



CENTRAL MAINE POWER CO.

METERING CONSTRUCTION
STANDARDS

OVERHEAD
CONDUCTORS

UNDERGROUND
CONDUCTORS

ALLOWABLE SECONDARY AND SERVICE LENGTHS IN
FEET FOR VARIOUS (CUSTOMER OWNED RESIDENTIAL)
SERVICE SIZES AND CONDUCTOR TYPES
(120/240 VOLT, SINGLE-PHASE, 3-WIRE SERVICE)

Conductor Size	100 Amp Service		150 Amp Service		200 Amp Service		400 Amp Service	
	Aluminum	Copper	Aluminum	Copper	Aluminum	Copper	Aluminum	Copper
#2	135	--	na	--	na	--	na	--
1/0	210	--	140	--	na	--	na	--
4/0	430	--	290	--	215	--	na	--
336.4	630	--	420	--	315	--	na	--

Conductor Size	100 Amp Service		150 Amp Service		200 Amp Service		400 Amp Service		Min. Conduit Size
	Aluminum	Copper	Aluminum	Copper	Aluminum	Copper	Aluminum	Copper	
#2	150	235	na	na	na	na	na	na	2"
#1	190	290	na	195	na	na	na	na	2"
1/0	235	350	na	235	na	na	na	na	2"
2/0	295	435	195	290	na	215	na	na	2"
3/0	360	530	240	355	na	265	na	na	2"
4/0	440	650	295	435	220	325	na	na	2 1/2"
250	500	725	340	485	250	360	na	na	2 1/2"
350	660	910	440	605	330	455	na	na	3"
500	875	1150	580	765	435	575	na	290	4"
2 - 4/0	885	1300	585	865	440	650	na	325	4"
2 - 250	1015	1450	675	965	505	725	255	365	4"
2 - 350	1320	1835	885	1225	660	915	330	460	4"

Notes:

- 1 - 'na' indicates conductor not adequate for the load/service:
Refer to NEC Table 310.20 @ 75° C (per CMP cable insulation spec.) for overhead conductors;
Refer to NEC Table 310.15 (B) (6) for underground conductors;
For more than 3 current carrying conductors an 80% de-rating applies per NEC Table 310.15 (B) (2) (a).
- 2 - Calculations are based on 80% loading of service and 3% voltage drop.
- 3 - Distances are total circuit feet from service transformer terminals to customer's service entrance panel.
- 4 - Some conductors may require oversized, or special ordered meter enclosure with 3/8" stud type connections.
- 5 - Overhead secondary conductors run pole to pole are subject to all requirements of the customer owned line extension policy.
- 6 - See Handbook paragraph 905 for CMP Standard underground service sizes and lengths.

MACRO

ALLOWABLE SECONDARY AND SERVICE LENGTH

DESCRIPTION

PAGE
980-31.6

XII. ILLUSTRATION No. 31