

# PE-PVC (20-10)/PVC

## CONSTRUCTION AT A GLANCE

**CONDUCTOR TYPE** ①  
16 - 10 AWG COPPER

**INSULATION TYPE** ②  
PE/PVC

**SHIELD TYPE**  
N/A

**JACKET TYPE** ③  
PVC

## APPLICATIONS

- Predominantly used in utility substations
- Can be installed indoors or outdoors, in cable trays, conduit, underground duct, or direct buried in wet or dry locations
- Conductor operating temperatures are not to exceed 75°C wet, 90°C dry
- Rated 600 Volts

## CONSTRUCTION DETAILS

- **Conductors**
  - 16 AWG thru 10 AWG Annealed Class B Copper Unilay Compressed Stranded
- **Insulation**
  - Natural Colored Polyethylene (PE)
- **Conductor Jacket**
  - Tough, Heat and Moisture Resistant Polyvinyl Chloride (PVC)
  - Color Coded per ICEA S-73-532, Method 1, Table E-2
- **Assembly**
  - Cabled with non-hygroscopic polyethylene fillers in order to give the cable a circular cross-section, when needed
  - Wrapped with a Mylar binder
- **Overall Jacket**
  - Heat, Moisture and Sunlight Resistant Black Polyvinyl Chloride (PVC)
- **Print**
  - SOUTHWIRE XXAWG XX/C PE-PVC CDRS  
PVC JKT 600V SUN. RES. DIRECT BURIAL  
YEAR SEQUENTIAL FOOTAGE MARKS

## SPECIFICATIONS

**Southwire's Substation Control Cable meets or exceeds:**

- All applicable ASTM standards
- ANSI/ICEA S-73-532
- RoHS Compliant

## OPTIONS

- Stranding Classes – C, K
- Tin-Coated Copper Conductors
- Color Coding Methods per ICEA S-73-532
- Shielded Constructions - Longitudinal Corrugated CU Tape, Helical CU or AL Tape, or Longitudinal AL Tape with Mylar Bonding
- Rip Cord
- Ground Wire
- Jacket Materials – SOLONON® (LSZH), CPE
- Other Constructions Available upon Request



Number of Conductors	Conductor Size (AWG)	Nominal Jacket Thickness (inches)	Nominal Overall Diameter		Approximate Weight	
			inches	mm	lbs/1000 ft.	kg/km
<b>Unshielded AWG 16 (26 strands)</b>						
2	16	0.045	0.336	8.5	50	74
3	16	0.045	0.355	9.0	64	95
4	16	0.045	0.386	9.8	79	117
5	16	0.045	0.421	10.7	94	140
7	16	0.045	0.457	11.6	122	181
9	16	0.060	0.561	14.2	168	250
12	16	0.060	0.627	15.9	213	316
<b>Unshielded AWG 14 (7 strands)</b>						
2	14	0.045	0.353	9.0	62	92
3	14	0.045	0.374	9.5	81	120
4	14	0.045	0.407	10.3	101	151
5	14	0.045	0.444	11.3	122	182
6	14	0.045	0.483	12.3	143	213
7	14	0.045	0.483	12.3	161	239
8	14	0.060	0.553	14.0	197	293
9	14	0.060	0.592	15.0	219	326
10	14	0.060	0.642	16.3	242	360
12	14	0.060	0.663	16.8	280	416
<b>Unshielded AWG 12 (7 strands)</b>						
2	12	0.045	0.388	9.9	81	121
3	12	0.045	0.412	10.5	110	163
4	12	0.045	0.449	11.4	139	207
5	12	0.045	0.491	12.5	168	251
6	12	0.060	0.566	14.4	214	318
7	12	0.060	0.566	14.4	240	356
8	12	0.060	0.611	15.5	271	403
9	12	0.060	0.655	16.6	302	449
10	12	0.060	0.713	18.1	334	498
12	12	0.060	0.736	18.7	389	579
<b>Unshielded AWG 10 (7 strands)</b>						
2	10	0.045	0.435	11.1	112	167
3	10	0.045	0.463	11.8	154	229
4	10	0.045	0.506	12.9	197	293
5	10	0.060	0.585	14.9	256	381
6	10	0.060	0.636	16.2	301	448
7	10	0.060	0.636	16.2	340	507
8	10	0.060	0.689	17.5	386	574
9	10	0.060	0.740	18.8	431	641
10	10	0.060	0.807	20.5	478	711
12	10	0.080	0.874	22.2	591	879

Dimensions and weights shown above are nominal and subject to industry tolerances.

