

# 05

## WIRE & CABLE

FILS ET CÂBLES

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### DETERMINING WIRE AND CABLE GAUGE SIZE BY CIRCUIT AMPS AND LENGTH

TOTAL CIRCUIT AMPS	WIRE GAUGE FOR LENGTH IN FEET (TOTAL CIRCUIT LENGTH)												
	12V	3'	5'	7'	10'	15'	20'	25'	30'	40'	50'	75'	100'
1	18	18	18	18	18	18	18	18	18	18	18	18	18
3	18	18	18	18	18	18	18	18	18	18	18	14	14
5	18	18	18	18	18	18	18	18	18	16	14	12	12
7	18	18	18	18	18	18	18	16	16	14	14	10	10
10	18	18	18	18	18	16	16	16	14	12	12	10	10
15	18	18	18	18	18	14	14	12	12	12	10	8	8
20	16	16	16	16	16	14	12	10	10	10	10	8	6
24	14	14	14	14	14	12	12	10	10	10	8	6	6
30	12	12	12	12	12	10	10	10	10	10	6	4	4
40	10	10	10	10	10	10	10	8	8	6	6	4	2
50	8	8	8	8	8	8	8	8	8	6	6	2	2
100	4	4	4	4	4	4	4	4	4	4	2	1	1/0
150	2	2	2	2	2	2	2	2	2	2	1	2/0	2/0
200	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	4/0	4/0

### HOW TO MATCH CABLE & EQUIPMENT

TYPE OF EQUIPMENT	TYPICAL WIRE GAUGE
Garden Tractor	8, 6, 4
Compact Car, RV	6, 4
Standard Car	4, 2
Full-size Car, Van	2, 1
Tractor, Light Truck, Construction	1/0
HD Tractor, Truck, Bus, Construction	2/0, 3/0
Extra Heavy Duty	4/0, 250 MCM

### METRIC AND AWG WIRE SIZE

METRIC VALUES ARE EXPRESSED AS A RANGE AND VARY BY COUNTRY																
mm <sup>2</sup>	0.35	0.50	0.75	1	2	3	4-5	6-8	9-13	14-21	22-35	36-42	43-53	54-68	69-86	87-107
AWG	22	20	18	16	14	12	10	8	6	4	2	1	1/0	2/0	3/0	4/0

AWG: American Wire Gauge



**ROHS COMPLIANCE** The RoHS Directive stands for “the restriction of the use of certain hazardous substances in electrical and electronic equipment”. This Directive bans the placing on the EU market of new electrical and electronic equipment containing more than agreed levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants.

GPT – GENERAL PURPOSE THERMOPLASTIC WIRE



- Primary wire is single conductor based PVC jacketed wire
- PVC insulation resists heat up to 80°C (176°F) and provides protection from weather conditions and abrasives
- Maximum temperature rating -40°C (-40°F) to 80°C (176°F)
- Used for automotive, truck and marine applications
- Meets SAE J1128 specifications; rated to 60V
- Available in 25', 100' and 1000' spools
- Bulk sizes available
- Custom length wires available by special order only
- Made in North America

6 GAUGE (AUTOMOTIVE)

COLOR	25'	100'	1000'
Red	89-3000	87-3000	—
Black	89-3002	87-3002	—

8 GAUGE

COLOR	25'	100'	1000'
Red	89-4000	87-4000	—
Black	89-4002	87-4002	—
White	89-4007	87-4007	—

10 GAUGE

COLOR	25'	100'	1000'
Red	89-5000	87-5000	88-5000
Brown	89-5001	87-5001	—
Black	89-5002	87-5002	88-5002
Green	89-5006	87-5006	—
White	89-5007	87-5007	88-5007
Blue	89-5010	87-5010	—
Yellow	89-5011	87-5011	—

12 GAUGE

COLOR	25'	100'	1000'
Red	89-6000	87-6000	88-6000
Brown	89-6001	87-6001	88-6001
Black	89-6002	87-6002	88-6002
Green	89-6006	87-6006	88-6006
White	89-6007	87-6007	88-6007
Blue	89-6010	87-6010	88-6010
Yellow	89-6011	87-6011	88-6011



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14 GAUGE

COLOR	25'	100'	1000'
Red	89-7000	87-7000	88-7000
Brown	89-7001	87-7001	88-7001
Black	89-7002	87-7002	88-7002
Green	89-7006	87-7006	88-7006
White	89-7007	87-7007	88-7007
Blue	89-7010	87-7010	88-7010
Yellow	89-7011	87-7011	88-7011
Orange	89-7012	87-7012	88-7012
Purple	—	87-7013	88-7013
Pink	—	87-7014	—
Gray	—	87-7003	—

16 GAUGE

COLOR	25'	100'	1000'
Red	89-8000	87-8000	88-8000
Brown	89-8001	87-8001	88-8001
Black	89-8002	87-8002	88-8002
Green	89-8006	87-8006	88-8006
White	89-8007	87-8007	88-8007
Blue	89-8010	87-8010	88-8010
Yellow	89-8011	87-8011	88-8011
Orange	89-8012	87-8012	88-8012
Purple	—	87-8013	88-8013
Pink	—	87-8014	—
Gray	—	87-8003	88-8003

18 GAUGE

COLOR	25'	100'	1000'
Red	89-9000	87-9000	88-9000
Brown	89-9001	87-9001	88-9001
Black	89-9002	87-9002	88-9002
Green	89-9006	87-9006	88-9006
White	89-9007	87-9007	88-9007
Blue	89-9010	87-9010	88-9010
Yellow	89-9011	87-9011	88-9011
Orange	—	87-9012	88-9012
Purple	—	—	88-9013
Pink	—	—	88-9014
Gray	—	87-9003	—

20 GAUGE

COLOR	25'	100'	1000'
Red	—	87-2010	—
Black	—	87-2012	—
White	—	87-2015	—
Blue	—	87-2017	—

GPT – GENERAL PURPOSE THERMOPLASTIC WIRE



83-6512  
Wire Stripper  
See page 172



PVC JACKETED BRAKE CABLE



82-5502



Split Flex Tubing: See page 94

- PVC jacketed wire resists grease, oil, gasoline and acids
- Used for automotive, truck and marine applications
- Maximum temperature rating -40°C (-40°F) to 80°C (176°F)
- Meets SAE J1128 specifications; rated to 60V
- Custom lengths also available

2 CONDUCTOR

GAUGE	COLOR	LENGTH	PART #
10	Yellow, Green	50'	82-5509
10	Yellow, Green	100'	82-5508
10	Yellow, Green	1000'	82-5507
10	Blue, White	1000'	82-5590
12	Black, White	50'	82-5512
12	Black, White	100'	82-5511
12	Black, White	500'	82-5550
12	Black, White	1000'	82-5510
14	Black, White	20'	82-5504
14	Black, White	100'	82-5502
14	Black, White	1000'	82-5503
16	Black, White	100'	82-5500
16	Black, White	1000'	82-5501



3 CONDUCTOR

GAUGE	COLOR	LENGTH	PART #
12	White, Green, Black	1000'	82-5591
14	Red, Green, Black	100'	82-5520
16	Red, Green, Black	100'	82-5522

4 CONDUCTOR

GAUGE	COLOR	LENGTH	PART #
14	Red, Green, Black, White	100'	82-5521
16	Red, Green, Black, White	100'	82-5519

PARALLEL BONDED WIRE



82-5514

- Ideal for RV, boat and utility trailers
- PVC insulation resists heat up to 80°C (176°F); provides protection from weather conditions and abrasives
- Maximum temp. rating -40°C (-40°F) to 80°C (176°F)
- Meets SAE J1128 specifications; rated to 60V

4 CONDUCTOR

GAUGE	COLOR	LENGTH	PART #
14	White, Brown, Yellow, Green	25'	82-5515
14	White, Brown, Yellow, Green	100'	82-5514
16	White, Brown, Yellow, Green	25'	82-5524
16	White, Brown, Yellow, Green	100'	82-5525
18	White, Brown, Yellow, Green	25'	82-5527
18	White, Brown, Yellow, Green	100'	82-5526



TYPE SJE00W

PORTABLE EXTENSION CABLE

- Black TPE jacketing provides premium oil resistance, sunlight, chemical and water resistance
- Rated at 300 Volt; Meets UL and CSA specifications
- Cable is suitable for use in temperatures between -40°C (-40°F) to maximum 105°C (221°F)
- Ideal for indoor and outdoor temporary power uses, portable industrial machinery, compressors, conveyor and automated production equipment
- All extension cord cable is spooled



2 CONDUCTOR

GAUGE	COLOR	LENGTH	PART #
14	Black, White	50'	82-5902
14	Black, White	100'	82-5901
14	Black, White	500'	82-5901-500

3 CONDUCTOR

GAUGE	COLOR	LENGTH	PART #
14	Black, White, Green	50'	82-5905
14	Black, White, Green	100'	82-5904
16	Black, White, Green	50'	82-5908
16	Black, White, Green	100'	82-5907

Molded Connectors  
# 82-1025



See page 13



82-5902



82-5907

TYPE SXL

HEAVY DUTY PRIMARY WIRE

- SXL wire is designed to withstand harsher environments than general purpose primary wire
- SXL has an annealed copper conductor that is insulated with cross linked polyethylene base
- XLPE insulation provides a thicker jacket that resists heat up to 125°C (257°F) and provides protection from weather conditions and abrasives
- Maximum temp. rating: -40°C (-40°F) to 125°C (257°F)
- Resistant to grease, oil, gasoline and acids
- Meets SAE J1128 specifications; rated to 60V
- Additional sizes and gauges available upon request



GAUGE	COLOR	LENGTH	PART #
14	Red	100'	87-0000
14	Black	100'	87-0002
16	Red	100'	87-2000
16	Brown	100'	87-2001
16	Black	100'	87-2002
16	White	100'	87-2007



87-2002



87-2001



87-2000



TRAILER CABLE

LOW TEMPERATURE



DURABLE  
CONSTRUCTION



MADE IN  
NORTH AMERICA



SAE J1128™  
STANDARD

- Used for wiring trucks and trailers where cable flexibility in extreme temperatures is a must
- Blue vinyl outer jacket provides protection from weather conditions and abrasive materials
- PVC insulation resists temperature ratings of -65°C (-85°F) to 105°C (221°F)
- Meets SAE J1128 specifications; rated to 60V
- Resistant to gasoline and oil; U.V. resistant
- Designed for 12V and 24V systems; made in North America



2 CONDUCTOR

GAUGE	COLOR	LENGTH	PART #
14	Black, White	100'	82-5822
14	Black, White	250'	82-5822-250
14	Black, White	500'	82-5822-500

3 CONDUCTOR

GAUGE	COLOR	LENGTH	PART #
14	Black, White, Red	100'	82-5823
14	Black, White, Red	250'	82-5823-250
14	Black, White, Red	500'	82-5823-500

4 CONDUCTOR

GAUGE	COLOR	LENGTH	PART #
14	Yellow, Green, Brown, Red	100'	82-5824
14	Yellow, Green, Brown, Red	250'	82-5824-250
14	Yellow, Green, Brown, Red	500'	82-5824-500

6 CONDUCTOR

GAUGE	COLOR	LENGTH	PART #
14	Yellow, Green, Brown, White, Red, Black	100'	82-5825
14	Yellow, Green, Brown, White, Red, Black	250'	82-5825-250
14	Yellow, Green, Brown, White, Red, Black	500'	82-5825-500

7 CONDUCTOR

GAUGE	COLOR	LENGTH	PART #
6/14, 1/12	Yellow, Green, Brown, White, Red, Black, Blue	100'	82-5827
6/14, 1/12	Yellow, Green, Brown, White, Red, Black, Blue	250'	82-5827-250
6/14, 1/12	Yellow, Green, Brown, White, Red, Black, Blue	500'	82-5827-500
6/12, 1/10	Yellow, Green, Brown, White, Red, Black, Blue	100'	82-5826
6/12, 1/10	Yellow, Green, Brown, White, Red, Black, Blue	250'	82-5826-250
6/12, 1/10	Yellow, Green, Brown, White, Red, Black, Blue	500'	82-5826-500
4/12, 2/10, 1/8	Yellow, Green, Brown, White, Red, Black, Blue	100'	82-5828
4/12, 2/10, 1/8	Yellow, Green, Brown, White, Red, Black, Blue	250'	82-5828-250



82-5822



82-5824



82-5827

- Used for wiring trucks and trailers
- Black vinyl outer jacket provides protection from weather conditions and abrasive materials
- PVC insulation resists temperature ratings of -40°C (-40°F) to 80°C (176°F)
- Meets SAE J1128 specifications; rated to 60V
- ABS cable meets SAE J2394 specifications
- Designed for 12V and 24V systems; made in North America



4 CONDUCTOR

GAUGE	COLOR	LENGTH	PART #
14	Yellow, Green, Brown, White	100'	82-5602
14	Yellow, Green, Brown, White	500'	82-5603
14	Yellow, Green, Brown, Red	100'	82-5600
14	Yellow, Green, Brown, Red	500'	82-5601

6 CONDUCTOR

GAUGE	COLOR	LENGTH	PART #
14	Yellow, Green, Brown, White, Red, Black	100'	82-5604
14	Yellow, Green, Brown, White, Red, Black	500'	82-5605
16	Yellow, Green, Brown, White, Red, Black	100'	82-5623
16	Yellow, Green, Brown, White, Red, Black	500'	82-5620

7 CONDUCTOR

GAUGE	COLOR	LENGTH	PART #
14	Yellow, Green, Brown, White, Red, Black, Blue	50'	82-5610
14	Yellow, Green, Brown, White, Red, Black, Blue	100'	82-5609
14	Yellow, Green, Brown, White, Red, Black, Blue	250'	82-5619
14	Yellow, Green, Brown, White, Red, Black, Blue	500'	82-5614
6/14, 1/12	Yellow, Green, Brown, White, Red, Black, Blue	50'	82-5612
6/14, 1/12	Yellow, Green, Brown, White, Red, Black, Blue	100'	82-5611
6/14, 1/12	Yellow, Green, Brown, White, Red, Black, Blue	500'	82-5615
6/12, 1/10	Yellow, Green, Brown, White, Red, Black, Blue	100'	82-5606
6/12, 1/10	Yellow, Green, Brown, White, Red, Black, Blue	500'	82-5607

ABS

GAUGE	COLOR	LENGTH	PART #
4/12, 2/10, 1/8	Yellow, Green, Brown, White, Red, Black, Blue	50'	82-5622
4/12, 2/10, 1/8	Yellow, Green, Brown, White, Red, Black, Blue	100'	82-5621
4/12, 2/10, 1/8	Yellow, Green, Brown, White, Red, Black, Blue	250'	82-5624

PLUG & SOCKET



82-1019



82-1002

JUNCTION BOX



82-1000

See pages 10-16



DURABLE  
CONSTRUCTION



MADE IN  
NORTH AMERICA



SAE J1128™  
STANDARD



82-5600



82-5606



82-5622



BATTERY CABLE – TYPE SGR



- Ideal for use as an interconnection between batteries and a starter or as a ground in a vehicle
- 100% Copper Cable; made in North America
- Ethylene Propylene Diene Monomer Rubber (EPDM) Insulation
- Provides better flexibility than standard PVC starter cable
- Jacket rated at -40°C (-40°F) to 105°C (221°F)
- Meets all SAE code J1127 specifications; rated @ 60V
- All battery cable is spooled



6 GAUGE

COLOR	25'	50'	100'
Black	82-5722	82-5725	82-5726
Red	82-6722	82-6725	82-6726

4 GAUGE

COLOR	25'	50'	100'
Black	82-5714	82-5713	82-5712
Red	82-6717	82-6713	82-6712

2 GAUGE

COLOR	25'	50'	100'
Black	82-5711	82-5710	82-5709
Red	82-6718	82-6710	82-6709

1 GAUGE

COLOR	25'	50'	100'
Black	82-5708	82-5707	82-5706
Red	82-6719	82-6707	82-6706

1/0 GAUGE

COLOR	25'	50'	100'
Black	82-5705	82-5704	82-5703
Red	82-6720	82-6704	82-6703

2/0 GAUGE

COLOR	25'	50'	100'
Black	82-5702	82-5701	82-5700
Red	82-6721	82-6701	82-6700

3/0 GAUGE

COLOR	25'	50'	100'
Black	82-5723	82-5715	82-5733
Red	82-6723	82-6715	82-6733

4/0 GAUGE

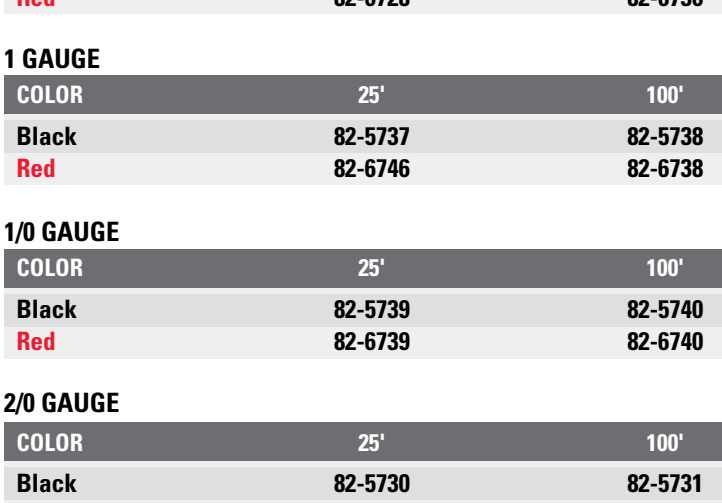
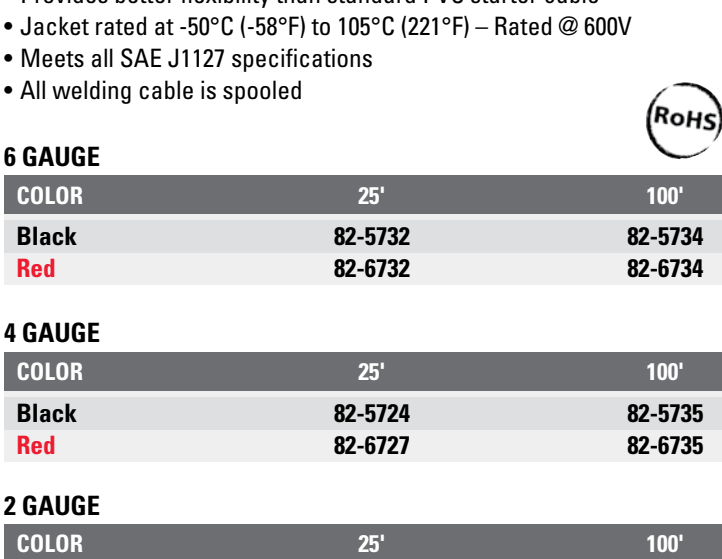
COLOR	25'	50'	100'
Black	82-5743	82-5716	82-5753
Red	82-6743	82-6716	82-6753



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WELDING CABLE



- Ideal for use as an interconnection between batteries and a starter or as a ground in a vehicle
- Abrasion, salt and chemical resistant; good flame resistance
- Fine stranded copper conductor; made in North America
- Provides better flexibility than standard PVC starter cable
- Jacket rated at -50°C (-58°F) to 105°C (221°F) – Rated @ 600V
- Meets all SAE J1127 specifications
- All welding cable is spooled



6 GAUGE

COLOR	25'	100'
Black	82-5732	82-5734
Red	82-6732	82-6734

4 GAUGE

COLOR	25'	100'
Black	82-5724	82-5735
Red	82-6727	82-6735

2 GAUGE

COLOR	25'	100'
Black	82-5721	82-5736
Red	82-6728	82-6736

1 GAUGE

COLOR	25'	100'
Black	82-5737	82-5738
Red	82-6746	82-6738

1/0 GAUGE

COLOR	25'	100'
Black	82-5739	82-5740
Red	82-6739	82-6740

2/0 GAUGE

COLOR	25'	100'
Black	82-5730	82-5731
Red	82-6730	82-6731

3/0 GAUGE

COLOR	25'	100'
Black	82-5741	82-5742
Red	82-6741	82-6742

4/0 GAUGE

COLOR	25'	100'
Black	82-5744	82-5745
Red	82-6744	82-6745



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BOOSTER CABLE

TWIN CONDUCTOR



- Make up your own booster cables
- Combine with heavy duty clamps for superior charging power
- Can be used with SB type connectors for plug in convenience
- Ideal for tarps system (dump truck / dump trailer)
- Insulation stays flexible in cold weather; bonded cable resists tangling
- 100% fine-stranded copper meets SAE J1127 specifications
- Temperature rated to -40°F (-40°C); rated @ 60V or less

GAUGE	OUTSIDE DIAMETER	COLOR	LENGTH	PART #
8 GA	.320" x .700"	Black & Yellow	1,500'	82-5759-1500
6 GA	.360" x .780"	Black & Orange	100'	82-5760
6 GA	.360" x .780"	Black & Orange	1,200'	82-5760-1200
4 GA	.410" x .880"	Black & White	100'	82-5761
4 GA	.410" x .880"	Black & White	500'	82-5761-500
2 GA	.450" x .960"	Black & Red	100'	82-5762

CABLE SLITTER/STRIPPER TOOL

HEAVY DUTY: 8 - 4/0 GAUGE



- Slits & strips round battery & trailer cables
- Can strip 8 GA to 4/0 GA wire, battery and trailer cables
- Self-adjusting cutting depth
- Makes a clean strip without damaging wire strands
- Blade swivels for longitudinal/spiral cuts
- Ergonomic design

83-6515

9" HAND HELD CABLE CUTTER



- Cuts cables up to 2/0 Gauge
- Ergonomic design with insulated grips

84-9088

PRIMARY WIRE DISPENSER

The Grote Wire Dispenser provides a unique, compact and effective inventory management solution for spooled wire.

- Unit holds up to 123 spools of wire – 63 x 100' spools of wire and 60 x 25' spools of primary wire
- Can accommodate 12GA-18 GA wire spools
- Ease of re-stocking through the top loading lid
- See through display provides inventory at-a-glance for immediate re-stocking
- Heavy gauge steel makes this unit rugged and very stable
- Effective use of shelf space improves revenue per square foot
- Mix-‘n-match – Stock the primary wire and cable you need to support your unique customers
- Wire not included

00872

▶ ONLY 34" WIDE X 17" HIGH X 12" DEEP Holds up to 7,800' of wire!



Top loading lid eliminates re-stocking hassles

WIRE & CABLE DISPLAY

- Constructed of heavy-duty steel, painted powder blue
- Can accommodate a variety of primary wire, battery cable or welding cable assortments in one display
- Steel bars can be removed to accommodate larger spools
- Mounting brackets included for mounting, safety and functionality
- Can be mounted or used as a stand alone display
- No assembly required
- Made in North America
- 27" wide x 18 1/4" tall x 6 1/4" deep; 11 lbs
- Wire not included

00870

