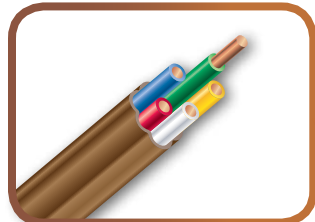
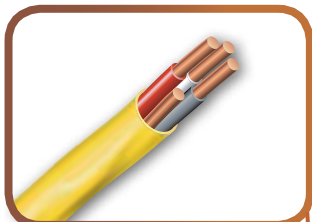


**THERMOSTAT**



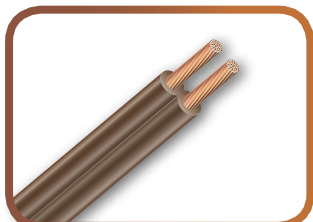
**THERMOSTAT WIRE**  
Low Voltage Control Cord

**CEILING FAN**



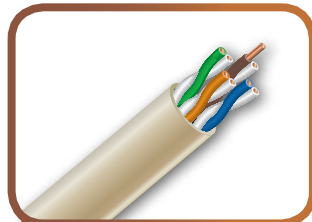
**12/3 Romex® SIMpull®**  
Type NM-B

**LAMP**



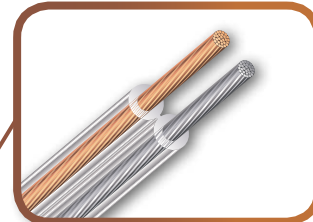
**LAMP CORD**  
Type SPT

**DATA, TELEPHONE & INTERCOM**



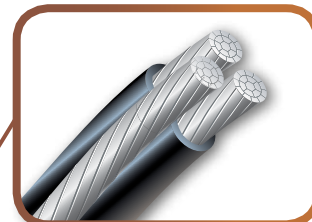
**CATEGORY 3, 5e, 6**  
Riser & Plenum Cables

**SPEAKERS**



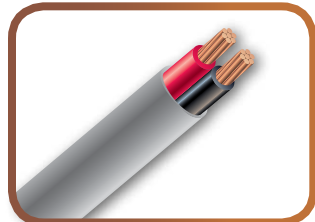
**SPEAKER WIRE**  
Parallel Zip Type Cable

**POLE TRANSFORMER**



**Multiplex**  
Service Drop

**FIRE ALARM**



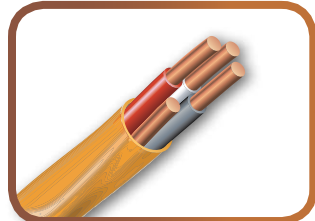
**SECURITY/FIRE ALARM**  
CMR Shielded & Unshielded

**METER BASE**



**SER or SEU**

**220 VOLT OUTLET**



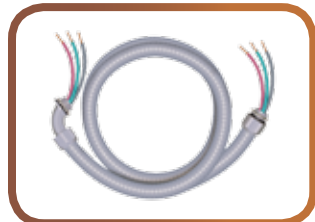
**10/3 Romex® SIMpull®**  
Type NM-B

**BREAKER BOX**

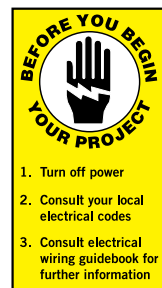


**SER or SEU**

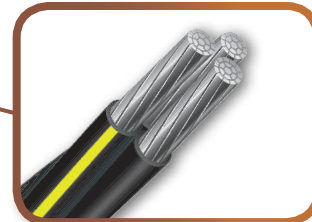
**A/C UNIT**



**NM Hook-up Whip**

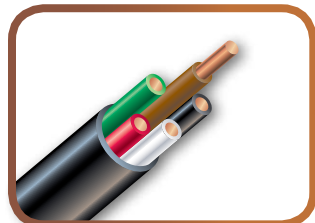


**PAD TRANSFORMER**



**URD Triplex**

**SPRINKLER**



**SPRINKLER WIRE**  
Multi-Conductor

**LANDSCAPE LIGHTS**



**LANDSCAPE**  
Lighting Cable

**DOOR BELL**



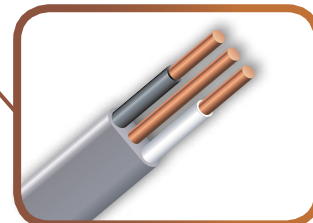
**BELL WIRE**  
Annunciator Wire

**TELEVISION**



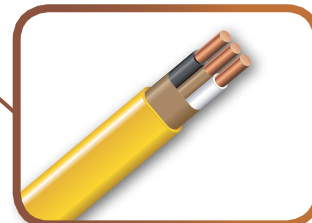
**COAXIAL CABLE**  
Telecommunication

**WATER FOUNTAIN**



**UF-B**  
Underground Feeder

**WALL SWITCH & RECEPTACLE**



**12/2 Romex® SIMpull®**  
Type NM-B

INDOOR WIRE (NM-B)	
APPLICATIONS	GAUGE / COND.
CEILING FAN WITH LIGHT	12/3
CENTRAL AIR CONDITIONER 30 AMPS	10/3
CENTRAL AIR CONDITIONER 40 AMPS	8/3
COMBINATION SWITCH & OUTLET	14/2
COOK TOP APT. SIZE - UP TO 30 AMPS	10/3
DISHWASHER	12/2
DISPOSAL	12/2
DOUBLE OVEN APT. SIZE - UP TO 30 AMPS	6/3
DOUBLE OVEN RANGE UP TO 45 AMPS - COPPER	8/3
DOUBLE OVEN RANGE UP TO 55 AMPS - COPPER	6/3
ELECTRIC DRYER UP TO 30 AMPS	10/3
ELECTRIC RANGE UP TO 50 AMPS	6/3
ELECTRIC WALL HEATER UP TO 1650 WATTS	12/2
ELECTRIC WALL HEATER OVER 1650 WATTS	10/2
EXHAUST FAN	14/2
FURNACE	14/2
GROUNDING OUTLET SMALL APPLIANCES	12/2
LIGHTED MEDICINE CABINET	14/2
LIGHTING FIXTURE	14/2
LIGHTING FIXTURE WITH OUTLETS	14/2
PORTABLE AIR COMPRESSOR	12/2
ROOM AIR CONDITIONER	12/2
SINGLE OVEN BUILT-IN UP TO 30 AMPS	8/3
WALL LIGHT SWITCH	12/2
WATER HEATER	10/2
3-WAY LIGHT SWITCH UP TO 15 AMPS	14/3
3-WAY LIGHT SWITCH UP TO 20 AMPS	12/3

USE 12/2W/GROUND WITH WALL SWITCHES AND GROUND OUTLETS WHERE LOCAL CODES

OUTDOOR WIRE (UF-B)	
APPLICATIONS	GAUGE / COND.
DETACHED BUILDING 120V TO OUTLETS OVER 100 FT.	10/2
DETACHED BUILDING 240V TO OUTLETS OVER 100 FT.	10/3
DUSK TO DAWN LIGHT	14/2
OUTDOOR POST LIGHT WITH OUTLET	12/2
PATIO-POOL WATER PROOF OUTLET	12/2
PATIO SPOTLIGHT	14/2
SUB PANEL 40 AMP FOR RUNS OVER 75 FT., USE ONE GAUGE SIZE	8/3
SUB PANEL 55 AMP FOR RUNS OVER 75 FT., USE ONE GAUGE SIZE	6/3
SWITCH & GROUND OUTLET	14/2
WATER FOUNTAIN	6/3

METAL CLAD (MC)	
APPLICATIONS	GAUGE / COND.
AIR CONDITIONER 30 AMPS	10/3
BRANCH CIRCUIT	10/2
ELECTRIC DRYER UP TO 30 AMPS	10/3
GROUNDING OUTLET	14/2
HOT TUB	10/2
LIGHTING SWITCH	12/2
OVEN/RANGE	6/3
WATER HEATER	10/3

CORD	
APPLICATIONS	GAUGE / CONDUCTOR & PRODUCT NAME
DATA, TELEPHONE & INTERCOM	CAT 6, 5e, or 4 PAIR RISER,
DOOR BELL	18/2, 18/3, or 20/2 BELL WIRE
LAMP	18/2, or 16/2 SPT
LANDSCAPE LIGHT	12, 14, or 16 LANDSCAPE CORD
SECURITY/FIRE ALARM	18/2, 18/4, 22/2 or 22/4 SECURITY WIRE
SPEAKER	14 16 or IN-WALL SPEAKER WIRE
SPRINKLER SYSTEM	18/4, 18/5, or 18/7 SPRINKLER WIRE
TELEVISION	RG6 or RG6 QUAD SHIELD
THERMOSTAT	18/2, 3, 5 or 7 THERMOSTAT WIRE

**WARNING:** INSTALLATION OF ELECTRICAL WIRE CAN BE HAZARDOUS AND, IF DONE IMPROPERLY, CAN RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE. THE ABOVE APPLICATIONS ARE GENERAL RECOMMENDATIONS WHERE SPECIAL CONDITIONS MAY EXIST, CONSULT A PROFESSIONAL ELECTRICIAN. FOR SAFE WIRING PRACTICES, CONSULT THE NATIONAL ELECTRICAL CODE AND YOUR LOCAL BUILDING/ ELECTRICAL INSPECTOR.

HELPFUL WIRE CHARTS													
AMPERAGE RATINGS*													
WIRE SIZE (AWG OR Kcmil)	14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0
INDOOR & OUTDOOR WIRE	15	20	30	40	55	70	85	95					
COPPER RHW, THHN, XHHW, SE, USE	15	20	30	50	65	85	100	115	130	150	175	200	230
RHW, THHN, XHHW & SE IN DRY LOCATIONS	15	20	30	55	75	95	110	130	150	170	195	225	260
ALU RHW, THHN, XHHW & SE IN DRY LOCATIONS		15	25	45	60	75	85	100	115	135	150	175	205

\*Amperage ratings for insulated wire & cable rated 0-2000 volts, based on table 310-16 of the 2005 NEC for not more than 3 conductors in raceway or cable or earth (directory buried), & an ambient temperature of 30°C/86°F. Branch circuits only. Not Service Entrance.

RECOMMENDED CIRCUIT LENGTHS FOR VOLTAGE DROP*										
WIRE SIZE (AWG)	15	20	30	40	50	60	70	80	90	100
COPPER 14	50									
COPPER 12	65	50								
COPPER 10	105	80	55							
COPPER 8	160	120	80	60						
COPPER 6	260	195	130	100	80					
COPPER 4	410	305	205	155	120	100	85			
COPPER 2	665	500	330	250	200	165	140	125	110	100
ALU 6	155	115	80	60	50					
ALU 4	245	185	125	95	75	60	55			
ALU 2	295	295	200	150	120	100	85	75	65	60

\*Recommended maximum circuit lengths in feet for voltage systems of 120 volts. For 240-volt systems, circuit lengths may be double. Note: Extremely long circuits can produce voltage losses whereby some electrical equipment may not operate properly. Following these recommended values should provide reasonable efficiency of operation.

AMPERAGE ALLOWANCE FOR 3-WIRE SINGLE PHASE DWELLING SERVICES		
COPPER SIZE (AWG) OR KCMIL	ALUMINUM SIZE (AWG) OR KCMIL	SERVICE RATING (AMPS)
6	6	60
3	2	100
2	1/0	125
1	2/0	150
2/0	4/0	200
3/0	250	225
4/0	300	250
250	350	300
350	500	350
400	600	400

SOUTHWIRE COMPANY  
ONE SOUTHWIRE DRIVE  
CARROLLTON, GEORGIA 30119  
866-706-9473  
WWW.SOUTHWIRE.COM