.00
2"	2.045	2.375	Empty	Reel	2500	1005.00
2"	2.045	2.375	Empty	Reel	700	172.20
2"	2.045	2.375	1800 lb. Detectable	Reel	2500	1005.00
2"	2.045	2.375	1250 lb	Reel	250	98.00
2-1/2"	2.469	2.875	Empty	Reel	250	176.00
2-1/2"	2.469	2.875	Empty	Reel	1300	509.60
3"	3.068	3.500	Empty	Reel	1200	1122.00
3"	3.068	3.500	Empty	Reel	250	248.00
3"	3.068	3.500	Empty	Reel	500	193.00
3"	3.068	3.500	Empty	Reel	750	723.75
3"	3.068	3.500	1800 lb. Detectable	Reel	1200	1122.00
4"	4.026	4.500	Empty	Reel	250	324.00
4"	4.026	4.500	Empty	Reel	800	811.20
4"	4.026	4.500	1800 lb. Detectable	Reel	800	1007.20

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COUPLINGS

Size	Std. Ctn. Qty.	Std. Ctn. Wt (lbs.)
3/4"	100	5
1"	50	3.5
1-1/4"	30	3.2
1-1/2"	25	4
2"	30	5
2-1/2"	4	2
3"	5	3
3-1/2"	20	13
4"	5	4

CEMENT

All-Weather ENT Blue "Quick-Set"
Solvent Cement with brush

Part Number	Size	Std. Ctn. Wt (lbs.)
VC9992	Quart	12

Part Number Ordering Matrix Begins On Page 90

TECHNICAL INFORMATION

Performance Properties	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Stiffness F/Δy at 5% deflection	500	200	200	200	130	130	90
Impact Strength (Ft./Lbs.) 72°	40	40	50	50	70	120	140
Impact Strength (Ft./Lbs.) 32°	8	8	15	25	35	60	60
Minimum Bending Radius (inches)	6	6	7	8	12	15	18
Conduit Tensile Strength	300	400	500	700	1000	1500	2000

- Storage: -4°F to 158°F
- Handling: -4°F to 104°F

SWEEP AND ELBOW CONVERSION CHART

Radius (in.) Nom. Dia.	Segment	18" Required Length of P&C Flex (inches)	24" Required Length of P&C Flex (inches)	36" Required Length of P&C Flex (inches)	48" Required Length of P&C Flex (inches)	60" Required Length of P&C Flex (inches)
1-1/2"	90°	33	42	61	80	99
	45°	19	23	33	42	52
	30°	14	17	23	30	36
	22-1/2°	12	14	19	23	28
2"	90°	32	42	61	79	98
	45°	18	23	32	42	51
	30°	14	17	23	29	35
	22-1/2°	11	12	18	23	28
2-1/2"	90°	34	44	63	81	100
	45°	20	25	33	44	53
	30°	16	19	24	31	37
	22-1/2°	13	15	20	25	30
3"	90°	35	44	63	82	101
	45°	20	25	34	44	53
	30°	16	19	24	32	38
	22-1/2°	13	16	20	25	30
4"	90°	37	46	65	84	103
	45°	22	27	37	46	55
	30°	18	21	27	34	40
	22-1/2°	15	18	22	27	32

For other radius sweeps use this formula:

$$.0175 \times \text{Radius (inches)} \times \text{Angle}^\circ = \text{Required length of P\&C flex in inches}$$

**Part Number Ordering Matrix
Begins On Page 90**