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 -40ºC to maximum 105ºC.

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

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Table 1 – Weights and Measurements

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

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

Table 2 – Electrical and Engineering Data

Cond. Size	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance	Max Pull Tension	Min Bending Radius	Allowable Ampacity In Air 60°C	Allowable Ampacity In Air 75°C	Allowable Ampacity In Air 90°C
AWG/ Kcmil	Ω/1000ft	Ω/1000ft	Ω/1000ft	lb	inch	Amp	Amp	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

* Inductive impedance is based on non-ferrous conduit.
* Amapcity based on NEC Tare 400.5 (A)(2)

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