



ANCOR

MARINE

EMERGENCY VEHICLE

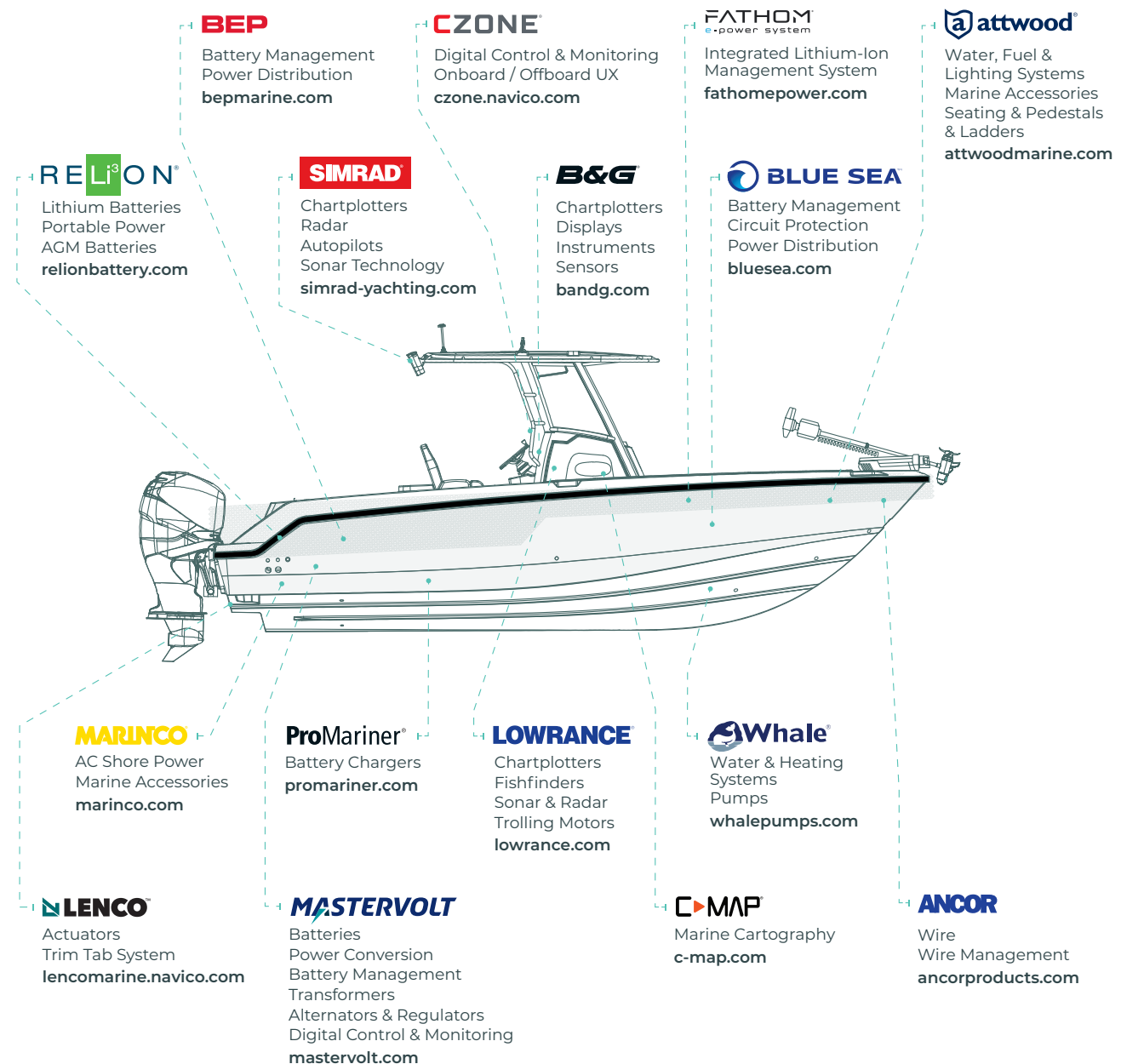
INDUSTRIAL

RV

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What makes Ancor different:

| Founder's Vision

For over 40 years Ancor has been the industry leader for quality tinned copper Marine Grade® wire and cable. Ancor's comprehensive product line includes everything required to complete a wiring project. This includes Marine Grade® wire and cable, terminals and connectors, wire management products, and hand tools. Ancor designs products to the highest standards that meet UL, ABYC, NMMA and USCG standards.

| Selection

Over 1,500 electrical products are designed to work together as a system

| Fast Delivery

Products stocked in multiple global locations ensures rapid order fulfillment

| Worldwide Access to Product

A distribution network in over 45 countries provides access to products when they are needed

| Information

24-hour access to product information, selection tools, and technical articles online at ancorproducts.com

| Industry Standards

Industry involvement ensures products meet ABYC, NMMA, and Coast Guard standards

| Quality

Product quality is managed in a manner consistent with international standards

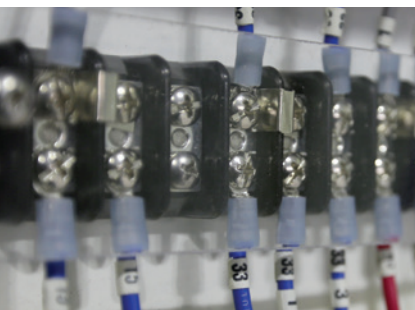
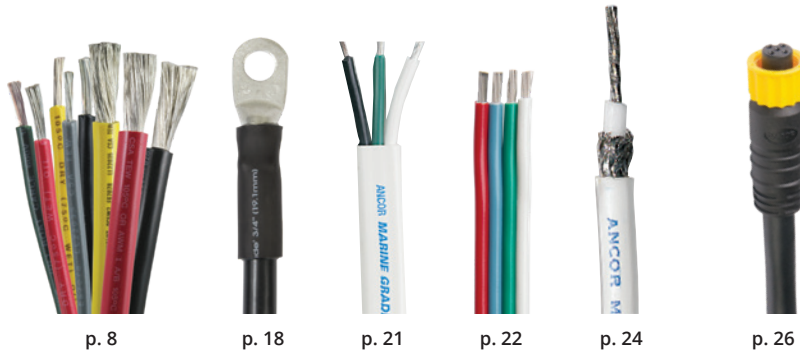


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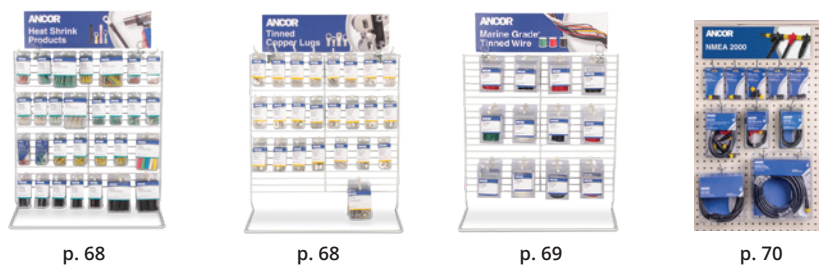
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WIRE & CABLE

8

Primary Wire



Manufactured from tinned copper stranding for maximum protection against corrosion and electrolysis. Ultra flexible (Type 3) stranding resists fatigue due to vibration and flexing.

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Battery Cable & Assemblies



Premium, fine stranded UL1426 tinned copper battery cable for maximum conductivity and flexibility. All assemblies come with tinned copper lugs to avoid corrosion and extend life.

24

Coax Cable & Assemblies



Premium tinned copper features signal loss ratios of up to 50% less than other coaxial cables. All assemblies come with Ancor adhesive lined heat shrink to seal out moisture, provide strain relief and fight corrosion.

25

Trailer Cable & Assemblies



Made from our standard Ancor primary wire made specifically for trailer wiring. Assemblies with molded connectors for a wide range of applications.

WIRE & CABLE

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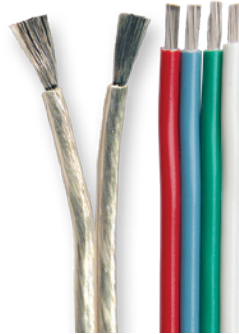
Multiconductor Cables



Duplex and triplex wire in a variety of gauge and spool sizes; including UL 1426 tinned duplex boat cable in flat and round configurations.

22

Specialty Cable



Ancor offers a broad range of cable for specialty applications to meet all of your marine and mobile wiring needs.

26

NMEA 2000 Cables & Connectors



Ancor now carries NMEA 2000 cables and connectors for creating or expanding an NMEA 2000 network quickly and easily. Couplers are color coded to make identifying the power cable or connector easy. Premium quality. Universal fit.

Wire and cable are the backbone of every electrical system and properly selected wire will ensure a safe and reliable system.

Ancor Marine Grade® Wire & Cable

- Ancor Marine Grade® wire and cable is manufactured from tinned copper stranding for maximum protection against corrosion and electrolysis. Ultra flexible (Type 3) stranding resists fatigue due to vibration and flexing.
- Ancor's proprietary premium vinyl insulation stays flexible even in extreme cold (-40°F / -40°C) and resists salt water, battery acid, oil, gasoline and ultra-violet radiation. Exclusive insulation is rated at 600 volts, 221°F / 105°C dry and 167°F / 75°C wet, and is resistant to heat and abrasion.
- Exceeds all UL 1426, US Coast Guard Charter boat (CFR Title 46) and ABYC standards.
- See pages 71–75 for ABYC wiring guidelines and technical data.

Primary Wire 18–14 AWG



18 AWG



16 AWG



14 AWG

Primary Wire 12–6 AWG



12 AWG



10 AWG



8 AWG



6 AWG

18–4/0 AWG Wire and Cable Specifications

Wire Size		Nominal O.D.		Wire Diameter	Minimum Bend Radius		Stranding No. of 30 AWG	Cir. Mil Area	Ohms per 1000'	mm²	Wt. per 1000'	
18 AWG	.08 mm²	7/64"	2.8 mm	1.0 mm	7/8"	2.3 cm	16	1600	6.48	.08	12 lbs	5.4 kg
16 AWG	1 mm²	1/8"	3.2 mm	1.5 mm	31/32"	2.5 cm	26	2600	4.00	1.31	16 lbs	7.3 kg
14 AWG	2 mm²	9/64"	3.6 mm	2.0 mm	1-3/32"	2.8 cm	41	4100	2.53	2.08	23 lbs	10.4 kg
12 AWG	3 mm²	5/32"	4.0 mm	2.6 mm	1-1/4"	3.2 cm	65	6500	1.75	3.31	31 lbs	14 kg
10 AWG	5 mm²	7/32"	5.6 mm	3.3 mm	1-29/64"	3.7 cm	105	10,500	1.00	5.26	44 lbs	20 kg
8 AWG	8 mm²	5/16"	7.9 mm	4.3 mm	2-1/32"	5.2 cm	168	16,800	0.62	8.37	86 lbs	39 kg
6 AWG	13 mm²	11/32"	8.7 mm	5.5 mm	2-35/64"	6.5 cm	266	26,600	0.40	13.30	118 lbs	53.5 kg
4 AWG	21 mm²	13/32"	10.3 mm	7.0 mm	3-3/32"	7.9 cm	420	42,000	0.24	21.15	178 lbs	81 kg
2 AWG	34 mm²	15/32"	11.9 mm	8.0 mm	3-1/2"	8.9 cm	665	66,500	0.16	33.62	277 lbs	126 kg
1 AWG	42 mm²	17/32"	13.5 mm	9.0 mm	4-9/64"	10.4 cm	836	83,690	0.13	42.38	350 lbs	159 kg
1/0 AWG	53 mm²	9/16"	14.3 mm	10.5 mm	4-1/2"	11.4 cm	1064	105,600	0.10	53.49	437 lbs	198 kg
2/0 AWG	68 mm²	5/8"	15.9 mm	12.0 mm	4-59/64"	12.4 cm	1330	133,000	0.08	67.43	549 lbs	249 kg
3/0 AWG	85 mm²	11/16"	17.5 mm	13.0 mm	5-23/64"	13.7 cm	1665	167,800	0.06	85.01	675 lbs	306 kg
4/0 AWG	107 mm²	13/16"	20.6 mm	14.0 mm	5-7/8"	15.0 cm	2109	211,600	0.05	107.20	837 lbs	380 kg

TECH TIP

Wire Flexibility Explained

Wire flexibility is influenced by two major factors: wire strand size and jacket hardness.

Wire strand size has the largest impact on overall wire flexibility. As individual wire strand size decreases, wire flexibility increases. For boat cable, UL 1426 requires at least 19 individual strands for cables 16 AWG and larger. Ancor wire uses type 3 stranding which consists of individual 30 AWG (0.010") strands, regardless of the wire gauge. Ancor's 16 AWG wire consists of 26 individual strands, while the 4/0 AWG wire consists of 2,109 individual strands.

Jacket hardness is most commonly measured by durometer, with lower measurements reflecting a more flexible material. Ancor wire measures 7 points lower than competitive product (on a scale of 1-100), resulting in a more flexible product.

Battery Cable 4–4/0 AWG



Related Products



Battery
Terminals
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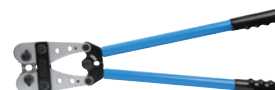
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Cutting &
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Primary Wire 18–14 AWG

Ancor Marine Grade wire products are the longest lasting and most rugged available, exceeding UL 1426, ABYC and US Coast Guard Charter boat (CFR Title 46) standards. They are constructed with premium vinyl insulation that is rated at 600 volts, 105 deg C dry and 75 deg C wet, stays flexible even in extreme cold (-40 deg F/C) and resists salt water, battery acid, oil, gasoline, heat, abrasion and ultra-violet radiation. Highest quality ultra flexible (Type 3) tinned copper stranding provides maximum protection against corrosion and electrolysis while resisting fatigue due to vibration and flexing.

18 AWG (0.8 mm²)

Black	Ft	Part #
	35	180003
	100	100010
	250	100025
	500	100050
	1000	100099

Brown	Ft	Part #
	35	180203
	100	100210
	250	100225
	500	100250A
	1000	100299

Red	Ft	Part #
	35	180803
	100	100810
	250	100825
	500	100850
	1000	100899

Orange	Ft	Part #
	35	180503
	100	100510
	250	100525
	500	100550
	1000	100599

Yellow	Ft	Part #
	35	181003
	100	101010
	250	101025
	500	101050
	1000	101099

Pink	Ft	Part #
	35	180603
	100	100610
	250	100625
	500	100650
	1000	100699

Green	Ft	Part #
	35	180303
	100	100310
	250	100325
	500	100350
	1000	100399

Purple	Ft	Part #
	35	180703
	100	100710
	250	100725
	500	100750
	1000	100799

White	Ft	Part #
	35	180903
	100	100910
	250	100925
	500	100950
	1000	100999

Grey	Ft	Part #
	35	180403
	100	100410
	250	100425
	500	100450
	1000	100499

Dark Blue	Ft	Part #
	35	180103
	100	100110
	250	100125
	500	100150
	1000	100199

16 AWG (1 mm²)

Black	Ft	Part #
	25	182003
	100	102010
	250	102025
	500	102050
	1000	102099

Orange	Ft	Part #
	25	182503
	100	102510
	250	102525
	500	102550
	1000	102599

Red	Ft	Part #
	25	182803
	100	102810
	250	102825
	500	102850
	1000	102899

Pink	Ft	Part #
	25	182603
	100	102610
	250	102625
	500	102650

Yellow	Ft	Part #
	25	183003
	100	103010
	250	103025
	500	103050
	1000	103099

Purple	Ft	Part #
	25	182703
	100	102710
	250	102725
	500	102750
	1000	102799

Green	Ft	Part #
	25	182303
	100	102310
	250	102325AA
	500	102350
	1000	102399

Grey	Ft	Part #
	25	182403
	100	102410
	250	102425
	500	102450
	1000	102499

White	Ft	Part #
	25	182903
	100	102910
	250	102925
	500	102950
	1000	102999

Tan	Ft	Part #
	100	102410
	250	102425
	500	102450

Dark Blue	Ft	Part #
	25	182103
	100	102110
	250	102125
	500	102150
	1000	102199

Light Blue	Ft	Part #
	100	101910
	250	101925
	500	101950

Brown	Ft	Part #
	25	182203
	100	102210
	250	102225
	500	102250
	1000	102299

14 AWG (2 mm²)

Black	Ft	Part #
	18	184003
	100	104010
	250	104025
	500	104050
	1000	104099

Orange	Ft	Part #
	18	184503
	100	104510
	250	104525
	500	104550
	1000	104599

Red	Ft	Part #
	18	184803
	100	104810
	250	104825
	500	104850
	1000	104899

Pink	Ft	Part #
	18	184603
	100	104610
	250	104625
	500	104650

Yellow	Ft	Part #
	18	185003
	100	105010
	250	105025
	500	105050
	1000	105099

Purple	Ft	Part #
	35	184703
	100	104710
	250	104725
	500	104750

Green	Ft	Part #
	18	184303
	100	104310
	250	104325
	500	104350
	1000	104399

Grey	Ft	Part #
	18	184403
	100	104410
	250	104425
	500	104450
	1000	104499

White	Ft	Part #
	18	184903
	100	104910
	250	104925
	500	104950
	1000	104999

Tan	Ft	Part #
	100	103810
	250	103825
	500	103850

Dark Blue	Ft	Part #
	18	184103
	100	104110
	250	104125
	500	104150
	1000	104199

Light Blue	Ft	Part #
	100	103910
	250	103925
	500	103950

Brown	Ft	Part #
	18	184203
	100	104210
	250	104225
	500	104250
	1000	104299

12 AWG (3 mm²)

Black	Ft	Part #
	12	186003
	25	106002
	100	106010
	250	106025
	400	106040
	1000	106099

Brown	Ft	Part #
	25	106202
	100	106210
	250	106225
	400	106240
	1000	106299

Red	Ft	Part #
	12	186803
	25	106802
	100	106810
	250	106825
	400	106840
	1000	106899

Orange	Ft	Part #
	25	106502
	100	106510
	250	106525
	400	106540
	1000	106599

Yellow	Ft	Part #
	12	187003
	25	107002
	100	107010
	250	107025
	400	107040
	1000	107099

Pink	Ft	Part #
	25	106602
	100	106610
	250	106625
	400	106640

Green	Ft	Part #
	12	186303
	25	106302
	100	106310
	250	106325
	400	106340
	1000	106399

Purple	Ft	Part #
	25	106702
	100	106710
	250	106725
	400	106740

White	Ft	Part #
	12	186903
	25	106902
	100	106910
	250	106925
	400	106940
	1000	106999

Grey	Ft	Part #
	1000	106499

Dark Blue	Ft	Part #
	25	106102
	100	106110
	250	106125
	400	106140
	1000	106199

Tan	Ft	Part #
	100	105810
	250	105825
	400	105840

10 AWG (5 mm²)

Black	Ft	Part #
	8	188003
	25	108002
	100	108010
	250	108025
	500	108050
	1000	108099

Dark Blue	Ft	Part #
	25	108102
	100	108110
	250	108125
	500	108150
	1000	108199

Red	Ft	Part #
	8	188803
	25	108802
	100	108810
	250	108825
	500	108850
	1000	108899

Brown	Ft	Part #
	25	108202
	100	108210
	250	108225
	500	108250
	1000	108299

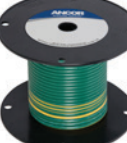
Yellow	Ft	Part #
	25	109002
	100	109010
	250	109025
	500	109050
	1000	109099

Orange	Ft	Part #
	25	108502
	100	108510
	250	108525
	500	108550
	1000	108599

Green	Ft	Part #
	25	108302
	100	108310
	250	108325
	500	108350
	1000	108399

Grey	Ft	Part #
	1000	108499

White	Ft	Part #
	25	108902
	100	108910
	250	108925
	500	108950
	1000	108999

Green w/ Yellow Stripe	Ft	Part #
	25	109302
	100	109310
	250	109325
	500	109350
	1000	109399



8 AWG (8 mm²)

Black	Ft	Part #
	25	111002
	50	111005
	100	111010
	250	111025
	500	111050
	1000	111099

Red	Ft	Part #
	25	111502
	50	111505
	100	111510
	250	111525
	500	111550
	1000	111599

Yellow	Ft	Part #
	25	111902
	50	111905
	100	111910
	250	111925
	500	111950
	1000	111999

Green	Ft	Part #
	25	111302
	50	111305
	100	111310
	250	111325
	500	111350
	1000	111399

White	Ft	Part #
	25	111702
	50	111705
	100	111710
	250	111725
	500	111750
	1000	111799

6 AWG (13 mm²)

Black	Ft	Part #
	25	112002
	50	112005
	100	112010
	250	112025
	500	112050
	750	112075

Red	Ft	Part #
	25	112502
	50	112505
	100	112510
	250	112525
	500	112550
	750	112575

Yellow	Ft	Part #
	25	112902
	50	112905
	100	112910
	250	112925
	500	112950
	750	112975

Green	Ft	Part #
	25	112302
	50	112305
	100	112310
	250	112325
	500	112350
	750	112375

White	Ft	Part #
	25	112702
	50	112705
	100	112710
	250	112725
	500	112750
	750	112775

Battery Cable 4-4/0 AWG

4 AWG (21 mm²)

Black	Ft	Part #
	25	113002
	50	113005
	100	113010
	250	113025
	500	113050

Red	Ft	Part #
	25	113502
	50	113505
	100	113510
	250	113525
	500	113550

Yellow	Ft	Part #
	25	113902
	50	113905
	100	113910
	250	113925
	500	113950

1 AWG (42 mm²)

Black	Ft	Part #
	25	115002
	50	115005
	100	115010
	300	115030

Red	Ft	Part #
	25	115502
	50	115505
	100	115510
	300	115530

Yellow	Ft	Part #
	25	115902
	50	115905
	100	115910
	300	115930

2 AWG (34 mm²)

Black	Ft	Part #
	25	114002
	50	114005
	100	114010
	250	114025
	400	114040

Red	Ft	Part #
	25	114502
	50	114505
	100	114510
	250	114525
	400	114540

Yellow	Ft	Part #
	25	114902
	50	114905
	100	114910
	250	114925
	400	114940

1/0 AWG (53 mm²)

Black	Ft	Part #
	25	116002
	50	116005
	100	116010
	250	116025

Red	Ft	Part #
	25	116502
	50	116505
	100	116510
	250	116525

Yellow	Ft	Part #
	25	116902
	50	116905
	100	116910
	250	116925

2/0 AWG (68 mm²)

Black	Ft	Part #
	25	117002
	50	117005
	100	117010
	200	117020

Red	Ft	Part #
	25	117502
	50	117505
	100	117510
	200	117520

Yellow	Ft	Part #
	25	117902
	50	117905
	100	117910
	200	117920

4/0 AWG (107 mm²)

Black	Ft	Part #
	25	119002
	50	119005
	100	119010
	250	119025

Red	Ft	Part #
	25	119502
	50	119505
	100	119510
	250	119525

Yellow	Ft	Part #
	25	119902
	50	119905
	100	119910
	250	119925

3/0 AWG (85 mm²)

Black	Ft	Part #
	25	118002
	50	118005
	100	118010
	150	118015

Red	Ft	Part #
	25	118502
	50	118505
	100	118510
	150	118515

Yellow	Ft	Part #
	25	118902
	50	118905
	100	118910
	150	118915



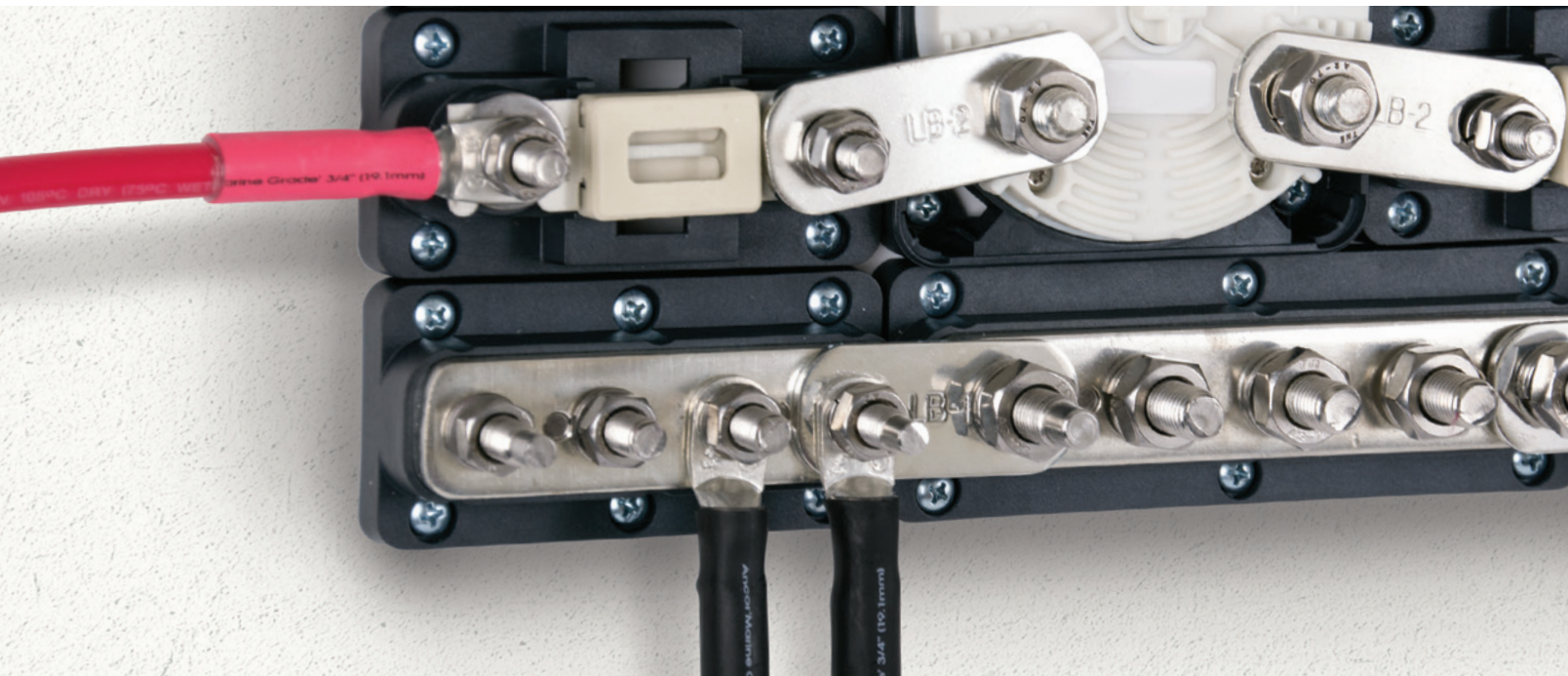
Premium Battery Cable Assemblies

UL1426 Tinned Boat Cable

- Premium, fine stranded UL 1426 tinned copper battery cable for maximum conductivity and flexibility
- Flame retardant, UV inhibited cable rated at 600V and 221°F / 105°C
- Tinned copper lugs to avoid corrosion and extend life
- 3:1 heat shrink tubing over the electrical connection to seal out moisture and provide strain relief

Color	Length		Stud Size		Part #
4 AWG (21 mm²)					
Black	18"	45.7 cm	5/16"	7.93 mm	189130
	32"	81.2 cm	5/16"	7.93 mm	189134
	48"	121.9 cm	5/16"	7.93 mm	189136
Red	18"	45.7 cm	3/8"	9.5 mm	189131
	32"	81.2 cm	3/8"	9.5 mm	189135
	48"	121.9 cm	3/8"	9.5 mm	189137
2 AWG (34 mm²)					
Black	18"	45.7 cm	5/16"	7.93 mm	189140
	32"	81.2 cm	5/16"	7.93 mm	189144
	48"	121.9 cm	5/16"	7.93 mm	189146
Red	18"	45.7 cm	3/8"	9.5 mm	189141
	32"	81.2 cm	3/8"	9.5 mm	189145
	48"	121.9 cm	3/8"	9.5 mm	189147

For continuous current draws up to:	Use battery cable assemblies
136 amps	4 AWG
178 amps	2 AWG



Safety Duplex Cable

UL 1426 Tinned Boat Cable

Conductor colors: red and yellow

Ancor safety duplex cable features red and yellow Marine Grade primary conductors (correctly color-coded to ABYC standards) in a white common jacket that is made for easy removal while providing the best abrasion resistance available. These cables exceed UL 1426 standards and are made from the highest quality ultra flexible (Type 3/Class K) tinned copper stranding that provides maximum protection against corrosion and electrolysis while resisting fatigue due to vibration and flexing. The premium vinyl insulation is rated at 600 volts, 105 deg C dry and 75 deg C wet, stays flexible even in extreme cold (-40 deg F/C) and resists salt water, battery acid, oil, gasoline, heat, abrasion and ultra-violet radiation.

Flat Cable



Spool Length	Part #	Nominal O.D.	Wt. per 1000'
18/2 AWG (2x0.8 mm ²)			
100'	124910		
250'	124925	3/16"x9/32"	49 lbs
500'	124950	5x7 mm	22.2 kg
1000'	124999		
16/2 AWG (2x1 mm ²)			
25'	124702		
100'	124710		
250'	124725	3/16"x5/16"	51 lbs
500'	124750	5x8 mm	23.1 kg
1000'	124799		
14/2 AWG (2x2 mm ²)			
25'	124502		
100'	124510		
250'	124525	7/32"x11/32"	65 lbs
500'	124550	6x9 mm	29.5 kg
1000'	124599		

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
12/2 AWG (2x3 mm ²)			
25'	124302		
100'	124310	7/32"x3/8"	82 lbs
250'	124325	6x10 mm	37.3 kg
500'	124350		
10/2 AWG (2x5 mm ²)			
25'	124102		
100'	124110		
250'	124125	1/4"x15/32"	128 lbs
400'	124140	6x12 mm	58.2 kg
800'	124180		
8/2 AWG (2x8 mm ²)			
50'	123905		
100'	123910	11/32"x5/8"	230 lbs
500'	123950	9x16 mm	104.5 kg
6/2 AWG (2x13 mm ²)			
50'	123705	13/32"x3/4"	364 lbs
100'	123710	10x19 mm	165.5 kg

Round Cable



Spool Length	Part #	Nominal O.D.	Wt. per 1000'
16/2 AWG (2x1 mm ²)			
100'	126710		
250'	126725	5/16"	49 lbs
500'	126750	8 mm	22.2 kg
14/2 AWG (2x2 mm ²)			
100'	126510		
250'	126525	11/32"	63 lbs
500'	126550	9 mm	28.6 kg

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
12/2 AWG (2x3 mm ²)			
100'	126310		
250'	126325	13/32"	80 lbs
500'	126350	10 mm	36.3 kg

Duplex Cable

Conductor colors: black and red

Ancor Marine Grade wire products are the longest lasting and most rugged available, exceeding UL 1426, ABYC and US Coast Guard Charter boat (CFR Title 46) standards. They are constructed with premium vinyl insulation that is rated at 600 volts, 105 deg C dry and 75 deg C wet, stays flexible even in extreme cold (-40 deg F/C) and resists salt water, battery acid, oil, gasoline, heat, abrasion and ultra-violet radiation. Highest quality ultra flexible (Type 3) tinned copper stranding provides maximum protection against corrosion and electrolysis while resisting fatigue due to vibration and flexing.

Flat Cable



Spool Length	Part #	Nominal O.D.	Wt. per 1000'
18/2 AWG (2x0.8 mm ²)			
100'	121910		
250'	121925	3/16"x9/32" 5x7 mm	49 lbs 22.2 kg
500'	121950		
16/2 AWG (2x1 mm ²)			
100'	121710		
250'	121725	3/16"x5/16" 5x8 mm	51 lbs 23.1 kg
500'	121750		
1000'	121799		
14/2 AWG (2x2 mm ²)			
100'	121510		
250'	121525	7/32"x11/32" 6x9 mm	65 lbs 29.5 kg
500'	121550		
1000'	121599		

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
12/2 AWG (2x3 mm ²)			
100'	121310		
250'	121325	7/32"x3/8" 6x10 mm	82 lbs 37.3 kg
500'	121350		
10/2 AWG (2x5 mm ²)			
100'	121110		
250'	121125	1/4"x15/32" 6x12 mm	128 lbs 58.2 kg
400'	121140		
800'	121180		
8/2 AWG (2x8 mm ²)			
50'	120905		
100'	120910	11/32"x5/8" 9x16 mm	230 lbs 104.5 kg
250'	120925		
6/2 AWG (2x13 mm ²)			
50'	120705	13/32"x3/4" 10x19 mm	364 lbs 165.5 kg
100'	120710		

Related Products



Cutting & Crimping Tools
pages 58-61



Wire Seals
page 54

Triplex Cable

Conductor colors: black, green and white

Ancor round triplex cable features white, green and black Marine Grade primary conductors (correctly color-coded to ABYC standards) in a white common jacket that is made for easy removal while providing the best abrasion resistance available. These cables exceed UL 1426 standards and are made from the highest quality ultra flexible (Type 3/Class K) tinned copper stranding that provides maximum protection against corrosion and electrolysis while resisting fatigue due to vibration and flexing. The premium vinyl insulation is rated at 600 volts, 105 deg C dry and 75 deg C wet, stays flexible even in extreme cold (-40 deg F/C) and resists salt water, battery acid, oil, gasoline, heat, abrasion and ultra-violet radiation.

Flat Cable



Spool Length	Part #	Nominal O.D.	Wt. per 1000'
16/3 AWG (3x1 mm ²)			
100'	131710		
250'	131725	3/16"x15/32"	75 lbs
500'	131750	5x12 mm	34 kg
1000'	131799		
14/3 AWG (3x2 mm ²)			
100'	131510		
250'	131525	7/32"x1/2"	96 lbs
500'	131550	6x13 mm	43.6 kg
900'	131590		
12/3 AWG (3x3 mm ²)			
25'	131302		
100'	131310	7/32"x17/32"	125 lbs
250'	131325	6x14 mm	56.8 kg
700'	131370		

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
10/3 AWG (3x5 mm ²)			
100'	131110		
300'	131130	1/4"x21/32"	186 lbs
500'	131150	6x17 mm	84.5 kg
8/3 AWG (3x8 mm ²)			
25'	130902		
50'	130905	3/8"x1"	287 lbs
100'	130910	10x25 mm	130.4 kg
6/3 AWG (3x13 mm ²)			
50'	130705	7/16"x1-3/16"	470 lbs
100'	130710	11x30 mm	213.6 kg

Round Cable



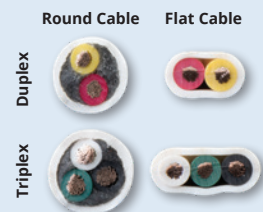
Spool Length	Part #	Nominal O.D.	Wt. per 1000'
16/3 AWG (3x1 mm ²)			
100'	133710	11/32"	75 lbs
250'	133725	9 mm	34 kg
14/3 AWG (3x2 mm ²)			
100'	133510		
250'	133525	13/32"	96 lbs
900'	133590	10 mm	43.6 kg

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
12/3 AWG (3x3 mm ²)			
100'	133310	7/16"	125 lbs
250'	133325	11 mm	56.8 kg

TECH TIP

Round versus Flat Duplex/Triplex

Duplex and triplex cable have many different advantages to help installers. The grouped wires save time and effort by having to run only one group instead of multiple individual wires and also provides extra protection for the wire itself. But they have different advantages based on the shape too. Round cable for instance is easier to install through bulk heads, walls, panels or holes, while flat cable is easier to route long distances since it can be moved through a smaller space.



Specialty Cable



Bonded Cable

Tinned Copper

Color conductors: red and black

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
8/2 AWG (2x8 mm²)			
25'	121802		
100'	121810	5/8"x5/16"	172 lbs
250'	121825	15.9x7.9 mm	78.0 kg
6/2 AWG (2x13 mm²)			
25'	121602A		
100'	121610	11/16"x11/32"	236 lbs
250'	121625	17.5x8.7 mm	107.0 kg



Twisted Pairs w/ Shield

Premium Tinned Copper

Color conductors: red and black

- For all metal boats and around sensitive electronics
- 93% tinned copper shield for maximum EMI and RFI rejection
- 2-3" lay for interference cancellation

Twisted pairs cable with shield are made with premium tinned copper for use in all metal boats and around sensitive electronics.

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
14/2 AWG (2x2 mm²)			
100'	141410	.330"	73.2 lbs
250'	141425	8.4 mm	33.3 kg



Flat Ribbon Bonded Cable

Premium Tinned Bonded Copper

Conductor colors: red and black

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
16/2 AWG (2x1 mm²)			
100'	153110		
250'	153125	1/8"x1/4"	32 lbs
500'	153150	3.2x6.4 mm	14.5 kg



Round Mast

UL 1426 Tinned Boat Cable

Color conductors: black, blue, green, brown and red

Round Mast: Round mast cable is made of UL 1426 tinned boat cable.

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
14/5 AWG (5x2 mm²)			
100'	155010	1/2"	160 lbs
500'	155050	12.7 mm	79.5 kg



Round Instrument Cable

100% Mylar Foil Shield & Drain Wire

UL 1426 Tinned Boat Cable

Color conductors: red, black and bare

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
20/3 AWG (3x0.5 mm²)			
100'	153010	7/32"	30 lbs
500'	153050	5.6 mm	13.6 kg



Round Signal

100% Mylar Foil Shield and Drain Tinned Boat Cable

Conductor colors: black, red, green, blue, brown, orange, purple and yellow

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
20/8 AWG (8x0.5 mm²)			
100'	158010	5/16"	63 lbs
250'	158025	7.9 mm	28.6 kg

Ancor round signal cable features black, red, green, blue, brown, orange, purple and yellow Marine Grade primary conductors (correctly color-coded to ABYC standards) in a white common jacket that is made for easy removal while providing the best abrasion resistance available. These cables exceed UL 1426 standards and are made from the highest quality ultra flexible (Type 3/Class K) tinned copper stranding that provides maximum protection against corrosion and electrolysis while resisting fatigue due to vibration and flexing. The premium vinyl insulation is rated at 600 volts, 105 deg C dry and 75 deg C wet, stays flexible even in extreme cold (-40 deg F/C) and resists salt water, battery acid, oil, gasoline, heat, abrasion and ultra-violet radiation.



Signal Cable

Tinned Boat Cable

Conductor colors: red and black

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
20/2 AWG (2x0.5 mm²)			
25'	189303		
100'	122010	5/32"x1/4"	18 lbs
250'	122025	4x6.4 mm	8.1 kg
500'	122050		



Bilge Pump Cable

Premium Tinned Copper

Color conductors: black, brown and red
Insulation: grey

- Conductors specifically for bilge pumps
- Oil resistant
- SJTOW-A water resistant jacket

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
16/3 AWG (3x1 mm²)			
100'	156610	.348"	78 lbs
250'	156625	8.85 mm	35.5 kg
14/3 AWG (3x2 mm²)			
100'	156410	.377"	99 lbs
250'	156425	9.6 mm	45.0 kg
500'	156450		



GTO 15 High Voltage Cable (15000V)

Color conductors: white

- Coupler output to antenna

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
14 AWG (2 mm²)			
25'	150102	1/4"	38 lbs
100'	150110	6.4 mm	17.2 kg



Super Flex Audio Cable

Premium Tinned Copper

- Super flexible, easy to run
- Clear jacket to blend into the environment
- Drawn copper, unidirectional lay for ultimate in sound quality
- Tinned copper for corrosion resistance in the marine environment

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
18/2 AWG (2x0.8 mm²)			
100'	142810	.265"	29 lbs
		6.7 mm	13 kg
16/2 AWG (2x1 mm²)			
100'	142610		
250'	142625	.319"	51 lbs
		8.1 mm	23.1 kg
500'	142650		
14/2 AWG (2x2 mm²)			
100'	142410		
250'	142425	.345"	65 lbs
		8.8 mm	29.5 kg
1000'	142499		

Technical Data



Flat Ribbon Bonded RGB Cable

Tinned Copper

Conductor colors: red, light blue, green, and white

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
18/4 AWG (4x0.08 mm²)			
100'	160010	3/32"x3/8"	48 lbs
1000'	160099	2.3x9.3 mm	21.8 kg
16/4 AWG (4x1 mm²)			
100'	160110	1/8"x15/32"	64 lbs
1000'	160199	2.6x10.5 mm	29.0 kg
14/4 AWG (4x2 mm²)			
100'	160210	7/64"x15/32"	92 lbs
1000'	160299	3.0x11.9 mm	41.7 kg

Flat ribbon bonded cable is made with premium tinned bonded copper.



RGB + Speaker Cable

Tinned Copper

18 AWG conductors for RGB lighting: yellow, red, blue, green

16 AWG conductors for speaker connections: black and red

- Saves time by running only one cable
- Meets ABYC standards

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
18/4 AWG (4x0.08 mm²) + 16/2 AWG (2x1 mm²)			
25'	170002		
100'	170010	.352"	69.9 lbs
		8.9 mm	31.7 kg
250'	170025		





Shore Power Cord

Conductor colors: black, white, green (and red 100319 only)

- High visibility yellow jacket is weather and sunlight resistant
- Ultra flexible insulation is abrasion resistant for "hard service" applications
- 600 volt rated for extra heavy-duty service
- 16/3 is 300 volt cable
- Temp rating: 140°F / 60°C

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
10/3 STOW			
100'	153710	21/32"	284 lbs
250'	153725	17 mm	129 kg
10/3 STW			
250'	SPC103	21/32"	284 lbs
		17 mm	129 kg

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
6/3 STW			
per/ft**	100320F	31/32"	540 lbs
		24.4 mm	254.4 kg
6/4 STW			
per/ft**	100319F	1-5/64"	695 lbs
		27.4 mm	316 kg

SPC103, 100320F and 100319F are not tinned wire

**50 ft minimum

Coaxial Cable & Assemblies

Coaxial Cable

Premium Tinned Copper

- Features signal loss ratios of up to 50% less than other coaxial cables
- Tinned copper center conductor as well as tinned copper outer braid for corrosion resistance and easy soldering
- 96% braid for best signal strength and least interference with UV inhibited white jacket for longest life

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
RG 58CU			
100'	150510	3/16"	26 lbs
250'	150525	4.8 mm	11.8 kg
RG 59U			
250'	151025	1/4"	36 lbs
500'	151050	6.4 mm	16.3 kg
RG 8X			
100'	151510		
250'	151525	1/4"	40 lbs
500'	151550	6.4 mm	18.1 kg
1000'	151560		
RG 213			
100'	151710		
250'	151725	13/32"	110 lbs
500'	151750	10.3 mm	50 kg



Coaxial Cable Assemblies

Premium Tinned Copper

- All assemblies come with Ancor adhesive lined heat shrink to seal out moisture, provide strain relief and fight corrosion
- 96% tinned copper braid for optimum protection against signal loss
- 100% tinned copper center conductor and braid
- No solder or special tools required
- Special low loss SAT NAV extensions



Wire Type	RG58C/U	RG59U	RG8X	RG213
Insulation Material	PVC*	PVC	PVC	PVC*
Nominal O.D.	3/16" 4.8 mm	1/4" 6.4 mm	1/4" 6.4 mm	13/32" 10.3 mm
AWG	20	23	16	13
Conductor Stranding	19/33	Solid**	19/29	7/21
Braid Coverage	96%	96%	96%	96%
Wt. per 1000'	26 lbs 11.8 kg	36 lbs 16.3 kg	40 lbs 18.1 kg	110 lbs 50 kg
Impedance (Ohms)	50	75	50	50
Capacitance/Ft.	30.8 pF	20.5 pF	26.0 pF	30.8pF
Attenuation/100'				
@50MHz	3.3db	2.4db	2.5db	1.3db
@100MHz	4.9db	3.4db	3.7db	1.9db
@1000MHz	21.5db	12.0db	13.5db	8.0db
Velocity of Propagation	66%	66%	78%	66%

* non-contaminating insulation ** copperweld

TECH TIP

Ancor Recommends

- RG 58CU for interconnecting electronic equipment
- RG 59U for TVs and some SAT NAVs
- RG 213 for VHF runs more than 50 feet
- RG 8X for VHF runs less than 50 feet

Ends Description	Wire Length	Part #
RG58CU Two ends assembled	3'	189800
RG8X One end assembled	50'	189849

Trailer Cable & Assemblies

Flat Trailer Cable: Ancor flat trailer cable features white, green yellow and black Marine Grade primary conductors (correctly color-coded to ABYC standards) in a white common jacket that is made for easy removal while providing the best abrasion resistance available. These cables exceed UL 1426 standards and are made from the highest quality ultra flexible (Type 3/Class K) tinned copper stranding that provides maximum protection against corrosion and electrolysis while resisting fatigue due to vibration and flexing. The premium vinyl insulation is rated at 600 volts, 105 deg C dry and 75 deg C wet, stays flexible even in extreme cold (-40 deg F/C) and resists salt water, battery acid, oil, gasoline, heat, abrasion and ultra-violet radiation.



Flat Ribbon Bonded Trailer Cable

Premium Tinned Bonded Copper

Conductor colors: brown, green, white, and yellow

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
16/4 AWG (4x1 mm²)			
100'	154510	1/8"x1/2"	29.2 lbs
250'	154525	3.2x12.7 mm	13.2 kg



Flat Trailer Cable

Tinned Boat Cable

Conductor colors: yellow, white, green, and brown

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
16/4 AWG (4x1 mm²)			
100'	154010	3/16"x9/16"	105 lbs
300'	154030	4x14 mm	47.7 kg

Trailer Assemblies

- Molded trailer connectors are made with 16 gauge wire
- Color coding in accordance with SAE recommended practices
- Male Connector = Trailer Side / Female Connector = Vehicle Side
- 4-contact connectors are molded with an EasyGrip® for fast and easy disconnect
- Loops can be cut to the desired length for splicing into an existing wire assembly

2-wire

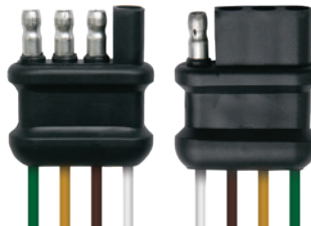


male

female

length	style	part #
12"	loop	249102

4-wire



male

female

length	style	part #
12"	loop	249101

NMEA 2000® Cables and Connectors

Premium Quality. Universal Fit.

Ancor NMEA 2000 approved cables and connectors simplify creating or expanding an NMEA 2000 network. Couplers are color coded to make identifying the power cable or connector easy once installed as part of an NMEA 2000 network. The color coded couplers connect to the corresponding Ancor cables and connectors creating an easy to identify network.

- NMEA 2000 Approved, 100% universal and compatible with other manufacturers' products
- NMEA micro-size



NMEA 2000 Power Cable With Tee

For power connection to an NMEA 2000 network.

The tee is color coded red to make identifying the power cable easy once installed as part of an NMEA 2000 network. The yellow couplers connect to the corresponding Ancor backbone cables and tees creating a simplified, color coded network installation.

- Includes a tee for direct connection to backbone cables
- Large 18 AWG power conductors to reduce voltage drop, provide better reliability and meet the requirements of ABYC and the USCG for minimum size power conductors

Part # 270000 3.3 ft 1 m



NMEA 2000 Backbone Cables

For connection to an NMEA 2000 tee connector.

The yellow couplers connect to the corresponding Ancor tees creating a simplified, color coded network installation.

- Large 18 AWG power conductors to reduce voltage drop and provide better reliability for critical backbone cables

Part # 270001 1.6 ft .5 m
 Part # 270002 6.5 ft 2 m
 Part # 270005 16 ft 5 m
 Part # 270010 32 ft 10 m

Ancor NMEA 2000 Color Key:

- = power connection
- = power isolation
- = backbone connection
- = inline termination
- = drop connection

Backbone vs Drop Cables



Backbone Cables:

- yellow coupler
- low loss cable

Drop Cables:

- black coupler
- slim, flexible cable



NMEA 2000 Drop Cables

For connection between an NMEA 2000 device and tee connector.

The black couplers connect to the corresponding Ancor tees creating a simplified, color coded network installation. The drop cables are smaller in diameter and more flexible than backbone cables for easy connection to NMEA 2000 devices.

- Super flexible 22 AWG power conductors for ease of installation and wire routing

Part # 270300 1.6 ft .5 m
 Part # 270301 3.3 ft 1 m
 Part # 270302 6.5 ft 2 m
 Part # 270305 16 ft 5 m



NMEA 2000 Tee Connectors

For connection between NMEA 2000 drop cables and backbone cables.

The yellow couplers connect to the corresponding Ancor tees and backbone cables, creating a simplified, color coded network installation. The connectors are offered in four configurations for maximum installation flexibility. The two way and four way tee connectors allow for multiple drop cables to be connected without additional backbone cable.

Part # 270101 Single Tee Connector

Part # 270103 2 Way Tee Connector

Part # 270104 4 Way Tee Connector



270101



270103



270104



NMEA 2000 Terminators

For proper termination of an NMEA 2000 network.

The yellow couplers connect to the corresponding Ancor tees, creating a simplified, color coded network installation. One male and one female terminator is required for each NMEA 2000 network.

Part # 270105 Female

Part # 270106 Male



270105



270106

NMEA 2000 Inline Terminator

For proper termination of a network in a single piece, space saving design.

The inline terminator connects between a backbone cable and a drop cable, while still maintaining proper termination for the end of the network.

Part # 270114



NMEA 2000 Blanking Caps

Cover unused couplers.

Protects unused tee connectors from dust and water. 2-pack.

Part # 270111 Female

Part # 270112 Male



270111



270112



NMEA 2000 90° Elbow Connector

Makes cable routing easier.

The connector is installed between two cables to reduce stress on the cables and create a compact installation.

Part # 270108



NMEA 2000 Field Serviceable Connectors

For termination of bare NMEA cable.

Securely terminate bulk cable, or replace a broken end.

Part # 270109 Female

Part # 270110 Male



270109



270110

NMEA 2000 Through Bulkhead Adaptor

Use for transitions through bulk heads or panels.

Simplifies installation when routing through a waterproof bulkhead or panel. Creates a connectoin point for removable equipment such as a computer interface.

Part # 270107



NMEA 2000 Power Isolator

Isolating power within a NMEA 2000 network.

The power isolator connects between NMEA 2000 tees and backbone cables while isolating the power supply within the network.

Part # 270113



NMEA 2000® Starter Kits



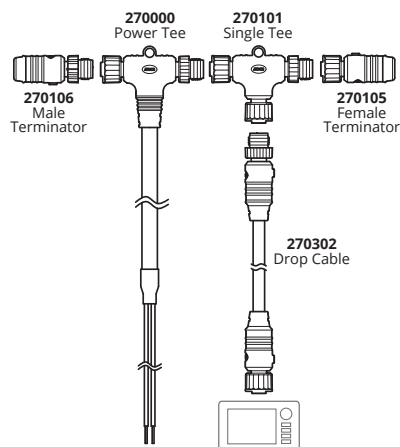
NMEA 2000 Single Device Starter Kit

Kit include all components needed to create a single device NMEA 2000 network.

Kit includes:

- (1) Power Cable with Tee, 3.3 ft (1m), part # 270000
- (1) Male Terminator, part # 270106
- (1) Female Terminator, part # 270105
- (1) Single Tee Connector, part # 270101
- (1) Drop Cable, 6.5 ft (2m), part # 270302

Part # 270201



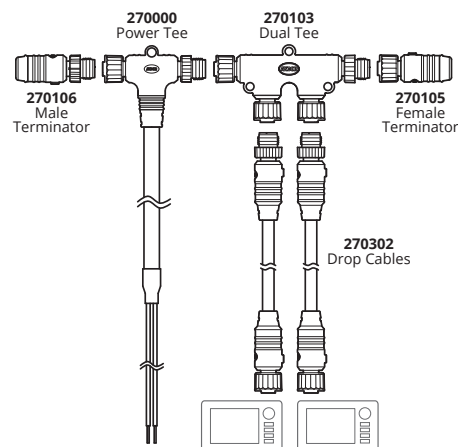
NMEA 2000 Dual Device Starter Kit

Kit include all components needed to create a dual device NMEA 2000 network.

Kit includes:

- (1) Power Cable with Tee, 3.3 ft (1m), part # 270000
- (1) Male Terminator, part # 270106
- (1) Female Terminator, part # 270105
- (1) Dual Tee Connector, part # 270103
- (2) Drop Cable, 6.5 ft (2m), part # 270302

Part # 270202



Technical Data

NMEA 2000®
Install Guide



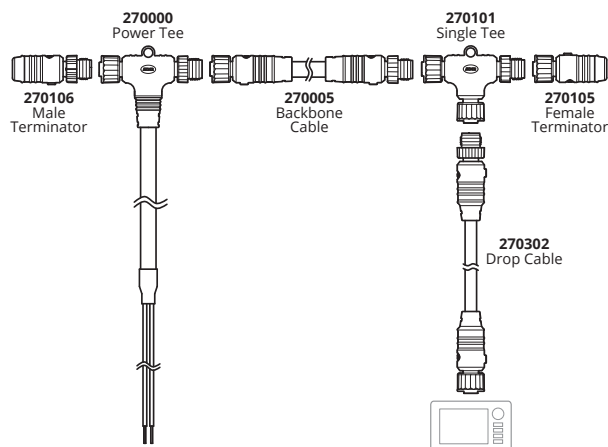
NMEA 2000® Single Device Backbone Starter Kit

Basic starter kit for adding a new NMEA 2000 network to your boat.

Kit includes:

- (1) Power Cable with Tee, 3.3 ft (1m), part # 270000
- (1) Male Terminator, part # 270106
- (1) Female Terminator, part # 270105
- (1) Single Tee Connector, part # 270101
- (1) Drop Cable, 1.64 ft (.5m), part # 270300
- (1) Backbone Cable, 16.4 ft (5m), part # 270005

Part # 270203



TECH TIP

Approved vs Certified

NMEA Components—cables and connectors must pass NMEA approval to guarantee that they are manufactured to standards which allow them to be universally used with any manufacturers approved components and certified devices.

NMEA Devices—must be certified to run the universal NMEA 2000 communications protocols to be used universally between different manufacturers devices.



TERMINALS & LUGS

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Adhesive Lined Heat Shrink Terminals



Includes a heat activated adhesive built into the sleeve of the tubing for improved seal and strain relief.

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Nylon Insulated Terminals



Marine Grade® Nylon terminals are designed for harsh boating applications. Nylon insulators are ideal for crimping and will not split.

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Heavy-duty Butt Connectors



Use with larger gauge cable for proper connection.

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Vinyl Insulated Terminals



Ideal for non-waterproof applications.

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Tinned Copper Lugs



Ancor Marine Grade® lugs are made from heavy-duty annealed tinned copper for maximum current flow and corrosion resistance.

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Battery Terminals, Covers & Clips



Provides proper connections to batteries for maximum conductivity.

Electrical systems rely on Ancor terminals and lugs to securely connect a vessels' electrical system so current-carrying loads swiftly move from the source of power to the loads.

Adhesive Lined Heat Shrink Terminals

- Heat activated adhesive built into the sleeve of the heat shrink tubing
- Shrinks to form a water tight seal and ultimate vibration and strain relief
- Tinned for corrosion resistance
- Pure copper for maximum current flow
- Brazed seam for maximum strength
- UL listed and CSA recognized
- Shrinks at 275°F / 135°C

Heat Shrink Ring Terminals

- UL 486A

AWG: 22–18 0.3–0.8 mm²

Screw Size		Qty/ Pkg	Part #
	#8 4 mm	3	310203
		25	310225
		100	310299
#10 4.8 mm		3	310303
		25	310325
		100	310399
1/4" 6.4 mm		3	310403
		25	310425
		100	310499
5/16" 7.9 mm		3	310503
		25	310525
		100	310599
3/8" 9.5 mm		3	310603
		25	310625
		100	310699

AWG: 16–14 1–2 mm²

Screw Size		Qty/ Pkg	Part #
	#8 4 mm	3	311203
		25	311225
		100	311299
#10 4.8 mm		3	311303
		25	311325
		100	311399
1/4" 6.4 mm		3	311403
		25	311425
		100	311499
5/16" 7.9 mm		3	311503
		25	311525
		100	311599
3/8" 9.5 mm		3	311603
		25	311625
		100	311699

AWG: 12–10 3–5 mm²

Screw Size		Qty/ Pkg	Part #
	#8 4 mm	3	312203
		25	312225
		100	312299
#10 4.8 mm		3	312303
		25	312325
		100	312399
1/4" 6.4 mm		3	312403
		25	312425
		100	312499
5/16" 7.9 mm		3	312503
		25	312525
		100	312599
3/8" 9.5 mm		3	312603
		25	312625
		100	312699

AWG: 8 8 mm²

Screw Size		Qty/ Pkg	Part #
#10 4.8 mm		3	321303
		25	321325
		100	321399
1/4" 6.4 mm		3	321403
		25	321425
		100	321499
5/16" 7.9 mm		3	321503
		25	321525
		100	321599
3/8" 9.5 mm		3	321603
		25	321625
		100	321699
1/2" 12.7 mm		3	321703
		25	321725
		100	321799

Related Products



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**Declaration
of Conformity**

Heat Shrink Snap Plugs

AWG: 22-18 0.3-0.8 mm²

	Gender	Qty/ Pkg	Part #
	Female	3	318803
		25	318825
		100	318899
	Male	3	318903
		25	318925
		100	318999

AWG: 16-14 1-2 mm²

	Gender	Qty/ Pkg	Part #
	Female	3	319803
		25	319825
		100	319899
	Male	3	319903
		25	319925
		100	319999

Heat Shrink Spade Terminals

- UL 486A

AWG: 22-18 0.3-0.8 mm²

	Screw Size	Qty/ Pkg	Part #
	#8 4 mm	3	313203
		25	313225
		100	313299

AWG: 16-14 1-2 mm²

	Screw Size	Qty/ Pkg	Part #
	#8 4 mm	3	314203
		25	314225
		100	314299
	#10 4.8 mm	3	314303
		25	314325
		100	314399

AWG: 12-10 3-5 mm²

	Screw Size	Qty/ Pkg	Part #
	#8 4 mm	3	315203
		25	315225
		100	315299
	#10 4.8 mm	3	315303
		25	315325
		100	315399

Heat Shrink Butt Connectors

- UL 486C

AWG: 22-18 0.3-0.8 mm²

	Qty/ Pkg	Part #
	3	309003
	25	309025
	100	309099
	500	309002

AWG: 16-14 1-2 mm²

	Qty/ Pkg	Part #
	3	309103
	25	309125
	100	309199
	500	309102

AWG: 12-10 3-5 mm²

	Qty/ Pkg	Part #
	3	309203
	25	309225
	100	309299
	500	309202

AWG: 8 8 mm²

	Qty/ Pkg	Part #
	3	309303
	25	309325
	500	309302

Heat Shrink Butt Connector Packs

- Reusable jar is clear for easy identification and has a flip lid for ease of use
- Reusable compact case (6.625"L x 3.125"W x 1.375"D) fits easily in most storage areas

AWG	Qty/ Pkg	Pkg	Part #
22-18 0.3-0.8 mm ²	250	jar	309001
16-14 1-2 mm ²	250	jar	309101
12-10 3-5 mm ²	200	jar	309201
Assorted (50) 22-18, (150) 16-14, (50) 12-10 AWG	250	jar	309000
Assorted (25) each	75	case	220011



309000

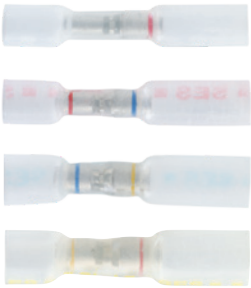


220011

Heat Shrink Step-Down/Multi-Wire Connectors

- 4:1 shrink ratio tubing to ensure a watertight seal between wires
- Flared barrel with uniform copper wall ensures an easy and proper mechanical crimp
- Crimp indicator on barrel for proper placement of installation tool
- Clear heat shrink tubing ensures crimp accuracy
- Colored stripes on the barrel indicate which crimp die to use, regardless of application

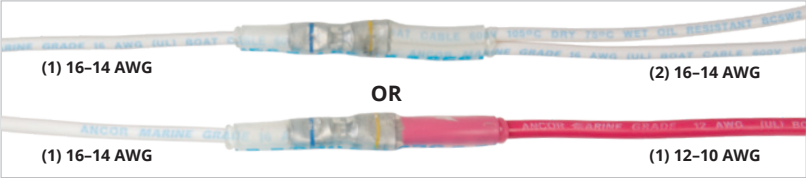
AWG	Tubing Color	Pkg Qty	Part #	Barrel End 1	Barrel End 2
24-22 0.2-0.3 mm²	Clear tube w/ white dashes □□□□□	3	320003	(1) 24-22 AWG	(1) 22-18 AWG or (2) 24-22 AWG
		25	320025		
22-18 0.3-0.8 mm²	Clear tube w/ red dashes ■ ■ ■ ■ ■	3	320103	(1) 22-18 AWG	(1) 16-14 AWG or (2) 22-18 AWG
		25	320125		
16-14 1-2 mm²	Clear tube w/ blue dashes ■ ■ ■ ■ ■	3	320203	(1) 16-14 AWG	(1) 12-10 AWG or (2) 16-14 AWG
		25	320225		
12-10 3-5 mm²	Clear tube w/ yellow dashes ■ ■ ■ ■ ■	3	320303	(1) 12-10 AWG	(1) 8 AWG or (2) 12-10 AWG
		25	320325		



Kit

AWG		Qty/Pkg	Pkg	Part #
Assorted	(5) 24-22 AWG, (10) 22-18 AWG, (10) 16-14 AWG, (5) 12-10 AWG	30	jar	320000

16-14 AWG Step-Down Connector Example



320000

Related Products



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Heat Shrink Disconnects

AWG: 22-18 0.3-0.8 mm²

	Tab Size	Gender	Qty/Pkg	Part #
	.110	Female	100	326899
	.187	Female	100	336899
			3	316803
	.250	Female	25	316825
			100	316899
			3	316903
	.250	Male	25	316925
			100	316999

AWG: 16-14 1-2 mm²

	Tab Size	Gender	Qty/Pkg	Part #
	.110	Female	100	327899
	.187	Female	100	337899
			3	317803
	.250	Female	25	317825
			100	317899
			3	317903
	.250	Male	25	317925
			100	317999

AWG: 12-10 3-5 mm²

	Tab Size	Gender	Qty/Pkg	Part #
			3	320803
	.250	Female	25	320825
			100	320899
			3	320903
	.250	Male	25	320925
			100	320999

Heat Shrink Flag Disconnects

- 90° angle simplifies wire routing and connections
- .250 (6.4mm) tab size

AWG: 22-18 0.3-0.8 mm²

	Gender	Qty/Pkg	Part #
	Female	3	356803
		25	356825

AWG: 16-14 1-2 mm²

	Gender	Qty/Pkg	Part #
	Female	3	357803
		25	357825

Universal Speaker Connector Kits

Ancor's universal speaker connector kits include all the connectors required to install speakers regardless of manufacturer. Heat shrink disconnects provide a sealed connection for the harsh marine environment.

AWG: 22-18 0.3-0.8 mm²

	Qty/Pkg	Pkg	Part #
	6	clam	SPK2218

SPK2218

6 pc Kits include:

- (2) .250 tab
- (2) .187 tab
- (2) .110 tab

AWG: 16-14 1-2 mm²

	Qty/Pkg	Pkg	Part #
	6	clam	SPK1614

SPK1614

AWG: Assorted

	Qty/Pkg	Pkg	Part #
	90	case	SPKKIT

SPKKIT

90 pc Kit includes:

- 22-18 AWG:
 - (10) .110 tab
 - (10) .187 tab
 - (10) .250 tab
- 16-14 AWG:
 - (20) .110 tab
 - (20) .187 tab
 - (20) .250 tab
- Reusable compact case

Marine Grade® Terminals

- Ancor's Marine Grade® terminals differ from automotive terminals by being designed for the harsh marine environment
- Tinned copper gives the least electrical resistance but the most corrosion protection
- Nylon insulators are easy to crimp and will not split
- Barrels are designed to tightly grip the wire with the least effort

Nylon Ring Terminals

- Nylon insulated with insulation grip
- Double crimp, funnel entry
- UL 486A

AWG: 22–18 0.3–0.8 mm²

	Screw Size	Qty/ Pkg	Part #
	#6 3.6 mm	6	230201
		25	210201
	#8 4 mm	6	230202
		25	210202
	#10 4.8 mm	100	220202
		6	230203
	#10 4.8 mm	25	210203
		100	220203
	1/4" 6.4 mm	5	230204
		25	210204
	5/16" 7.9 mm	5	230205
		25	210205
	3/8" 9.5 mm	5	230206
		25	210206

AWG: 16–14 1–2 mm²

	Screw Size	Qty/ Pkg	Part #
	#6 3.6 mm	6	230211
		25	210211
	#8 4 mm	6	230212
		25	210212
	#10 4.8 mm	100	220212
		6	230213
	#10 4.8 mm	25	210213
		100	220213
	1/4" 6.4 mm	500	222213
		5	230214
	1/4" 6.4 mm	25	210214
		100	220214
	5/16" 7.9 mm	5	230215
		25	210215
	3/8" 9.5 mm	100	220215
		5	230216
	3/8" 9.5 mm	25	210216
		100	220216

AWG: 12–10 3–5 mm²

	Screw Size	Qty/ Pkg	Part #
	#6 3.6 mm	5	230221
		25	210221
	#8 4 mm	5	230222
		25	210222
	#10 4.8 mm	100	220222
		5	230223
	#10 4.8 mm	25	210223
		100	220223
	1/4" 6.4 mm	4	230224
		25	210224
	1/4" 6.4 mm	100	220224
		4	230225
	5/16" 7.9 mm	25	210225
		100	220225
	3/8" 9.5 mm	4	230226
		25	210226
	3/8" 9.5 mm	100	220226
		3	230227
	1/2" 12.7 mm	25	210227

AWG: 8 8 mm²

AWG	Screw Size	Qty/ Pkg	Part #
#10 4.8 mm	4.8 mm	2	230233
		25	210233
		100	222233
1/4" 6.4 mm	6.4 mm	2	230234
		25	210234
		100	222234
5/16" 7.9 mm	7.9 mm	2	230235
		25	210235
		100	222235
3/8" 9.5 mm	9.5 mm	2	230236
		25	210236
		100	222236
1/2" 12.7 mm	12.7 mm	1	230237
		25	210237

AWG: 6 13 mm²

Screw Size	Qty/ Pkg	Part #
#10 4.8 mm	1	230243
	25	210243
1/4" 6.4 mm	1	230244
	25	210244
5/16" 7.9 mm	1	230245
	25	210245
3/8" 9.5 mm	1	230246
	25	210246
1/2" 12.7 mm	1	230247
	25	210247

Nylon Flanged Spades

- Nylon insulated with insulation grip
- Double crimp, funnel entry
- UL 486A

AWG: 22–18 0.3–0.8 mm²

	Screw Size	Qty/ Pkg	Part #
	#6 3.6 mm	6	230301
		25	210301
	#8 4 mm	6	230302
		25	210302
	#10 4.8 mm	6	230303
		25	210303

AWG: 16–14 1–2 mm²

	Screw Size	Qty/ Pkg	Part #
	#6 3.6 mm	6	230311
		25	210311
	#8 4 mm	6	230312
		25	210312
	#10 4.8 mm	100	220312
		6	230313
		25	210313
		100	220313

AWG: 12–10 3–5 mm²

	Screw Size	Qty/ Pkg	Part #
	#8 4 mm	5	230322
		25	210322
	#10 4.8 mm	5	230323
		25	210323
		100	220323

Nylon Single Crimp Butt Connectors

- Nylon insulated seamless
- UL 486C

AWG: 22–18 0.3–0.8 mm²

	Qty/ Pkg	Part #
	7	230100
	25	210100
	100	220100
	500	222100

AWG: 16–14 1–2 mm²

	Qty/ Pkg	Part #
	7	230110
	25	210110
	100	220110
	500	222110

AWG: 12–10 3–5 mm²

	Qty/ Pkg	Part #
	5	230120
	25	210120
	100	220120
	500	222120

Nylon Double Crimp Butt Connectors

- Nylon insulated with insulation grip
- Funnel entry
- UL 486C

AWG: 22–18 0.3–0.8 mm²

	Qty/ Pkg	Part #
	3	230161
	25	210161
	100	220161
	500	222161

AWG: 16–14 1–2 mm²

	Qty/ Pkg	Part #
	3	230162
	25	210162
	100	220162
	500	222162

AWG: 12–10 3–5 mm²

	Qty/ Pkg	Part #
	2	230163
	25	210163
	100	220163
	500	222163

Related Products

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of Conformity**



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Nylon Flag Disconnects

- .250 (6.4 mm) tab size
- Nylon insulated with insulation grip

AWG: 22–18 0.3–0.8 mm²

	Gender	Qty/ Pkg	Part #
	Female	4	231601
		25	211601

AWG: 16–14 1–2 mm²

	Gender	Qty/ Pkg	Part #
	Female	4	231611
		25	211611

AWG: 12–10 3–5 mm²

	Gender	Qty/ Pkg	Part #
	Female	3	231621
		25	211621

Nylon Fully Insulated Disconnects

- .250 (6.4 mm) tab size
- Nylon insulated with insulation grip
- Double crimp, funnel entry
- UL 310

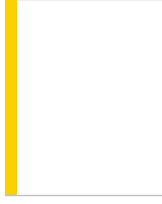
AWG: 22–18 0.3–0.8 mm²

	Gender	Qty/ Pkg	Part #
	Female	4	231408
		25	211408
		100	221408
	Male	4	231409
		25	211409
		100	221409

AWG: 16–14 1–2 mm²

	Gender	Qty/ Pkg	Part #
	Female	4	231418
		25	211418
		100	221418
	Male	4	231419
		25	211419
		100	221419

AWG: 12–10 3–5 mm²

	Gender	Qty/ Pkg	Part #
	Female	3	231428
		25	211428
		100	221428
	Male	3	231429
		25	211429
		100	221429

Nylon Disconnects

- .250 (6.4 mm) tab size
- Nylon insulated with insulation grip
- Double crimp, funnel entry
- UL 310

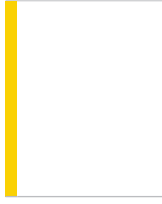
AWG: 22–18 0.3–0.8 mm²

	Gender	Qty/ Pkg	Part #
	Female	4	230808
		25	210808
		100	220808
	Male	4	230809
		25	210809
		100	220809

AWG: 16–14 1–2 mm²

	Gender	Qty/ Pkg	Part #
	Female	4	230818
		25	210818
		100	220818
	Male	4	230819
		25	210819
		100	220819

AWG: 12–10 3–5 mm²

	Gender	Qty/ Pkg	Part #
	Female	4	230828
		25	210828
		100	220828
	Male	4	230829
		25	210829
		100	220829

Nylon Multi-Stack Connectors

- .250 (6.4mm) tab size
- Nylon insulated with insulation grip
- Double crimp, funnel entry
- UL 310

AWG: 22–18 0.3–0.8 mm²

	Qty/ Pkg	Part #
	3	230602
	25	210602A
	100	220602

AWG: 16–14 1–2 mm²

	Qty/ Pkg	Part #
	3	230612
	25	210612
	100	220612

AWG: 12–10 3–5 mm²

	Qty/ Pkg	Part #
	3	230622
	25	210622
	100	220622

Nylon 3-Way Connectors

- Nylon insulated with insulation grip
- Double crimp, funnel entry



AWG	Qty/ Pkg	Part #
16-14 1-2 mm ²	1	230510
	25	210510

AWG	Qty/ Pkg	Part #
12-10 3-5 mm ²	1	230520
	25	210520

Nylon Snap Plugs

- Nylon insulated with insulation grip
- Double crimp, funnel entry

AWG: 22-18 0.3-0.8 mm²

	Gender	Qty/ Pkg	Part #
	Female	4	230709
		25	210709
	Male	4	230708
		25	210708

AWG: 16-14 1-2 mm²

	Gender	Qty/ Pkg	Part #
	Female	4	230719
		25	210719
		100	220719
	Male	4	230718
		25	210718
		100	220718

Vinyl Step Down Butt Connectors

- Vinyl insulated
- UL 486C

AWG: 16-14 to 22-18 1-2 to 0.3-0.8 mm ²	Qty/ Pkg	Part #
	3	230164
	25	210164

AWG: 12-10 to 16-14 3-5 to 1-2 mm ²	Qty/ Pkg	Part #
	3	230165
	25	210165

AWG: 8 to 12-10 8 to 3-5 mm ²	Qty/ Pkg	Part #
	3	230166
	25	210166

Vinyl Butt Connectors

- Vinyl insulated
- UL 486C

AWG: 8 8 mm ²	Qty/ Pkg	Part #
	2	230130
	25	210130

AWG: 6 13 mm ²	Qty/ Pkg	Part #
	1	230140
	25	210140

AWG: 4 21 mm ²	Qty/ Pkg	Part #
	1	230150
	25	210150

Double Male-Female Adapter

- .250 (6.4mm) tab size



Qty/ Pkg	Part #
5	230613
25	210613

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Related Products



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Tinned Copper Lugs

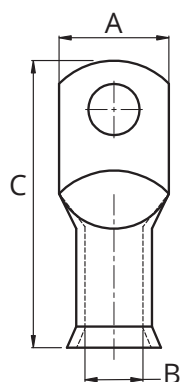
- Ancor Marine Grade® lugs are manufactured from heavy-duty annealed tinned copper, providing for maximum current flow
- 100% tin plated copper resists corrosion from salt and moisture
- Seamless barrel design allows for maximum strength when crimped
- Closed end design seals out moisture so cables stay dry and corrosion free
- UL 486A



AWG	Screw Size		Qty/ Pkg	Part #
8 8 mm ²	#10	4.8 mm	2	252233
			25	242233
			100	244233
	1/4"	6.4 mm	2	252234
			25	242234
			100	244234
	5/16"	7.9 mm	2	252235
			25	242235
			100	244235
	3/8"	9.5 mm	2	252236
			25	242236
			100	244236
6 13 mm ²	1/2"	12.7 mm	2	252237
			10	242237
			10	242237
	#10	4.8 mm	2	252243
			25	242243
			2	252244
	1/4"	6.4 mm	25	242244
			100	244244
			2	252245
	5/16"	7.9 mm	25	242245
			100	244245
			2	252246
4 21 mm ²	3/8"	9.5 mm	25	242246
			100	244246
			2	252247
	1/2"	12.7 mm	2	252247
			10	242247
			10	242247
	5/16" & 3/8"	7.9 & 9.5 mm	1/1	252241
			1/1	252241
			1/1	252241
	1/4"	6.4 mm	2	252243
			25	242243
			2	252244

AWG	Screw Size		Qty/ Pkg	Part #
4 21 mm ²	#10	4.8 mm	2	252253
			25	242253
			2	252254
	1/4"	6.4 mm	25	242254
			100	244254
			2	252255
	5/16"	7.9 mm	25	242255
			100	244255
			2	252256
	3/8"	9.5 mm	25	242256
			100	244256
2 34 mm ²	1/2"	12.7 mm	2	252257
			10	242257
			10	242257
	5/16" & 3/8"	7.9 & 9.5 mm	1/1	252251
			1/1	252251
			1/1	252251
	1/4"	6.4 mm	2	252264
			25	242264
			2	252265
	5/16"	7.9 mm	25	242265
			100	244265
1 42 mm ²	3/8"	9.5 mm	2	252266
			25	242266
			100	244266
	1/2"	12.7 mm	2	252267
			10	242267
			10	242267
	5/16" & 3/8"	7.9 & 9.5 mm	1/1	252261
			1/1	252261
			1/1	252261
	1/4"	6.4 mm	2	252274
			25	242274
			2	252275

AWG	Screw Size		Qty/ Pkg	Part #	
1/0 53 mm ²	1/4"	6.4 mm	2	252284	
			25	242284	
	5/16"	7.9 mm	2	252285	
			25	242285	
			100	244285	
			2	252286	
	3/8"	9.5 mm	25	242286	
			100	244286	
	1/2"	12.7 mm	2	252287	
			10	242287	
2/0 68 mm ²	1/4"	6.4 mm	2	252294	
			25	242294	
	5/16"	7.9 mm	2	252295	
			25	242295	
			100	244295	
			2	252296	
	3/8"	9.5 mm	25	242296	
			100	244296	
	1/2"	12.7 mm	2	252297	
			10	242297	
3/0 85 mm ²	5/16"	7.9 mm	2	252715	
			10	242715	
	3/8"	9.5 mm	2	252716	
			10	242716	
	1/2"	12.7 mm	2	252717	
			10	242717	
	4/0 107 mm ²	5/16"	7.9 mm	2	252725
				10	242725
				100	244725
				2	252726
3/8"		9.5 mm	10	242726	
			100	244726	
1/2"		12.7 mm	2	252727	
			10	242727	

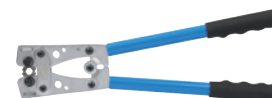


Lug Dimensions

AWG	A	B	C
8	0.465"	0.190"	1.313"
6	0.540"	0.232"	1.512"
4	0.545"	0.280"	1.606"
2	0.650"	0.336"	1.622"-1.772"
1	0.645"	0.360"	1.718"-1.845"
1/0	0.725"	0.410"	1.845"

AWG	A	B	C
2/0	0.825"	0.460"	2.236"-2.268"
3/0	0.910"	0.510"	2.323"
4/0	1.015"	0.560"	2.563"

Related Products



Crimping Tools
pages 59-61



90° Tinned Copper Lugs

90° bend for ease of wire routing

AWG	Screw Size		Qty/ Pkg	Part #
6 13 mm ²	5/16"	7.9 mm	2	262245
	3/8"	9.5 mm	2	262246
4 21 mm ²	5/16"	7.9 mm	2	262255
	3/8"	9.5 mm	2	262256
2 34 mm ²	5/16"	7.9 mm	2	262265
	3/8"	9.5 mm	2	262266
1 42 mm ²	5/16"	7.9 mm	2	262275
	3/8"	9.5 mm	2	262276
1/0 53 mm ²	5/16"	7.9 mm	2	262285
	3/8"	9.5 mm	2	262286
2/0 68 mm ²	5/16"	7.9 mm	2	262295
	3/8"	9.5 mm	2	262296
3/0 85 mm ²	5/16"	7.9 mm	2	262715
	3/8"	9.5 mm	2	262716
4/0 107 mm ²	5/16"	7.9 mm	2	262725
	3/8"	9.5 mm	2	262726



**Declaration
of Conformity**

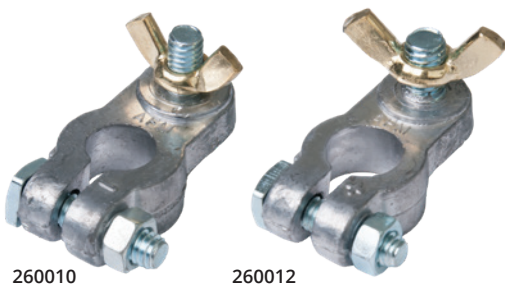


Heavy-duty Butt Connectors

100% Tinned Copper

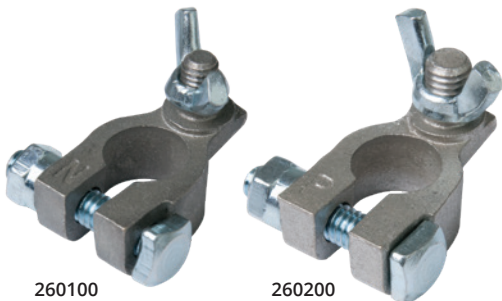
AWG		Qty/ Pkg	Part #
8	8 mm ²	2	252130
		25	242130
6	13 mm ²	2	252140
		25	242140
4	21 mm ²	2	252150
		25	242150
2	34 mm ²	2	252160
		25	242160
1	42 mm ²	2	252170
		25	242170
1/0	53 mm ²	2	252180
		25	242180
2/0	68 mm ²	2	252190
		25	242190





Tinned Brass Battery Terminals

Description	Positive/ Negative	Stud Size	Qty/ Pkg	Part #
Wing Nut	Negative	5/16" (8 mm)	1	260010
Style Yellow	Positive	3/8" (10 mm)	1	260012
Brass Nut	Pos/Neg	5/16" & 3/8" (8 & 10 mm)	1/1	260322



Lead Battery Terminals

Description	Positive/ Negative	Stud Size	Qty/ Pkg	Part #
Wing Nut	Negative	5/16" (8 mm)	1	260100
Style Yellow	Positive	3/8" (10 mm)	1	260200
Brass Nut	Pos/Neg	5/16" & 3/8" (8 & 10 mm)	1/1	260325



Battery Terminal Boots

Description	Size	Color	Qty/ Pkg	Part #
Wing Nut Style	4 & 2 (19 & 32 mm²)	Black/Red	1/1	260350
Right Angle	8-2 (8-32 mm²)	Red	1	260381

Spec Sheet





Battery Clips

Color	Size	Qty/ Pkg	Part #
Red/Black	10A	1/1	260505



Battery Terminal Cleaner

- High impact construction
- Wide, easy grip
- Excellent for hard-to-reach batteries

Part # 700103



Dielectric Silicone Compound

- Fights oxidation to improve conductivity
- Penetrates aluminum oxide to maintain current paths
- Temperature rated at 40° to 500°F / 4°C to 260°C
- 1/3 oz tube

Part # 700115

[Spec Sheet](#)

WIRE MANAGEMENT

46

Adhesive Lined Heat Shrink Tubing



Ancor uses crosslinked polyolefin material for its superior strength and burn resistance. A heat activated adhesive lining creates an impervious seal and provides strain relief.

48

Repair & Electrical Tape



A wide range of repair tape and electrical tape in multiple colors.

54

Wire Seals



Overlapping clamping spines allow for superior pull-out resistance and protection. Strain relief fittings are resistant to salt water, acids, oil, and are not corrosive for marine applications.

54

Grommets



Provides abrasion resistance for wires passing through panel holes. Flexible construction makes installation simple.

WIRE MANAGEMENT

49

Cable Ties



Ancor offers a wide variety of materials, sizes and styles including the innovative Self-Cutting Cable Tie which is now available in a mounting version.

53

Cable Clamps



Stainless steel and Nylon cable clamps are corrosion resistant for marine applications. They absorb shock and vibrations; reducing unwanted noise.

54

Split Loom & Spiral Wrap



Allows flexible routing of cable harnesses and provides abrasion resistance for wire and cable.

55

Wire Management Kits



Ancor offers a wide variety of preassembled kits for all of your wire management projects.

Wire management is integral in making sure that wires and connections are kept organized and protected per ABYC

Adhesive Lined Heat Shrink Tubing (ALT)

- Cross Linked polyolefin tubing is much stronger than PVC tubing and will not burn like PVC
- Heat activated adhesive lining provides impervious seal to salt water, oil, acids, and sunlight as well as providing strain relief
- Highest shrink ratio - shrinks to 1/3 original size
- Shrinks at 257°F / 125°C
- Operating temperature range of -40°F to 230°F / -40°C to 110°C



Wire Range	ALT Dia	Color	Length	Qty/ Pkg	Part #
<18 AWG <0.8 mm ²	<1/8" <3.2 mm	Black	3"	7.6 cm	3 301103
			6"	15.2 cm	10 301106
			12"	30.5 cm	10 301124
			48"	122 cm	1 301148
20-12 AWG 0.5-3 mm ²	3/16" 4.8 mm	Black	3"	7.6 cm	3 302103
			6"	15.2 cm	10 302106
			12"	30.5 cm	10 302124
			48"	122 cm	1 302148
	Red	Red	3"	7.6 cm	3 302603
			6"	15.2 cm	10 302606
			12"	30.5 cm	10 302624
			48"	122 cm	1 302648
16-10 AWG 1-5 mm ²	1/4" 6.4 mm	Black	3"	7.6 cm	3 303103
			6"	15.2 cm	10 303106
			12"	30.5 cm	10 303124
			48"	122 cm	1 303148
	Black/Red	Black/Red	3"	7.6 cm	1/1 303602
			6"	15.2 cm	5 303603
			12"	30.5 cm	10 303624
			48"	122 cm	1 303648
12-8 AWG 3-8 mm ²	3/8" 9.5 mm	Black	3"	7.6 cm	3 304103
			6"	15.2 cm	5 304106
			12"	30.5 cm	5 304124
			48"	122 cm	1 304148
	Black/Red	Black/Red	3"	7.6 cm	1/1 304602
			6"	15.2 cm	5 304603
			12"	30.5 cm	5 304624
			48"	122 cm	1 304648
8-4 AWG 8-19 mm ²	1/2" 12.7 mm	Black	3"	7.6 cm	3 305103
			6"	15.2 cm	5 305106
			12"	30.5 cm	5 305124
			48"	122 cm	1 305148
	Black/Red	Black/Red	3"	7.6 cm	1/1 305602
			6"	15.2 cm	5 305603
			12"	30.5 cm	5 305624
			48"	122 cm	1 305648

Wire Range	ALT Dia	Color	Length	Qty/ Pkg	Part #
8-2/0 AWG 13-62 mm ²	3/4" 19 mm	Black	3"	7.6 cm	3 306103
			6"	15.2 cm	4 306106
			12"	30.5 cm	4 306124
			48"	122 cm	1 306148
		Black/Red	3"	7.6 cm	1/1 306602
			6"	15.2 cm	3 306603
			12"	30.5 cm	4 306606
			48"	122 cm	1 306624
		Red	3"	7.6 cm	3 306648
			6"	15.2 cm	4 306606
			12"	30.5 cm	4 306624
			48"	122 cm	1 306648
2-4/0 AWG 32-103 mm ²	1" 25.4 mm	Black	3"	7.6 cm	3 306903
			6"	15.2 cm	4 306906
			12"	30.5 cm	4 306924
			48"	122 cm	1 306948
		Black/Red	3"	7.6 cm	3 307103
			6"	15.2 cm	3 307106
			12"	30.5 cm	3 307124
			48"	122 cm	1 307148
		Red	3"	7.6 cm	1/1 307602
			6"	15.2 cm	3 307603
			12"	30.5 cm	3 307606
			48"	122 cm	1 307624
		Yellow	3"	7.6 cm	3 307903
			6"	15.2 cm	4 307906
			12"	30.5 cm	4 307924
			48"	122 cm	1 307948
		Black	3"	7.6 cm	3 307103
			6"	15.2 cm	3 307106
			12"	30.5 cm	3 307124
			48"	122 cm	1 307148

Kits

Wire Range	ALT Dia	Color	Length	Qty/ Pkg	Part #
20-2/0 AWG .5-62 mm ²	3/16"-3/4" 4.8-19 mm	Black	3"	7.6 cm	8 301503
			6"	15.2 cm	8 301506
12-8 AWG 3-8 mm ²	3/8" 9.5 mm	Assorted (yw, wh, bl, gr, rd)	3"	30.5 cm	5 304503
			6"	122 cm	5 304506
8-2/0 AWG 8-62 mm ²	3/4" 19 mm	Assorted (yw, wh, bl, gr)	3"	7.6 cm	4 306503

Adhesive Lined Tubing Specifications (3:1 ratio)

Size	Shrinks to	Wire Range (AWG)
1/8" 3.2 mm	1/32" 0.8 mm	<18 < 0.8 mm ²
3/16" 4.8 mm	1/16" 1.6 mm	20-12 0.5-3 mm ²
1/4" 6.4 mm	5/64" 2 mm	16-10 1-5 mm ²
3/8" 9.5 mm	1/8" 3.2 mm	12-8 3-8 mm ²
1/2" 12.7 mm	5/32" 4 mm	8-4 8-19 mm ²
3/4" 19 mm	1/4" 6.4 mm	8-2/0 13-62 mm ²
1" 25.4 mm	5/16" 7.9 mm	2-4/0 32-103 mm ²

Related Products



Nylon terminals
page 36



Heat Tools
page 62

Adhesive Lined Heavy Wall Battery Cable Tubing (BCT)

- 3:1 ratio
- Shrinks at 257°F / 125°C
- UL 224



BCT Dia.	BCT Color	Length		Qty/ Pkg	Part #
3/4" 19 mm	Black	3"	7.6 cm	3	326103
		6"	15.2 cm	3	326106
		12"	30.5 cm	3	326124
		48"	122 cm	1	326148
	Black/Red	3"	7.6 cm	1/1	326202
		3"	7.6 cm	3	326603
	Red	6"	15.2 cm	3	326606
		12"	30.5 cm	3	326624
		48"	122 cm	1	326648

BCT Dia.	BCT Color	Length		Qty/ Pkg	Part #
1" 25 mm	Black	3"	7.6 cm	2	327103
		6"	15.2 cm	2	327106
		12"	30.5 cm	2	327124
		48"	122 cm	1	327148
	Black/Red	3"	7.6 cm	1/1	327202
		3"	7.6 cm	2	327603
	Red	6"	15.2 cm	2	327606
		12"	30.5 cm	2	327624
		48"	122 cm	1	327648

Adhesive Lined Heavy Wall Tubing Specifications (3:1 ratio)

Size	Shrinks to	Wire Range (AWG)	
3/4" 19 mm	1/4" 6 mm	8-2/0	13-62 mm²
1" 25 mm	3/8" 9 mm	2-4/0	32-103 mm²



TECH TIP

Properly Shrinking Heat Shrink Tubing

To properly shrink heat shrink tubing, start by selecting a heat source that will apply the appropriate temperature. Heat shrink tubing will state the shrink temperature, while heat tools are rated based on flame temperatures. Once a heat tool is selected, apply heat gradually to avoid shrinking the tubing inconsistently or burning the tubing. Additionally, continually moving the heat source along the length of the tube will reduce the likelihood of burning the tubing during installation.

Related Products



Lugs
page 40



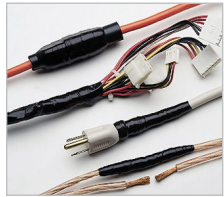
Heat Tools
page 62

Repair Tape

Repair tape fuses only to itself when applied under tension. No sticky residue remains on wrapped surfaces.

- Operates and remains flexible from -60°F to 500°F / -51°C to 260°C
- Stretches up to 300% its original length with 60 ppi tear strength
- A permanent air and water tight seal
- Excellent UV resistance
- Begins to bond immediately on contact with itself

Color	Length	Part #	Pkg Qty
Black	1"x10'	341010	1/roll
Clear	1"x10'	343010	1/roll
Red	1"x10'	346010	1/roll
White	1"x10'	347010	1/roll



Premium Electrical Tape

Quality electrical tape designed for general purpose electrical applications.

- Made from low-lead 7-mil PVC material
- For applications up to 600V
- Temp rating up to 176°F / 80°C
- UV and moisture resistant

Color	Length	Part #	Pkg Qty
Black	3/4"x66'	331066	1/roll
Red	3/4"x66'	336066	1/roll
White	3/4"x66'	337066	1/roll
Assorted (1 ea of black, red, white, green & yellow)	1/2"x20'	339066	5/roll



Cable Ties

Ancor offers a wide variety of materials, styles, and sizing options.

With a unique design and high-quality construction, Ancor cable ties provide a great solution for bundling wire, cable, hoses, cords, and countless other applications.



Standard Cable Ties

Length	Color	Unit Qty	Part #		Bundle Dia Max	Tensile Strength
4"	natural	25	199200	yes	13/16"	18 lbs
		100	199201	yes	13/16"	18 lbs
	UVB*	25	199202	yes	13/16"	18 lbs
		100	199203	yes	13/16"	18 lbs
6"	natural	25	199246	yes	1-3/8"	40 lbs
		100	199247	yes	1-3/8"	40 lbs
	UVB*	25	199248	yes	1-3/8"	40 lbs
		100	199249	yes	1-3/8"	40 lbs
8"	natural	25	199204	yes	2"	75 lbs
		100	199205	yes	2"	75 lbs
	UVB*	25	199206	yes	2"	75 lbs
		100	199207	yes	2"	75 lbs
11"	natural	25	199208	yes	3"	75 lbs
		100	199209	yes	3"	75 lbs
	UVB*	25	199210	yes	3"	75 lbs
		100	199211	yes	3"	75 lbs
14"	natural	25	199212	yes	4"	75 lbs
		100	199213	yes	4"	75 lbs
	UVB*	25	199214	yes	4"	75 lbs
		100	199215	yes	4"	75 lbs

* UV Resistant

LEARN MORE
Cable Ties Video



Visit Ancor Products
on YouTube.com



Heavy-duty Cable Ties

Length	Color	Unit Qty	Part #		Bundle Dia Max	Tensile Strength
15"	UVB*	25	199259	yes	4"	124 lbs
		100	199260	yes	4"	124 lbs
17"	natural	10	199216	yes	5"	180 lbs
	UVB*	10	199217	yes	5"	180 lbs
24"	natural	10	199218	yes	7"	180 lbs
	UVB*	10	199219	yes	7"	180 lbs
36"	natural	10	199220	yes	11"	180 lbs
	UVB*	10	199221	yes	11"	180 lbs
48"	natural	10	199222	yes	14-7/10"	180 lbs
	UVB*	10	199223	yes	14-7/10"	180 lbs

* UV Resistant

Related Products



Diagonal
Cutting Pliers
page 63



Mounting Bases
page 50

Mounting Cable Ties



Length	Color	Unit Qty	Part #		Bundle Dia Max	Tensile Strength
4"	UVB*	25	199245	yes	3/4"	18 lbs
	natural	25	199250	yes	1-3/8"	40 lbs
		100	199251	yes	1-3/8"	40 lbs
6"	UVB*	25	199252	yes	1-3/8"	40 lbs
		100	199253	yes	1-3/8"	40 lbs
	natural	25	199226	yes	2"	50 lbs
8"		100	199227	yes	2"	50 lbs
	UVB*	25	199228	yes	2"	50 lbs
		100	199229	yes	2"	50 lbs
14"	natural	25	199230	yes	4"	50 lbs
	UVB*	25	199257	yes	4"	50 lbs
		100	199258	yes	4"	50 lbs

* UV Resistant

LEARN MORE
Cable Ties Video



Visit Ancor Products
on YouTube.com



199224

199261

199225

Cable Tie Kits

Length	Description	Unit Qty	Part #		Bundle Dia Max	Tensile Strength
8"	assorted colors	24	199224	yes	2"	75 lbs
4", 6", 8"	natural/UVB*	25	199261	yes	13/16", 2"	18, 40, 75 lbs
4", 6", 8"	natural color	500	199225	yes	13/16", 1-1/2", 2"	18, 40, 75 lbs

* UV Resistant

▲ DoubleLock™ on 6" and 8" ties only

Low Profile/Hose Cable Ties

- Reduced head height and contour design conforms to the shape of the wire bundle or hose
- Round design and side tail entry creates a round shape optimal for hoses
- Trimmed tail retracts into cavity leaving a clean, low profile installation
- Tamper-proof pawl is inaccessible after installation
- 50 lbs tensile strength exceeds industry standards



Length	Color	Unit Qty	Part #	Tensile Strength
8"	UVB*	20/bag	199324	50 lbs
		100/bag	199325	50 lbs
11"	UVB*	20/bag	199328	50 lbs
		100/bag	199329	50 lbs

* UV Resistant



Screw Mounting Bases

- #8 bases, 7/10" x 1/2"
- #10 bases, 1" x 5/8"

Description	Unit Qty	Part #
#8 screw, natural	25	199231
	100	199232
#10 screw, natural	25	199262
	100	199263



199262

Adhesive Lined Mounting Bases

- 1" x 1"

Description	Unit Qty	Part #
Natural	5	199233
	25	199234
UVB*	5	199235
	25	199236

* UV Resistant

199233



199235

Self-cutting Cable Ties

Save time and frustration using the latest innovation from Ancor, a self-cutting cable tie. Simply lock and twist to finish the job, with no need for additional tools! Integrated stainless steel blade leaves a clean flush cut, which improves appearance and eliminates the sharp tail while maintaining a tensile strength above industry standards.



Standard Self-cutting Cable Ties

Length	Color	Unit Qty	Part #	Tensile Strength
4"	Natural	50/bag	199333	35 lbs
		500/bag	199334	35 lbs
	UVB*	50/bag	199336	35 lbs
		500/bag	199337	35 lbs
6"	Natural	50/bag	199339	35 lbs
		500/bag	199340	35 lbs
	UVB*	50/bag	199342	35 lbs
		500/bag	199343	35 lbs
8"	Natural	20/bag	199274	50 lbs
		50/bag	199275	50 lbs
		500/bag	199267	50 lbs
	UVB*	20/bag	199276	50 lbs
		50/bag	199277	50 lbs
		500/bag	199264	50 lbs
11"	Natural	20/bag	199278	50 lbs
		50/bag	199279	50 lbs
		500/bag	199268	50 lbs
	UVB*	20/bag	199280	50 lbs
		50/bag	199281	50 lbs
		500/bag	199265	50 lbs
14"	Natural	20/bag	199282	50 lbs
		50/bag	199283	50 lbs
		500/bag	199269	50 lbs
	UVB*	20/bag	199284	50 lbs
		50/bag	199285	50 lbs
		500/bag	199266	50 lbs

* UV Resistant



Heavy-duty Self-cutting Cable Ties

Length	Color	Unit Qty	Part #	Tensile Strength
15"	Natural	20/bag	199320	120 lbs
		100/bag	199321	120 lbs
	UVB*	20/bag	199318	120 lbs
		100/bag	199319	120 lbs
17"	Natural	10/bag	199323	120 lbs
	UVB*	10/bag	199322	120 lbs

* UV Resistant

NO TOOLS.
JUST TWIST!



LEARN MORE
Cable Ties Video



Visit Ancor Products
on YouTube.com



TECH TIP

Wire Bundling Per ABYC Guidelines

ABYC states: "Conductors shall be supported throughout their length or shall be secured at least every 18 inches (455mm) by one of the following methods:

- By means of non-metallic clamps sized to hold the conductors firmly in place. The material shall be resistant to oil, gasoline, and water and shall not break or crack within a temperature range of 30°F (-34°C) to 250°F (121°C)

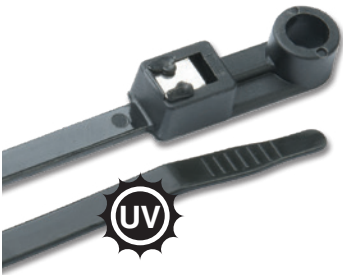
All of Ancor's cable ties are resistant to oil, gasoline, and water and are rated for use within the ABYC specified range.

Sell Sheet

Related Products



Mounting Bases
page 50



Sell Sheet

Mounting Self-cutting Cable Ties

Length	Color	Unit Qty	Part #	Tensile Strength
8"	Natural	20/bag	199309	50 lbs
		50/bag	199310	50 lbs
		500/bag	199311	50 lbs
	UVB*	20/bag	199300	50 lbs
		50/bag	199301	50 lbs
		500/bag	199302	50 lbs
11"	Natural	20/bag	199312	50 lbs
		50/bag	199313	50 lbs
		500/bag	199314	50 lbs
	UVB*	20/bag	199303	50 lbs
		50/bag	199304	50 lbs
		500/bag	199305	50 lbs
14"	Natural	20/bag	199315	50 lbs
		50/bag	199316	50 lbs
		500/bag	199317	50 lbs
	UVB*	20/bag	199306	50 lbs
		50/bag	199307	50 lbs
		500/bag	199308	50 lbs

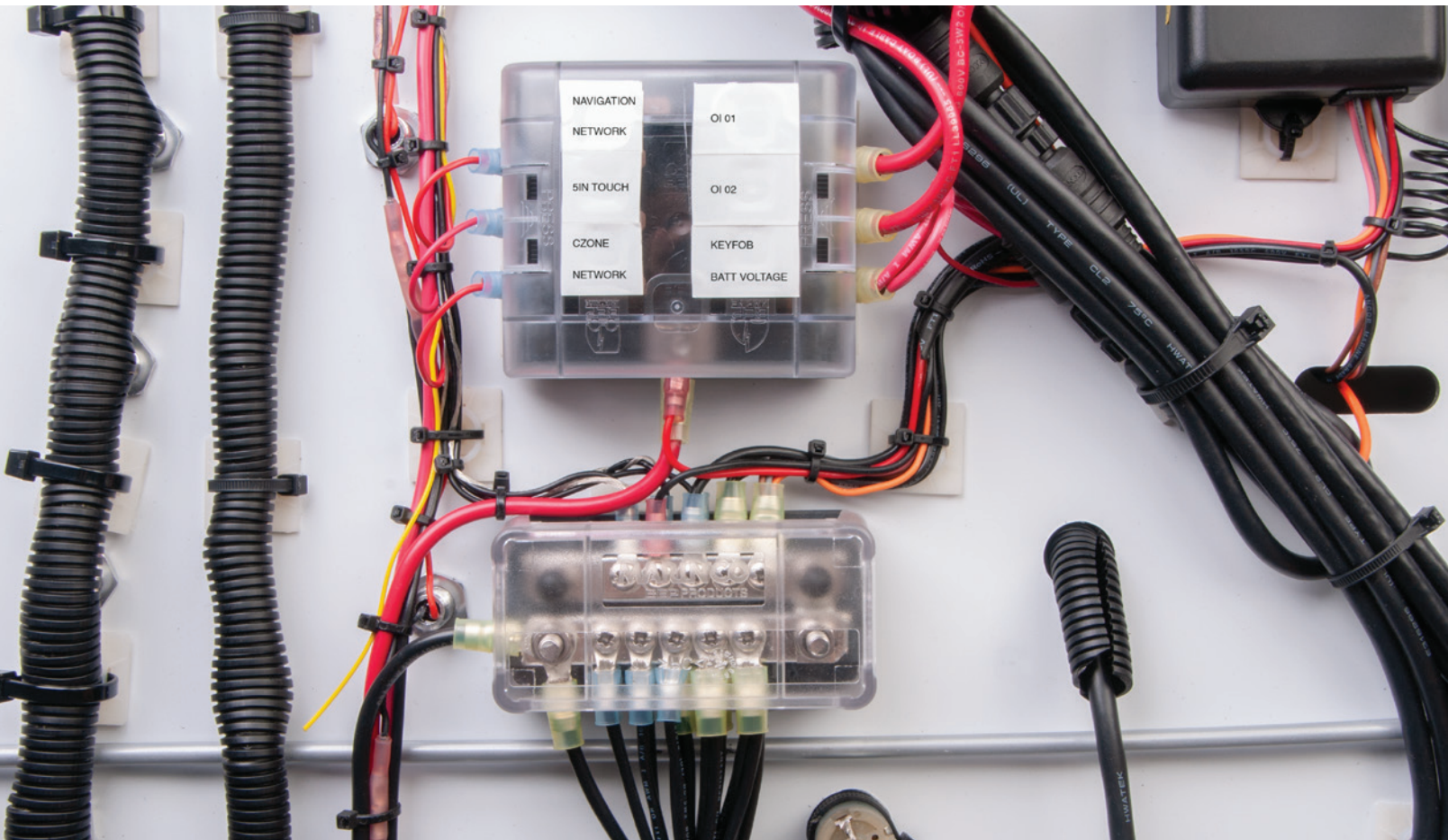
* UV Resistant

TECH TIP

Cable Ties and Moisture

To prevent brittleness and cracking, a certain amount of moisture is incorporated into the Nylon 6/6 material that makes cable ties. Over time, this added moisture can evaporate; especially in dry conditions with low relative humidity. The following steps will help cable ties maintain their pliability and tensile strength:

- Cable ties should be stored in the manufacturer's original packaging until ready for use.
- Partial cable tie bags should be closed or sealed if at all possible. Several drops of water can be added to the bag to provide moisture.
- Cable ties should not be stored in an unheated warehouse or similar location.
- Cable ties inventory should be rotated frequently and used within one year of purchase.



Stainless Steel Cushion Clamps

- Prevents corrosion
- Resistant to oils, acids, salt water
- Temperatures range from -50° to 300°F / -46°C to 149°C
- Absorbs shock and vibration
- Reduces unwanted noise
- 1/4" clearance mounting hole
- 304 stainless steel



TECH TIP

Wire Bundling per ABYC Guidelines

ABYC states: Conductors shall be supported throughout their length or shall be secured at least every 18 inches (455mm) by one of the following methods:

- By means of non-metallic clamps sized to hold the conductors firmly in place. The material shall be resistant to oil, gasoline, and water and shall not break or crack within a temperature range of 30°F to 250°F (-34°C to 121°C)
- By means of metal clamps lined with an insulating material resistant to the effects of oil, gasoline, and water

All of Ancor's cable clamps are resistant to oil, gasoline, and water and are rated for use within the ABYC specified range. Stainless steel cushion clamps are designed to perform within a wider temperature range and provide additional shock, vibration and noise protection compared to nylon cable clamps.

Nominal I.D.	Qty/ Pkg	Part #	Band Thickness	Width w/ Cushion	Screw Size
3/16"	5 mm	10	403182	0.04	3/8" 10 mm #8 4 mm
1/4"	6 mm	10	403252	0.04	3/8" 10 mm #8 4 mm
5/16"	8 mm	10	403312	0.04	3/8" 10 mm #8 4 mm
3/8"	10 mm	10	403372	0.04	3/8" 10 mm #8 4 mm
1/2"	13 mm	10	403502	0.06	1/2" 13 mm #10 5 mm
9/16"	14 mm	10	403562	0.06	1/2" 13 mm #10 5 mm
5/8"	16 mm	10	403622	0.06	1/2" 13 mm #10 5 mm
3/4"	19 mm	10	403752	0.06	1/2" 13 mm #10 5 mm
7/8"	22 mm	10	403872	0.06	1/2" 13 mm #10 5 mm
1"	25 mm	10	403892	0.06	1/2" 13 mm #10 5 mm
1-1/4"	32 mm	10	403902	0.06	1/2" 13 mm #10 5 mm
1-1/2"	38 mm	10	404152	0.06	1/2" 13 mm #10 5 mm
1-3/4"	44 mm	10	404172	0.06	1/2" 13 mm #10 5 mm
2"	51 mm	10	404202	0.06	1/2" 13 mm #10 5 mm
2-1/2"	64 mm	10	404252	0.06	1/2" 13 mm #10 5 mm
3"	76 mm	10	404302	0.06	1/2" 13 mm #10 5 mm
3-1/2"	89 mm	10	404352	0.06	1/2" 13 mm #10 5 mm

#8 = 0.167" / #10 = 0.203"

Nylon Cable Clamps

- Made from nylon for maximum strength
- Resistant to solvents, oils, acids and moisture
- Absorbs shock and vibration; reduces unwanted noise



Nominal I.D.	Color	Qty/ Pkg	Part #
1/8"	3 mm	Natural	25 401122
3/16"	5 mm	Natural	25 401182
			6 401251
1/4"	6 mm	Natural	25 401252
			100 401255
	UV Black	25	402252
5/16"	7 mm	Natural	25 401312
	UV Black	25	402312
			25 401372
3/8"	9 mm	Natural	100 401375
	UV Black	25	402372
7/16"	11 mm	Natural	25 401432
			25 401502
1/2"	12 mm	UV Black	25 402502

Nominal I.D.	Color	Qty/ Pkg	Part #
5/8"	15 mm	Natural	25 401622
		UV Black	25 402622
3/4"	19 mm	Natural	25 401752
		UV Black	25 402752
1"	25 mm	Natural	25 401892
		UV Black	25 402892
1-1/4"	32 mm	Natural	25 401912
1-1/2"	38 mm	Natural	25 401932

Kit

- (9) of each 1/8", 3/16", 1/4", 5/16", 3/8" & 1/2"

Nominal I.D.	Color	Qty/ Pkg	Part #
1/8"-1/2"	3-12 mm	Natural	54 400000

Wire Seals

- Made of Nylon 6/6 flame resistant, self extinguishing Buna-N form seal
- All seals exceed NEMA Type 4X and Type 6 specs
- Overlapping clamping spines allow for superior pull-out protection and resistance
- Strain relief fittings are resistant to salt water, acids, alkalis, alcohol, oils and are non-corrosive for use in the marine environment
- Good underwater to 300 feet / 91.4 m (150 PSIG) provided there is a liquid tight seal between body and housing
- Provide low cost cable entries into panels and junction boxes
- UL 94 v-0



Description	For Use with	Thread Size	Cable Range	Clearance Hole	Body Length	Thread Length	Qty/ Pkg	Part #
Round Cable	18-10 AWG	3/8" NPT	.08"- .24" 2-6 mm	.68"	.87"	.59"	1	764998
Round Cable	10-2 AWG	1/2" NPT	.20"- .47" 5-12 mm	.83"	1.06"	.51"	1	765000
Round or Flat Cable	4-1, 14/3-12/3 & 12/2-10/2 AWG	1/2" NPT	.24"- .55" 6-14 mm	.83"	1.10"	.51"	1	765002
Round Cable	1-3/0 AWG	3/4" NPT	.51"- .71" 13-18 mm	1.05"	1.22"	.51"	1	765004
Round Cable	4/0 AWG	1" NPT	.71"- .98" 18-25 mm	1.35"	1.53"	.75"	1	765006
Flat Cable	14/3-12/3 & 10/2	1/2" NPT	.31"- .56" 8-14 mm	.83"	1.10"	.51"	1	765010
Flat Cable	12/3	3/4" NPT	.31"- .56" 8-14 mm	1.05"	1.22"	.51"	1	765012

Grommets

- Provide instant abrasion resistance to wires passing through panel holes
- Flexible black vinyl makes installation simple

Hole Size	Inside Diameter	Panel Width	Qty/ Pkg	Part #
3/8" 10 mm	1/4" 6 mm	3/32" 2 mm	5	760375
1/2" 13 mm	3/8" 10 mm	3/32" 2 mm	5	760500
1/4-3/4" Assortment Combo Pack (10 each of 1/4", 5/16", and 3/8", 5 each of 1/2", 11/16", and 3/4")			45	750000



Spiral Wrap & Split Loom

- Permits flexible routing of cable harnesses
- Provides abrasion protection for wire and cable
- Allows lead outs at any point for greatest ease of installation
- Split loom temperature range is -40°F to 275°F / -40°C to 135°C



Marine Grade® Spiral Wrap

Diameter	Ft/Pkg	Part #	Bundle Range	
			Min	Max
1/4" 6 mm	10'	452251	3/16" 4.8 mm	2" 5 cm
3/8" 10 mm	10'	452381	5/16"	3"
	100'	452385	8 mm	7.6 cm
1/2" 13 mm	10'	452501	25/64"	4"
	100'	452505	10 mm	10.2 cm
3/4" 19 mm	10'	452751	3/4"	5"
	100'	452755	19 mm	12.7 cm
1" 25 mm	5'	452900	1"	7"
	100'	452905	25 mm	17.8 cm

TECH TIP

Wire Bundling per ABYC Guidelines

ABYC states: "Conductors that may be exposed to physical damage shall be protected by loom, conduit, tape, raceways, or other equivalent protection. When AC and DC conductors are run together, the AC conductors shall be sheathed, bundled, or otherwise kept separate from the DC conductors. Loom used to cover conductors shall be self-extinguishing. The base product (or resin) shall be classified as V-2 or better, in accordance with UL 94, Tests For Flammability Of Plastic Materials."



Self-extinguishing Split Loom

Diameter	Ft/Pkg	Part #
3/8" 10 mm	10'	453382
	100'	453386
1/2" 13 mm	10'	453502
	100'	453506
3/4" 19 mm	10'	453752
	100'	453756
1" 25 mm	5'	453901
	100'	453906

Wire Management Kits



160 Piece Heat Shrink Connectors and Terminals Kit

Butt Connectors

- (10) 22-18 AWG, (20) 16-14 AWG, (10) 12-10 AWG

Ring Terminals

- (15) 22-18 AWG #10, (15) 16-14 AWG #8, (15) 16-14 AWG #10, (15) 16-14 AWG 1/4", (10) 12-10 AWG #10, (10) 12-10 AWG 1/4", (10) 12-10 AWG 3/8"

Disconnects

- (20) 16-14 AWG female, (10) 16-14 AWG male

Part # 320101



440 Piece Nylon Connectors and Terminals Kit

Butt Connectors

- (40) 22-18 AWG, (75) 16-14 AWG, (40) 12-10 AWG

Ring Terminals

- (25) 22-18 AWG #8, (25) 16-14 AWG #8, (50) 16-14 AWG #10, (25) 12-10 AWG #8, (25) 12-10 AWG #10

Disconnects

- (50) 16-14 AWG fully insulated female, (30) 16-14 AWG fully insulated male, (25) 16-14 AWG female, (30) 16-14 AWG male

Part # 250101



100 Piece Tinned Copper Lug Kit

- (10) 8 AWG, 5/16", (10) 8 AWG, 3/8"
- (10) 6 AWG, 5/16", (10) 6 AWG, 3/8"
- (10) 4 AWG, 5/16", (10) 4 AWG, 3/8"
- (10) 2 AWG, 5/16", (10) 2 AWG, 3/8"
- (5) 1/0 AWG, 5/16", (5) 1/0 AWG, 3/8"
- (5) 2/0 AWG, 5/16", (5) 2/0 AWG, 3/8"

Part # 255101



47 Piece Adhesive Lined Heat Shrink Tubing Kit

Black

- (10) 3/16" x 6"
- (10) 1/4" x 6"
- (10) 3/8" x 6"
- (5) 1/2" x 6"
- (3) 3/4" x 3"
- (3) 1" x 3"

Red

- (3) 3/4" x 3"
- (3) 1" x 3"

Part # 330101



Promotional Storage Rack

Part # P33407

Individual Empty Trays

Part # P33406 6 compartment

Part # P33412 12 compartment



Premium Connector Kit

- Nylon insulated with insulation grip
- Double crimp, funnel entry
- Kit includes assorted butt connectors, ring terminals, spade terminals, and disconnects (18-10 AWG)

Part # 220003 120 pcs

TOOLS & TESTERS

58

Cut/Strip/Crimp Tools



Ancor offers a broad range of wire management and termination tools for all of your wiring projects.

59

Crimpers



Ancor offers other speciality tools to provide users with everything needed for any project.



TOOLS & TESTERS

62

Heat Tools



Ancor offers a range of heat tools, including the new dual setting heat gun, that are perfect for multiple projects from heat shrink tubing to paint stripping.

63

Pliers and Screwdrivers



Insulated pliers and screw drivers for added safety when working on an electrical project.

64

Digital Multimeters



Multimeters to suit any electrical testing requirements.

Every installation requires quality tools and testing devices to ensure quick projects and larger refits can be accomplished accurately and to ABYC standards.



Wire & Cable Cutter

- Steel forged blades easily cut 22 AWG to 2/0 AWG copper wire and cable
- Contoured cushion grips for comfort and ease of use
- Length: 9.25" (23.5 cm)

Part # 703005



Heavy-duty Wire & Cable Cutter

- Steel forged blades easily cut up to 350MCM (2 sizes larger than 4/0 AWG) copper wire and cable
- Strong fiberglass handles with thermoplastic rubber grips for comfort and slip resistance
- Length: 17.5" (44.4 cm)

Part # 703006



Heavy-duty Wire Scissors

- Corrosion resistant stainless steel blades
- Ergonomic overmolded handles for comfort and safety
- Cut wire up to 6 AWG (13 mm²)
- Includes safety holster with belt clip
- Length: 5.9" (15 cm)

Part # 703007



Cut/Strip Tool

- Precision ground cutter and stripping stations
- Strips wire from 24 AWG to 10 AWG (0.5 to 2.6 mm²)
- Length: 6.6" (16.7 cm)

Part # 702008



Cut/Strip/Crimp Tool

- Precision ground cutters and stripping station
- Capacity: Crimps 22 AWG to 10 AWG / 0.3 to 5 mm² insulated and non-insulated terminals, connectors and spark plug terminals in special cavities
- Strips insulation from 22 AWG to 10 AWG / 0.3 to 5 mm² solid and stranded wires
- Cuts (4) 40/2 mm, (6) 32/4 mm, (8) 32/4.8 mm, (10) 32/6.4 mm and 10-24/6.4 mm bolts
- Length: 8.6" (20.3 cm)

Part # 702007

Premium Battery Cable Stripper

- Punctures the cable's insulation, breaks the insulation free and pulls the cut insulation from the wire in one efficient motion
- Strips 8 AWG through 400 MCM cable
- Heavy-duty construction
- Length: 5.3" (13.0 cm)

Part # 703075



Compact Automatic Wire Stripper

- Compact design perfect for use in tight spaces
- Strips without damage or marking of conductors
- Strips and cuts wire from 20 AWG to 10 AWG (0.05-5.0mm²)
- Length: 6.3" (16 cm)

Part # 702031



Automatic Wire Stripper

- Automatically adjusts to different wire sizes
- Strips without damage or marking of conductors, slim jaw for easy access, steel side cutter
- Strips and cuts wire from 24 AWG to 12 AWG / 0.02-5.0mm²
- Wire stop adjusts length of strip from 3/8" to 1/2" (9.5 to 12.7 mm)
- Length: 6.7" (17.0 cm)

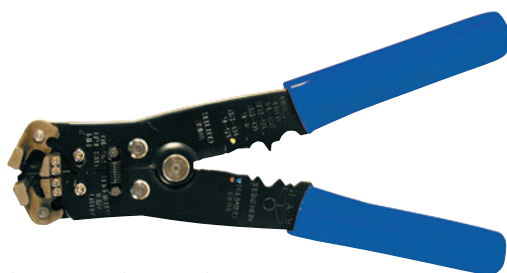
Part # 702030



Universal Wire Stripper

- Two different cutting methods to cut either small gauge wire or large gauge battery cable
- Wire stripping from 20 AWG to 10 AWG (0.05-5.0mm²)
- Battery cable stripping from 8 AWG to 4/0 AWG (8 to 107mm²)
- Length: 5.7" (14.5 cm)

Part # 702032



Wire Strip Crimp Tool

- Strips 26 AWG to 10 AWG stranded wire
- Automatic jaw-load wire stripper self-adjusts to strip wire
- Crimps 22 AWG to 10 AWG insulated terminals
- Length: 8.1" (20.6 cm)

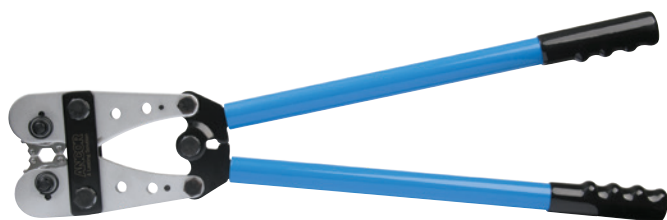
Part # 702033



LEARN MORE
Universal Wire
Stripper Video



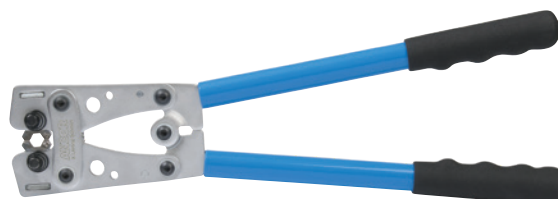
Visit Ancor Products
on YouTube.com



8 to 4/0 AWG Heavy-duty Hex Lug & Terminal Crimper

- Uses revolving dies to create a hex style crimp for 8 AWG to 4/0 AWG
- Length: 24.4" (62 cm)

Part # 703040



8 to 1/0 AWG Hex Lug & Terminal Crimper

- Uses revolving dies to create a hex style crimp for 8 AWG to 1/0 AWG
- For portable use
- Length: 15.4" (39 cm)

Part # 703050



22 to 8 AWG Single Crimp Ratcheting Crimper

- Ideal for crimping heat shrink terminals
- Can also be used with vinyl and nylon insulated terminals and connectors
- Must be fully closed before tool allows itself to open ensuring a proper crimp
- Includes lever to release jaws mid-cycle in the event of an incorrectly placed terminal
- Ratcheting operation with ergonomic handle to prevent hand fatigue
- 4 color-coded cavities for different wire sizes
- Length: 10.9" (27.6 cm)

Part # 703010



26 to 10 AWG Double Crimp Ratcheting Crimper

- Ideal for crimping nylon and vinyl terminals
- Double crimp mechanism crimps stranding and insulation portion of Ancor connectors in one motion for superior strain relief of vinyl and nylon terminals
- Must be fully closed before tool allows itself to open ensuring a proper crimp
- Includes lever to release jaws mid-cycle in the event of an incorrectly placed terminal
- Ratcheting operation with ergonomic handle to prevent hand fatigue
- 4 color-coded cavities for different wire sizes
- Length: 10.9" (27.6 cm)

Part # 703030

LEARN MORE
Ratcheting Crimp
Tools Video



Visit Ancor Products
on YouTube.com

TECH TIP

Tool Selection per ABYC Guidelines

ABYC recommends that the tool used to crimp connectors be manufactured by the same brand as the connectors themselves. The reason behind this is that the barrel and insulation thickness varies by connector manufacturer. Therefore having a crimping tool designed for specific connectors ensures a secure and safe crimp.



Angled 22 to 8 AWG Single Crimp Ratcheting Crimper

- For crimping heat shrink terminals
- Angled head design is ideal for use in tight spaces
- Self-releasing mechanism ensures a proper crimp
- Ratcheting operation and ergonomic handles prevent fatigue
- Length: 9.5" (24 cm)

Part # 703015



Angled 26 to 10 AWG Double Crimp Ratcheting Crimper

- For crimping nylon and vinyl terminals
- Angled head design is ideal for use in tight spaces
- Self-releasing mechanism ensures a proper crimp
- Ratcheting operation and ergonomic handles prevent fatigue
- Length: 9.5" (24 cm)

Part # 703035



Flag Terminal Die Sets

- Works with all Ancor ratcheting crimpers; 703010, 703015, 703030, 703035

Part # 703041 22-18 & 16-14 AWG

Part # 703042 12-10 AWG



703041



703042

Mini Fish Tape

- Durable, high-impact housing
- Low-memory 15 ft tape does not curl during extension—perfect for non-conduit situations
- Compact, rugged design can be stored in tool belt or box
- Feed under carpet, behind walls or through panels
- Perfect for short runs, installing speakers, instrument clusters or other common electrical uses

Part # 703112



Mini Pocket Butane Torch

- Piezo electronic ignition system
- Flame temperature up to 2500°F / 1300°C
- Windproof and waterproof flame
- Pocket size allows the unit to fit easily into any tool kit
- Powered by disposable cigarette lighter or refillable butane fuel cell (included)

Part # 703024



Pro Torch

- Blue Flame 2400°F / 1300°C
- Automatic ignition system
- Pin point flame
- Multi-functional

Part # 704060



120V Two Setting Heat Gun

- Two settings—Low: 572°F / 300°C, 10 CFM / 17 CMH and High: 1,000°F / 538°C, 17 CFM / 29 CMH (cubic meters per hour)
- 6.5' cord, 120V AC
- Great for heat shrink tubing and connectors, stripping paint and more
- Lightweight, under two pounds
- Stands on end for hands free operation
- Includes three nozzles and carrying case

Part # 703023

Three nozzles for a variety of applications



Carrying case included



Stands on end for hands free operation



Operators Manual

Micro Therm Heat Gun

- Features Piezo electronic ignition system, providing flame less heat, safe to use around chemicals or by wire bundles when using deflector
- Powered by refillable cell
- Flame temperature up to 1300°F / 650°C
- Ideal for work in the bilge where open flame should not be used
- Refillable

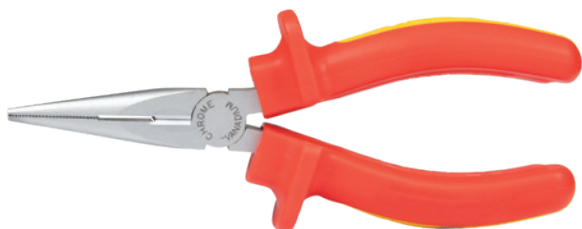
Part # 702027



7 Pc Insulated Screwdriver Set

- Kit includes:
 - (1) 1/8" x 3" Slotted (1) #0 x 3" Phillips
 - (1) 7/32" x 5" Slotted (1) #1 x 3" Phillips
 - (1) 1/4" x 6" Slotted (1) #2 x 4" Phillips
 - (1) Test probe
- Insulated to 1000V
- Includes convenient storage/carrying case

Part # 711000



6" Long Nose Pliers

- Insulated to 1000V
- Ideal for use in tight spaces
- Chrome Vanadium
- Length: 6" (15.2 cm)

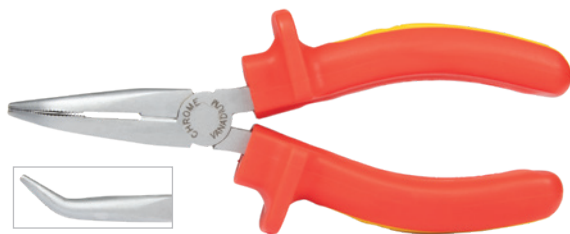
Part # 710010



7" Combination Pliers

- Insulated to 1000V
- Combines both gripping jaws and wire cutter
- Chrome Vanadium
- Length: 7" (17.8 cm)

Part # 710020



6" Bent Nose Pliers

- Insulated to 1000V
- Ideal for use in tight spaces
- Chrome Vanadium
- Length: 6" (15.2 cm)

Part # 710030



6" Diagonal Cutting Pliers

- Insulated to 1000V
- Ergonomic cutter for wire or cable ties
- Chrome Vanadium
- Length: 6" (15.2 cm)

Part # 710040

8 Function Digital Multimeter

- Auto ranging capability allows the meter to automatically determine the resolution based on the application
- Clear LCD display
- Lightweight, ergonomic design
- Comfortable protective cover, with test lead hanging groove
- Loud buzzer sound
- Batteries: two AAA Batteries (not included)
- Continuity ✓, Diode Test ✓

Specifications	Range	Accuracy
DC Voltage (V)	200.0mV, 2000mV/2.000V, 20.00V, 200.0V, 250V	200.0mV, 20.00V, 200.0V, 250V (0.7% + 3) 2000mV/2.000V (0.5% + 2)
AC Voltage (V)	200.0mV, 2000mV/2.000V, 20.00V, 200.0V, 250V	200.0mV, 20.00V (1.0% + 2) 2000mV/2.000V (0.7% + 3) 200.0V, 250V (1.2% + 3)
DC Current (A)	200.0μA, 2000μA, 20.00mA, 200.0mA, 2.000A, 10.00A	200.0μA, 2000μA, 20.00mA, 200.0mA (1.0% + 2) 2.000A, 10.00A (1.2% + 5)
AC Current (A)	200.0μA, 2000μA, 20.00mA, 200.0mA, 2.000A, 10.00A	200.0μA, 2000μA, 20.00mA, 200.0mA (1.2% + 3) 2.000A, 10.00A (1.5% + 5)
Resistance (Ω)	200.0, 2000/2.000k, 20.00k, 200.0k, 20.00M, 200.0M	200 (1.0% + 2) 2000/2.000k, 20.00k, 200.0k (0.8% + 2) 20.00M (1.2% + 3) 200.0M (5.0% + 10)
Capacitance (F)	2.000nF, 20.00nF, 200.0nF, 2.000μF, 20.00μF, 200.0μF, 2.000mF	2.000nF (REL Mode: 5.0% + 5) 20.00nF, 200.0nF, 2.000μF, 20.00μF, 200.0μF (4.0% + 8), 2.000mF (10%)
Overload Protection	250V rms	
CAT Rating	CAT II 250V	

703072



5 YEAR WARRANTY

CAT II
250V

True RMS 12 Function Digital Multimeter

- Auto ranging capability allows the meter to automatically determine the resolution based on the application
- Clear LCD display
- Comfortable protective cover, with test lead hanging groove
- High voltage warning
- Auto power off functionality to save battery life
- Batteries: two AAA Batteries (not included)
- Continuity ✓, Diode Test ✓, NCV ✓

Specifications	Range	Accuracy
DC Voltage (V)	600.0mV, 6000mV/6.000V, 60.00V, 600.0V	600.0mV, 60.00V, 600.0V (0.7% + 3) 6000mV/6.000V (0.5% + 2)
AC Voltage (V)	600.0mV, 6000mV/6.000V, 60.00V, 600.0V	600.0mV, 60.00V (1.0% + 2) 6000mV/6.000V (0.7% + 3) 600.0V (1.2% + 3)
DC Current (A)	600.0μA, 6000μA, 60.00mA, 600.0mA, 6.000A, 10.00A	600.0μA, 6000μA, 60.00mA, 600.0mA (1.0% + 3) 6.000A, 10.00A (1.2% + 5)
AC Current (A)	600.0μA, 6000μA, 60.00mA, 600.0mA, 6.000A, 10.00A	600μA, 6000μA, 60.00mA, 600.0mA (1.2% + 3) 6.000A, 10.00A (1.5% + 5)
Resistance (Ω)	600.0, 6000/6.000k, 60.00k, 600.0k, 60.00M	600 (1.0% + 2) 6000/6.000k, 60.00k, 600.0k (0.8% + 2) 60.00M (2.0% + 5)
Capacitance (F)	9.999nF, 99.99nF, 999.9nF, 9.999μF, 99.99μF, 999.9μF, 9.999mF	9.999nF (REL Mode: 4.0% + 10) 99.99nF, 999.9nF, 9.999μF, 99.99μF, 999.9μF (4.0% + 5), 9.999mF (10%)
Frequency (Hz)	10.00Hz–1.000MHz	10.00Hz–1.000MHz (0.1% + 5)
Temperature (°F)	-40°F to 1832°F	-40 to 104°F (5%) 104°F to 932°F (1.5% + 5) 932°F to 1832°F (2.5% + 5)
Temperature (°C)	-40°C to 1000°C	-40 to 40°C (4°C) 40°C to 500°C (1.0% + 4) 500°C to 1000°C (2.0% + 4)
Overload Protection	600V rms	
CAT Rating	CAT III 600V	

703073



5 YEAR WARRANTY

CAT III
600V

True RMS 12 Function Digital Snap-Around Meter

- Easy to read backlit OLED screen
- Non-contact AC voltage testing
- Provides accurate readings for both pure sine wave and modified sine wave electrical circuits
- Zeroing function
- Flashlight for use in dark compartments
- Includes convenient carrying case
- Batteries: three AAA Batteries (not included)
- Continuity ✓, Diode Test ✓, NCV ✓

Specifications	Range	Accuracy
DC Voltage (V)	600.0mV, 6000mV, 6.000V, 60.00V, 600.0V, 1000V	600.0mV (1.0% + 8) 6000mV/6.000V (0.8% + 1) 60V, 600V (0.8% + 3) 1000V (1.0% + 3)
AC Voltage (V)	6.000V, 60.00V, 600.0V, 750V	6.000V, 60.00V, 600.0V (1.2% + 5) 750V (1.5% + 5)
DC Current (A)	60.00A, 600.0A	60.00A, 600.0A (2.5% + 5)
AC Current (A)	60.00A, 600.0A	60.00A, 600.0A (2.5% + 5)
Resistance (Ω)	600.0, 6000/6.000k, 60.00k, 600.0k, 6.000M, 60.00M	600.0, 6.000M (1.2% + 2) 6000/6.000k, 60.00k, 600.0k (1.0% + 2) 60.00M (1.5% + 5)
Capacitance (F)	60.00nF, 600.0nF, 6.000μF, 60.00μF, 600.0μF, 6.000mF	60.00nF (4.0% + 25) 600.0nF, 6.000μF, 60.00μF, 600.0μF (4.0% + 5) 6.000mF (10%)
Frequency (Hz)	10.00Hz–1.000MHz	10.00Hz–1.000MHz (0.1% + 4)
Temperature (°F)	-40°F to 1832°F	-40°F to 104°F (3.0% + 10) 104°F to 752°F (3.0% + 10) 752°F to 1832°F (2.0% + 10)
Temperature (°C)	-40°C to 1000°C	-40°C to 40°C (3.0% + 5) 40°C to 400°C (3.0% + 5) 400°C to 1000°C (2.0% + 5)
Overload Protection	1000V DC, 750V AC	
CAT Rating	CAT II 1000V, CAT III 600V	

703079



5 YEAR WARRANTY



TECH TIP

Measuring AC Current

Typically, a standard multimeter is accurate and reliable when measuring DC current. However, the same cannot be said for AC current. This is because AC current travels in the shape of a true or modified sine wave. When current is non-linear, you'll need a meter that can measure the current with the highest level of accuracy. This is achievable through Root Mean Square (RMS). True RMS is an advanced calculation used by digital multimeters which provides accurate values of AC levels. It doesn't matter if the current is distorted. A true RMS multimeter adjusts itself accordingly to deliver accurate results.



DISPLAYS

68

Heat Shrink Terminal, Connector & Tubing Displays



Ancor's most popular consumer packages of adhesive lined heat shrink tubing, heat shrink terminals, and butt connectors.

68

Tinned Copper Lug Displays



24 sizes of heavy-duty tinned copper lugs, 8 AWG to 4/0. Includes combo packs, battery terminals, and heavy-duty lug crimper.

DISPLAYS

69

Marine Grade® Tinned Wire Displays



This compact counter top display consists of 60 spools of the 12 most common wire sizes and colors. All wire is Premium UL 1426 Tinned Copper Primary Wire.

70

NMEA 2000 Display



Simple drop in NMEA 2000 store set. Kit includes everything needed to build a new NMEA network or expand on an existing network.

Ancor product displays can quickly and effectively increase sales by providing an assortment of products to customers in an easy to shop layout



Heat Shrink Terminal, Connector & Tubing Display

Part # DR2230

Part #	Description	Qty/ Pkg	# of Pkgs
309003	22-18 AWG Heat Shrink Butt	3	3
309103	16-14 AWG Heat Shrink Butt	3	3
309125	16-14 AWG Heat Shrink Butt	25	3
309203	12-10 AWG Heat Shrink Butt	3	3
300000	22-10 AWG Heat Shrink Butt	10	3
310203	22-18 #8 Heat Shrink Ring	3	3
310303	22-18 #10 Heat Shrink Ring	3	3
320003	24-22/24-18 Step-Down, Heat Shrink Butt	3	3
320103	22-18/22-14 Step-Down, Heat Shrink Butt	3	3
320203	16-14/16-10 Step-Down, Heat Shrink Butt	3	3
320303	12-10/12-8 Step-Down, Heat Shrink Butt	3	3
311203	16-14 #8 Heat Shrink Ring	3	3
311303	16-14 #10 Heat Shrink Ring	3	3
311503	16-14 5/16" Heat Shrink Ring	3	3
311603	16-14 3/8" Heat Shrink Ring	3	3
SPK2218	22-18 AWG Heat Shrink, Speaker Connector Kit	6	3
SPK1614	16-14 AWG Heat Shrink, Speaker Connector Kit	6	3
312203	12-10 #8 Heat Shrink Ring	3	3
312303	12-10 #10 Heat Shrink Ring	3	3
312503	12-10 5/16" Heat Shrink Ring	3	3
312603	12-10 3/8" Heat Shrink Ring	3	3
304503	3/8" x 3" Heat Shrink Tubing Assortment	5	3
301103	1/8" x 3" Heat Shrink Tubing, Black	3	3
302103	3/16" x 3" Heat Shrink Tubing, Black	3	3
303103	1/4" x 3" Heat Shrink Tubing, Black	3	3
304103	3/8" x 3" Heat Shrink Tubing, Black	3	3
305103	1/2" x 3" Heat Shrink Tubing, Black	3	3
306103	3/4" x 3" Heat Shrink Tubing, Black	3	3
301503	3/16"-3/4" x 3" Heat Shrink Tubing Asst, Black	8	3

Tinned Copper Lug Display

Part # DR2425

Part #	Description	Qty/ Pkg	# of Pkgs
252233	#8 #10 Tinned Lug	2	2
252234	#8 1/4" Tinned Lug	2	2
252235	#8 5/16" Tinned Lug	2	2
252236	#8 3/8" Tinned Lug	2	2
252243	#6 #10 Tinned Lug	2	2
252244	#6 1/4" Tinned Lug	2	2
252245	#6 5/16" Tinned Lug	2	2
252246	#6 3/8" Tinned Lug	2	2
252254	#4 1/4" Tinned Lug	2	2
252255	#4 5/16" Tinned Lug	2	2
252256	#4 3/8" Tinned Lug	2	2
252265	#2 5/16" Tinned Lug	2	2
252266	#2 3/8" Tinned Lug	2	2
252275	#1 5/16" Tinned Lug	2	2
252276	#1 3/8" Tinned Lug	2	2
252285	#1/0 5/16" Tinned Lug	2	2
252286	#1/0 3/8" Tinned Lug	2	2
252295	#2/0 5/16" Tinned Lug	2	2
252296	#2/0 3/8" Tinned Lug	2	2
252726	#4/0 3/8" Tinned Lug	1/1	2
252241	#6 5/16" & 3/8" Combo Pack	1/1	2
252251	#4 5/16" & 3/8" Combo Pack	1/1	2
252261	#2 5/16" & 3/8" Combo Pack	1/1	2
260325	Battery Terminal, Wing Nut, 5/16" & 3/8" Combo	1/1	2

All displays come with matching header, hooks, planogram and re-order tags.



Marine Grade® Tinned Wire Display

Part # DR2218

Part #	Description	# of Pkgs
180003	35' 18 AWG (0.8mm ²), Black	2
180803	35' 18 AWG (0.8mm ²), Red	2
182003	25' 16 AWG (1mm ²), Black	2
182803	25' 16 AWG (1mm ²), Red	2
182303	25' 16 AWG (1mm ²), Green	2
182903	25' 16 AWG (1mm ²), White	2
184003	18' 14 AWG (2mm ²), Black	2
184803	18' 14 AWG (2mm ²), Red	2
184303	18' 14 AWG (2mm ²), Green	2
184903	18' 14 AWG (2mm ²), White	2
186003	12' 12 AWG (3mm ²), Black	2
186803	12' 12 AWG (3mm ²), Red	2

All displays come with matching header, hooks, planogram and re-order tags.





NMEA 2000 Planogram Assortment

Part # 270400

Simple drop in NMEA 2000 store set. Kit includes everything needed to build a new NMEA network or expand on an existing network.

Part #	Description	# of Pkgs
270000	NMEA 2000 Power Cable With Tee - 1m	1
270010	NMEA 2000 Backbone Cable - 10m	1
270101	NMEA 2000 Single Tee Connector	1
270105	NMEA 2000 Female Terminator	1
270106	NMEA 2000 Male Terminator	1
270109	NMEA 2000 Field Servicable Connector, Female	1
270110	NMEA 2000 Field Servicable Connector, Male	1
270201	NMEA 2000 Single Device Starter Kit	1
270301	NMEA 2000 Drop Cable - 1 Meter	1
270305	NMEA 2000 Drop Cable - 5 Meter	1

All displays come with matching header and planogram.

Countertop Display Replacement Headers



Part # ANCSHRINK



Part # ANCTERM



Part # ANCWIRE



Part # ANCLUG



Part # ANCNMEA

Wire & Cable Technical Data

Using the wrong type of wire can cost you more in the long run. Insist on Marine Grade® Boat Cable by Ancor. It is UL approved for the corrosive marine environment and charter boat service. Marine Grade Boat Cable is specially designed to exceed all test standards for cold bend, moisture and oil resistance, heat shock and flammability. This ensures the safest, easiest to install, longest lasting and ultimately the least expensive electrical system you can buy. Only Ancor offers a complete line of Marine Grade Boat Cable for every need.

"Can I use 'regular wire' for my boat?" The answer to this common question is a qualified "yes." However, caution is advised and the installer must understand the circumstances in which SAE (Society of Automotive Engineering) J378, J1127 or J1128 wire can, and can not be used. Keep in mind that these wires are designed for "surface vehicles," not for the special

requirements of the marine industry. Even if tinned copper, they should not be run in bilge spaces or other areas subject to moisture from spray or dripping. They should not be run in engines spaces, unless marked "oil resistant" and "75°C". They should not be used in applications where subjected to vibration or frequent flexing and must never be used for 110 volt applications. For safety, use only wire which is marked with size, type and temperature rating.

Most importantly, SAE wire is up to 12% smaller than AWG Boat Cable which means that, in many applications, larger gauge wire must be used to stay within the voltage drop limits recommended by experts. The wire charts found in "Chapman's Piloting" and other publications are all for "AWG" wire like Ancor, not "SAE" type wire.

ABYC Recommended Usages

Color	Item	Use
Red	DC Positive Conductor	Positive Mains
Black or Yellow	DC Negative Conductor	Return, Negative Mains
Green or Green w/ Yellow Stripe	DC Grounding Conductor	Bonding System Bonding Wires (if insulated)
Light Blue	Oil Pressure	Oil Pressure Sender to Gauge
Dark Blue	Cabin & Instrument Lights	Fuse or Switch to Lights
	Generator Armature	Generator Armature to Regulator
Brown	Alternator Charge Light	Generator Terminal/Alternator Auxiliary Terminal to Light to Regulator
	Pumps	Fuse or Switch to Pumps
Grey	Navigation Lights	Fuse or Switch to Lights
	Tachometer	Tachometer Sender to Gauge
Orange	Accessory Feed	Ammeter to Alternator or Generator Output and Accessory Fuses or Switches
	Common Feed	Distribution Panel to Accessory Switch
Pink	Fuel Gauge	Fuel Gauge Sender to Gauge
Purple	Ignition	Ignition Switch to Coil & Electrical Instruments
	Instrument Feed	Distribution Panel to Electric Instruments
Brown w/ Yellow Stripe	Bilge Blowers	Fuse or Switch to Blower
Yellow w/ Red Stripe	Starting Circuit	Starting Switch to Solenoid
Tan	Water Temperature	Water Temperature Sender to Gauge
Green/Stripe (G/x) (except G/Y)	Tilt Down and/or Trim In	Tilt and/or Trim Circuits
Blue/Stripe (Bl/x)	Tilt Up and/or Trim Out	Tilt and/or Trim Circuits

Conductors Sized (AWG) for 3% Voltage Drop

Use 3% voltage drop for any "critical application" affecting the safety of the vessel or its passengers: bilge pumps, navigation lights, electronics, etc....

Length (feet): Determined by measuring the length of the conductor from the positive (+) power source connection to the electrical device and back to the negative (-) power source connection. Note that the power source connection may be either the battery, panelboard or switchboard.

Current (amps): Determined by adding the total amps on a circuit.

Conductor sizes not covered in the following tables may be calculated by using the following formula:

$$CM = \frac{K \times I \times L}{E}$$

After calculating the Circular Mil Area (CM), use the temperature rating chart to determine the proper conductor size (National Fire Protection Agency and Coast Guard require that the next larger conductor be used when the calculated CM area falls between the two conductor sizes).

CM = Circular Mil Area of Conductors

K = 10.75 (Constant representing the mil-foot resistance of copper)

I = Current - amps

L = Length - feet

E = Voltage drop at load
(drop x working voltage)

3% Voltage Drop at 12 Volts

		Current (Amps)												
Length		5	10	15	20	25	30	40	50	60	70	80	90	100
10'	3 m	18	14	12	10	10	8	6	6	6	6	6	4	4
15'	5 m	16	12	10	10	8	8	6	6	4	4	4	2	2
20'	6 m	14	10	10	8	6	6	6	4	4	2	2	2	2
25'	8 m	12	10	8	6	6	6	4	4	2	2	2	1	1
30'	9 m	12	10	8	6	4	4	4	2	2	2	2	1	1
40'	12 m	10	8	6	6	4	4	2	2	1	1/0	1/0	2/0	2/0
50'	15 m	10	6	6	4	4	2	2	1	1/0	2/0	3/0	4/0	4/0
60'	18 m	10	6	6	4	2	2	1	1/0	2/0	3/0	3/0	4/0	4/0
70'	21 m	8	6	4	2	2	1	1/0	2/0	3/0	3/0	4/0	4/0	
80'	24 m	8	6	4	2	2	1	1/0	2/0	3/0	4/0	4/0		
90'	27 m	8	4	2	2	1	1/0	2/0	3/0	4/0	4/0			
100'	30 m	6	4	2	2	1	1/0	2/0	3/0	4/0				
110'	33 m	6	4	2	2	1	1/0	2/0	3/0	4/0				
120'	36 m	6	4	2	1	1/0	2/0	3/0	4/0					
130'	40 m	6	2	2	1	1/0	2/0	3/0	4/0					
140'	43 m	6	2	2	1/0	2/0	3/0	4/0						
150'	46 m	6	2	1	1/0	2/0	3/0	4/0						
160'	49 m	6	2	1	1/0	2/0	3/0	4/0						
170'	52 m	6	2	1	2/0	3/0	3/0	4/0						

3% Voltage Drop at 24 Volts

		Current (Amps)												
Length		5	10	15	20	25	30	40	50	60	70	80	90	100
10'	3 m	18	18	16	14	12	12	10	10	10	8	8	8	6
15'	5 m	18	16	14	12	12	10	10	8	8	6	6	6	6
20'	6 m	18	14	12	10	10	10	8	6	6	6	6	4	4
25'	8 m	16	12	12	10	10	8	6	6	6	4	4	4	4
30'	9 m	16	12	10	10	8	8	6	6	4	4	4	2	2
40'	12 m	14	10	10	8	6	6	6	4	4	2	2	2	2
50'	15 m	12	10	8	6	6	6	4	4	2	2	2	1	1
60'	18 m	12	10	8	6	6	4	4	2	2	1	1	1/0	1/0
70'	21 m	12	8	6	6	4	4	2	2	1	1	1/0	1/0	2/0
80'	24 m	10	8	6	6	4	4	2	2	1	1/0	1/0	2/0	2/0
90'	27 m	10	8	6	4	4	2	2	1	1/0	1/0	2/0	2/0	3/0
100'	30 m	10	6	6	4	4	2	2	1	1/0	2/0	2/0	3/0	3/0
110'	33 m	10	6	6	4	2	2	1	1/0	1/0	2/0	3/0	3/0	4/0
120'	36 m	10	6	4	4	2	2	1	1/0	2/0	3/0	3/0	4/0	4/0
130'	40 m	8	6	4	2	2	2	1	1/0	2/0	3/0	3/0	4/0	4/0
140'	43 m	8	6	4	2	2	1	1/0	2/0	3/0	3/0	4/0	4/0	
150'	46 m	8	6	4	2	2	1	1/0	2/0	3/0	3/0	4/0	4/0	
160'	49 m	8	6	4	2	2	1	1/0	2/0	3/0	4/0	4/0	4/0	
170'	52 m	8	6	2	2	1	1	2/0	3/0	3/0	4/0	4/0		

3% Voltage Drop at 32 Volts

		Current (Amps)												
Length		5	10	15	20	25	30	40	50	60	70	80	90	100
10'	3 m	18	18	16	16	14	14	12	12	10	10	10	8	8
15'	5 m	18	16	14	14	12	12	10	10	8	8	8	6	6
20'	6 m	18	16	12	12	12	10	10	8	8	6	6	6	6
25'	8 m	18	14	12	12	10	10	8	8	6	6	6	6	4
30'	9 m	16	14	10	10	10	8	8	6	6	6	4	4	4
40'	12 m	16	12	10	10	8	8	6	6	4	4	4	2	2
50'	15 m	14	12	8	8	8	6	6	4	4	2	2	2	2
60'	18 m	14	10	8	8	6	6	4	4	2	2	2	2	1
70'	21 m	12	10	6	6	6	6	4	2	2	2	1	1	0
80'	24 m	12	10	6	6	6	4	4	2	2	1	1	0	0
90'	27 m	12	8	6	6	6	4	2	2	2	1	1/0	1/0	2/0
100'	30 m	12	8	6	6	4	4	2	2	1	1/0	1/0	2/0	2/0
110'	33 m	10	8	6	6	4	4	2	2	1	1/0	1/0	2/0	2/0
120'	36 m	10	8	6	4	4	2	2	1	1/0	1/0	2/0	2/0	3/0
130'	40 m	10	8	6	4	4	2	2	1	1/0	2/0	2/0	3/0	3/0
140'	43 m	10	6	6	4	2	2	1	1/0	1/0	2/0	3/0	3/0	3/0
150'	46 m	10	6	6	4	2	1	1	1/0	2/0	2/0	3/0	3/0	4/0
160'	49 m	10	6	4	4	2	1	1	1/0	2/0	3/0	3/0	4/0	4/0
170'	52 m	8	6	4	2	2	1	1	1/0	2/0	3/0	3/0	4/0	4/0

TECH TIP

ABYC Recommends...

"Conductors used for panelboard or switchboard main feeders, bilge blowers, electronic equipment, navigation lights, and other circuits where voltage drop must be kept to a minimum, shall be sized for a voltage drop not to exceed three percent."
ABYC 11.16.1.2.7.

Conductors Sized (AWG) for 10% Voltage Drop

10% Voltage Drop at 12 Volts

Use 10% voltage drop for any "non-critical" applications: windlass, cabin lights, etc....

For Example...

Q: A bilge pump draws 10 amps. The positive run is 11 feet from the power panel, including the float switch. The negative run is only 10 feet. What size is the wire?

A: Use the formula to reach the correct answer:

$$CM = \frac{10.75 \times 10 \text{ (amps)} \times 21 \text{ (total length of run)}}{0.36 \text{ (3\% of 12V)}} = 6,271$$

Anchor cable specifications show that 12 AWG wire has a CM area of 6,500 and is the correct choice. However, SAE wire has a CM area of only 5,833. Under NFPA and USCG regulations, 10 SAE wire must be used.

TECH TIP

ABYC Recommends...

"Conductors used for lighting, other than navigation lights, and other circuits where voltage drop is not critical, shall be sized for a voltage drop not to exceed 10 percent." ABYC 11.16.1.2.7.

		Current (Amps)												
Length		5	10	15	20	25	30	40	50	60	70	80	90	100
10'	3 m	18	18	18	16	16	14	14	12	12	10	10	10	10
15'	5 m	18	18	16	14	14	12	12	10	10	8	8	8	8
20'	6 m	18	16	14	14	12	12	10	10	8	8	8	6	6
25'	8 m	18	16	14	12	12	10	10	8	8	6	6	6	6
30'	9 m	18	14	12	12	10	10	8	8	6	6	6	6	4
40'	12 m	16	14	12	10	10	8	8	6	6	6	4	4	4
50'	15 m	16	12	10	10	8	8	6	6	4	4	4	2	2
60'	18 m	14	12	10	8	8	6	6	4	4	2	2	2	2
70'	21 m	14	10	8	8	6	6	6	4	2	2	2	2	1
80'	24 m	14	10	8	8	6	6	4	4	2	2	2	1	1
90'	27 m	12	10	8	6	6	6	4	2	2	2	1	1	1/0
100'	30 m	12	10	8	6	6	4	4	2	2	1	1	1/0	1/0
110'	33 m	12	8	8	6	6	4	2	2	2	1	1/0	1/0	1/0
120'	36 m	12	8	6	6	4	4	2	2	1	1	1/0	1/0	2/0
130'	40 m	12	8	6	6	4	4	2	2	1	1/0	1/0	2/0	2/0
140'	43 m	10	8	6	6	4	2	2	1	1	1/0	2/0	2/0	2/0
150'	46 m	10	8	6	4	4	2	2	1	1/0	1/0	2/0	2/0	3/0
160'	49 m	10	8	6	4	4	2	2	1	1/0	2/0	2/0	3/0	3/0
170'	52 m	10	6	6	4	2	2	2	1	1/0	2/0	2/0	3/0	3/0

10% Voltage Drop at 24 Volts

		Current (Amps)												
Length		5	10	15	20	25	30	40	50	60	70	80	90	100
10'	3 m	18	18	18	18	18	18	16	16	14	14	14	12	12
15'	5 m	18	18	18	18	16	16	14	14	12	12	12	10	10
20'	6 m	18	18	18	16	16	14	14	12	12	10	10	10	10
25'	8 m	18	18	16	16	14	14	12	12	10	10	10	8	8
30'	9 m	18	18	16	14	14	12	12	10	10	8	8	8	8
40'	12 m	18	16	14	14	12	12	10	10	8	8	8	6	6
50'	15 m	18	16	14	12	12	10	10	8	8	6	6	6	6
60'	18 m	18	14	12	12	10	10	8	8	6	6	6	6	4
70'	21 m	16	14	12	10	10	8	8	6	6	6	6	4	4
80'	24 m	16	14	12	10	10	8	8	6	6	6	4	4	4
90'	27 m	16	12	10	10	8	8	6	6	6	4	4	4	2
100'	30 m	16	12	10	10	8	8	6	6	4	4	4	2	2
110'	33 m	14	12	10	8	8	8	6	6	4	4	2	2	2
120'	36 m	14	12	10	8	8	6	6	4	4	2	2	2	2
130'	40 m	14	12	10	8	8	6	6	4	4	2	2	2	2
140'	43 m	14	10	8	8	6	6	6	4	2	2	2	2	1
150'	46 m	14	10	8	8	6	6	4	4	2	2	2	2	1
160'	49 m	14	10	8	8	6	6	4	4	2	2	2	1	1
170'	52 m	12	10	8	6	6	6	4	2	2	2	2	1	1

10% Voltage Drop at 32 Volts

		Current (Amps)												
Length		5	10	15	20	25	30	40	50	60	70	80	90	100
10'	3 m	18	18	18	18	18	18	18	16	16	14	14	14	14
15'	5 m	18	18	18	18	18	18	16	14	14	14	12	12	12
20'	6 m	18	18	18	18	16	16	14	14	12	12	12	10	10
25'	8 m	18	18	18	16	16	14	14	12	12	10	10	10	10
30'	9 m	18	18	18	16	14	14	12	14	10	10	10	10	8
40'	12 m	18	18	16	14	14	12	12	10	10	8	8	8	8
50'	15 m	18	16	14	14	12	12	10	10	8	8	8	6	6
60'	18 m	18	16	14	12	12	10	10	8	8	8	6	6	6
70'	21 m	18	14	14	12	10	10	8	8	8	6	6	6	6
80'	24 m	18	14	12	12	10	10	8	8	6	6	6	6	4
90'	27 m	18	14	12	10	10	10	8	6	6	6	6	4	4
100'	30 m	16	14	12	10	10	8	8	6	6	6	4	4	4
110'	33 m	16	14	12	10	10	8	8	6	6	6	4	4	4
120'	36 m	16	12	10	10	8	8	6	6	6	4	4	4	2
130'	40 m	16	12	10	10	8	8	6	6	6	4	4	2	2
140'	43 m	14	12	10	8	8	8	6	6	4	4	2	2	2
150'	46 m	14	12	10	8	8	6	6	6	4	4	2	2	2
160'	49 m	14	12	10	8	8	6	6	4	4	2	2	2	2
170'	52 m	14	12	10	8	8	6	6	4	4	2	2	2	2

18–4/0 AWG Wire and Cable Specifications

AWG	mm ²	AWG CM area	SAE CM area	Ampacity Engine Space	
				Outside	Inside
18	0.8	1,600	1,537	20	17
16	1	2,600	2,336	25	21
14	2	4,100	3,702	35	30
12	3	6,500	5,833	45	38
10	5	10,500	9,343	60	51
8	8	16,800	14,810	80	68
6	13	26,600	24,538	120	102
4	21	42,000	37,360	160	136
2	34	66,500	62,450	210	178
1	42	83,690	77,790	245	208
1/0	53	105,600	98,980	285	242
2/0	68	133,100	125,100	330	280
3/0	85	167,800	158,600	385	327
4/0	107	211,600	205,500	445	378

Temperature Rating of Conductor Insulation

The Law

The Code of Federal Regulations (CFR) 183.425 Conductors

(b) Except for intermittent surges each conductor must not carry a current greater than that specified for the conductor's gauge and temperature rating.

(c) For conductors in engine spaces, amperages must be corrected by the appropriate correction factor in Note 1.

Due to engine heat, the ambient temperature in engine spaces is usually higher than in other spaces of the boat. Wiring in and passing through engine spaces must be able to operate at these higher ambient temperatures. The ampacity values are based on an ambient temperature of 86°F / 30°C which is considered reasonable for use on boats except in engine spaces. The correction factors in Note 1 converts the ampacities to acceptable values in an ambient temperature of 122°F / 50°C. This higher temperature has been selected as satisfactory for engine spaces. Note 1 is supplied to eliminate the need for calculating the corrections. The values are already corrected.

Conductor Size AWG	Ampacity Outside of Engine Space	Ampacity Inside of Engine Space (Note 1)
18	20	17
16	25	21
14	35	30
12	45	38
10	60	51
8	80	68
6	120	102
4	160	136
3	180	153
2	210	178
1	245	208
1/0	285	242
2/0	330	280
3/0	385	327
4/0	445	378

*De-rating for engine space is 0.85 for 221°F / 105°C rated wire.

Allowable Amperage of Conductors of 50 Volts or More

The current values shown in this chart and also on the wire and cable specifications chart do not consider voltage drop for conductors under 50 volts. The values shown on the ampacity table are the maximum safe amperages which the conductor can carry on a continuous basis. They do not apply to intermittent starting loads such as motor start currents. Since all Ancor Boat Cable is 105°C insulated, only that temperature rating is shown.

Due to the higher ambient temperatures in engine spaces and the heat retention of large wire bundles, a “correction factor” must be used to de rate the wire by increasing conductor size. This chart takes into consideration these factors and should be used to select conductor sizes for circuits over 50 volts. Note that for electrical systems under 50 volts, voltage drop is the controlling factor and the tables on 72 and 73 should be used.

Conductor Size AWG	2 Conductors 221°F (105°C) Engine Space		3 Conductors 221°F (105°C) Engine Space		4–6 Conductors 221°F (105°C) Engine Space		7–24 Conductors 221°F (105°C) Engine Space	
	Outside	Inside	Outside	Inside	Outside	Inside	Outside	Inside
18	20	17.0	14.0	11.9	12.0	10.2	10.0	8.5
16	25	21.3	17.5	14.9	15.0	12.8	12.5	10.6
14	35	29.8	24.5	20.8	21.0	17.9	17.5	14.9
12	45	38.3	31.5	26.8	27.0	23.0	22.5	19.1
10	60	51.0	42.0	35.7	36.0	30.6	30.0	25.5
8	80	68.0	56.0	47.6	48.0	40.8	40.0	34.0
6	120	102.0	84.0	71.4	72.0	61.2	60.0	51.0
4	160	136.0	112.0	95.2	96.0	81.6	80.0	68.0
3	180	153.0	126.0	107.1	108.0	91.8	90.0	76.5
2	210	178.5	147.0	125.0	126.0	107.1	105.0	89.3
1	245	208.3	171.5	145.8	147.0	125.0	122.5	104.1
1/0	285	242.3	199.5	169.6	171.0	145.4	142.5	121.1
2/0	330	280.5	231.0	196.4	198.0	168.3	165.0	140.3
3/0	385	327.3	269.5	229.1	231.0	196.4	192.5	163.6
4/0	445	378.3	311.5	264.8	267.0	227.0	222.5	189.1

Number of current carrying conductors:	Correction Factor
3	0.70
4 to 6	0.60
7 to 24	0.50
25 and above	0.40

This table is supplied to eliminate the need for calculating the corrections for multi-conductor cable bundles in the temperature rating chart. The values are already corrected.

Note: These tables only apply for 221°F (105°C) wire and other premium wire and should not be used for lesser grades of wire and cable.

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* There is NO LIMIT on conductors in a bundle under 50 volts.



Use the Circuit Wizard to easily identify what wire to use. Scan the code or go to ancorproducts.com/circuit_wizard

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100010	10	101925	11	103025	11	104925	12	106802	13
100025	10	101950	11	103050	11	104950	12	106810	13
100050	10	102010	11	103099	11	104999	12	106825	13
100099	10	102025	11	103810	12	105010	12	106840	13
100110	10	102050	11	103825	12	105025	12	106899	13
100125	10	102099	11	103850	12	105050	12	106902	13
100150	10	102110	11	103910	12	105099	12	106910	13
100199	10	102125	11	103925	12	105810	13	106925	13
100210	10	102150	11	103950	12	105825	13	106940	13
100225	10	102199	11	104010	12	105840	13	106999	13
100299	10	102210	11	104025	12	106002	13	107002	13
100310	10	102225	11	104050	12	106010	13	107010	13
100325	10	102250	11	104099	12	106025	13	107025	13
100350	10	102299	11	104110	12	106040	13	107040	13
100399	10	102310	11	104125	12	106099	13	107099	13
100410	10	102350	11	104150	12	106102	13	108002	14
100425	10	102399	11	104199	12	106110	13	108010	14
100450	10	102410	11	104210	12	106125	13	108025	14
100499	10	102410	11	104225	12	106140	13	108050	14
100510	10	102425	11	104250	12	106199	13	108099	14
100525	10	102425	11	104299	12	106202	13	108102	14
100550	10	102450	11	104310	12	106210	13	108110	14
100599	10	102450	11	104325	12	106225	13	108125	14
100610	10	102499	11	104350	12	106240	13	108150	14
100625	10	102510	11	104399	12	106299	13	108199	14
100650	10	102525	11	104410	12	106302	13	108202	14
100699	10	102550	11	104425	12	106310	13	108210	14
100710	10	102599	11	104450	12	106325	13	108225	14
100725	10	102610	11	104499	12	106340	13	108250	14
100750	10	102625	11	104510	12	106399	13	108299	14
100799	10	102650	11	104525	12	106499	13	108302	14
100810	10	102710	11	104550	12	106502	13	108310	14
100825	10	102725	11	104599	12	106510	13	108325	14
100850	10	102750	11	104610	12	106525	13	108350	14
100899	10	102799	11	104625	12	106540	13	108399	14
100910	10	102810	11	104650	12	106599	13	108499	14
100925	10	102825	11	104710	12	106602	13	108502	14
100950	10	102850	11	104725	12	106610	13	108510	14
100999	10	102899	11	104750	12	106625	13	108525	14
101010	10	102910	11	104810	12	106640	13	108550	14
101025	10	102925	11	104825	12	106702	13	108599	14
101050	10	102950	11	104850	12	106710	13	108802	14
101099	10	102999	11	104899	12	106725	13	108810	14
101910	11	103010	11	104910	12	106740	13	108825	14

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108899	14	111950	15	113910	16	117010	17	121325	20
108902	14	111999	15	113925	16	117020	17	121350	20
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108925	14	112005	15	114002	16	117505	17	121525	20
108950	14	112010	15	114005	16	117510	17	121550	20
108999	14	112025	15	114010	16	117520	17	121599	20
109002	14	112050	15	114025	16	117902	17	121610	22
109010	14	112075	15	114040	16	117905	17	121625	22
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109350	14	112502	15	114905	16	118502	17	121825	22
109399	14	112505	15	114910	16	118505	17	121910	20
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111005	15	112525	15	114940	16	118515	17	121950	20
111010	15	112550	15	115002	16	118902	17	122010	22
111025	15	112575	15	115005	16	118905	17	122025	22
111050	15	112702	15	115010	16	118910	17	122050	22
111099	15	112705	15	115030	16	118915	17	123705	19
111302	15	112710	15	115502	16	119002	17	123710	19
111305	15	112725	15	115505	16	119005	17	123905	19
111310	15	112750	15	115510	16	119010	17	123910	19
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111399	15	112905	15	115905	16	119505	17	124110	19
111502	15	112910	15	115910	16	119510	17	124125	19
111505	15	112925	15	115930	16	119525	17	124140	19
111510	15	112950	15	116002	16	119902	17	124180	19
111525	15	112975	15	116005	16	119905	17	124302	19
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111705	15	113025	16	116505	16	120710	20	124502	19
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111725	15	113502	16	116525	16	120910	20	124525	19
111750	15	113505	16	116902	16	120925	20	124550	19
111799	15	113510	16	116905	16	121110	20	124599	19
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133525	21	158010	22	186003	13	199222	49	199275	51
133590	21	158025	22	186303	13	199223	49	199276	51
133710	21	160010	23	186803	13	199224	50	199277	51
133725	21	160099	23	186903	13	199224	50	199278	51
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199283	51	210166	39	210709	39	220622	38	230211	36
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199285	51	210202	36	210719	39	220719	39	230213	36
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199317	52	210233	36	220011	33	222163	37	230245	36
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199325	50	210235	36	220110	37	222233	36	230247	36
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199343	51	210303	37	220215	36	230161	37	230520	39
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210163	37	210613	39	220323	37	230204	36	230808	38

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230819	38	242286	40	252235	40	260100	42	270108	27
230828	38	242287	40	252236	40	260200	42	270109	27
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231409	38	242296	40	252243	40	260325	42	270110	27
231418	38	242297	40	252244	40	260350	42	270111	27
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242130	41	244233	40	252255	40	262255	41	270202	28
242140	41	244234	40	252256	40	262256	41	270203	29
242150	41	244235	40	252257	40	262265	41	270300	26
242160	41	244236	40	252261	40	262266	41	270300	26
242170	41	244244	40	252264	40	262275	41	270301	26
242180	41	244245	40	252265	40	262276	41	270302	26
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242234	40	244255	40	252274	40	262295	41	301103	46
242235	40	244256	40	252275	40	262296	41	301106	46
242236	40	244265	40	252276	40	262715	41	301124	46
242237	40	244266	40	252277	40	262716	41	301148	46
242243	40	244275	40	252284	40	262725	41	301503	46
242244	40	244276	40	252285	40	262726	41	301506	46
242245	40	244285	40	252286	40	270000	26	302103	46
242246	40	244286	40	252287	40	270000	26	302106	46
242247	40	244295	40	252294	40	270001	26	302124	46
242253	40	244296	40	252295	40	270001	26	302148	46
242254	40	244725	40	252296	40	270002	26	302603	46
242255	40	244726	40	252297	40	270005	26	302606	46
242256	40	249101	25	252715	40	270010	26	302624	46
242257	40	249102	25	252716	40	270101	27	302648	46
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242265	40	252130	41	252725	40	270103	27	303106	46
242266	40	252140	41	252726	40	270103	27	303124	46
242267	40	252150	41	252727	40	270104	27	303148	46
242274	40	252160	41	255101	55	270104	27	303602	46
242275	40	252170	41	260010	42	270105	27	303603	46
242276	40	252180	41	260010	42	270105	27	303606	46
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304103	46	307906	46	311403	32	316999	35	321703	32
304106	46	307924	46	311425	32	317803	35	321725	32
304124	46	307948	46	311499	32	317825	35	326103	47
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357825	35	452501	54	710010	63
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402372	53	702030	59	100320F	24
402502	53	702031	59	102325AA	11
402622	53	702032	59	121602A	22
402752	53	702033	59	210602A	38
402892	53	703005	58	ANCLUG	70
403182	53	703006	58	ANCNMEA	70
403252	53	703007	58	ANCSHRINK	70
403312	53	703010	60	ANCTERM	70
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404352	53	703075	59	SPKKIT	35

Ingress Protection (IP) Ratings Guide

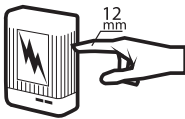
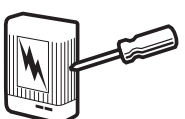
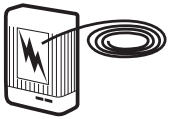
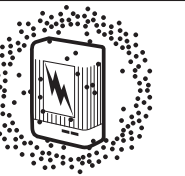
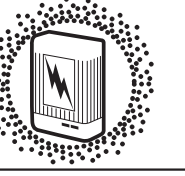
Example:

An IP65 rating can be determined using the adjacent table and example:

- The first number of the rating example, 6, in the gray column means the enclosure is dust tight
- The second number of the rating example, 5, in the blue column means the enclosure is protected against jets of water

The IP rating system was established by the International Electrotechnical Commission (IEC), an organization for international standards and conformity assessment. The IEC collaborates closely with the International Organization for Standardization (ISO). A complete description of the IP ratings and associated tests is found in IEC Publication 529. Although these ratings were initially developed as a way to classify enclosures, they now provide a convenient, practical way to compare levels of sealing. Many electrical products have an Ingress Protection (IP) rating which identifies the environmental factors needing consideration prior to the product's installation.

This is important when deciding when to mount products in a dry and clean environment versus a wet and/or dusty environment. The IP rating indicates the degree of protection provided. The numbers following IP represent levels of sealing and can range from no protection to full protection against dust and water. The table provides a description of the protection at each level.

SOLIDS		WATER	
1	 Protected against a solid object greater than 50 mm such as a hand.	1	 Protected against vertically falling drops of water. Limited ingress permitted.
2	 Protected against a solid object greater than 12 mm such as a finger.	2	 Protected against vertically falling drops of water with enclosure tilted up to 15 degrees from the vertical. Limited ingress permitted.
3	 Protected against a solid object greater than 2.5 mm such as a screwdriver.	3	 Protected against sprays of water up to 60 degrees from the vertical. Limited ingress permitted for three minutes.
4	 Protected against a solid object greater than 1 mm such as a wire.	4	 Protected against water splashed from all directions. Limited ingress permitted.
5	 Dust Protected. Limited ingress of dust permitted. Will not interfere with operation of the equipment. Two to eight hours.	5	 Protected against jets of water. Limited ingress permitted.
6	 Dust tight. No ingress of dust. Two to eight hours.	6	 Water from heavy seas or water projected in powerful jets shall not enter the enclosure in harmful quantities.
		7	 Protection against the effects of immersion in water between 15 cm and 1 m for 30 minutes.
		8	 Protection against the effects of immersion in water under pressure for long periods.

Rating Example:

IP65
INGRESS PROTECTION

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ANC-025-CAT-0225

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