

## Engineering Specifications:

### Standards:

Underwriters Laboratories Standard UL-83, UL-719  
 Federal Specification A-A-59544  
 ASTM-B3 and B8



Listed E-123775

### Construction:

#### Conductors:

Solid 14-10 AWG soft, uncoated copper, per ASTM-B3  
 Stranded 8 AWG conductor and larger uncoated, copper ASTM-B8

#### Insulation:

Color-coded Polyvinyl Chloride (PVC) compound meeting the required thickness  
 of type THHN with a heat-stabilized Nylon rated for 90°C in dry locations.

#### Grounding Conductor:

Soft, uncoated copper per ASTM-B3 and/or ASTM-B8

### Applications:

Type NM-B (Non-metallic sheathed cable) has a broad range of usage as defined in Article 334 of the National Electrical Code (NEC). Type NM-B cable is primarily used in residential wiring as branch circuits for outlets, switches, and other loads. Type NM-B is rated for 600 volts for both exposed and concealed work in normally dry locations at temperatures not to exceed 90°C with ampacity limited to that of 60°C conductors, as specified in the National Electrical Code. Type NM-B may be installed or fished in air voids and joints and in masonry block or tile walls where such walls are not exposed to, nor subject to, excessive moisture or dampness.

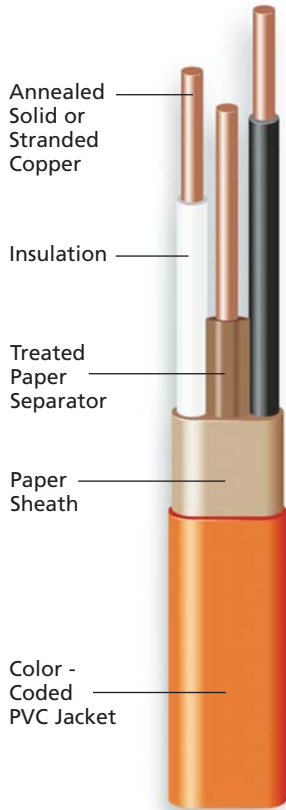
### Assembly:

2-conductor construction has the insulated conductors laid parallel. When a ground wire is present, it is wrapped with paper and laid parallel between the insulated conductors. The entire construction is wrapped with a paper separator before applying the PVC outer jacket. 3- and 4- conductor constructions have the insulated conductors twisted together. When a ground wire is present, it is wrapped with paper and twists together with the insulated conductors.

### Jacket:

A 30-mil, color-coded, PVC jacket is applied over the completed assembly as follows:

14 AWG White | 12 AWG Yellow | 10 AWG Orange | 8 AWG Black | 6 AWG Black



Size (AWG) and Number of Conductors	Number of Strands	Ground Wire Size (AWG)	Insulation Thickness (inches)		Allowable Ampacity* (amps)	Outside Diameter (inches)	Approx. Net Weight (lbs./1000 ft.)	Standard Packaging
			PVC	Nylon				
<b>With Ground</b>								
14/2G	Solid	14	.015	.004	15	.160 x .450	58	25' 50' 100' 250' 500' EZ, 1000' RL/EZ, 5000' reels
12/2G	Solid	12	.015	.004	20	.170 x .390	82	25' 50' 100' 250' 500' 1000' RL/EZ, 4000' reels
10/2G	Solid	10	.020	.004	30	.210 x .493	126	25' 50' 100' 250' 500' 1000' RL/EZ, 5000' reels
8/2G	7	10	.030	.005	40	.290 x .580	189	125' 250' EZ, 500' 1000' 2500 reels
6/2G	7	10	.030	.005	55	.330 x .695	262	125' 250' EZ, 500' 1000' 2500 reels
14/3G	Solid	14	.015	.004	15	.320	74	250' 500' 1000' 5000' reels
12/3G	Solid	12	.015	.004	20	.345	107	250' 500' 1000' 5000' reels
10/3G	Solid	10	.020	.004	30	.430	169	250' 500' 1000' 2500' reels
8/3G	7	10	.030	.005	40	.555	251	125' 250' EZ, 500' 1000' 2500 reels
6/3G	7	10	.030	.005	55	.612	352	125' 250' EZ, 500' 1000' 2500 reels
4/3G	7	8	.040	.006	70	.820	591	125' 250' EZ, 500' 1000' reels
2/3G	7	8	.040	.006	95	.945	865	125' 250' EZ, 500' 1000' reels
**14/4G & 14/2-2G	Solid	14	.015	.004	12	.345	90	250' 1000' 5000' reels
**12/4G & 12/2-2G	Solid	12	.015	.004	16	.385	132	250' 1000' 5000' reels
**10/4G & 10/2-2G	Solid	10	.020	.004	30	.540	205	250' 1000' 5000' reels
<b>Without Ground</b>								
14/2P	Solid	-	.015	.004	15	.160 x .450	53	250' 1000' 5000' reels
12/2P	Solid	-	.015	.004	20	.170 x .390	69	250' 1000' 5000' reels
10/2P	Solid	-	.020	.004	30	.210 x .493	102	250' 500' 1000' 5000' reels
14/3P	Solid	-	.015	.005	15	.295	64	250' 500' 1000' 5000' reels
12/3P	Solid	-	.015	.005	20	.335	87	250' 500' 1000' 5000' reels
10/3P	Solid	-	.020	.004	30	.395	136	250' 500' 1000' 5000' reels
8/3P	7	-	.030	.005	40	.540	224	125' EZ, 250' 500' 1000' reels
6/3P	7	-	.030	.005	55	.605	327	125' EZ, 500' 1000' 2500 reels

\*Allowable ampacity shown above is per the National Electrical Code. The above data is approximate and subject to normal manufacturing tolerances.

\*\*Color-Coding for four-color conductor NM-B Black, White, Red and Blue. | Color-Code for 2-2 conductor is Black, Red, White and White with a Red Stripe.