

SIMPull Barrel[™] Cable Drum

The SIMpull Barrel[™] Cable Drum is ideal for job sites with longer runs and home-run pulls. Designed to simplify branch circuit installations, the SIMpull BARREL[™] Cable Drum contains up to 7 paralleled conductors per BARREL, increasing productivity and reducing the potential for injury while avoiding broken spools, excess material handling, and scrap. Easy payoff directly out of the package, requiring less setup and effort to pull vs conventional wire-pulling methods.



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- Conductor:** Solid soft drawn bare copper per ASTM B3 or combination-unilay stranded soft drawn bare copper per ASTM B787
- Insulation:** Heat and moisture resistant PVC insulation in various colors
- Sheath:** Nylon jacket utilizing SIMpull[®] Technology
- For information about our SIMpull Barrel[™] Cable Drum please visit us at:** [SIMpull Barrel[™]](#)

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

Cond. Size AWG/Kcmil	Cond. Number	Strand Count No. of Strands	Diameter Over Conductor inch	Insul. Thickness mil	Jacket Thickness mil	Approx. OD inch	Copper Weight lb/1000ft	Approx. Weight lb/1000ft
12	4	19	0.090	20	5	0.512	80	96





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	Cond. Number	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity At 75°C	Allowable Ampacity At 90°C
AWG/Kcmil		inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp
12	4	2.0	167	1.662	2.002	0.054	20	24

* Ampacities based upon 2023 NEC Table 310.16 and do not take into account the overcurrent protection limitations in NEC 240.4(D) of 15 Amps for 14 AWG CU, 20 Amps for 12 AWG CU, and 30 Amps for 10 AWG CU (independent of the conductor temperature rating and stranding if size is present in table). Also, see NEC sections 310.15 and 110.14(C) for additional requirements.

* Inductive Reactance is based on non-ferrous conduit with one diameter spacing center-to-center.

Table 3 - One Conductor Stock Code Colors (/ means stripe. Blue/White: Blue with White Stripe)

Size (Strand)	Cond. Number	Blue	Blue/Brown	Black	Brown	Green	Green/Yellow	Gray	Gray/Brown	Gray/Orange	Gray/Purple	Gray/Yellow
14 (Solid)	1	58028701		58028501	58028801	58029101		58028901				
14 (19)	1	58017101		58017001	58017201	58017601		58017301				
12 (Solid)	1	58026701		58026501	58026801	58027101	58456659	58026901	58027758	58027858		58027958
12 (19)	1	58018401		58018201	58018501	58019501	58386359	58018601	58018701	58018901		58019001
10 (Solid)	1	58020401		58020301	58020501	58021101	58021259	58020601	58022601	58020801	58020101	58021001
10 (19)	1	58022201	65312201	58022101	58022301	58546401		58025001	58020701	58025701	58022701	58025901

Table 3 Cont. - One Conductor Stock Code Colors (/ means stripe. Blue/White: Blue with White Stripe)

Size (Strand)	Cond. Number	Orange	Purple	Pink	Red	Red/Yellow	Tan	White	White/Blue	White/Black	White/Red	Yellow
14 (Solid)	1	58029201	58028601		58029301			58029405				58029501
14 (19)	1	58017701	58017801	58193301	58017901			58018001	58189902			58018101
12 (Solid)	1	58027201	58026401	58193101	58027301			58027501	58028158	58028058	58028358	58027601
12 (19)	1	58019601	58019701	58193201	58019801			58019901	58019301	58019201	58019401	58020001
10 (Solid)	1	58021301	58020259		58021401			58021501	58021801	58021601	58021901	58022001
10 (19)	1	58025201	58025301	58193001	58025401	59917901	59805001	58025501	58026107	58026007	58026207	58547001

Table 4 - Two Conductor Stock Code Colors (/ means stripe. Blue/White: Blue with White Stripe)

Size (Strand)	Cond. Number	Black, White	Blue, White/Blue	Black, Red	Black, White/Black	Brown, Gray/Brown	Orange, Gray/Orange	Red, White/Red	Yellow, Gray/Yellow
12 (Solid)	2		58614502		58619402	58110302	58110502	58614402	58111002
12 (19)	2		58111202		58260302	58612002	58610002	58111802	58610102
10 (Solid)	2		58105002		58029702	58920501	58920701	58105502	58920601
10 (19)	2		58725403	59306202	58725102	58725702	58725502	58109903	58725602
8 (19)	2	58526001							





Table 5 - Three Conductor Stock Code Colors (/ means stripe. Blue/White: Blue with White Stripe)

Size (Strand)	Cond. Number	Blue, White/Blue, Green	Black, White/Black, Green	Brown, Gray/Brown, Green	Brown, Orange, Yellow	Orange, Gray/Orange, Green	Purple, Gray/Purple, Green	Red, White/Red, Green
12 (Solid)	3	58536102	58536002	58536202		58536302		58536502
12 (19)	3		58536702		58724302			
10 (Solid)	3	58449901	58317001	58379601		58379701		58449801
10 (19)	3	58620501	58318301	58710901	58114301	58711001	67188501	58620401
8 (19)	3				58524803			

Table 6 - Four and Five Conductor Stock Code Colors (/ means stripe. Blue/White: Blue with White Stripe)

Size (Strand)	Cond. Number	Black, Red, Blue, White	Black, White, Red, Blue	Brown, Orange, Yellow, GN	Brown, Orange, Yellow, Gray	Red, Red, Red, Red	Black, Red, Blue, White, Green	Brown, Orange, Yellow, Gray, Green	Red, Red, Red, Red, Red
14 (19)	4					58734901			
12 (Solid)	4	58031201		58150601					
12 (19)	4	58103401		58139401					
10 (Solid)	4	58031001		58150701					
10 (19)	4	58031101		58138501	58115501				
8 (19)	4		58384801						
14 (19)	5								58883501
12 (Solid)	5						58103901		
12 (19)	5						58104001	58117401	
10 (Solid)	5						58103701	58116701	
10 (19)	5						58103801		

Table 7 - Six and Seven Conductor Stock Code Colors (/ means stripe. Blue/White: Blue with White Stripe)

Size (Strand)	Cond. Number	Black, Red, Blue, White/Black, White/Red, White/Blue	Black, Red, Blue, White/Black, White/Red, White/Blue, Green	Brown, Orange, Yellow, Gray/Brown, Gray/OE, Gray/Yellow	Brown, Orange, Yellow, Gray/Brown, Gray/OE, Gray/Yellow, Green	Red, Red, Red, Red, Red, Red
14 (19)	6					58735001
12 (Solid)	6	58120301		58120401		
12 (19)	6	58120801		58120601		
10 (Solid)	6	58119601		58119701		
10 (19)	6	58120101		58120001		
12 (Solid)	7		58104601		58118501	
12 (19)	7		58118701		58104701	
10 (Solid)	7		58104401		58118001	
10 (19)	7		58118301		58104501	

