

Single-Family Dwelling Example

Minimum Ampacity for Ungrounded Service-Entrance Conductors

Service Rated 148 A $148 \text{ A} \times 0.83 = \underline{122 \text{ A}}$ (310.15(B)(7)(1))

All Conductors - THWN CU 75°

From Table 310.15(B) (16)

service entrance conductors

1 AWG (Rated 130 A)

Ungrounded Conductor Size (CU)

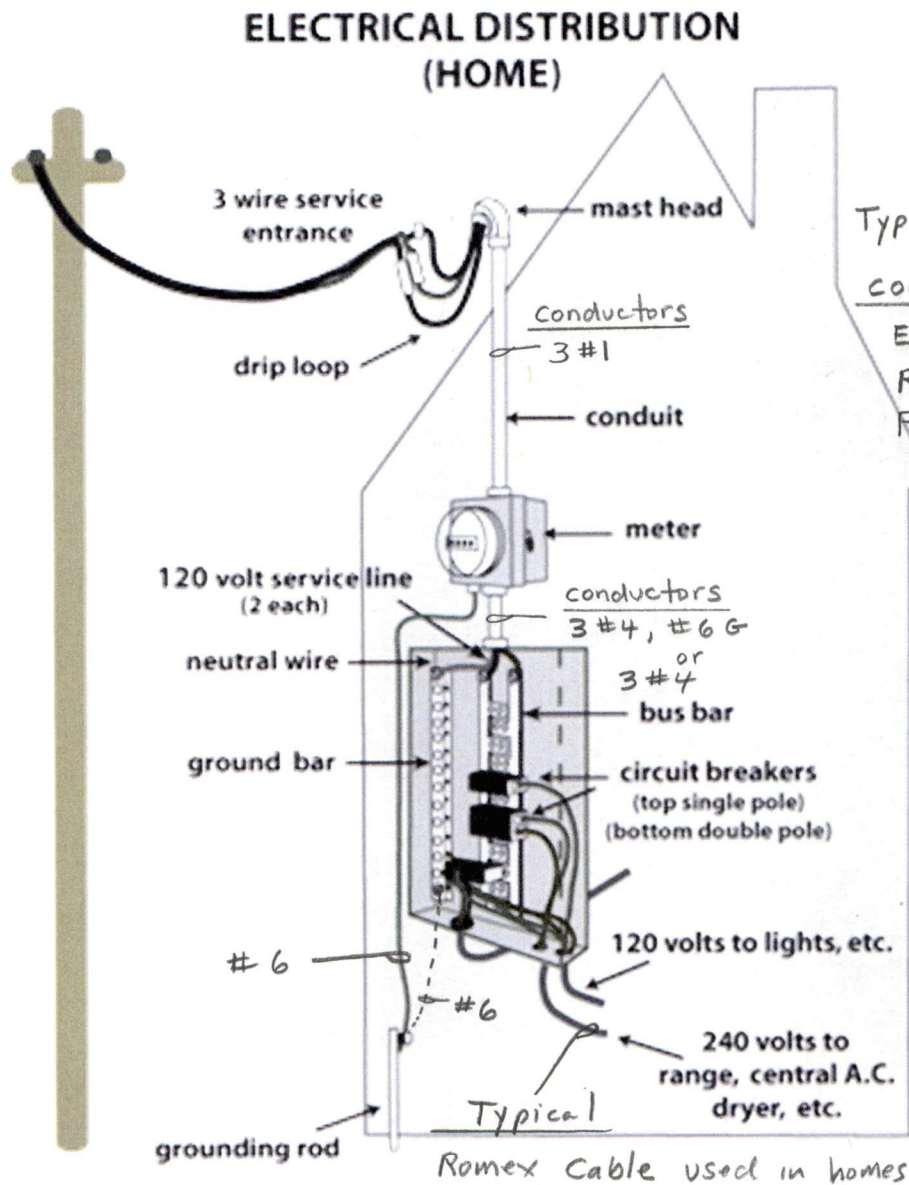
4 AWG

Neutral Conductor Size (CU)

4 AWG

Grounding Electrode Conductor Size (CU)

6 AWG



Type - NEC 230.43 / AHJ
 conduit (Annex C, Table C.1)
 EMT 1 1/4" (4 #1) 70-714
 RMC 1 1/4" (4 #1) 70-762
 PVC sched 80 1 1/4" (3 #1) 70-77

Conduit (Chapter 9)

Table 5

#4 0.0824 in²

#6 0.0507 in²

3 #4, #6 G 0.2979 in²

3 #4 0.2472 in²

Table 4

EMT 1" (3 #4, #6 G)

RMC 1"

PVC sched 40 1"