

COPPER TYPE SE-STYLE U 600-VOLT CONDUCTOR



ENGINEERING SPECIFICATIONS:

Standards:

Underwriters Laboratories Standards UL-83, UL-854
 Federal Specifications AA59544
 National Electrical Code Articles 338 & 230
 NEMA RV4 2009
 ARRA 2009; Section 1605 "Buy American" Compliant

CONSTRUCTION:

Conductors:

Solid: Bare, soft copper per ASTM-B3
 7-strand: Class B concentrically stranded per ASTM-B8
 19-strand: Combination unilay conductors per ASTM-B787

Insulation:

High dielectric strength, heat and moisture-resistant, black or colored Polyvinyl Chloride (PVC) rated for continuous use at 90°C wet or dry, meeting the requirements of UL-83 for THHN or THWN wire.

Conductor Jacket:

Clear Nylon sheath meeting the requirements of UL-83 for THHN or THWN

Ground/Neutral Conductor:

Soft drawn annealed copper conductors. *Sizes smaller than 3 AWG* have a round, stranded bare ground/neutral conductor laid parallel between the insulated conductors. *Sizes 3 AWG and larger* have bare concentric ground/neutral wires wrapped helically over the insulated conductors.

Applications:

For above ground electrical service use from the electric utility power service point to the meter or service entrance panel. Under special conditions as permitted, the NEC Type SE Style U can be used for interior wiring as branch circuits to ranges, ovens, cooking units, or clothes dryers. This cable is manufactured in accordance with Article 338 of the NEC and also the requirements of Underwriters Laboratories Standard 854. Type SE Style U is approved for installation in accordance with Article 230 of the NEC and has a rating of 600 volts.

Assembly:

Sizes smaller than 3AWG: Insulated conductors with a round, stranded bare ground/neutral laid parallel between the insulated conductors with glass reinforced tape applied over the core. *Sizes Larger than 3 AWG:* Insulated conductors with bare concentric ground/neutral wires wrapped helically with glass reinforced tape applied over the core.

Overall Jacket:

Extruded, protective sunlight-resistant gray PVC jacket over the taped assembly in accordance with UL Standard 854

Copper Style SE-Style U 600V Conductor

Insulated Conductor Size (AWG)	Insulated Conductor Stranding (No. of Wires)	Size Ground/Neutral Conductor (AWG)	Ground/Neutral Conductor Stranding (No. of Wires)	Nominal Dimensions (in)	Allowable Ampacity (Amps)*		Standard Coils (ft)	Package NR Reels (ft)	Approximate Net Weight (lbs/1000 ft)
					1	2			
10-10	Solid	10	Solid	.295 x .455	30	-	250'	250' 1000'	142
8-8	7	8	7	.400 x .625	55	-	250'	250' 500' 1000' 5000'	219
6-6	7	6	7	.445 x .705	75	-	150'	150' 500' 1000' 5000'	319
6-6	7	8	7	.440 x .700	75	-	200'	200' 500' 1000' 5000'	290
4-4	7	4	7	.540 x .870	95	100	150'	150' 500' 1000' 5000'	494
4-4	7	6	7	.515 x .850	95	100	150'	150' 500' 1000'	445
3-3	7	3	12	.605 x .970	110	110	150'	150' 500' 1000'	609
3-3	7	5	12	.570 x .930	110	110	150'	150' 500' 1000'	547
2-2	7	2	12	.640 x 1.030	130	125	100'	100' 500' 1000'	745
2-2	7	4	12	.600 x 1.000	130	125	100'	100' 500' 1000'	668
1-1	19	1	12	.720 x 1.180	150	150	-	500' 1000'	941
1/0-1/0	19	1/0	18	.740 x 1.240	170	175	-	500' 1000'	1157
2/0-2/0	19	2/0	18	.810 x 1.350	195	200	-	500' 1000'	1431
3/0-3/0	19	3/0	18	.890 x 1.480	225	225	-	500' 1000'	1775

*Allowable Ampacity: 1-Based upon the National Electrical Code, 90°C Dry Rating
 2-Three-Wire, Single-Phase Dwelling Services

The above data is approximate and subject to normal manufacturing tolerances.

PRINT LEGEND: CONDUCTOR SIZES 10 AWG THROUGH 3/0 AWG STRANDED: ENCORE WIRE CORPORATION TYPE SE STYLE U THHN OR THWN CDRS, 600 VOLTS 2 CDRS (SIZE) CU 1 CDR (SIZE) CU (UL) DATE/TIME/OPER/QC