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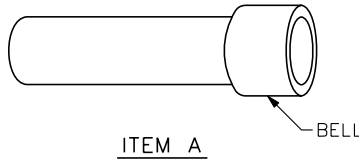
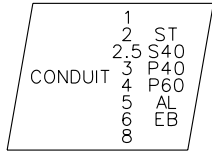


POWER
DISTRIBUTION
STANDARDS

BLANK

Z-590

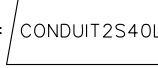
CONDUIT_DB



CONDUIT SIZE

- STEEL
- SCHEDULE 40 PVC
- PETROFLEX SCHEDULE 40
- PETROFLEX SCHEDULE 60
- ALUMINUM
- ENCASED BURIED

SPECIAL:



(20' LENGTH
2" SCHEDULE 40)



(20' LENGTH
4" DIRECT BURIED)

SEE CHART BELOW
FOR VALID COMBINATIONS

C.U. CODE	ITEM	MATERIAL	MATERIAL DESCRIPTION	LENGTH	STOCK NO.
CONDUIT1S40	A	PVC	1" CONDUIT SCHEDULE 40	10'	4203-1708
CONDUIT2S40	A	PVC	2" CONDUIT SCHEDULE 40	10'	4203-1724
CONDUIT2S40L	A	PVC	2" CONDUIT SCHEDULE 40	20'	0106-3825
CONDUIT2.5S40	A	PVC	2.5" CONDUIT SCHEDULE 40	10'	9800-0739
CONDUIT3S40	A	PVC	3" CONDUIT SCHEDULE 40	10'	4203-1757
CONDUIT4S40	A	PVC	4" CONDUIT SCHEDULE 40	10'	4203-1773
CONDUIT5S40	A	PVC	5" CONDUIT SCHEDULE 40	10'	4203-1799
CONDUIT6S40	A	PVC	6" CONDUIT SCHEDULE 40	10'	4203-1823
CONP24	A	PVC	4" CONDUIT DIRECT BURIED	20'	9900-2636
CONDUIT6EB	A	PVC	6" CONDUIT ENCASED BURIED	20'	4203-1849
CONDUIT2AL	A	AL	2" CONDUIT ALUMINUM W/COUPLING	10'	4203-0866
CONDUIT3AL	A	AL	3" CONDUIT ALUMINUM W/COUPLING	10'	4203-0882
CONDUIT2ST	A	STEEL	2" CONDUIT STEEL W/COUPLING	10'	4203-0668
CONDUIT3ST	A	STEEL	3" CONDUIT STEEL W/COUPLING	10'	4203-0684
CONDUIT4ST	A	STEEL	4" CONDUIT STEEL W/COUPLING	10'	4203-0536
CONDUIT5ST	A	STEEL	5" CONDUIT STEEL W/COUPLING	10'	4203-0544
CONDUIT6ST	A	STEEL	6" CONDUIT STEEL W/COUPLING	10'	4203-0551
CONDUIT1P40	A	POLYETHYLENE	1" CONDUIT SCHEDULE 40, HDPE NO COUPLING	7500' COIL	0132-2437
CONDUIT2P40	A	POLYETHYLENE	2" CONDUIT SCHEDULE 40, HDPE NO COUPLING	2500' COIL	0132-2445
CONDUIT4P60	A	POLYETHYLENE	4" CONDUIT SCHEDULE 60, HDPE NO COUPLING	625' COIL	0123-9938
CONDUIT3P	A	POLYETHYLENE	3" CONDUIT RATING 11, HDPE NO COUPLING	1000' COIL	9503-4165
CONDUIT5P	A	POLYETHYLENE	5" CONDUIT RATING 11, HDPE NO COUPLING	40'	9800-0317
CONDUIT8P	A	POLYETHYLENE	8" CONDUIT RATING 9, HDPE NO COUPLING	40'	9800-0713

NOTES:

1. Schedule 40 conduit may be used for above ground, direct earth burial, concrete encasement, concrete slab and exposed applications. EB conduit for concrete encasement only.
2. Concrete encasement should be used only when required by local or civil authorities.
3. Rating 11, standard dimension ratio (SDR) conduit can be used for open trench and directional boring.

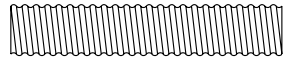
DRAWN: BLW | DVLPED: JTR | DATE: 07/05 | REVIEWED: RWM | DATE: 08/26/09 | APPRVD: JKP | DATE: 09/09/09 | NEXT REVIEW: 09/12 | REV: 11



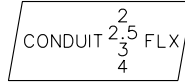
POWER
DISTRIBUTION
STANDARDS

CONDUIT

Z590



ITEM B



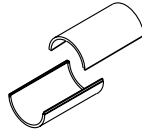
CONDUIT SIZE — FLEXIBLE

SPECIAL:

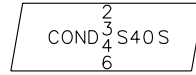


2" FLEXIBLE DUCT WITH FISH LINE

ITEM C



ITEM D



CONDUIT SIZE — SPLIT DUCT SCHEDULE 40 PVC

C.U. CODE	ITEM	MATERIAL	MATERIAL DESCRIPTION	LENGTH	STOCK NO.
CONDUIT2FLX	B	PVC	2" CORRUGATED FLEXIBLE CONDUIT	250' COIL	0122-7099
CONDUIT2.5FLX	B	PVC	2.5" CORRUGATED FLEXIBLE CONDUIT	250' COIL	9800-5000
CONDUIT3FLX	B	PVC	3" CORRUGATED FLEXIBLE CONDUIT	250' COIL	0122-7107
CONDUIT4FLX	B	PVC	4" CORRUGATED FLEXIBLE CONDUIT	250' COIL	0122-7115
CONPF2	C	PVC	2" CORRUGATED FLEXIBLE CONDUIT WITH FISH LINE	250' COIL	9900-2612
COND2S40S	D	PVC	2" SPLIT DUCT SCHEDULE 40	2'	9503-2774
COND3S40S	D	PVC	3" SPLIT DUCT SCHEDULE 40	2'	9503-2776
COND4S40S	D	PVC	4" SPLIT DUCT SCHEDULE 40	2'	9503-2777
COND6S40S	D	PVC	6" SPLIT DUCT SCHEDULE 40	2'	9503-2778

NOTE:

Split duct is snapped in place.

DRAWN: BLW	DVLPED: JTR	DATE: 07/05	REVIEWED: RWM	DATE: 08/26/09	APPRVD: JKP	DATE: 09/09/09	NEXT REVIEW: 09/12	REV: 5
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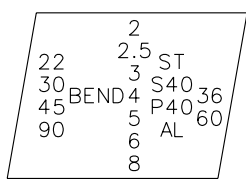
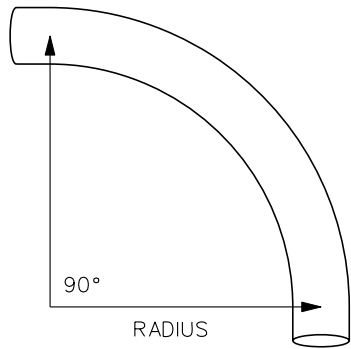
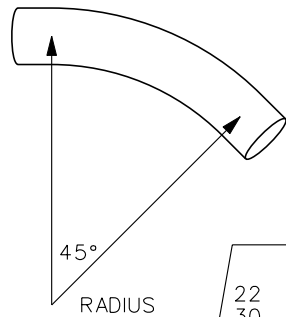
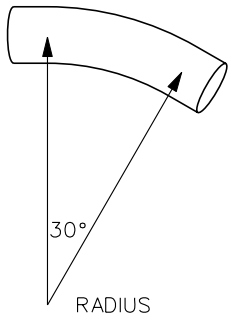
Z590_1



POWER DISTRIBUTION STANDARDS

CONDUIT ▲

Z-590.2



DEGREE OF BEND ——— BEND RADIUS FOR NON-STANDARD RADIUS
 CONDUIT SIZE (inches) ——— STEEL
 SCHEDULE 40 PVC
 PETROFLEX SCHEDULE 40
 ALUMINUM

SEE CHART BELOW FOR VALID COMBINATIONS

C.U. CODE	MATERIAL	MATERIAL DESCRIPTION	RADIUS	STOCK NO.
30BEND4S40	PVC	4" 30° BEND SCH40 STANDARD RADIUS	16"	4202-0065
30BEND5S40	PVC	5" 30° BEND SCH40 STANDARD RADIUS	24"	4202-0024
30BEND6S40	PVC	6" 30° BEND SCH40 STANDARD RADIUS	30"	4202-0099
45BEND2S40	PVC	2" 45° BEND SCH40 STANDARD RADIUS	9-1/2"	4202-0008
45BEND2.5S40	PVC	2.5" 45° BEND SCH40 STANDARD RADIUS	9-1/2"	9800-0742
45BEND3S40	PVC	3" 45° BEND SCH40 STANDARD RADIUS	13"	4202-0016
45BEND4S40	PVC	4" 45° BEND SCH40 STANDARD RADIUS	16"	4202-0073
45BEND5S40	PVC	5" 45° BEND SCH40 STANDARD RADIUS	24"	4202-0032
45BEND6S40	PVC	6" 45° BEND SCH40 STANDARD RADIUS	30"	4202-0107
90BEND2S40	PVC	2" 90° BEND SCH40 STANDARD RADIUS	9-1/2"	4202-0933
90BEND3S40	PVC	3" 90° BEND SCH30 STANDARD RADIUS	13"	4202-0958
90BEND4S40	PVC	4" 90° BEND SCH40 STANDARD RADIUS	16"	4202-0974
90BEND5S40	PVC	5" 90° BEND SCH40 STANDARD RADIUS	24"	4202-0040
90BEND6S40	PVC	6" 90° BEND SCH40 STANDARD RADIUS	30"	4202-0115
90BEND2S4036	PVC	2" 90° BEND SCH40	36"	4202-1733
90BEND2.5S4036	PVC	2.5" 90° BEND SCH40	36"	9800-0743
90BEND3S4036	PVC	3" 90° BEND SCH40	36"	4202-1758
90BEND4S4036	PVC	4" 90° BEND SCH40	36"	4202-1766
90BEND6S4060	PVC	6" 90° BEND SCH40	60"	0112-5673
90BEND2AL	AL	2" 90° BEND ALUMINUM	9-1/2"	4202-0461
90BEND3AL	AL	3" 90° BEND ALUMINUM	13"	4202-0487
90BEND2ST	STEEL	2" 90° BEND STEEL	18"	0105-3487
90BEND2ST36	STEEL	2" 90° BEND STEEL	36"	4202-0529
90BEND3ST36	STEEL	3" 90° BEND STEEL	36"	4202-0586
90BEND4ST36	STEEL	4" 90° BEND STEEL	36"	4202-0552
90BEND5ST	STEEL	5" 90° BEND STEEL	24"	4202-0560
22BEND8P40	POLYETHYLENE	8" 22.5° BEND SCH40 HDPE STANDARD RADIUS	24"	0133-3657
45BEND8P40	POLYETHYLENE	8" 45° BEND SCH40 HDPE STANDARD RADIUS	30"	0133-3640
90BEND8P4036	POLYETHYLENE	8" 90° BEND SCH40 HDPE	36"	0132-2163
90BEND8P4060	POLYETHYLENE	8" 90° BEND SCH40 HDPE	60"	0133-3632

NOTE: The standard radius (THIS IS AN INDUSTRY STANDARD) is the minimum radius for a bend as determined by the bend diameter. As the radius increases, the overall length of the bend also increases.

DRAWN: JFB | DVLPED: JTR | DATE: 07/05 | REVIEWED: RWM | DATE: 08/26/09 | APPRVD: JKP | DATE: 09/09/09 | NEXT REVIEW: 09/12 | REV: 7



POWER DISTRIBUTION STANDARDS

CONDUIT BENDS ◀

Z590_2

CONDUIT_ACC*
CONDUIT DIA., i.e. 2"

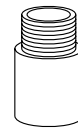
Z-590.3



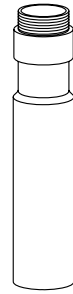
1 ST
2 S40
COUP 2.5 P40
3 P60
4 AL
8



2
3
FEMALE 4 S40
5
6



2
2.5
MALE 3 S40
4
6

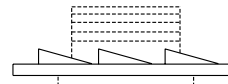


2
MALE 3 S40E
4

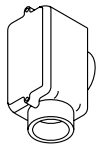
CONDUIT
SIZE

STEEL
SCHEDULE 40 PVC
PETROFLEX SCHEDULE 40
PETROFLEX SCHEDULE 60
ALUMINUM

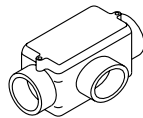
SEE CHART BELOW
FOR VALID COMBINATIONS



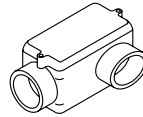
2
2.5
LOCKNUT 3 AL
4



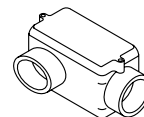
2
FITTING 3 LB
4



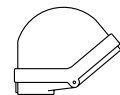
FITTING 2T



FITTING 2LL



FITTING 2LR



SERV CAP 2 PVC
4

CONDUIT SIZE

STYLE

C.U. CODE	MATERIAL DESCRIPTION	STOCK NO.
COUP1ST	COUPLING STEEL 1"	4203-2516
COUP2ST	COUPLING STEEL 2"	4203-2557
COUP3ST	COUPLING STEEL 3"	4203-2573
COUP4ST	COUPLING STEEL 4"	4203-2524
COUP5ST	COUPLING STEEL 5"	4203-2532
COUP2AL	COUPLING ALUMINUM 2"	4203-2733
COUP3AL	COUPLING ALUMINUM 3"	4203-2755
COUP1S40	COUPLING SCH40 1"	4203-2607
COUP2S40	COUPLING SCH40 2"	4203-3431
COUP2S40L	COUPLING SCH40 2", LONG	9900-3472
COUP2.5S40	COUPLING SCH40 2.5"	9800-0745
COUP3S40	COUPLING SCH40 3"	4203-3456
COUP4S40	COUPLING SCH40 4"	4203-3472
COUP4PVCL	COUPLING PVC 4", 7" LONG	9900-3493
COUP5S40	COUPLING SCH40 5"	4203-3498
COUP6S40	COUPLING SCH40 6"	4203-3480
COUP6S40R	COUPLING SCH40 6", REPAIR SLEEVE	9900-3497
COUP1P40	COUPLING PETROFLEX/PVC SCH40 1"	0133-7302
COUP2P40	COUPLING PETROFLEX/PVC SCH40 2"	0133-7310
COUP3P60	COUPLING PETROFLEX SCH40 3"	9503-4600
COUP4P60	COUPLING PETROFLEX SCH60 4"	0123-9946
COUP8P40	COUPLING PETROFLEX SCH40 8"	0133-3624
LOCKNUT2AL	LOCKNUT, AL, 2"	4212-0261
LOCKNUT2.5AL	LOCKNUT, AL, 2.5"	9800-0741
LOCKNUT3AL	LOCKNUT, AL, 3"	0106-4724
LOCKNUT4AL	LOCKNUT, AL, 4"	0106-4732

C.U. CODE	MATERIAL DESCRIPTION	STOCK NO.
FEMALE2S40	FEMALE ADAPTER SCH40 2"	4201-2336
FEMALE3S40	FEMALE ADAPTER SCH40 3"	4201-2559
FEMALE4S40	FEMALE ADAPTER SCH40 4"	4201-2484
FEMALE5S40	FEMALE ADAPTER SCH40 5"	4201-2500
FEMALE6S40	FEMALE ADAPTER SCH40 6"	4201-2518
MALE2S40	TERMINAL ADAPTER SCH40 2"	4201-2633
MALE2.5S40	TERMINAL ADAPTER SCH40 2.5"	9800-0738
MALE3S40	TERMINAL ADAPTER SCH40 3"	4201-2658
MALE4S40	TERMINAL ADAPTER SCH40 4"	4201-2674
MALE6S40	TERMINAL ADAPTER SCH40 6"	0122-7420
MALE2S40E	TERM. ADAPTER EXP. SCH40 2"	0132-2486
MALE3S40E	TERM. ADAPTER EXP. SCH40 3"	0132-2494
MALE4S40E	TERM. ADAPTER EXP. SCH40 4"	0132-2502
SERV CAP 2 PVC	SERV ENTRANCE CAP 2" PVC	0112-7273
SERV CAP 4 PVC	SERV ENTRANCE CAP 4" PVC	0106-5911
FITTING 2 LB	ACCESS FITTING 2" LB	0123-3063
FITTING 3 LB	ACCESS FITTING 3" LB	0113-2174
FITTING 4 LB	ACCESS FITTING 4" LB	0107-1828
FITTING 2 T	ACCESS FITTING 2" T	0104-0880
FITTING 2 LL	ACCESS FITTING 2" LL	0104-0864
FITTING 2 LR	ACCESS FITTING 2" LR	0104-0872

DRAWN: JFB | DVL PED: JTR | DATE: 07/05 | REVIEWED: RWM | DATE: 08/26/09 | APPRVD: JKP | DATE: 09/09/09 | NEXT REVIEW: 09/12 | REV: 3

Z590_3

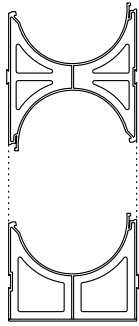


POWER
DISTRIBUTION
STANDARDS

CONDUIT FITTINGS

Z-590.4

CONDUIT_ACC* CONDUIT DIA., i.e. 2



NOTE 1
 SPACER $\frac{5}{6}$ I
 CONDUIT SIZE — INTERMEDIATE

SPACER $\frac{5}{6}$ B
 CONDUIT SIZE — BASE



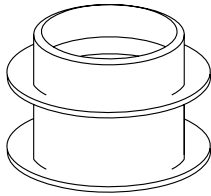
WOODSTAKE36
 LENGTH



1
 2 S40
 4 CAP
 6 P40
 8

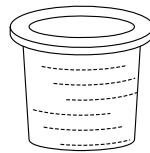
SCHEDULE 40 PVC
 PETROFLEX SCHEDULE 40

SEE CHART BELOW
 FOR VALID COMBINATIONS

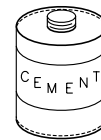


4
 BELLEND5S40
 6

CONDUIT SIZE — SCHEDULE 40



2
 PLUG4S40
 5
 6



CEMENT-PVC

C.U. CODE	MATERIAL DESCRIPTION	STOCK NO.
PLUG2S40	END-PLUG SCH40 2"	4203-0403
PLUG4S40	END-PLUG SCH40 4"	4216-0457
PLUG5S40	END-PLUG SCH40 5"	4216-0465
PLUG6S40	END-PLUG SCH40 6"	4216-0473
BELLEND4S40	BELL END SCH40 4"	4202-0321
BELLEND5S40	BELL END SCH40 5"	4202-0339
BELLEND6S40	BELL END SCH40 6"	4202-0354
SPACER5B	CONDUIT SPACER BASE 5"	4219-1221
SPACER6B	CONDUIT SPACER BASE 6"	4219-1239
SPACER5I	CONDUIT SPACER INTERMEDIATE 5"	4219-1122
SPACER6I	CONDUIT SPACER INTERMEDIATE 6"	4219-1130
CAP6S40	CONDUIT END CAP SCH40 6" PVC	4203-0155
CAP1P40	CONDUIT END CAP SCH40 1" HDPE	0133-7294
CAP2P40	CONDUIT END CAP SCH40 2" HDPE	0132-1405
CAP4P40	CONDUIT END CAP SCH40 4" HDPE	0132-1413
CAP6P40	CONDUIT END CAP SCH40 6" HDPE	0132-1421
CAP8P40	CONDUIT END CAP SCH40 8" HDPE	0132-1439
WOODSTAKE36	WOOD TIE-DOWN STAKE 36"	0833-0003
CEMENT-PVC	PVC CEMENT	4203-0270

NOTES:

- SPACER*I and SPACER*B are used to separate and contain conduits in a duct bank system. They are interlocking and can be assembled to meet the duct arrangements for the precast manhole MH16X6X7P Z-580.
- PLUG*S40 is a protective cup for temporary use when assembling conduits. CAP*** is used to provide conduit protection when cables will not be installed immediately or when the riser is retired.

DRAWN: JFB DVLPED: JTR DATE: 06/01 REVIEWED: RWM DATE: 08/26/09 APPRVD: JKP DATE: 09/09/09 NEXT REVIEW: 09/12 REV: 0



POWER
 DISTRIBUTION
 STANDARDS

CONDUIT ACCESSORIES

Z590_4