

P&C® Duct

Prime Conduit P&C® (Power & Communications) Duct and fittings are designed and formulated specifically for concrete encased and direct burial applications of power utility primaries, secondaries, street lighting and distribution systems. Prime Conduit P&C Duct complies with NEMA Standard TC-6 & 8, and ASTM F-512 for utility duct. Both EB and DB duct are rated for use with 90°C conductors. P&C Duct fittings comply with NEMA TC-9 Standard.

Advantages:

- Manufactured for high modulus PVC compound
- High impact strength
- Excellent structural strength
- Superior load bearing
- Multiple duct banks can be pre-assembled and lowered into trench
- No special cutting or tapering devices required
- Provides easy bending around obstructions minimizing the need for special angle couplings and sweeps
- Superior aging and weathering characteristics

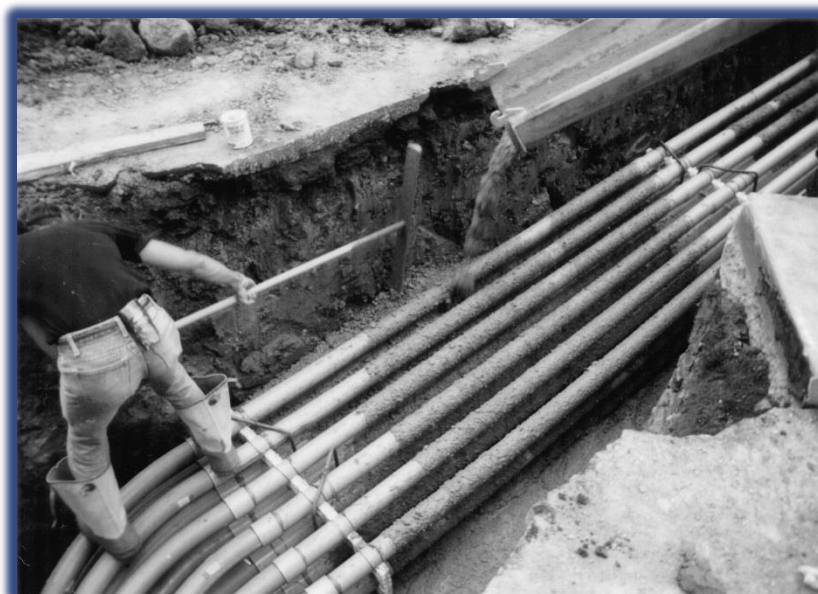
Features:

- Heat resistant
- Fire resistant
- Conforms to NEMA Standard TC-6 & 8 and ASTM Standard F-512 for utility duct
- Sweeps conform to NEMA Standard TC-9
- Prime Conduit P&C Duct Type EB-20 is ETL Listed
- Low coefficient of expansion
- Continuous rigid control
- Smooth inner wall and smooth transition between joints

Engineering Features:

Chemical Inertness resists water absorption and is totally immune to galvanic or electrolytic attacks.

Solvent Cemented Joints provide leak proof duct runs tested at 25 psi. This type of joint eliminates the need for costly mechanical rodding procedure. Prime Conduit P&C Duct can be rodded pneumatically.



P&C® Duct - Type EB

Prime Conduit nonmetallic P&C Duct Type EB is manufactured from Prime Conduit's exclusive high modulus PVC compound, developed especially for power and communications applications, and is designed for use in concrete encased installations. Type EB is rated for 90°C Cable.



P&C Duct Type EB-20

Nom. Size	Part Number 10'	Part Number 20'	Std. Crate Qty. 10' (ft.)	Std. Crate Qty. 20' (ft.)	Approx. Wt. per 100 ft (lbs.)	Avg. O.D. (in.)	*Min. Wall (in.)
2"	-	48711-020	-	2,800	37	2.375	0.060
3"	-	48713-020	-	2,000	60	3.500	0.061
4"	48715-010	48715-020	570	1,140	99	4.500	0.082
5"	48716-010	48716-020	380	760	148	5.563	0.103
6"	48717-010	48717-020	260	520	211	6.625	0.125

ETL Listed to UL651 in compliance with the NEC

Meets NEMA Standard TC-6 & 8

EB-20/ASTM F-512

*Minimum wall thickness relates to 500,000 modulus

One belled end per 10' & 20' length

P&C Duct Type EB-35 Heavy Wall

Nom. Size	Part Number 10'	Part Number 20'	Std. Crate Qty. 10' (ft.)	Std. Crate Qty. 20' (ft.)	Approx. Wt. per 100 ft (lbs.)	Avg. O.D. (in.)	*Min. Wall (in.)
2"	-	68711-020	-	2,800	39	2.375	0.060
3"	-	68713-020	-	2,000	72	3.500	0.076
4"	-	68715-020	-	1,140	115	4.500	0.100
5"	68716-010	68716-020	380	760	174	5.563	0.126
6"	-	68717-020**	-	520	248	6.625	0.152

Meets NEMA Standard TC-6&8

EB-35/ASTM F-512

*Minimum wall thickness relates to 500,000 modulus

One belled end per 10' & 20' length

** Special order

Use DB Sweeps with EB Duct

P&C® Duct – Type DB

Prime Conduit nonmetallic P&C Duct Type DB is manufactured from Prime Conduit's exclusive high modulus PVC compound, developed especially for power and communications applications, and is designed for use in direct burial or concrete encased installations. Type DB is rated for 90°C Cable.

Trenching:

Trench should be graded true and free from stones and soft spots. Backfill should also be free of stones and be firmly tamped around the sides of the conduit, to develop maximum supporting strength. Tamping on top of the conduit is not recommended.

Backfill:

In rocky soil where it is impossible to have an even trench bottom, a selected backfill should be put in before laying the conduit. Selected backfill (not tamped) at least 6" over the top of the conduit is recommended. After final backfill is placed, tamping may be used to finish the grade.

The method of direct burial varies with soil condition, load conditions, and engineering preferences. A common practice is to lay one tier at a time, backfill, and repeat with the desired spacing of ducts being made as ducts are layered.

Many companies have used the heavier wall Type DB-120 in a duct-to-duct formation. Where limited loads occur, this type of installation has proven satisfactory.

P&C Duct Type DB-60

Nom. Size	Part Number	Std. Crate Qty. (ft.)	Approx. Wt. per 100 ft (lbs.)	Avg. O.D. (in.)	¹ Min. Wall (in.)
2"	48811-020	2,800	38	2.375	0.060
3"	48813-020	2,000	83	3.500	0.092
3-1/2"	48814-020	2,000	108	4.000	0.107
4"	48815-020	1,140	133	4.500	0.121
5"	48816-020	760	203	5.563	0.152
6"	48817-020	520	283	6.625	0.182



P&C Duct Type DB-120 Heavy Wall

Nom. Size	Part Number 10'	Part Number 20'	Std. Crate Qty. 10' (ft.)	Std. Crate Qty. 20' (ft.)	Approx. Wt. per 100 ft (lbs.)	Avg. O.D. (in.)	² Min. Wall (in)
1"	-	48808-020	-	8,000	19	1.315	0.060
1-1/2"	-	48810-020	-	4,500	28	1.900	0.060
2"	-	68811-020	-	2,800	47	2.375	0.077
3"	-	68813-020	-	2,000	98	3.500	0.118
4"	-	68815-020	-	1,140	162	4.500	0.154
5"	-	68816-020	-	760	252	5.563	0.191
6"	68817-010	68817-020	260	520	351	6.625	0.227

P&C Duct Type DB-120 Heavy Wall Utility

Nom. Size	Part Number	Std. Crate Qty. (ft.)	Approx. Wt. per 100 ft (lbs.)	Avg. O.D. (in.)	³ Min. Wall (in.)
2"	68811UTL-020	2,800	44	2.375	0.083
3"	68813UTL-020	2,000	98	3.500	0.127
4"	68815UTL-020	1,140	165	4.500	0.166
5"	68816UTL-020	760	252	5.563	0.205
6"	68817UTL-020	520	356	6.625	0.244

¹Type DB-60 meets DB-60/ASTM F-512; Minimum wall thickness relates to 500,000 modulus

²Type DB-120 meets DB-120/ASTM F-512; Minimum wall thickness relates to 500,000 modulus

³Type DB-120 Heavy Wall Utility meets DB-120/ASTM F-512; Minimum wall thickness relates to 400,000 modulus

Meets NEMA Standard TC-6 & 8

One belled end per 10' or 20' length

P&C® Duct – Special California Type DB-100

Prime Conduit DB-100 nonmetallic P&C Duct Type DB is manufactured to NEMA Standard TC-6 & 8 and to specifications that exist within the State of California, and is designed for use in direct burial or concrete encased installations. Rated for use with 90°C cable.

P&C Duct Type DB-100

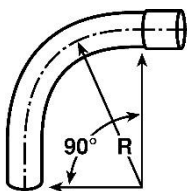
Nom. Size	Part Number	Std. Crate Qty. (ft.)	Approx. Wt. per 100 ft (lbs.)	Avg. O.D. (in.)	⁴ Min. Wall (in.)
3"	68913-020	2,000	95	3.500	0.112
4"	68915-020	1,140	156	4.500	0.145
5"	68916-020	760	237	5.563	0.179
6"	68917-020	520	337	6.625	0.213

⁴Meets NEMA Standard TC-6 & 8 and ASTM F-512
Minimum wall thickness relates to 500,000 modulus
One belled end per 20' length

DB-100 Sweeps – Belled

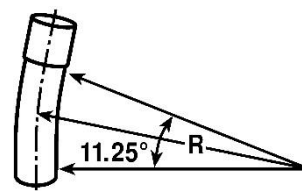
90° Sweep – 48" Radius

Nom. Size	Part Number
4"	PE9HN
5"	PE9HP



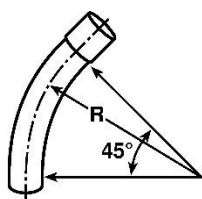
11¼° Sweep – 150" Radius

Nom. Size	Part Number
5"	PE3SP



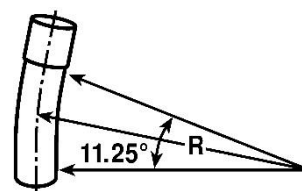
45° Sweep – 150" Radius

Nom. Size	Part Number
5"	PE7SP



11¼° Segmented Sweep – 150" Radius

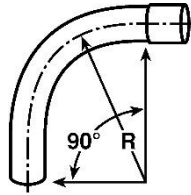
Nom. Size	Part Number
4"	PE3SNS
5"	PE3SPS
6"	PE3SRS



Standard carton quantity = 1
Meets NEMA Standard TC-9.

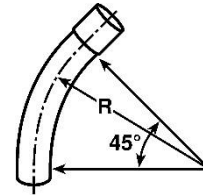
P&C® Duct DB-60 Sweeps

DB-60 90° Sweeps - Belled



Part Number	Size	Radius
PF9CJ	2"	18"
PF9CL	3"	18"
PF9CN	4"	18"
PF9DJ	2"	24"
PF9DL	3"	24"
PF9DN	4"	24"
PF9DP	5"	24"
PF9FJ	2"	36"
PF9FL	3"	36"
PF9FN	4"	36"
PF9FP	5"	36"
PF9FR	6"	36"
PF9HL	3"	48"
PF9HN	4"	48"
PF9HP	5"	48"
PF9HR	6"	48"
PF9IL	3"	60"
PF9IN	4"	60"
PF9IP	5"	60"
PF9IR	6"	60"
PF9SJ	2"	150"
PF9SL	3"	150"
PF9SR	6"	150"
PF9VL	3"	300"
PF9VN	4"	300"
PF9VP	5"	300"
PF9VP	5"	300"

DB-60 45° Sweeps - Belled



Part Number	Size	Radius
PF7CJ	2"	18"
PF7CL	3"	18"
PF7DJ	2"	24"
PF7DL	3"	24"
PF7DN	4"	24"
PF7FJ	2"	36"
PF7FL	3"	36"
PF7FN	4"	36"
PF7FP	5"	36"
PF7FR	6"	36"
PF7HJ	2"	48"
PF7HL	3"	48"
PF7HN	4"	48"
PF7HP	5"	48"
PF7HR	6"	48"
PF7IL	3"	60"
PF7IP	5"	60"
PF7NN	4"	120"
PF7SJ	2"	150"
PF7SL	3"	150"
PF7SN	4"	150"
PF7SP	5"	150"
PF7SR	6"	150"
PF7VN	4"	300"
PF7VP	5"	300"
PF7VR	6"	300"

Note: Sweeps 72" and larger may be shipped in segments. Consult factory for specifics.

Standard Carton Quantity = 1 each

Consult factory for additional sizes/configurations.

Use 3-1/2" Schedule 40 elbows for 3-1/2" DB-60 (48814-020) conduit.

Use DB Sweeps with EB Duct.

Meets NEMA Standard TC-9.