SIMpull CoilPAK™ Wire Payoff THHN/THWN-2 Copper

Work smarter with the SIMpull CoilPAK™ Wire Payoff by reducing the physical effort associated with material handling, setup, and pulling compared to traditional spools, increasing both safety and productivity on the job. Copper, 600 Volt, Type THHN/THWN-2



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

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

- **For information about our SIMpull CoilPAK™ Wire Payoff please visit us at:** SIMpull CoilPAK™ Wire Payoff

APPLICATIONS AND FEATURES:

The SIMpull CoilPAK™ Wire Payoff provides greater versatility and efficiency to branch circuit installations, eliminating the need for handling bulky spools and all the setup and energy that go along with them. SIMpull CoilPAK™ Wire Payoffs increase both safety and productivity by reducing the physical effort associated with material handling, pulling wire out of the package, and pulling wire through conduit. SIMpull CoilPAK™ THHN/THWN-2 copper conductors are primarily used in conduit for branch circuits in commercial or industrial applications as specified in the National Electrical Code® and other applicable codes and standards. Voltage for all applications is 600 volts. SIMpull CoilPAK™ THHN/THWN-2 copper conductors are designed to be installed without the application of a pulling lubricant. These conductors have multiple ratings depending upon the product application.

Allowable temperatures are as follows:

- THHN or T90 Nylon - Dry locations not to exceed 90°C
- THWN-2 - Wet or dry locations not to exceed 90°C or locations not to exceed 75°C when exposed to oil
- TWN75 - Wet locations not to exceed 75°C
- MTW - Wet locations or when exposed to oil at temperatures not to exceed 60°C or dry locations not to exceed 90°C (with ampacity limited to that for 75°C conductor temperature per NFPA 79)
- AWM - Dry locations not to exceed 105°C only when rated and used as appliance wiring material

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

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- NOM-063-SCFI Electrical Products – Conductors – Safety Requirements
- NEMA 70901-2-2024 Make It American Compliance with Domestic Preference Requirements Pt. 2 Wire & Cable

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Strand Count	Diameter Over Conductor	Insul. Thickness	Insulation Color	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight
	AWG/ Kcmil		No. of Strands	inch	mil		mil	inch	lb/1000ft	lb/1000ft
58062205◊	14	1	SOLID	0.064	16	WE/RD	5	0.106	12	15
59318101◊	14	3	SOLID	0.064	16	BK,WE,GN	5	0.244	36	48
58189905◊	14	1	19	0.073	16	WE/BE	5	0.113	12	16
58027905◊	12	1	SOLID	0.081	16	GY/YW	5	0.123	19	23
13937005◊	12	2	SOLID	0.081	16	PE, GY/PE	5	0.246	38	46
59318203◊	12	3	SOLID	0.081	16	BK,WE,GN	5	0.266	57	69
58386304◊	12	1	19	0.09	16	GN/YW	5	0.132	20	24
58609604◊	12	2	19	0.09	16	RD, WE/RD	5	0.264	40	48
58453301◊	12	3	19	0.09	16	BK,WE,GN	5	0.285	60	72
58139402◊	12	4	19	0.09	16	BN,OE,YW,GN	5	0.319	80	96
58020105◊	10	1	SOLID	0.101	21	GY/PE	5	0.154	30	36
58105505◊	10	2	SOLID	0.101	21	RD, WE/RD	5	0.308	60	72
58022105◊	10	1	19	0.117	21	BK	5	0.165	32	38
58725501◊	10	2	19	0.117	21	OE, GY/OE	5	0.33	64	76
59799501◊	10	3	19	0.117	21	BK, RD, GN	5	0.356	96	114
58138504◊	10	4	19	0.117	21	BN, OE, YW, GN	5	0.37	128	152

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.

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Table 2 – Electrical and Engineering Data

Stock Number	Cond. Size	Cond. Number	Min Bending Radius	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity At 75°C	Allowable Ampacity At 90°C
	AWG/ Kcmil		inch	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp
58062205◊	14	1	0.4	2.631	3.265	0.058	20	25
59318101◊	14	3	1	2.631	3.265	0.058	20	25
58189905◊	14	1	0.5	2.631	3.265	0.058	20	25
58027905◊	12	1	0.5	1.662	2.063	0.054	25	30
13937005◊	12	2	1	1.662	2.063	0.054	25	30
59318203◊	12	3	1.1	1.662	2.063	0.054	25	30
58386304◊	12	1	0.5	1.662	2.063	0.054	25	30
58609604◊	12	2	1.1	1.662	2.063	0.054	25	30
58453301◊	12	3	1.1	1.662	2.063	0.054	25	30
58139402◊	12	4	1.3	1.662	2.063	0.054	20	24
58020105◊	10	1	0.6	1.04	1.291	0.05	35	40
58105505◊	10	2	1.2	1.04	1.291	0.05	35	40
58022105◊	10	1	0.7	1.04	1.291	0.05	35	40
58725501◊	10	2	1.3	1.04	1.291	0.05	35	40
59799501◊	10	3	1.4	1.04	1.291	0.05	35	40
58138504◊	10	4	1.5	1.04	1.291	0.05	28	32

- 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	Black	Brown	Green	Green/Yellow	Gray	Gray/Brown	Gray/Orange	Gray/Purple	Gray/Yellow
14 (Solid)	1	58028705	58028505	58028805	58029105		58028905				
14 (19)	1	58017105	58017005	58017205	58017605		58017305				
12 (Solid)	1	58026705	58026505	58026805	58027105	58456605	58026905	58027705	58027805	58026305	58027905
12 (19)	1	58018405	58018205	58018505	58019505	58386305	58018605	58018705	58018905	58018805	58019005
10 (Solid)	1	58020405	58020305	58020505	58021105	58021205	58020605	58022605	58020805		58021005
10 (19)	1	58022205	58022105	58022305	58025105	58456705	58025005	58020705	58025705	58022705	58025905

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

Size (Strand)	Cond. Number	Orange	Purple	Pink	Red	Tan	White	White/Blue	White/Black	White/Red	Yellow
14 (Solid)	1	58029205	58028605		58029305		58029405				58029505
14 (19)	1	58017705	58017805	58193305	58017905		58018005				58018105
12 (Solid)	1	58027205	58026405	58193105	58027305		58027505	58028105	58028005	58028305	58027605
12 (19)	1	58019605	58019705	58193205	58019805		58019905	58019305	58019205	58019405	58020005
10 (Solid)	1	58021305	58020205		58021405		58021505	58021805	58021605	58021905	58022005
10 (19)	1	58025205	58025305	58193005	58025405	59805002	58025505	58026105	58026005	58026205	58025605

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

Size (Strand)	Cond. Number	Blue, White/ Blue	Black, Red	Black, White/ Black	Brown, Gray/ Brown	Orange, Gray/ Orange	Red, White/ Red	Yellow, Gray/ Yellow	Brown, Orange, Yellow	Black, Red, Green	Black, White, Green	Brown, Orange, Yellow, Green	Purple, Gray/ Purple
12 (Solid)	2	58614501		58619401	58619501	58614701	58614401	58614801					139369
12 (19)	2	58609701		58609501	58612001	58610001	58609601	58610101					
10 (Solid)	2	58105005		58029705	58920505	58920705	58105505	58920605					
10 (19)	2	58725401	59306201	58725101	58725701	58725501	58725201	58725601					
14 (Solid)	3										59318001		
14 (19)	3										59318101		
12 (Solid)	3										58389701		
12 (19)	3										58453301		
10 (19)	3								58114302	59799501			
12 (19)	4											58139402	
10 (19)	4											58138504	

Table 4 Cont. - Multi Conductor Stock Code Colors with Phase ID printed on each conductor (/ means stripe. Blue/White: Blue with White Stripe)

Size (Strand)	Cond. Number	Phase ID	Black, White/ Black	Red, White/ Red	Blue, White/ Blue	Brown, Gray/ Brown	Orange, Gray/ Orange	Yellow, Gray/ Yellow
10 (19)	2	1-ONE	66551601	66551701	66551801	66551901	66552101	66552201
10 (19)	2	2-TWO	51652301	51652401	51652501			
10 (19)	2	3-THREE	51652601	51652701	51652801			

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

Size (Strand)	Cond. Number	Blue	Black	Brown	Green	Green/Yellow	Gray
12 (Solid)	1	58026704	58026504	58026804	58027104	58456604	58026904
12 (19)	1	58018404	58018204	58018504	58019504	58386304	58018604

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

Size (Strand)	Cond. Number	Orange	Purple	Pink	Red	White	White/Blue	White/Black	White/Red	Yellow
12 (Solid)	1	58027204			58027304	58027504	58028104	58028004	58028304	58027604
12 (19)	1	58019604	58019704	58193204	58019804	58019904	58019304	58019204	58019404	58020004

Table 6 - MINI Multi Conductor Stock Code Colors (/ means stripe. Blue/White: Blue with White Stripe)

Size (Strand)	Cond. Number	Blue, White/ Blue	Black, White/ Black	Brown, Gray/ Brown	Orange, Gray/ Orange	Red, White/ Red	Yellow, Gray/ Yellow	Black, White, Green
12 (Solid)	2	58614504	58619404			58614404		
12 (19)	2	58609704	58609504	58612004	58610004	58609604	58610104	
12 (Solid)	3							58389703
12 (19)	3							58453303

Award Winning Patent Pending Building Wire Selector

Wire Strippers and Cutters

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