



## Portable Power

Flexible Copper conductors, TPE insulation and Jacket. Sunlight Resistant.



Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

1. **Conductor:** Bare, soft drawn, annealed, flexible, rope-lay stranded copper per ASTM B3/B172. Separator applied to facilitate stripping
2. **Insulation:** Heat and moisture resistant TPE
3. **Fillers:** Fillers applied as needed to round the cable core
4. **Binder:** Paper binder
5. **Jacket:** Black TPE (other colors available upon request)

### APPLICATIONS AND FEATURES:

Southwire Portable Power cable is for use in flexible, portable indoor and outdoor temporary power, portable industrial machinery and compressors, food processing and wash down facilities. Suitable for use in temperatures between -40°C to maximum 105°C.

### SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B172 Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Copper Conductors
- UL 1650 Standard for Portable Power Cable
- CSA C22.2 No. 96 Portable Power Cables

### SAMPLE PRINT LEGEND:

SOUTHWIRE(R) SEOPRENE(R) XX-X TYPE PPE E172226 (UL) 2000V 90C DRY 75C WET C(UL) TYPE PPC/TPE 2000V -40C TO 105C 75C WET FT1 SUNLIGHT RESISTANT





**Table 1 – Weights and Measurements**

Stock Number	Cond. Size AWG/Kcmil	Cond. Number No.	Cond. Strands No.	Diameter Over Conductor inch	Insul. Thickness mil	Jacket Thickness mil	Approx. OD inch	Approx. Weight lb/1000ft
30275	12	4	65	0.094	60	75	0.750	280
30290	10	5	104	0.125	60	75	0.950	473
30260	8	4	168	0.145	60	145	0.989	536
30261	6	4	266	0.186	60	155	1.100	729
30281	6	5	259	0.186	60	140	1.210	912
30262	4	4	420	0.235	60	175	1.270	1051
30282	4	5	420	0.235	60	155	1.419	1272
30264	2	4	665	0.290	60	145	1.480	1519
30267	2/0	4	1330	0.400	80	160	1.930	2759

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

**Table 2 – Electrical and Engineering Data**

Cond. Size AWG/ Kcmil	DC Resistance @ 25°C Ω/1000ft	AC Resistance @ 90°C Ω/1000ft	Inductive Reactance Ω/1000ft	Max Pull Tension lb	Min Bending Radius inch	Allowable Ampacity In Air 60°C Amp	Allowable Ampacity In Air 75°C Amp	Allowable Ampacity In Air 90°C Amp
12	1.774	2.137	0.054		3.0	21	25	28
10	1.081	1.302	0.050		3.8	30	34	39
8	0.679	0.818	0.052		4.0	38	46	52
6	0.435	0.524	0.051		5.5	50	62	70
6	0.435	0.524	0.051		6.1	50	62	70
4	0.274	0.330	0.048		6.4	67	81	91
4	0.274	0.330	0.048		7.1	67	81	91
2	0.172	0.207	0.045		7.4	90	106	122
2/0	0.087	0.104	0.043		9.7	139	166	190

\* Inductive impedance is based on non-ferrous conduit.

\* Ampacity based on NEC Table 400.5 (A)(2)

