

List of materials called for by the Alberta electrical code
Based on the 19th edition of the Canadian Electrical code and Alberta amendments

Service size (amperes)	60	100
Above grade floor area m2 (Sq Ft)	Less than 80 m2 (861 sq ft)	More than 80 m2 (861 sq ft)
Service switch or breaker rating	60	100
Hot Conductors	2-# 6 R90XLPE Copper (black,red,or blue)	2-# 3 R90XLPE Copper (black,red,or blue)
Neutral Hot Conductor	2-# 6 R90XLPE Copper (white or natural grey)	2-# 6 R90XLPE Copper (white or natural grey)
Service raseway	1" or use # 6 copper teck cable	1-1/4" or use # 3 copper teck cable
Meter Base rating	100 amp	100 amp
Service grounding conductor	# 6 or larger bare copper	# 6 or larger bare copper
Service Panel size	16 circuits	24 circuits
Notes	May service normal outlets and central gas or oil furnaces	May service normal outlets and central electrical furnace or boiler. Baseboard heaters willneed more than 24 branch circuits (30 circuits)

Service size (amperes)	120	150
Above grade floor area m2 (Sq Ft)	More than 80 m2 (861 sq ft)	More than 80 m2 (861 sq ft)
Service switch or breaker rating	120	150
Hot Conductors	2-# 2 R90XLPE Copper (black,red,or blue)	2-# 1.0 R90XLPE Copper (black,red,or blue)
Neutral Hot Conductor	2-# 6 R90XLPE Copper (white or natural grey)	2-# 4 R90XLPE Copper (white or natural grey)
Service raseway	1-1/4" or use # 2 copper teck cable	1-1/4" or use # 1/0 copper teck cable
Meter Base rating	200 amp	200 amp
Service grounding conductor	# 6 or larger bare copper	# 4 or larger bare copper
Service Panel size	24 circuits	30 circuits
Notes	May service normal outlets and central electrical furnace or boiler. Baseboard heaters willneed more than 24 branch circuits (30 circuits)	May service normal outlets and central electrical furnace or boiler. Baseboard heaters willneed more than 30 branch circuits (40 circuits)

Service size (amperes)	200
Above grade floor area m2 (Sq Ft)	More than 80 m2 (861 sq ft)
Service switch or breaker rating	200
Hot Conductors	2-# 2/0 R90XLPE Copper (black,red,or blue)
Neutral Hot Conductor	2-# 3 R90XLPE Copper (white or natural grey)
Service raseway	1-1/2" or use # 2/0 copper teck cable
Meter Base rating	200 amp
Service grounding conductor	# 3 or larger bare copper
Service Panel size	30 circuits
Notes	May service normal outlets and central electrical furnace or boiler. Baseboard heaters willneed more than 30 branch circuits (40 circuits)