



TYPE NM-B COPPER CONDUCTOR

CONDUCTOR				GROUND WIRE		APPROX. CABLE DIMENSION (MILS)	APPROX. WEIGHT PER 1000 FT. IN POUNDS	ALLOWABLE AMPACITIES
SIZE (AWG)	NUMBER OF CONDUCTORS IN CABLE	NUMBER OF STRANDS IN CONDUCTORS	INSULATION THICKNESS IN MILS	SIZE (AWG)	NO. OF STRANDS			
2 CONDUCTOR								
14	2	1	19	14	1	360 x 162	58	15
12	2	1	19	12	1	410 x 179	83	20
10	2	1	24	10	1	494 x 210	126	30
8	2	7	35	10	1	612 x 269	187	40
6	2	7	35	10	1	683 x 304	256	55
3 CONDUCTOR								
14	3	1	19	14	1	307	75	15
12	3	1	19	12	1	347	109	20
10	3	1	24	10	1	422	167	30
8	3	7	35	10	1	565	254	40
6	3	7	35	10	1	650	357	55
4	3	7	46	8	1	892	593	70
2	3	7	46	8	1	1034	856	95

NOTE: Jacket thickness for all NM-B cable is 30 mils.
 †Ampacity per 310.15 and 334.80, NEC 2005 Edition.

APPLICATIONS

Republic Wire's NM-B (nonmetallic-sheathed cable) may be used for both exposed and concealed work in normally dry locations at temperatures not to exceed 90°C with ampacity limited to 60°C conductors as specified in the 2011 NEC.

NM-B is primarily used in residential wiring as branch circuits for switches, outlets and other loads. NM-B may run in air voids of masonry block or tile walls where locations are not wet or damp. NM-B voltage rating is 600 volts.

CONSTRUCTION

Republic Wire's NM-B cable is manufactured as 2 or 3 conductor cable with a bare ground wire. Copper conductors are soft annealed copper. Stranded conductors are compressed stranded. Conductor insulation is 90°C rated PVC, nylon jacketed. NM-B is designed for easier pulling which results in easier installation. The cables are color coded for quick size identification: 14 AWG-WHITE, 12 AWG-YELLOW, 10 AWG-ORANGE, 8 AWG and larger are BLACK.

SPECIFICATIONS

Complies with:

- ASTM B-3 AND B-8
- UL STANDARD 83
- UL STANDARD 719
- FEDERAL SPEC A-A-59544
- NEC, NFPA 70. 2011 EDITION
- ROHS/REACH