

SIMpull Barrel™ Cable Drum



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Solid soft drawn bare copper per ASTM B3 or combination-unilay stranded soft drawn bare copper per ASTM B787
2. **Insulation:** Heat and moisture resistant PVC insulation in various colors
3. **Sheath:** Nylon jacket utilizing SIMpull® Technology

APPLICATIONS AND FEATURES:

The SIMpull BARREL™ Cable Drum reduces the physical effort associated with material handling, setup, and pulling when compared to conventional wire pulling methods. Designed to simplify branch circuit installations, the SIMpull BARREL™ Cable Drum contains up to 7 paralleled conductors per BARREL (homerun), increasing productivity and reducing the potential for injury while avoiding broken spools, excess material handling and scrap.

- Easier pulling with SIMpull NoLube® wire jacket.
- Stationary package design to further reduce pulling tension.
- Designed to help lower potential for lifting/handling/pulling injuries.
- Patented parallel construction to reduce material handling and setup.
- Avoid broken spools and spool over-turn.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B787 19 Wire Combination Unilay-Stranded Copper Conductors
- UL 83 Thermoplastic Insulated Wires and Cables
- NMX-J-010-ANCE Thermoplastic insulated wires and cables
- NOM-063-SCFI Electrical Products – Conductors – Safety Requirements



Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Conductor	Insul. Thickness	Approx. OD	Approx. Weight
	AWG/Kcmil	No.	No.	inch	mil	inch	lb/1000ft
581103◇	12	2	Solid	0.080	20	0.245	47
585360◇	12	3	Solid	0.080	20	0.368	70
580312◇	12	4	Solid	0.080	20	0.491	94
581039◇	12	5	Solid	0.080	20	0.614	117
581203◇	12	6	Solid	0.080	20	0.736	141
581046◇	12	7	Solid	0.080	20	0.859	164
580297◇	10	2	Solid	0.101	25	0.307	73
580310◇	10	4	Solid	0.101	25	0.599	147
581037◇	10	5	Solid	0.101	25	0.759	181
581196◇	10	6	Solid	0.101	25	0.911	218
581044◇	10	7	Solid	0.101	25	1.063	254
587349◇	14	4	19	0.073	20	0.444	64
588835◇	14	5	19	0.073	20	0.555	80
587350◇	14	6	19	0.073	20	0.666	96
581112◇	12	2	19	0.090	20	0.260	48
585367◇	12	3	19	0.090	20	0.390	72
581034◇	12	4	19	0.090	20	0.512	96
581040◇	12	5	19	0.090	20	0.650	121
581206◇	12	6	19	0.090	20	0.780	145
581047◇	12	7	19	0.090	20	0.910	170
580304◇	10	3	19	0.117	25	0.489	115
580311◇	10	4	19	0.117	25	0.652	153
581038◇	10	5	19	0.117	25	0.815	192
581200◇	10	6	19	0.117	25	0.978	230
581045◇	10	7	19	0.117	25	1.141	269
585260◇	8	2	19	0.143	35	0.430	126
585248◇	8	3	19	0.143	35	0.645	189
583848◇	8	4	19	0.143	35	0.852	250

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	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance	Max Pull Tension	Min Bending Radius	Allowable Ampacity At 60°C	Allowable Ampacity At 75°C	Allowable Ampacity At 90°C
AWG/Kcmil	Ω/1000ft	Ω/1000ft	Ω/1000ft	lb	inch	Amp	Amp	Amp
12	1.662	2.002	0.054		0.9	20	25	30
12	1.662	2.002	0.054		1.4	20	25	30
12	1.662	2.002	0.054		1.9	16	20	24
12	1.662	2.002	0.054		2.4	16	20	24
12	1.662	2.002	0.054		2.9	16	20	24
12	1.662	2.002	0.054		3.4	14	17	21
10	1.040	1.253	0.050		1.2	30	35	40
10	1.040	1.253	0.050		2.3	24	28	32
10	1.040	1.253	0.050		3.0	24	28	32
10	1.040	1.253	0.050		3.6	24	28	32
10	1.040	1.253	0.050		5.3	21	24	28
14	2.631	3.170	0.058		1.7	12	16	20
14	2.631	3.170	0.058		2.2	12	16	20
14	2.631	3.170	0.058		2.6	12	16	20
12	1.662	2.002	0.054		1.0	20	25	30
12	1.662	2.002	0.054		1.5	20	25	30
12	1.662	2.002	0.054		2.0	16	20	24
12	1.662	2.002	0.054		2.6	16	20	24
12	1.662	2.002	0.054		3.1	16	20	24
12	1.662	2.002	0.054		3.6	14	17	21
10	1.040	1.253	0.050		1.9	30	35	40
10	1.040	1.253	0.050		2.6	24	28	32
10	1.040	1.253	0.050		3.2	24	28	32
10	1.040	1.253	0.050		3.9	24	28	32
10	1.040	1.253	0.050		5.7	21	24	28
8	0.653	0.786	0.052		1.7	40	50	55
8	0.653	0.786	0.052		2.5	40	50	55
8	0.653	0.786	0.052		3.4	32	40	44

* Inductive impedance is based on non-ferrous conduit with one diameter spacing.

