ANCOR

2020

MARINE
EMERGENCY VEHICLE
INDUSTRIAL
RV










Lighting
Terminals & Lugs
Tools & Testers
Wire Management
Wire & Cable

POWER PRODUCTS LLC
Marine & Mobile Solutions

For decades Ancor, BEP, Blue Sea Systems, CZone, Lenco, Marinco, Mastervolt and ProMariner have worked independently to provide innovative electrical products. Now the eight companies are working together to offer comprehensive electrical solutions for marine and mobile applications.

Providing more than products. Providing Solutions.

ANCOR
Lighting
Terminals & Lugs
Tools & Testers
Wire Management
Wire & Cable

ancorproducts.com

BEP
Battery Management
Circuit Protection
Connectors & Insulators
Custom Panels & Design Services
Meters
Power Distribution Panels

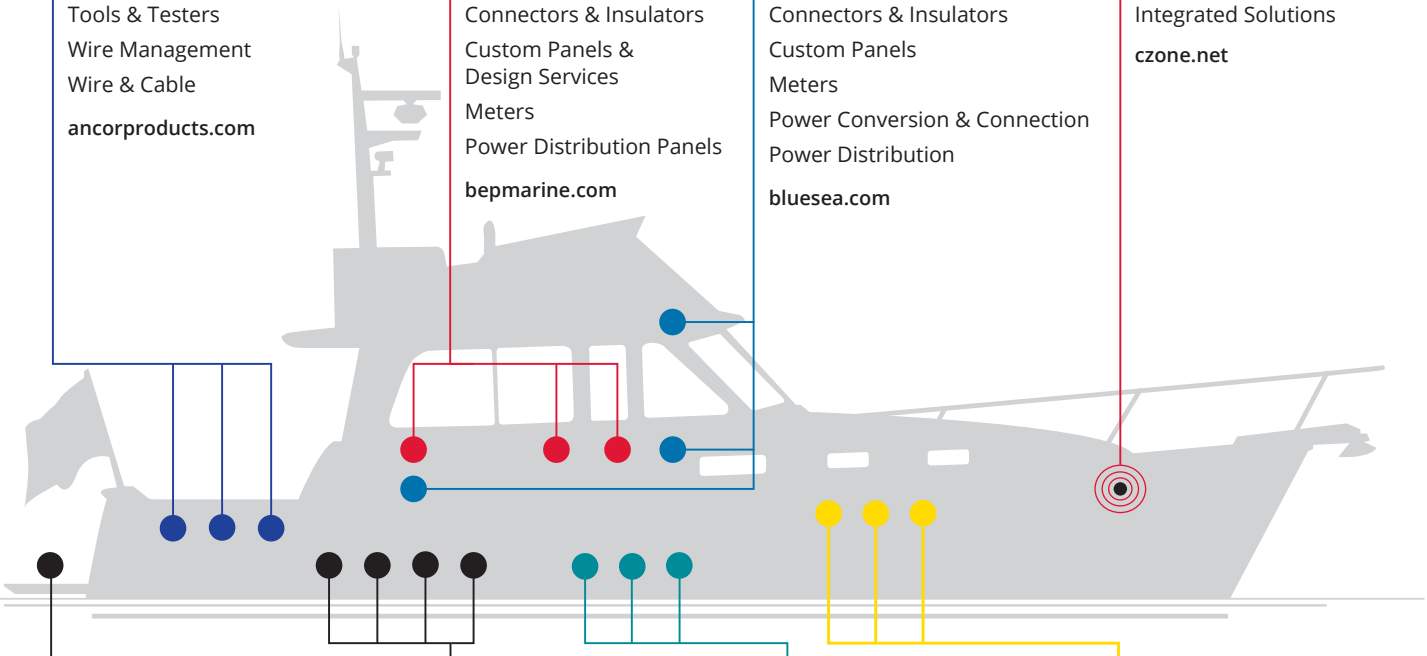
bepmarine.com

BLUE SEA SYSTEMS
Battery Management
Circuit Protection & Switches
Connectors & Insulators
Custom Panels
Meters
Power Conversion & Connection
Power Distribution

bluesea.com

CZONE
Accessories
Digital Control & Monitoring
Integrated Solutions

czone.net



LENCO
Actuators & Accessories
Auto Glide Automatic Boat Leveling
Electric Hatch Lifts
Electric Trim Tabs
Rocker Switch Kits
Tactile Switch Kits
Trim Tab Retrofit Kits

lencomarine.com

ProMariner™
Inverter / Chargers
Inverters
Isolators
Vented Battery Chargers
Waterproof Battery Chargers

promariner.com

MASTERVOLT
Alternators & Regulators
Batteries
Battery Chargers
Digital Control & Monitoring
Inverter / Chargers
Inverters
Transformers

mastervolt.us

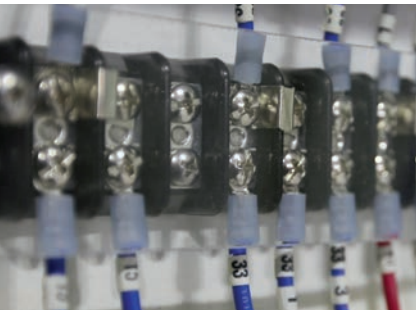
MARINCO
Battery Management
DC Power Connections
Horns
Lighting
Power Conversion
Shore Power
Ventilation
Wiper Systems

marinco.com

MEMBER ABYC Setting Standards for Safer Boating · NMEA · NMMA · NMDA National Marine Distributors Association Your Link to the Supply Chain











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. Product selection, quality, and service are the pillars of the brand, and only Ancor can be your single source for wire and accessories.

Selection

Over 1,600 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

2019 NEW Products



21

NMEA 2000 Power Isolator

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

Part # 270113



28

Heat Shrink Step-Down/Multi-Wire Connectors Kit

Reusable jar is clear for easy identification of the connectors and has a flip lid for ease of use.

Part # 320000



49

Wire Management Kits

New kits to provide everything needed for a wiring project.

Part # 250101 440 Piece Nylon Connectors and Terminals Kit
Part # 255101 100 Piece Tinned Copper Lug Kit
Part # 320101 160 Piece HS Connectors & Terminals Kit
Part # 330101 47 Piece Adhesive Lined Heat Shrink Tubing Kit



72

Refreshed Merchandising Displays

Updated product assortments and lower price point options.

27

500 pack 8 AWG Butt Connectors

Larger pack size for large usage.

Part # 309302



38

Adhesive Lined Heat Shrink Tubing (ALT)

Ancor now offers an expanded consistent line.



2020 NEW Products



17

Flat Ribbon Bonded RGB Cable

Color coded wire perfect for installing RGB lighting. Bonded cable simplifies installation.



23

NMEA APPROVED

NMEA 2000 Single Device Backbone Starter Kit

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

Part # 270203



EXPANDED OFFERING

27

Heat Shrink Disconnects

Expanding our line to include .110 and .187 sized female disconnects to follow the market with different sizes for different applications.

Part # 326899	(100) 22–18 AWG, .110 tab female disconnects
Part # 336899	(100) 22–18 AWG, .187 tab female disconnects
Part # 327899	(100) 16–14 AWG, .110 tab female disconnects
Part # 337899	(100) 16–14 AWG, .187 tab female disconnects
Part # SPKKIT	90 Pc Kit Assorted Kit

80

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.

Part # 270400





21

NMEA 2000 Accessories

New accessories in our comprehensive line of cables and connectors. Ancor now offers everything needed for standard installations or custom applications.

Part # 270107	Through Bulkhead Adaptor
Part # 270109	Female Field Serviceable Connector
Part # 270110	Male Field Serviceable Connector
Part # 270111	Female Blanking Cap
Part # 270112	Male Blanking Cap
Part # 270114	Inline Terminator



52

Cut/Strip/Crimp Tools

Innovative new tools expanding on Ancor's highly popular tool portfolio.

Part # 702007	Cut/Strip/Crimp Tool
Part # 702008	Cut/Strip Tool
Part # 702031	Compact Automatic Wire Stripper
Part # 702032	Universal Wire Stripper
Part # 703007	Heavy-duty Wire Scissors
Part # 703015	Angled 22–8 AWG Single Crimp Ratcheting Crimper
Part # 703035	Angled 26–10 AWG Single Crimp Ratcheting Crimper



58

Meters

Rounding out the Ancor line of hand tools with new meters.

Part # 703072	8 Function Digital Multimeter
Part # 703073	True RMS 12 Function Digital Multimeter
Part # 703079	True RMS 12 Function Digital Snap-Around Meter

Table of Contents

WIRE & CABLE

Primary Wire 10
Battery Cable & Assemblies 12
Duplex Cable 14
Triplex Cable 15
Specialty Cable 16
Trailer Cable & Assemblies 18
Coax Cable & Assemblies 19
NMEA 2000 Cables & Connectors 20

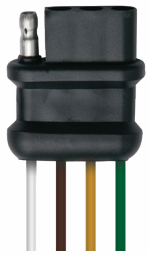

p. 10


p. 13


p. 15



p. 17


p. 18


p. 19


p. 20

TERMINALS & LUGS

Adhesive Lined Heat Shrink Terminals 26
Nylon Insulated Terminals 29
Vinyl Insulated Terminals 31
Coax Cable Fittings 32
Tinned Copper Lugs 33
Battery Terminals & Boots 34



p. 26



p. 27



p. 28


p. 29


p. 30


p. 31


p. 31


p. 32


p. 33


p. 34


p. 35

WIRE MANAGEMENT

Adhesive Lined Heat Shrink Tubing 38
Adhesive Lined Heavy Wall Heat Shrink Tubing 39
Repair Tape 40
Electrical Tape 40
Cable Ties 41
Wire Seals 47
Cable Clamps 46
Split Loom & Spiral Wrap 48
Grommets 47
Wire Management Kits 48



p. 38



p. 39


p. 40


p. 40


p. 41


p. 44


p. 43


p. 47


p. 46


p. 48



p. 49

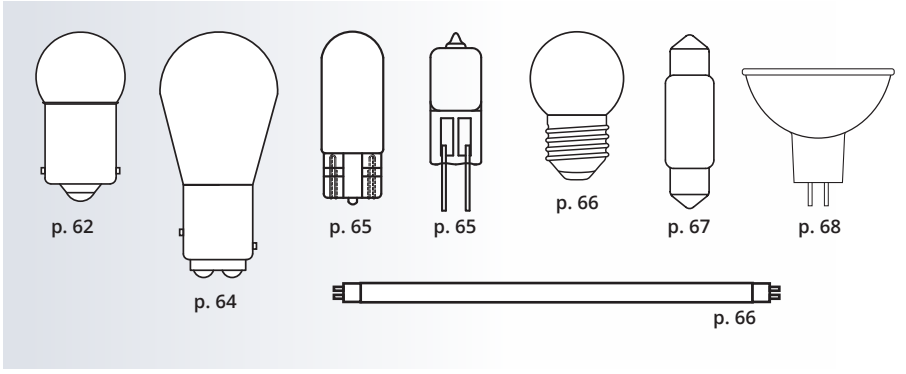
TOOLS & TESTERS

Cut/Strip/Crimp Tools 52
Mini Fish Tape 55
Heat Tools 56
Tool Kits 57
Digital Multimeters 58
Snap-Around Meters 59



LIGHTING

Bulbs 62
LED Bulb Cross Reference 68



DISPLAYS

Display Racks 72
Gondola Displays 77



APPENDIX & INDEX

Technical Data 81
Part Number Index 86

WIRE & CABLE

Primary Wire

10



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

Battery Cable & Assemblies

12



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.

Multiconductor Cables

14



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

Specialty Cable

16



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



WIRE & CABLE

Trailer Cable & Assemblies

18



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

Coax Cable & Assemblies

19



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.

NMEA 2000 Cables & Connectors

20



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 81–85 for ABYC wiring guidelines and technical data.

Primary Wire 18–14 AWG

18 AWG (0.8 mm²)

Color	Ft	Part #
Black	35	180003
	100	100010
	250	100025
	500	100050
	1000	100099
Red	35	180803
	100	100810
	250	100825
	500	100850
	1000	100899
Yellow	35	181003
	100	101010
	250	101025
	500	101050
	1000	101099
Green	35	180303
	100	100310
	250	100325
	500	100350
	1000	100399
White	35	180903
	100	100910
	250	100925
	500	100950
	1000	100999
Dk Blue	35	180103
	100	100110
	250	100125
	500	100150
	1000	100199
Brown	35	180203
	100	100210
	250	100225
	500	100250A
	1000	100299
Orange	35	180503
	100	100510
	250	100525
	500	100550
	1000	100599
Pink	35	180603
	100	100610
	250	100625
	500	100650
	1000	100699

18 AWG (0.8 mm²)

Color	Ft	Part #
Purple	35	180703
	100	100710
	250	100725
	500	100750
	1000	100799
Grey	35	180403
	100	100410
	250	100425
	500	100450
	1000	100499

16 AWG (1 mm²)

Color	Ft	Part #
Black	25	182003
	100	102010
	250	102025
	500	102050
	1000	102099
Red	25	182803
	100	102810
	250	102825
	500	102850
	1000	102899
Yellow	25	183003
	100	103010
	250	103025
	500	103050
	1000	103099
Green	25	182303
	100	102310
	250	102325AA
	500	102350
	1000	102399
White	25	182903
	100	102910
	250	102925
	500	102950
	1000	102999
Dk Blue	25	182103
	100	102110
	250	102125
	500	102150
	1000	102199

16 AWG (1 mm²)

Color	Ft	Part #
Brown	25	182203
	100	102210
	250	102225
	500	102250
	1000	102299
Orange	25	182503
	100	102510
	250	102525
	500	102550
	1000	102599
Pink	25	182603
	100	102610
	250	102625
	500	102650
Purple	25	182703
	100	102710
	250	102725
	500	102750
	1000	102799
Grey	25	182403
	100	102410
	250	102425
	500	102450
	1000	102499
Tan	100	101810
	250	101825
	500	101850
Lt Blue	100	101910
	250	101925
	500	101950

14 AWG (2 mm²)

Color	Ft	Part #
Black	18	184003
	100	104010
	250	104025
	500	104050
	1000	104099
Red	18	184803
	100	104810
	250	104825
	500	104850
	1000	104899

14 AWG (2 mm²)

Color	Ft	Part #
Yellow	18	185003
	100	105010
	250	105025
	500	105050
	1000	105099
Green	18	184303
	100	104310
	250	104325
	500	104350
	1000	104399
White	18	184903
	100	104910
	250	104925
	500	104950
	1000	104999
Dk Blue	18	184103
	100	104110
	250	104125
	500	104150
	1000	104199
Brown	18	184203
	100	104210
	250	104225
	500	104250
	1000	104299
Orange	18	184503
	100	104510
	250	104525
	500	104550
	1000	104599
Pink	18	184603
	100	104610
	250	104625
	500	104650
Purple	18	184703
	100	104710
	250	104725
	500	104750
Grey	18	184403
	100	104410
	250	104425
	500	104450
	1000	104499
Tan	100	103810
	250	103825
	500	103850
Lt Blue	100	103910
	250	103925
	500	103950



Primary Wire 12–6 AWG

12 AWG (3 mm²)

Color	Ft	Part #
Black	12	186003
	25	106002
	100	106010
	250	106025
	400	106040
	1000	106099
Red	12	186803
	25	106802
	100	106810
	250	106825
	400	106840
	1000	106899
Yellow	12	187003
	25	107002
	100	107010
	250	107025
	400	107040
	1000	107099
Green	12	186303
	25	106302
	100	106310
	250	106325
	400	106340
	1000	106399
White	12	186903
	25	106902
	100	106910
	250	106925
	400	106940
	1000	106999
Dk Blue	25	106102
	100	106110
	250	106125
	400	106140
	1000	106199
Brown	25	106202
	100	106210
	250	106225
	400	106240
	1000	106299
Orange	25	106502
	100	106510
	250	106525
	400	106540
	1000	106599
Pink	25	106602
	100	106610
	250	106625
	400	106640
Purple	25	106702
	100	106710
	250	106725
	400	106740
Grey	1000	106499
Tan	100	105810
	250	105825
	400	105840

10 AWG (5 mm²)

Color	Ft	Part #
Black	8	188003
	25	108002
	100	108010
	250	108025
	500	108050
	1000	108099
Red	8	188803
	25	108802
	100	108810
	250	108825
	500	108850
	1000	108899
Yellow	25	109002
	100	109010
	250	109025
	500	109050
	1000	109099
Green	25	108302
	100	108310
	250	108325
	500	108350
	1000	108399
White	25	108902
	100	108910
	250	108925
	500	108950
	1000	108999
Dk Blue	25	108102
	100	108110
	250	108125
	500	108150
	1000	108199
Brown	25	108202
	100	108210
	250	108225
	500	108250
	1000	108299
Orange	25	108502
	100	108510
	250	108525
	500	108550
	1000	108599
Grey	1000	108499
Green w/ Yellow Stripe	25	109302
	100	109310
	250	109325
	500	109350
	1000	109399

8 AWG (8 mm²)

Color	Ft	Part #
Black	25	111002
	50	111005
	100	111010
	250	111025
	500	111050
	1000	111099
Red	25	111502
	50	111505
	100	111510
	250	111525
	500	111550
	1000	111599
Yellow	25	111902
	50	111905
	100	111910
	250	111925
	500	111950
	1000	111999
Green	25	111302
	50	111305
	100	111310
	250	111325
	500	111350
	1000	111399
White	25	111702
	50	111705
	100	111710
	250	111725
	500	111750
	1000	111799

6 AWG (13 mm²)

Color	Ft	Part #
Black	25	112002
	50	112005
	100	112010
	250	112025
	500	112050
	750	112075
Red	25	112502
	50	112505
	100	112510
	250	112525
	500	112550
	750	112575
Yellow	25	112902
	50	112905
	100	112910
	250	112925
	500	112950
	750	112975
Green	25	112302
	50	112305
	100	112310
	250	112325
	500	112350
	750	112375
White	25	112702
	50	112705
	100	112710
	250	112725
	500	112750
	750	112775

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

4 AWG (21 mm²)

Color	Ft	Part #
Black	25	113002
	50	113005
	100	113010
	250	113025
	500	113050
Red	25	113502
	50	113505
	100	113510
	250	113525
	500	113550
Yellow	25	113902
	50	113905
	100	113910
	250	113925
	500	113950

2 AWG (34 mm²)

Color	Ft	Part #
Black	25	114002
	50	114005
	100	114010
	250	114025
	400	114040
Red	25	114502
	50	114505
	100	114510
	250	114525
	400	114540
Yellow	25	114902
	50	114905
	100	114910
	250	114925
	400	114940

1 AWG (42 mm²)

Color	Ft	Part #
Black	25	115002
	50	115005
	100	115010
	300	115030
Red	25	115502
	50	115505
	100	115510
	300	115530
Yellow	25	115902
	50	115905
	100	115910
	300	115930

1/0 AWG (53 mm²)

Color	Ft	Part #
Black	25	116002
	50	116005
	100	116010
	250	116025
Red	25	116502
	50	116505
	100	116510
	250	116525
Yellow	25	116902
	50	116905
	100	116910
	250	116925

2/0 AWG (68 mm²)

Color	Ft	Part #
Black	25	117002
	50	117005
	100	117010
	200	117020
Red	25	117502
	50	117505
	100	117510
	200	117520
Yellow	25	117902
	50	117905
	100	117910
	200	117920

3/0 AWG (85 mm²)

Color	Ft	Part #
Black	25	118002
	50	118005
	100	118010
	150	118015
Red	25	118502
	50	118505
	100	118510
	150	118515
Yellow	25	118902
	50	118905
	100	118910
	150	118915

4/0 AWG (107 mm²)

Color	Ft	Part #
Black	25	119002
	50	119005
	100	119010
	250	119025
Red	25	119502
	50	119505
	100	119510
	250	119525
Yellow	25	119902
	50	119905
	100	119910
	250	119925

Related Products


Battery Terminals
page 34


Lugs
page 33


Heat Shrink Tubing
page 38


Premium Electrical Tape
page 40


Cutting & Crimping Tools
pages 52–55

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



Premium Battery Cable Assemblies

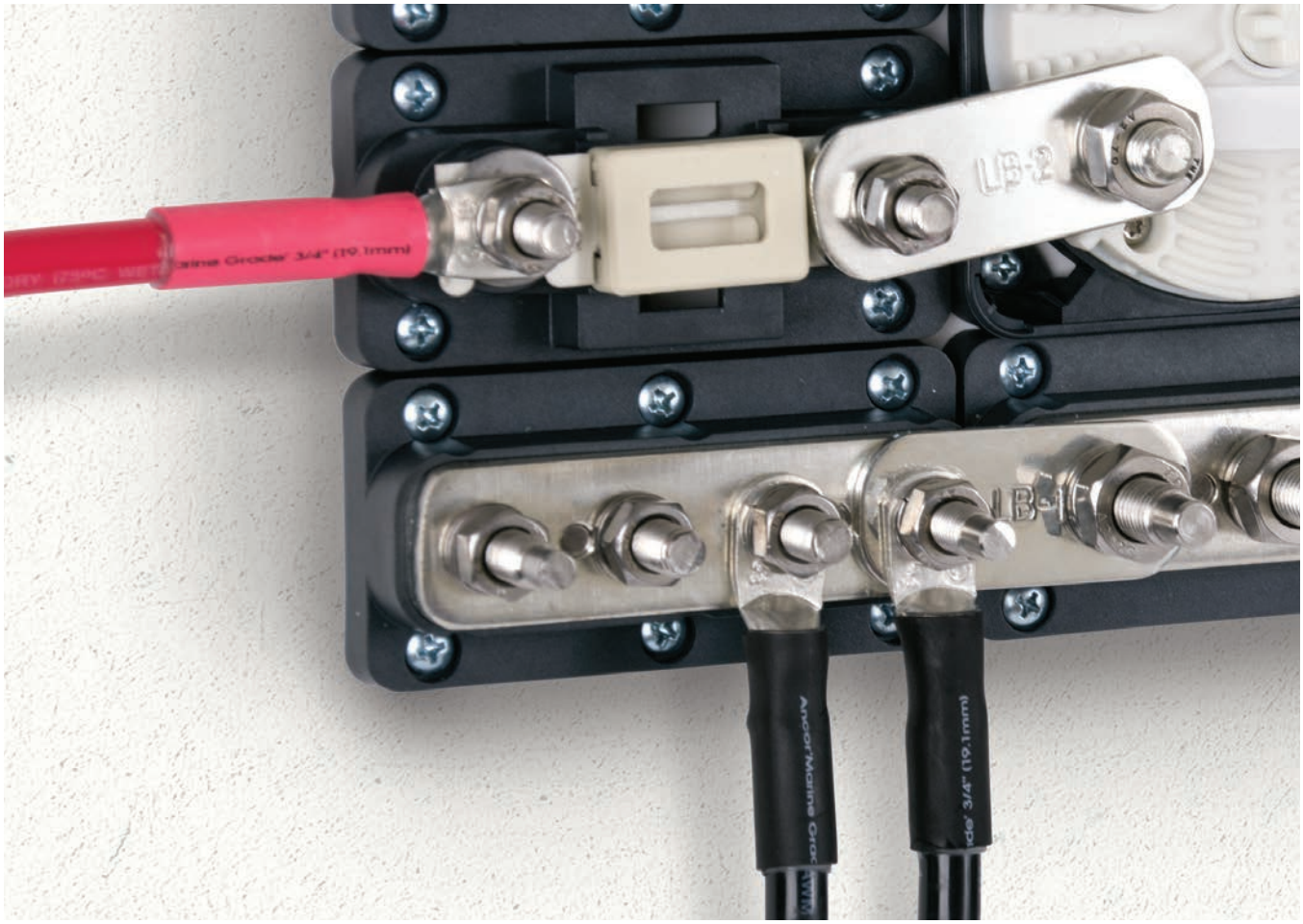
UL1426 Tinned Boat Cable

- 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**

Color	Length		Stud Size		Part #
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

Flat Cable



Spool Length	Part #	Nominal O.D.	Wt. per 1000'
18/2 AWG (2x0.8 mm²)			
100'	**124910**	3/16"x9/32" 5x7 mm	49 lbs 22.2 kg
250'	**124925**		
500'	**124950**		
1000'	**124999**		
16/2 AWG (2x1 mm²)			
25'	**124702**	3/16"x5/16" 5x8 mm	51 lbs 23.1 kg
100'	**124710**		
250'	**124725**		
500'	**124750**		
1000'	**124799**		
14/2 AWG (2x2 mm²)			
25'	**124502**	7/32"x11/32" 6x9 mm	65 lbs 29.5 kg
100'	**124510**		
250'	**124525**		
500'	**124550**		
1000'	**124599**		

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
12/2 AWG (2x3 mm²)			
25'	**124302**	7/32"x3/8" 6x10 mm	82 lbs 37.3 kg
100'	**124310**		
250'	**124325**		
500'	**124350**		
10/2 AWG (2x5 mm²)			
25'	**124102**	1/4"x15/32" 6x12 mm	128 lbs 58.2 kg
100'	**124110**		
250'	**124125**		
400'	**124140**		
800'	**124180**		
8/2 AWG (2x8 mm²)			
50'	**123905**	11/32"x5/8" 9x16 mm	230 lbs 104.5 kg
100'	**123910**		
500'	**123950**		
6/2 AWG (2x13 mm²)			
50'	**123705**	13/32"x3/4" 10x19 mm	364 lbs 165.5 kg
100'	**123710**		

Round Cable



Spool Length	Part #	Nominal O.D.	Wt. per 1000'
16/2 AWG (2x1 mm²)			
100'	**126710**	5/16" 8 mm	49 lbs 22.2 kg
250'	**126725**		
500'	**126750**		
14/2 AWG (2x2 mm²)			
100'	**126510**	11/32" 9 mm	63 lbs 28.6 kg
250'	**126525**		
500'	**126550**		

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
12/2 AWG (2x3 mm²)			
100'	**126310**	13/32" 10 mm	80 lbs 36.3 kg
250'	**126325**		
500'	**126350**		

Duplex Cable

Conductor colors: black and red

Flat Cable



Spool Length	Part #	Nominal O.D.	Wt. per 1000'
18/2 AWG (2x0.8 mm²)			
100'	**121910**	3/16"x9/32" 5x7 mm	49 lbs 22.2 kg
250'	**121925**		
500'	**121950**		
16/2 AWG (2x1 mm²)			
100'	**121710**	3/16"x5/16" 5x8 mm	51 lbs 23.1 kg
250'	**121725**		
500'	**121750**		
1000'	**121799**		
14/2 AWG (2x2 mm²)			
100'	**121510**	7/32"x11/32" 6x9 mm	65 lbs 29.5 kg
250'	**121525**		
500'	**121550**		
1000'	**121599**		

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
12/2 AWG (2x3 mm²)			
100'	**121310**	7/32"x3/8" 6x10 mm	82 lbs 37.3 kg
250'	**121325**		
500'	**121350**		
10/2 AWG (2x5 mm²)			
100'	**121110**	1/4"x15/32" 6x12 mm	128 lbs 58.2 kg
250'	**121125**		
400'	**121140**		
800'	**121180**		
8/2 AWG (2x8 mm²)			
50'	**120905**	11/32"x5/8" 9x16 mm	230 lbs 104.5 kg
100'	**120910**		
250'	**120925**		
6/2 AWG (2x13 mm²)			
50'	**120705**	13/32"x3/4" 10x19 mm	364 lbs 165.5 kg
100'	**120710**		

Triplex Cable

Conductor colors: black, green and white

Flat Cable



Spool Length	Part #	Nominal O.D.	Wt. per 1000'
16/3 AWG (3x1 mm²)			
100'	**131710**	3/16"x15/32" 5x12 mm	75 lbs 34 kg
250'	**131725**		
500'	**131750**		
1000'	**131799**		
14/3 AWG (3x2 mm²)			
100'	**131510**	7/32"x1/2" 6x13 mm	96 lbs 43.6 kg
250'	**131525**		
500'	**131550**		
900'	**131590**		
12/3 AWG (3x3 mm²)			
25'	**131302**	7/32"x17/32" 6x14 mm	125 lbs 56.8 kg
100'	**131310**		
250'	**131325**		
700'	**131370**		

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
10/3 AWG (3x5 mm²)			
100'	**131110**	1/4"x21/32" 6x17 mm	186 lbs 84.5 kg
300'	**131130**		
500'	**131150**		
8/3 AWG (3x8 mm²)			
25'	**130902**	3/8"x1" 10x25 mm	287 lbs 130.4 kg
50'	**130905**		
100'	**130910**		
6/3 AWG (3x13 mm²)			
50'	**130705**	7/16"x1-3/16" 11x30 mm	470 lbs 213.6 kg
100'	**130710**		

Round Cable



Spool Length	Part #	Nominal O.D.	Wt. per 1000'
16/3 AWG (3x1 mm²)			
100'	**133710**	11/32" 9 mm	75 lbs 34 kg
250'	**133725**		
14/3 AWG (3x2 mm²)			
100'	**133510**	13/32" 10 mm	96 lbs 43.6 kg
250'	**133525**		
900'	**133590**		

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
12/3 AWG (3x3 mm²)			
100'	**133310**	7/16" 11 mm	125 lbs 56.8 kg
250'	**133325**		

Related Products



Cutting & Stripping Tools pages 53–55



Wire Seals page 47

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



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**	1/8"x1/4" 3.2x6.4 mm	32 lbs 14.5 kg
250'	**153125**		
500'	**153150**		

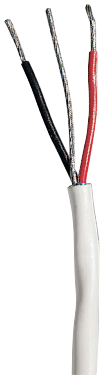


Signal Cable

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**	5/32"x1/4" 4x6.4 mm	18 lbs 8.1 kg
100'	**122010**		
250'	**122025**		
500'	**122050**		



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" 5.6 mm	30 lbs 13.6 kg
500'	**153050**		



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

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



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" 8.85 mm	78 lbs 35.5 kg
250'	**156625**		
14/3 AWG (3x2 mm²)			
100'	**156410**	.377" 9.6 mm	99 lbs 45.0 kg
250'	**156425**		
500'	**156450**		



European Color Code AC Cable

Premium Tinned Copper, Class K Stranding

Conductor colors: blue, brown and green with yellow stripe

Spool Length	Part #	Nominal O.D.	Wt. per 1000'
10/3 AWG (3x5 mm²)			
500'	**131151**	1/4"x21/32" 6x17 mm	186 lbs 84.5 kg



Round Mast

UL 1426 Tinned Boat Cable

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

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



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" 7.9 mm	63 lbs 28.6 kg
250'	**158025**		
1000'	**158099**		



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'
16/3 Phone			
100'	**153510**	5/16" 6 mm	75 lbs 34 kg
300'	**153530**		
10/3 STOW			
100'	**153710**	21/32" 17 mm	284 lbs 129 kg
250'	**153725**		
10/3 STW			
250'	**SPC103**	21/32" 17 mm	284 lbs 129 kg
6/3 STOW			
100'	**153910**	31/32" 24.4 mm	540 lbs 254.4 kg
250'	**153925**		
6/3 STW			
per/ft**	**100320F**	31/32" 24.4 mm	540 lbs 254.4 kg
6/4 STW			
per/ft**	**100319F**	1-5/64" 27.4 mm	695 lbs 316 kg

*SPC103, 100320 and 100319 are not tinned wire
**50 ft minimum



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" 6.4 mm	38 lbs 17.2 kg
100'	**150110**		



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" 6.7 mm	29 lbs 13 kg
16/2 AWG (2x1 mm²)			
100'	**142610**	.319" 8.1 mm	51 lbs 23.1 kg
250'	**142625**		
500'	**142650**		
14/2 AWG (2x2 mm²)			
100'	**142410**	.345" 8.8 mm	65 lbs 29.5 kg
250'	**142425**		
1000'	**142499**		



Flat Ribbon Bonded RGB Cable NEW

Tinned Bonded 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" 2.3x9.3 mm	48 lbs 21.8 kg
1000'	**160099**		
16/4 AWG (4x1 mm²)			
100'	**160110**	1/8"x15/32" 2.6x10.5 mm	64 lbs 29.0 kg
1000'	**160199**		
14/4 AWG (4x2 mm²)			
100'	**160210**	7/64"x15/32" 3.0x11.9 mm	92 lbs 41.7 kg
1000'	**160299**		



Trailer Cable & Assemblies



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

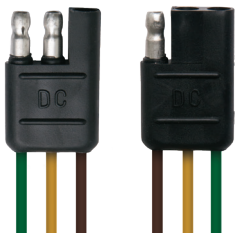
2-wire



male female

length	style	part #
8"	male	**249111**
8"	female	**249112**
12"	loop	**249102**
48"	loop	**249106**

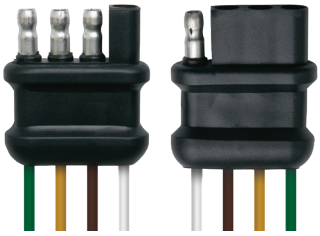
3-wire



male female

length	style	part #
8"	male	**249113**
8"	female	**249114**
12"	loop	**249103**
48"	loop	**249107**

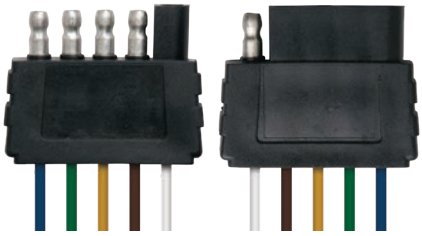
4-wire



male female

length	style	part #
8"	male	**249115**
8"	female	**249116**
48"	male	**249117**
48"	female	**249118**
12"	loop	**249101**
48"	loop	**249105**
72"	loop	**249109**

5-wire



male female

length	style	part #
8"	male	**249119**
8"	female	**249120**
48"	male	**249121**
48"	female	**249122**
12"	loop	**249104**
48"	loop	**249108**
72"	loop	**249110**

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" 4.8 mm	26 lbs 11.8 kg
250'	**150525**		
RG 59U			
250'	**151025**	1/4" 6.4 mm	36 lbs 16.3 kg
500'	**151050**		
RG 8X			
100'	**151510**	1/4" 6.4 mm	40 lbs 18.1 kg
250'	**151525**		
500'	**151550**		
1000'	**151560**		
RG 213			
100'	**151710**	13/32" 10.3 mm	110 lbs 50 kg
250'	**151725**		
500'	**151750**		

Related Products



Coaxial Cable Fittings
page 32

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

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

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

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



270000

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.

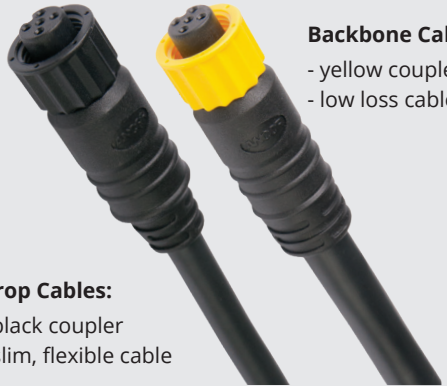
- Includes a tee for direct connection to backbone cables
- Large 18 AWG power conductors to reduce voltage drop, provide better reliability and meet the requirements of ABYC and the USCG for minimum size power conductors

Part #	**270000**	3.3 ft	1 m

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



270001

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



270300

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

APPROVED

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

APPROVED

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 NEW

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 NEW

Cover unused couplers.

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

Part #	**270111**	Female
Part #	**270112**	Male



270111 **270112**

APPROVED

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 NEW

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 NEW

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



APPROVED

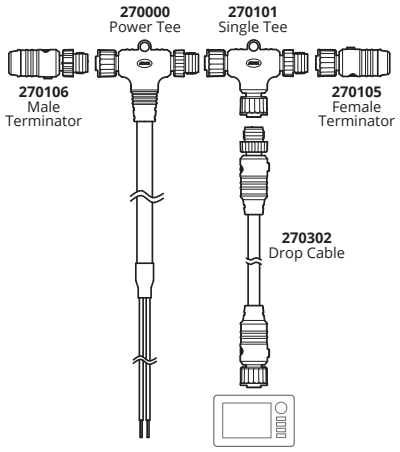
NMEA 2000 Single Device Starter Kit

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





APPROVED

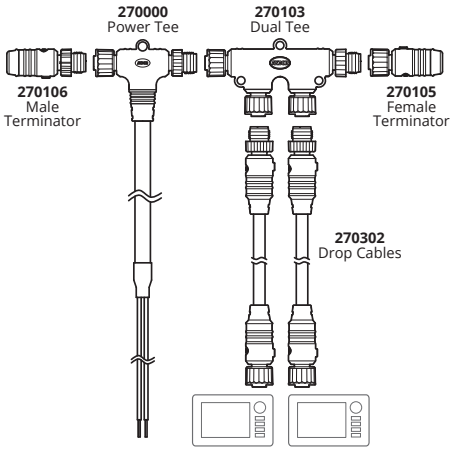
NMEA 2000 Dual Device Starter Kit

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





APPROVED

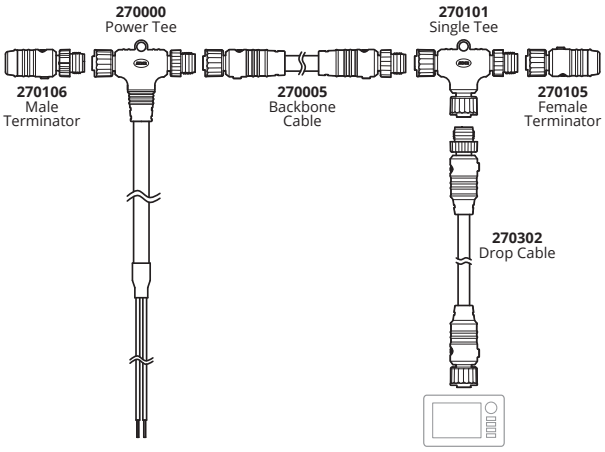
NMEA 2000 Single Device Backbone Starter Kit NEW

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

Adhesive Lined Heat Shrink Terminals

26



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

Nylon Insulated Terminals

29



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

Vinyl Insulated Terminals

31



Ideal for non-waterproof applications.



TERMINALS & LUGS

Coax Cable Fittings

32



Ancor's complete line of coax fittings allows custom cable lengths to fit any application.

Tinned Copper Lugs

33



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

Battery Terminals, Covers & Clips

34



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

EXPANDED OFFERING

- 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	Screw Size		Qty/ Pkg	Part #
22–18 0.3–0.8 mm²	#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
16–14 1–2 mm²	#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	Screw Size		Qty/ Pkg	Part #
12–10 3–5 mm²	#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
8 8 mm²	#10	4.8 mm	3	321303
			25	321325
	1/4"	6.4 mm	3	321403
			25	321425
	5/16"	7.9 mm	3	321503
			25	321525
	3/8"	9.5 mm	3	321603
			25	321625
	1/2"	12.7 mm	3	321703
			25	321725

Heat Shrink Snap Plugs



AWG	Gender	Qty/ Pkg	Part #
22–18 0.3–0.8 mm²	Female	3	318803
		25	318825
		100	318899
	Male	3	318903
		25	318925
		100	318999
16–14 1–2 mm²	Female	3	319803
		25	319825
		100	319899
	Male	3	319903
		25	319925
		100	319999

Heat Shrink Spade Terminals

- UL 486A



AWG	Screw Size		Qty/ Pkg	Part #
22–18 0.3–0.8 mm²	#8	4 mm	3	313203
			25	313225
			100	313299
16–14 1–2 mm²	#8	4 mm	3	314203
			25	314225
			100	314299
	#10	4.8 mm	3	314303
			25	314325
			100	314399
12–10 3–5 mm²	#8	4 mm	3	315203
			25	315225
			100	315299
	#10	4.8 mm	3	315303
			25	315325
			100	315399

Related Products



Crimping Tools pages 53–55



Heat Tools page 56

Heat Shrink Butt Connectors

- UL 486C



AWG	Qty/ Pkg	Part #
22–18 0.3–0.8 mm²	3	**309003**
	25	**309025**
	100	**309099**
	500	**309002**
16–14 1–2 mm²	3	**309103**
	25	**309125**
	100	**309199**
	500	**309102**
12–10 3–5 mm²	3	**309203**
	25	**309225**
	100	**309299**
	500	**309202**
8 8 mm²	3	**309303**
	25	**309325**
NEW	500	**309302**



309000



220011

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 mm²	250	jar	**309001**
16–14 1–2 mm²	250	jar	**309101**
12–10 3–5 mm²	200	jar	**309201**
Assorted (50) 22-18, (150) 16-14, (50) 12-10 AWG	250	jar	**309000**
Assorted (25) each	75	case	**220011**
Assorted (10) 22-18, (20) 16-14, (10) 12-10 AWG	40	clam	**220012**

Heat Shrink Disconnects

EXPANDED OFFERING



AWG	Tab Size	Gender	Qty/ Pkg	Part #
NEW	.110	Female	100	**326899**
NEW	.187	Female	100	**336899**
22–18 0.3–0.8 mm²	.250	Female	3	**316803**
			25	**316825**
			100	**316899**
	.250	Male	3	**316903**
			25	**316925**
			100	**316999**
NEW	.110	Female	100	**327899**
NEW	.187	Female	100	**337899**
16–14 1–2 mm²	.250	Female	3	**317803**
			25	**317825**
			100	**317899**
	.250	Male	3	**317903**
			25	**317925**
			100	**317999**
12–10 3–5 mm²	.250	Female	3	**320803**
			25	**320825**
			100	**320899**
	.250	Male	3	**320903**
			25	**320925**
			100	**320999**



SPK1614



SPK2218



NEW

SPKKIT

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	Qty/ Pkg	Pkg	Part #
22–18 0.3–0.8 mm²	6	clam	**SPK2218**
16–14 1–2 mm²	6	clam	**SPK1614**

AWG	Qty/ Pkg	Pkg	Part #
NEW **Assorted**	90	case	**SPKKIT**

6 pc Kits include:

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

90 pc Kit includes:

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

Heat Shrink Step-Down/Multi-Wire Connectors



Ancor's new assortment of adhesive lined heat shrink butt connectors can be used as a step-down from one gauge size to another or as a multi-wire connector for one gauge size wire. These connectors offer a sealed alternative for products such as a quick-tap or 3-way connector in areas where corrosion is a concern.

- 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**		

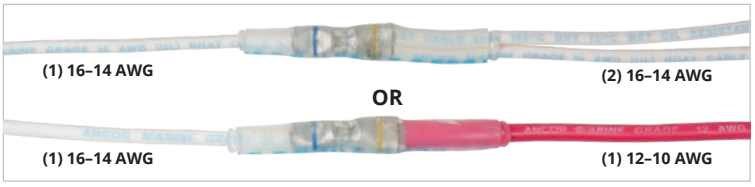
Kit

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**	NEW



320000

16–14 AWG Step-Down Connector Example



TECH tip

Why Heat Shrink Terminals?

Heat shrink terminals create a sealed connection between the terminal itself and the wire the connector is crimped to. Sealed connections prevent corrosion and provide additional strain relief for the connection. Corrosion reduces the carrying capacity of the electrical system and reduces the strength of the conductor. Over time, wire that is not sealed can degrade and break, leading to costly repairs.

Related Products



Crimping Tools pages 53–55



Heat Tools page 56

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 486C

AWG	Screw Size		Qty/ Pkg	Part #
22–18 0.3–0.8 mm²	#6	3.6 mm	6	**230201**
			25	**210201**
	#8	4 mm	6	**230202**
			25	**210202**
			100	**220202**
	#10	4.8 mm	6	**230203**
			25	**210203**
			100	**220203**
			500	**222203**
	1/4"	6.4 mm	5	**230204**
			25	**210204**
			100	**220204**
	5/16"	7.9 mm	5	**230205**
			25	**210205**
			100	**220205**
	3/8"	9.5 mm	5	**230206**
			25	**210206**
			100	**220206**
16–14 1–2 mm²	#6	3.6 mm	6	**230211**
			25	**210211**
	#8	4 mm	6	**230212**
			25	**210212**
			100	**220212**
	#10	4.8 mm	6	**230213**
			25	**210213**
			100	**220213**
			500	**222213**
	1/4"	6.4 mm	5	**230214**
			25	**210214**
			100	**220214**
	5/16"	7.9 mm	5	**230215**
			25	**210215**
			100	**220215**
	3/8"	9.5 mm	5	**230216**
			25	**210216**
			100	**220216**

AWG	Screw Size		Qty/ Pkg	Part #
12–10 3–5 mm²	#6	3.6 mm	5	**230221**
			25	**210221**
	#8	4 mm	5	**230222**
			25	**210222**
			100	**220222**
	#10	4.8 mm	5	**230223**
			25	**210223**
			100	**220223**
			500	**222223**
	1/4"	6.4 mm	4	**230224**
			25	**210224**
			100	**220224**
	5/16"	7.9 mm	4	**230225**
			25	**210225**
			100	**220225**
	3/8"	9.5 mm	4	**230226**
			25	**210226**
			100	**220226**
	1/2"	12.7 mm	3	**230227**
			25	**210227**
			100	**220227**
8 8 mm²	#10	4.8 mm	2	**230233**
			25	**210233**
			100	**222233**
	1/4"	6.4 mm	2	**230234**
			25	**210234**
			100	**222234**
	5/16"	7.9 mm	2	**230235**
			25	**210235**
			100	**222235**
	3/8"	9.5 mm	2	**230236**
			25	**210236**
			100	**222236**
	1/2"	12.7 mm	1	**230237**
			25	**210237**
			100	**222237**

AWG	Screw Size		Qty/ Pkg	Part #
6 13 mm²	#10	4.8 mm	1	**230243**
			25	**210243**
			100	**222243**
	1/4"	6.4 mm	1	**230244**
			25	**210244**
			100	**222244**
	5/16"	7.9 mm	1	**230245**
			25	**210245**
			100	**222245**
	3/8"	9.5 mm	1	**230246**
			25	**210246**
			100	**222246**
	1/2"	12.7 mm	1	**230247**
			25	**210247**
			100	**222247**
4 21 mm²	#10	4.8 mm	1	**230253**
			25	**210253**
			100	**222253**
	1/4"	6.4 mm	1	**230254**
			25	**210254**
			100	**222254**
	5/16"	7.9 mm	1	**230255**
			25	**210255**
			100	**222255**
	3/8"	9.5 mm	1	**230256**
			25	**210256**
			100	**222256**
	1/2"	12.7 mm	1	**230257**
			25	**210257**
			100	**222257**

Related Products



Crimping Tools
pages 53–55

Nylon Flanged Spades



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

AWG	Screw Size		Qty/ Pkg	Part #
22–18 0.3–0.8 mm²	#6	3.6 mm	6	230301
			25	210301
	#8	4 mm	6	230302
			25	210302
			100	220302
	#10	4.8 mm	6	230303
			25	210303
			100	220303
16–14 1–2 mm²	#6	3.6 mm	6	230311
			25	210311
	#8	4 mm	6	230312
			25	210312
			100	220312
	#10	4.8 mm	6	230313
			25	210313
			100	220313
12–10 3–5 mm²	#6	3.6 mm	5	230321
			25	210321
	#8	4 mm	5	230322
			25	210322
			100	220322
	#10	4.8 mm	5	230323
			25	210323
			100	220323

Nylon Single Crimp Butt Connectors



- Nylon insulated seamless
- UL 486C

AWG	Qty/ Pkg	Part #
22–18 0.3–0.8 mm²	7	230100
	25	210100
	100	220100
	500	222100
16–14 1–2 mm²	7	230110
	25	210110
	100	220110
	500	222110
12–10 3–5 mm²	5	230120
	25	210120
	100	220120
	500	222120

Nylon Double Crimp Butt Connectors



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

AWG	Qty/ Pkg	Part #
22–18 0.3–0.8 mm²	3	230161
	25	210161
	100	220161
	500	222161
16–14 1–2 mm²	3	230162
	25	210162
	100	220162
	500	222162
12–10 3–5 mm²	2	230163
	25	210163
	100	220163
	500	222163

Nylon Fully Insulated Disconnects



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

AWG	Gender	Qty/ Pkg	Part #
22–18 0.3–0.8 mm²	Female	4	231408
		25	211408
		100	221408
	Male	4	231409
		25	211409
		100	221409
16–14 1–2 mm²	Female	4	231418
		25	211418
		100	221418
	Male	4	231419
		25	211419
		100	221419
12–10 3–5 mm²	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	Gender	Qty/ Pkg	Part #
22–18 0.3–0.8 mm²	Female	4	230808
		25	210808
		100	220808
	Male	4	230809
		25	210809
		100	220809
16–14 1–2 mm²	Female	4	230818
		25	210818
		100	220818
	Male	4	230819
		25	210819
		100	220819
12–10 3–5 mm²	Female	3	230828
		25	210828
		100	220828
	Male	3	230829
		25	210829
		100	220829

Nylon 3-Way Connectors



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

AWG	Qty/ Pkg	Part #
16–14 1–2 mm²	1	230510
	25	210510
12–10 3–5 mm²	1	230520
	25	210520

Nylon Snap Plugs

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



AWG	Gender	Qty/ Pkg	Part #
22–18 0.3–0.8 mm²	Female	4	**230709**
		25	**210709**
		100	**220709**
	Male	4	**230708**
		25	**210708**
		100	**220708**
16–14 1–2 mm²	Female	4	**230719**
		25	**210719**
		100	**220719**
	Male	4	**230718**
		25	**210718**
		100	**220718**

Splash Proof Snap Plugs with Inserts

- Includes both female and male plugs



AWG	Qty/ Pkg	Part #
22–18 0.3–0.8 mm²	4	**231480**
	25	**211480**
16–14 1–2 mm²	4	**231490**
	25	**211490**

Nylon Multi-Stack Connectors

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



AWG	Qty/ Pkg	Part #
16–14 1–2 mm²	3	**230612**
	25	**210612**
	100	**220612**

Vinyl Step Down Butt Connectors

- Vinyl insulated
- UL 486C



AWG	Qty/ Pkg	Part #
16–14 to 22–18 1–2 to 0.3–0.8 mm²	3	**230164**
	25	**210164**
	100	**220164**
12–10 to 16–14 3–5 to 1–2 mm²	3	**230165**
	25	**210165**
8 to 12–10 8 to 3–5 mm²	3	**230166**
	25	**210166**

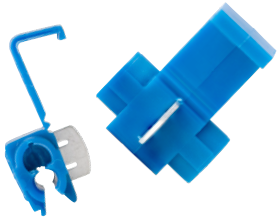
Vinyl Butt Connectors

- Vinyl insulated
- UL 486C



AWG	Qty/ Pkg	Part #
8 8 mm²	2	**230130**
	25	**210130**
	100	**222130**
6 13 mm²	1	**230140**
	25	**210140**
	100	**222140**
4 21 mm²	1	**230150**
	25	**210150**
	100	**222150**

Splice Connects



AWG	Qty/ Pkg	Part #
18–14 0.8–2 mm²	4	**230615**
	25	**210615**
	100	**220615**

Double Male-Female Adapter

- .250 (6.4mm) tab size



Qty/ Pkg	Part #
5	**230613**
25	**210613**

Related Products



Crimping Tools pages 53–55

Coax Cable Fittings

	Description	Hex	Wire Size	Qty/ Pkg	Part #
BNC Connectors					
	Crimp-On Male Plug	.320/.250	RG59	1	**203100**
UHF Connectors					
	Twist UHF Male Plug (PL259)		RG58	1	**202175**
			RG8X	1	**202176**
	Solder On UHF Male Plug (PL259)		RG8U/ RG213	1	**200259**
	Double Female (PL258)			1	**200258**
	Deck Bulkhead Feed (PL258)			1	**200250**

Related Products



Coaxial Cable
page 19

TECH tip

Installation Instructions for Twist-on Connectors

1. To install Ancor twist-on connectors, strip the cable to expose 9/16" of the center conductor. Strip the outer jacket to expose 1/4" of the braid. Make sure that the braided shield does not touch the inner conductor.
2. Insert the cable into the connector until the center conductor protrudes through the center of the connector.
3. Twist the small knurled end while gently pushing the connector onto the cable until resistance is felt. Crimp or solder the center conductor.
4. Cut off any excess. It is strongly recommended that a piece of Ancor 3/4" heat shrink be installed on all exterior UHF connectors to waterproof and relieve strain.

Tinned Copper Lugs

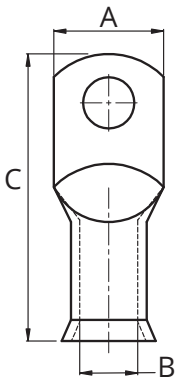
- Ancor Marine Grade® lugs are manufactured from heavy-duty annealed tinned copper, providing for maximum current flow
- 100% tin plated copper resists corrosion from salt and moisture
- Seamless barrel design allows for maximum strength when crimped
- Closed end design seals out moisture so cables stay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



AWG	Screw Size		Qty/ Pkg	Part #
8 8 mm²	#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**
	1/2"	12.7 mm	2	**252237**
			10	**242237**
	5/16" & 3/8"	7.9 & 9.5 mm	1/1	**252231**
6 13 mm²	#10	4.8 mm	2	**252243**
			25	**242243**
			100	**244243**
	1/4"	6.4 mm	2	**252244**
			25	**242244**
			100	**244244**
	5/16"	7.9 mm	2	**252245**
			25	**242245**
			100	**244245**
	3/8"	9.5 mm	2	**252246**
			25	**242246**
			100	**244246**
	1/2"	12.7 mm	2	**252247**
			10	**242247**
	5/16" & 3/8"	7.9 & 9.5 mm	1/1	**252241**

AWG	Screw Size		Qty/ Pkg	Part #
4 21 mm²	#10	4.8 mm	2	**252253**
			25	**242253**
			100	**244253**
	1/4"	6.4 mm	2	**252254**
			25	**242254**
			100	**244254**
	5/16"	7.9 mm	2	**252255**
			25	**242255**
			100	**244255**
	3/8"	9.5 mm	2	**252256**
			25	**242256**
			100	**244256**
	1/2"	12.7 mm	2	**252257**
			10	**242257**
	5/16" & 3/8"	7.9 & 9.5 mm	1/1	**252251**
2 34 mm²	1/4"	6.4 mm	2	**252264**
			25	**242264**
	5/16"	7.9 mm	2	**252265**
			25	**242265**
			100	**244265**
	3/8"	9.5 mm	2	**252266**
			25	**242266**
			100	**244266**
	1/2"	12.7 mm	2	**252267**
			10	**242267**
	5/16" & 3/8"	7.9 & 9.5 mm	1/1	**252261**
1 42 mm²	1/4"	6.4 mm	2	**252274**
			25	**242274**
	5/16"	7.9 mm	2	**252275**
			25	**242275**
			100	**244275**
	3/8"	9.5 mm	2	**252276**
			25	**242276**
			100	**244276**
	1/2"	12.7 mm	2	**252277**
			10	**242277**
	5/16" & 3/8"	7.9 & 9.5 mm	1/1	**252271**

AWG	Screw Size		Qty/ Pkg	Part #
1/0 53 mm²	1/4"	6.4 mm	2	**252284**
			25	**242284**
	5/16"	7.9 mm	2	**252285**
			25	**242285**
			100	**244285**
	3/8"	9.5 mm	2	**252286**
			25	**242286**
			100	**244286**
	1/2"	12.7 mm	2	**252287**
			10	**242287**
	5/16" & 3/8"	7.9 & 9.5 mm	1/1	**252281**
2/0 68 mm²	1/4"	6.4 mm	2	**252294**
			25	**242294**
	5/16"	7.9 mm	2	**252295**
			25	**242295**
			100	**244295**
	3/8"	9.5 mm	2	**252296**
			25	**242296**
			100	**244296**
	1/2"	12.7 mm	2	**252297**
			10	**242297**
	5/16" & 3/8"	7.9 & 9.5 mm	1/1	**252291**
3/0 85 mm²	5/16"	7.9 mm	2	**252715**
			10	**242715**
			100	**244715**
	3/8"	9.5 mm	2	**252716**
			10	**242716**
			100	**244716**
	1/2"	12.7 mm	2	**252717**
			10	**242717**
4/0 107 mm²	5/16"	7.9 mm	2	**252725**
			10	**242725**
			100	**244725**
	3/8"	9.5 mm	2	**252726**
			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"

AWG	A	B	C
1/0	0.725"	0.410"	1.845"
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 53–55

Heavy-duty Butt Connectors

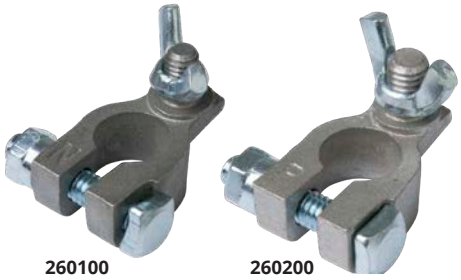
100% Tinned Copper • UL 486A

AWG		Qty/ Pkg	Part #
8	8 mm²	2	**252130**
6	13 mm²	2	**252140**
4	21 mm²	2	**252150**
2	34 mm²	2	**252160**
1	42 mm²	2	**252170**
1/0	53 mm²	2	**252180**
2/0	68 mm²	2	**252190**



Lead Battery Terminals

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

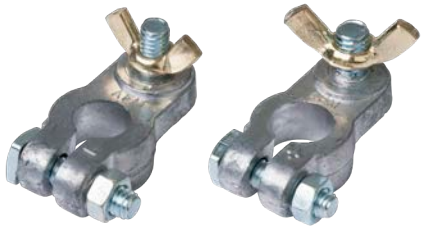


260100 **260200**



Tinned Brass Battery Terminals

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



260010 **260012**

Related Products



Battery Terminal Cleaner
page 57



Adhesive Lined Heavy Wall Battery Cable Tubing
page 39

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**



260350

260381



Anti-Corrosion Rings

- Prevents acid leak corrosion
- Chemically treated to prevent terminal corrosion
- Made from non-woven felt and saturated in a battery corrosion preventative compound.

Color	Qty/ Pkg	Part #
Red/Black	1/1	**260405**



Battery Clips

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



WIRE MANAGEMENT

Adhesive Lined Heat Shrink Tubing

38

EXPANDED OFFERING



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.

Repair & Electrical Tape

40



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

Cable Ties

41



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.

Wire Seals

47



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.



WIRE MANAGEMENT

Cable Clamps

46



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

Split Loom & Spiral Wrap

48



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

Grommets

47



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

Wire Management Kits

49



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)

EXPANDED OFFERING

- 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 mm²	**<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 mm²	**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	3"	7.6 cm	3	**302603** NEW
			6"	15.2 cm	10	**302606** NEW
			12"	30.5 cm	10	**302624** NEW
			48"	122 cm	1	**302648** NEW
16-10 AWG 1–5 mm²	**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	3"	7.6 cm	1/1	**303602** NEW
		Red	3"	7.6 cm	3	**303603**
			6"	15.2 cm	5	**303606**
			12"	30.5 cm	10	**303624**
			48"	122 cm	1	**303648**
12–8 AWG 3–8 mm²	**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	3"	7.6 cm	1/1	**304602**
		Red	3"	7.6 cm	3	**304603**
			6"	15.2 cm	5	**304606**
			12"	30.5 cm	5	**304624**
			48"	122 cm	1	**304648**
8–4 AWG 8–19 mm²	**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	3"	7.6 cm	1/1	**305602**
		Red	3"	7.6 cm	3	**305603**
			6"	15.2 cm	5	**305606** NEW
			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 mm²	**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**
		Red	3"	7.6 cm	3	**306603**
			6"	15.2 cm	4	**306606**
			12"	30.5 cm	4	**306624**
			48"	122 cm	1	**306648**
		Yellow	3"	7.6 cm	3	**306903** NEW
			6"	15.2 cm	4	**306906** NEW
			12"	30.5 cm	4	**306924**
			48"	122 cm	1	**306948** NEW
2–4/0 AWG 32–103 mm²	**1"** 25.4 mm	Black	3"	7.6 cm	3	**307103**
			6"	15.2 cm	3	**307106**
			12"	30.5 cm	3	**307124**
			48"	122 cm	1	**307148**
		Black/Red	3"	7.6 cm	1/1	**307602** NEW
		Red	3"	7.6 cm	3	**307603** NEW
			6"	15.2 cm	3	**307606** NEW
			12"	30.5 cm	3	**307624**
			48"	122 cm	1	**307648**
		Yellow	3"	7.6 cm	3	**307903** NEW
			6"	15.2 cm	4	**307906**
			12"	30.5 cm	4	**307924** NEW
			48"	122 cm	1	**307948** NEW

Kits

Wire Range	ALT Dia	Color	Length		Qty/ Pkg	Part #
20–2/0 AWG .5–62 mm²	**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 mm²	**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 mm²	**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 mm²
3/16"	4.8 mm	1/16"	1.6 mm	20–12	0.5–3 mm²
1/4"	6.4 mm	5/64"	2 mm	16–10	1–5 mm²
3/8"	9.5 mm	1/8"	3.2 mm	12–8	3–8 mm²
1/2"	12.7 mm	5/32"	4 mm	8–4	8–19 mm²
3/4"	19 mm	1/4"	6.4 mm	8–2/0	13–62 mm²
1"	25.4 mm	5/16"	7.9 mm	2–4/0	32–103 mm²

Related Products



Nylon terminals page 29



Heat Tools page 56

Adhesive Lined Heavy Wall Battery Cable Tubing (BCT)

EXPANDED OFFERING

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



326202



327202

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**
	Red	3"	7.6 cm	3	**326603**
		6"	15.2 cm	3	**326606**
		12"	30.5 cm	3	**326624**
		48"	122 cm	1	**326648**
	Yellow	3"	7.6 cm	3	**326903** NEW
		6"	15.2 cm	3	**326906** NEW
		12"	30.5 cm	3	**326924** NEW

BCT Dia.	BCT Color	Length		Qty/ Pkg	Part #
1" 25 mm	Black	3"	7.6 cm	2	**327103** NEW
		6"	15.2 cm	2	**327106** NEW
		12"	30.5 cm	2	**327124**
		48"	122 cm	1	**327148**
	Black/Red	3"	7.6 cm	1/1	**327202**
	Red	3"	7.6 cm	2	**327603** NEW
		6"	15.2 cm	2	**327606**
		12"	30.5 cm	2	**327624**
		48"	122 cm	1	**327648**
	Yellow	3"	7.6 cm	2	**327903** NEW
		6"	15.2 cm	2	**327906** NEW
		12"	30.5 cm	2	**327924** NEW

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 33



Heat Tools page 56

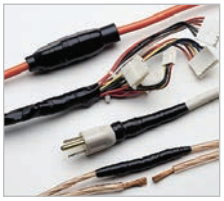
Repair Tape

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
Blue	1"x10'	**342010**	1/roll
Clear	1"x10'	**343010**	1/roll
Green	1"x10'	**344010**	1/roll
Grey	1"x10'	**345010**	1/roll
Red	1"x10'	**346010**	1/roll
White	1"x10'	**347010**	1/roll
Yellow	1"x10'	**348010**	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
Blue	3/4"x66'	**332066**	1/roll
Brown	3/4"x66'	**333066**	1/roll
Orange	3/4"x66'	**334066**	1/roll
Green	3/4"x66'	**335066**	1/roll
Red	3/4"x66'	**336066**	1/roll
White	3/4"x66'	**337066**	1/roll
Yellow	3/4"x66'	**338066**	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
		1000	**199344**	yes	13/16"	18 lbs
	UVB*	25	**199202**	yes	13/16"	18 lbs
		100	**199203**	yes	13/16"	18 lbs
		1000	**199349**	yes	13/16"	18 lbs
6"	natural	25	**199246**	yes	1-3/8"	45 lbs
		100	**199247**	yes	1-3/8"	45 lbs
		1000	**199345**	yes	1-3/8"	45 lbs
	UVB*	25	**199248**	yes	1-3/8"	45 lbs
		100	**199249**	yes	1-3/8"	45 lbs
		1000	**199350**	yes	1-3/8"	45 lbs
8"	natural	25	**199204**	yes	2"	75 lbs
		100	**199205**	yes	2"	75 lbs
		1000	**199346**	yes	2"	75 lbs
	UVB*	25	**199206**	yes	2"	75 lbs
		100	**199207**	yes	2"	75 lbs
		1000	**199254**	yes	2"	75 lbs
11"	natural	25	**199208**	yes	3"	75 lbs
		100	**199209**	yes	3"	75 lbs
		1000	**199347**	yes	3"	75 lbs
	UVB*	25	**199210**	yes	3"	75 lbs
		100	**199211**	yes	3"	75 lbs
		1000	**199351**	yes	3"	75 lbs
14"	natural	25	**199212**	yes	4"	75 lbs
		100	**199213**	yes	4"	75 lbs
		1000	**199348**	yes	4"	75 lbs
	UVB*	25	**199214**	yes	4"	75 lbs
		100	**199215**	yes	4"	75 lbs
		1000	**199352**	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"	175 lbs
		100	**199260**	yes	4"	175 lbs
17"	natural	10	**199216**	yes	4-9/10"	175 lbs
	UVB*	10	**199217**	yes	4-9/10"	175 lbs
24"	natural	10	**199218**	yes	7"	175 lbs
	UVB*	10	**199219**	yes	7"	175 lbs
36"	natural	10	**199220**	yes	10-3/10"	175 lbs
	UVB*	10	**199221**	yes	10-3/10"	175 lbs
48"	natural	10	**199222**	yes	14-3/10"	175 lbs
	UVB*	10	**199223**	yes	14-3/10"	175 lbs

* UV Resistant

Related Products



Mounting Bases page 42



Releasable Cable Ties

Length	Color	Unit Qty	Part #		Bundle Dia Max	Tensile Strength
8"	natural	25	**199240**	yes	1-3/4"	50 lbs
	UVB*	25	**199241**	yes	1-3/4"	50 lbs
16"	UVB*	4	**199242**	yes	4"	175 lbs
28"	UVB*	3	**199243**	yes	8"	175 lbs

* UV Resistant

LEARN MORE
Cable Ties Video

Visit Ancor Products on YouTube.com



Mounting Cable Ties

Length	Color	Unit Qty	Part #		Bundle Dia Max	Tensile Strength
4"	UVB*	25	**199245**	yes	3/4"	18 lbs
6"	natural	25	**199250**	yes	1-3/8"	30 lbs
		100	**199251**	yes	1-3/8"	30 lbs
	UVB*	25	**199252**	yes	1-3/8"	30 lbs
		100	**199253**	yes	1-3/8"	30 lbs
8"	natural	25	**199226**	yes	2"	50 lbs
		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


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, 75 lbs
4", 6", 8"	natural color	500	**199225**	yes	13/16", 1-1/2", 2"	18, 45, 75 lbs

* UV Resistant
▲ DoubleLock™ on 6" and 8" ties only

Screw Mounting Bases

- 7/10" x 1/2"

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

* UV Resistant


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



Specialty Cable Ties

Length	Description	Unit Qty	Part #	UL	Bundle Dia Max	Tensile Strength
8"	natural I.D. tie	25	**199237**	yes	2"	50 lbs
11"	stainless steel*	10	**199238**	yes	3-3/4"	100 lbs
	black grip strip	5	**199239**	no	n/a	n/a

* UV Resistant





Reusable Beaded Cable Ties

Finally, a reusable cable tie that offers the heavy-duty tensile strength you need. Easier than a twist tie, more versatile than a cable tie, and stronger than hook and loop fasteners.

- Reusable: Beads lock and release through key-hole slots
- Heavy-duty: 70 lbs and 140 lbs tensile strength
- Adjustable: Bundle capacities from 1/4" to 7" diameters or string together for greater capacity
- Secure: Bundle and secure with double lock through two convenient keyhole slots to bind, hook, and secure
- Flexible: Bundle and create a loop to hang

Length	Color	Unit Qty	Part #	Bundle Dia Max	Tensile Strength
8"	Black	15	**199286**	2"	70 lbs
		40	**199287**	2"	70 lbs
	Yellow	15	**199288**	2"	70 lbs
12"	Black	15	**199289**	3-1/4"	70 lbs
		40	**199290**	3-1/4"	70 lbs
	Yellow	15	**199291**	3-1/4"	70 lbs
18"	Black	10	**199292**	5"	140 lbs
		25	**199293**	5"	140 lbs
	Yellow	10	**199294**	5"	140 lbs
24"	Black	5	**199295**	7"	140 lbs
		20	**199296**	7"	140 lbs
	Yellow	5	**199297**	7"	140 lbs







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





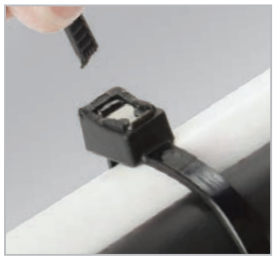
Length	Color	Unit Qty	Part #	Tensile Strength
8"	Natural	20/bag	**199326**	50 lbs
		100/bag	**199327**	50 lbs
	UVB*	20/bag	**199324**	50 lbs
		100/bag	**199325**	50 lbs
11"	Natural	20/bag	**199330**	50 lbs
		100/bag	**199331**	50 lbs
	UVB*	20/bag	**199328**	50 lbs
		100/bag	**199329**	50 lbs

* UV Resistant

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

LEARN MORE
Cable Ties Video

Visit Ancor Products on YouTube.com

Self Cutting Cable Ties
IBBI INNOVATION
Award Winner
2016



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

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:

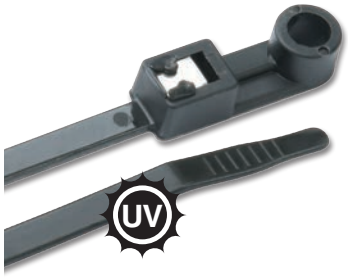
- By means of non-metallic clamps sized to hold the conductors firmly in place. The material shall be resistant to oil, gasoline, and water and shall not break or crack within a temperature range of 30°F (-34°C) to 250°F (121°C)

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

Related Products



Mounting Bases
page 42



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

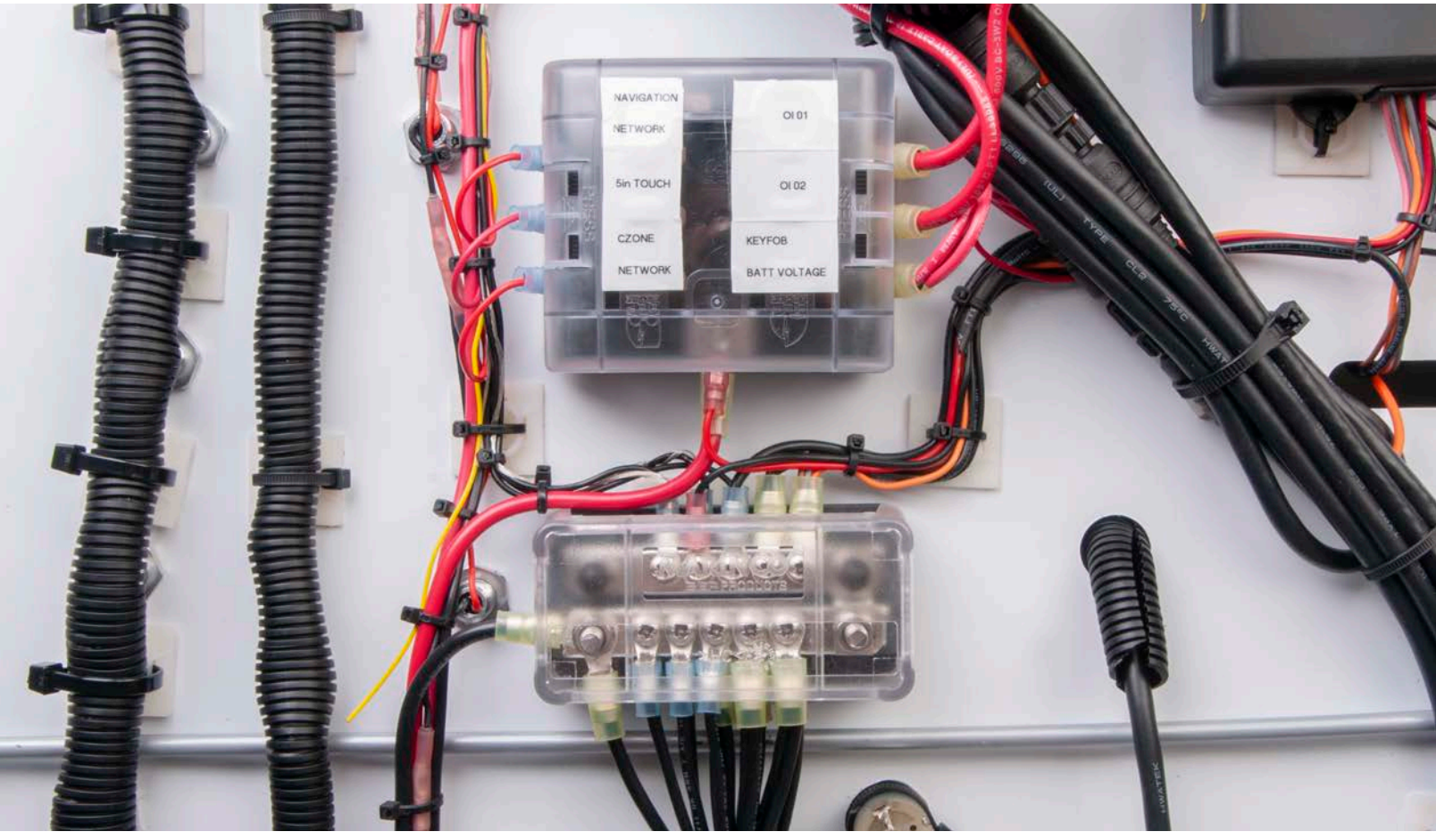
* UV Resistant

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

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"

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.

Nylon Cable Clamps



- Made from nylon for maximum strength
- Resistant to solvents, oils, acids and moisture
- Unique screw hole alignment feature to speed installation
- 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**
1/4"	6 mm	Natural	6	**401251**
			25	**401252**
			100	**401255**
		UV Black	25	**402252**
5/16"	7 mm	Natural	25	**401312**
		UV Black	25	**402312**
3/8"	9 mm	Natural	25	**401372**
			100	**401375**
		UV Black	25	**402372**
7/16"	11 mm	Natural	25	**401432**
1/2"	12 mm	Natural	25	**401502**
		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



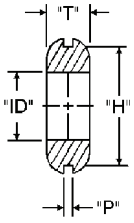
Description	For Use with	Thread Size	Cable Range		Clearance Hole	Body Length	Thread Length	Qty/ Pkg	Part #
Round Cable	18–10 AWG	3/8" NPT	.08"–.24"	2–6 mm	.68"	.87"	.59"	1	**764998**
Round Cable	10-2 AWG	1/2" NPT	.20"-.47"	5–12 mm	.83"	1.06"	.51"	1	**765000**
Round or Flat Cable	4–1, 14/3-12/3 & 12/2–10/2 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 & 12/2–10/2	1/2" NPT	.31"-.56"	8–14 mm	—	1.10"	.51"	1	**765010**
Flat Cable	14/3-12/3 & 12/2–10/2	3/4" NPT	.31"-.56"	8–14 mm	—	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	1/16"	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**



Split Loom & Spiral Wrap

- 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



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**

Marine Grade® Spiral Wrap

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

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."

Wire Management Kits



160 Piece Heat Shrink Connectors and Terminals Kit NEW

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 NEW

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 NEW

- (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 NEW

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 NEW

Part # P33407

Individual Empty Trays

Part # P33406 6 compartment
Part # P33412 12 compartment

TOOLS & TESTERS

Cut/Strip/Crimp Tools

52



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

Heat Tools

56



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.

Mini Fishtape

55



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



TOOLS & TESTERS

Tool Kits

57



Pre assembled kits provide the tools and materials you need for wiring projects.

Digital Multimeters

58



Multimeters to suit any electrical testing requirements.

Snap-Around Meters

59



Provides accurate readings for both pure sine wave and modified sine wave electrical circuits



Every vessel 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 NEW

- 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 NEW

- 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**



Stainless Steel Cut/Strip/Crimp Tool

- Crimp 10 to 22 AWG insulated and non-insulated terminals and coaxial connectors
- Cut and strip 22 AWG to 8 AWG solid and 24 AWG to 10 AWG stranded wire
- Cut and rethread 4-40, 5-40, 6-32, 8-32, 10-24, 10-32 screws
- Stainless steel blade resists corrosion and nicking
- Precision ground plier nose
- Length: 8.3" (21.0 cm)

Part # **701009**



Cut/Strip/Crimp Tool NEW

- 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**

Battery Cable Stripper



- Adjustable blade height for removing insulation on 8 AWG to 4/0 AWG cable
- Swivel blade for circular and longitudinal cuts
- Blade housing combined with an ultra-sharp blade greatly reduces friction for smoother stripping
- Length: 5.3" (13.0 cm)

Part # **703065**

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)

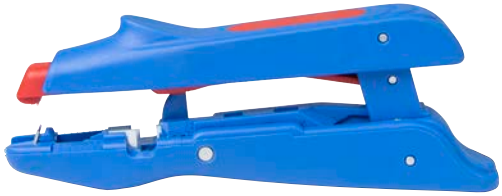
Part # **703075**



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 / 0.02-5.0mm^2
- 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**



Compact Automatic Wire Stripper NEW

- 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 (0.05-5.0mm^2)
- Length: 6.3" (16 cm)

Part # **702031**



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)

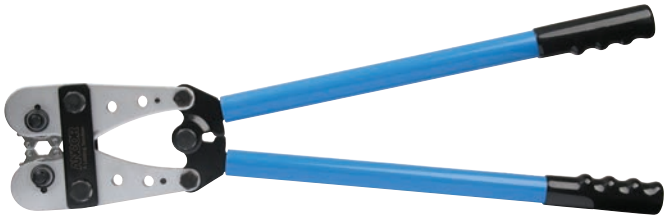
Part # **702033**



Universal Wire Stripper NEW

- Two different cutting methods to cut either small guage wire or large gauge battery cable
- Wire stripping from 20 AWG to 10 AWG (0.05-5.0mm^2)
- Battery cable stripping from 8 AWG to 4/0 AWG (8 to 107mm^2)
- Length: 5.7" (14.5 cm)

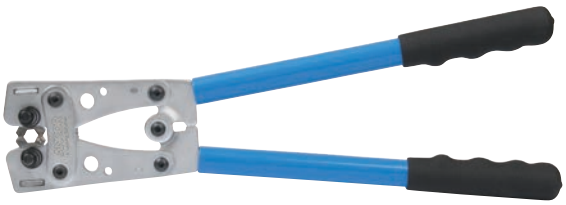
Part # **702032**



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

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 NEW

- 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 handels prevent fatigue
- Length: 9.5" (24 cm)

Part # 703015



Angled 26 to 10 AWG Double Crimp Ratcheting Crimper NEW

- 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 handels prevent fatigue
- Length: 9.5" (24 cm)

Part # 703035

LEARN MORE
Single vs Double Crimp Video

Visit Ancor Products on YouTube.com

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







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



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**



Turbo Lite

- 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
- Up to 25 minutes of run time on each filling
- Refillable

Part # **703064**



Pro Torch

- Up to 90 minutes of time on each filling
- Flame temperature up to 2500°F / 1300°C
- Adjustable flame control
- Compact size with ergonomic grip
- Includes removable solder tip and removable base for added flexibility
- Refillable

Part # **703060**



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**



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**



Premium Connector Kits

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

Description	Part #
31 pcs with crimp tool	**220002**
121 pcs with crimp tool	**220004**
120 pcs	**220003**



225 Piece Twin Kit Electrical Repair Kit with Strip/Crimp Tool

- 55 pcs assorted butt connectors
- 95 pcs assorted ring terminals
- 35 pcs assorted disconnects
- 35 pcs assorted nylon cable ties
- Assorted, 10' spools of UL 1426 boat cable
- 5 pcs (3" x 3/8") 3:1 shrink ratio, colored heat shrink tubing
- Case opens both sides

Part # **220020**



8 Function Digital Multimeter NEW

- 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 ✓

703072



5 YEAR WARRANTY

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	

True RMS 12 Function Digital Multimeter NEW

- 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 ✓

703073



5 YEAR WARRANTY

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	

True RMS 12 Function Digital Snap-Around Meter NEW

- 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 ✓

703079



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	

5 YEAR WARRANTY

CAT II 1000V

CAT III 600V



LIGHTING

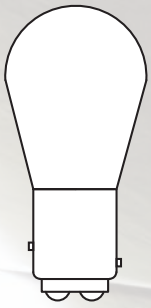
Bayonet Base Bulbs

62



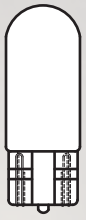
Index Base Bulbs

64



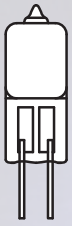
Wedge Base Bulbs

65



Miniature Halogen Bulbs

65



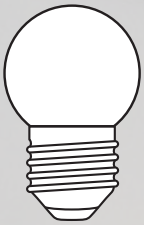
Marine grade bulbs and lamps are available for a variety of applications. Each light bulb is constructed with a heavy-duty glass envelope to resist breakage, a nickel-plated brass base to prevent corrosion and has been tested to ensure durability and dependability.



LIGHTING

Medium Screw Base Bulbs

66



Fluorescent Tubes

66



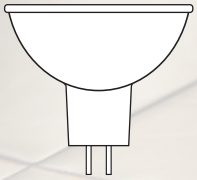
Festoon Bulbs

67



Pin Style Bulbs

68

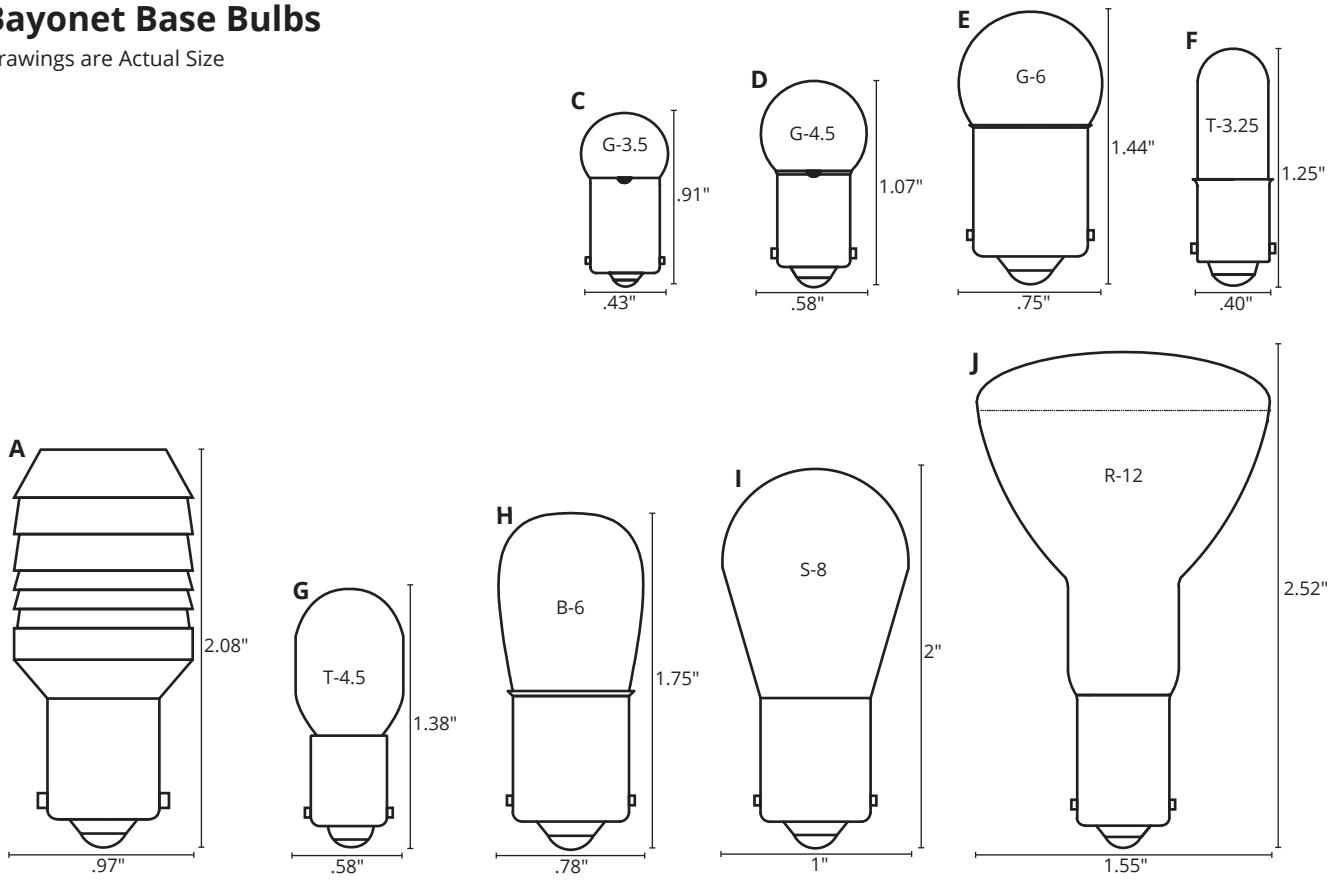




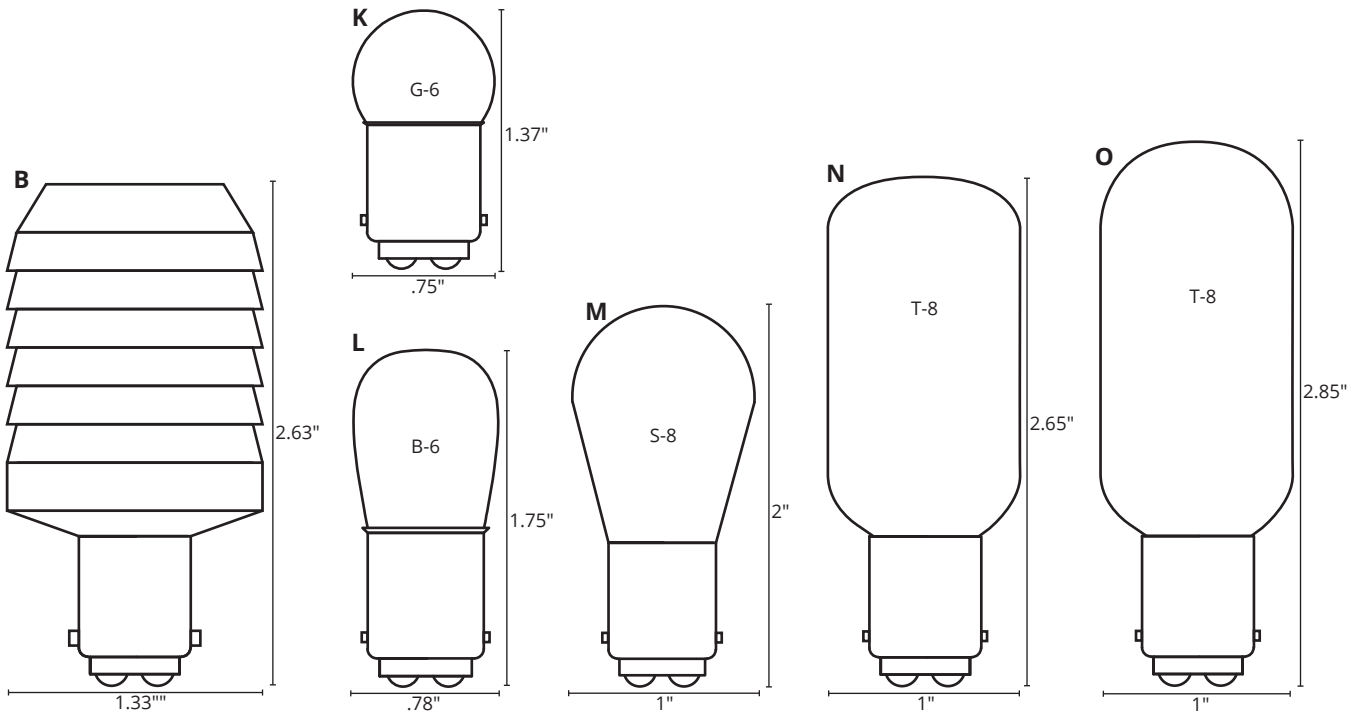
Proper lighting is necessary for safety and operational activities aboard vessels and creates a soothing and functional atmosphere.

Bayonet Base Bulbs

Drawings are Actual Size



Single Contact Bayonet



Double Contact Bayonet

LED Bayonet Base Bulbs

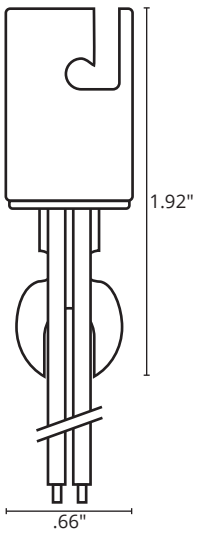
Figure Letter	Trade #	Contact	System Volts	Current Draw	CP	Life	Qty/ Pkg	Dimensions	Part #
A		Single	12	160 mA	2200MCD*16	50,000	1	.97" x 2.08"	**529414**
B		Double	12	200 mA	2200MCD*20	50,000	1	1.33" x 2.63"	**529412**

Note: LED bulbs are not rated for navigation.

Bayonet Base Bulbs

Figure Letter	Trade #	Contact	System Volts	Design Volts	Design Amps	Design Watts	CP	Life	Qty/ Pkg	Dimensions	Part #
C	53	Single	12	14.40	.12	1.70	1.00	1,000	2	.43" x .91"	**520053**
		Single	12	14.00	.35	5.00	3.0	1,000	2	.43" x .91"	**521126**
D	57	Single	12	14.00	.24	3.40	2.00	500	2	.58" x 1.07"	**520057**
	57	Single	12	14.00	.24	3.80	2.00	500	2	.58" x 1.07"	**521895**
E	97	Single	12	13.50	.69	9.30	4.00	5,000	2	.75" x 1.44"	**520097**
	67	Single	12	13.50	.59	8.00	4.00	5,000	2	.75" x 1.44"	**520067**
F	1816	Single	12	13.00	.33	4.30	3.00	1,000	2	.40" x 1.25"	**521816**
G	1416	Single	12	12.80	.80	10.20	8.00	1,000	2	.59" x 1.38"	**521416**
		Single	12	13.50	2.08	25.00	30.00	1,000	1	.59" x 1.38"	**521159**
H	1003	Single	12	12.80	.94	12.00	15.00	200	2	.78" x 1.75"	**521003**
I	1141	Single	12	12.80	1.44	18.40	21.00	500	2	1" x 2"	**521141**
	1156	Single	12	12.80	2.10	26.90	32.00	1,200	2	1" x 2"	**521156**
J	1383	Single	12	13.00	1.54	20.00	300	700	1	1.55" x 2.52"	**521383**
	93	Single	12	12.80	1.04	13.30	15.00	700	2	1.55" x 2.52"	**520093**
K	82	Double	6	6.50	1.02	6.60	6.00	500	2	.75" x 1.37"	**520082**
	68	Double	12	13.50	.59	8.00	4.00	5,000	2	.75" x 1.37"	**520068**
	90	Double	12	13.00	.58	7.50	6.00	750	2	.75" x 1.37"	**520090**
	1224	Double	32	34.00	.16	5.10	3.80	500	2	.75" x 1.37"	**521224**
L	1004	Double	12	12.80	.94	12.00	15.00	200	2	.78" x 1.75"	**521004**
M	94	Double	12	12.80	1.04	13.30	15.00	700	2	1" x 2"	**520094**
	1076	Double	12	12.80	1.80	23.00	32.00	200	2	1" x 2"	**521076**
	1142	Double	12	12.80	1.44	18.40	21.00	1,000	2	1" x 2"	**521142**
	1142R	Double	12	12.80	1.44	18.40	21.00	1,000	2	1" x 2"	**521140***
	1176	Double	12	12.8/14	1.34/.39	17.20	21/6	300/1,500	2	1" x 2"	**521176**
	1204	Double	24	28.00	.71	19.90	21.00	400	2	1" x 2"	**521204**
N		Double	12	2.50	30.00	26.00	1200	2,500	1	1" x 2.65"	**529300**
O		Double	120	120.00	.25	30.00	20.00	2,500	1	1" x 2.85"	**521164**

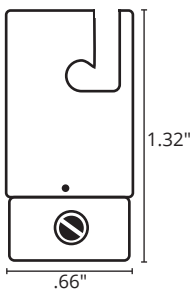
*Red



Double Contact Bayonet Bulb Sockets

- For 12V miniature lamps with Bayonet bases
- Spring-loaded brass contacts
- 11/16" mounting hole

Part # 529310 8" wire leads
Part # 529311 #8-32 screws



TECH tip™

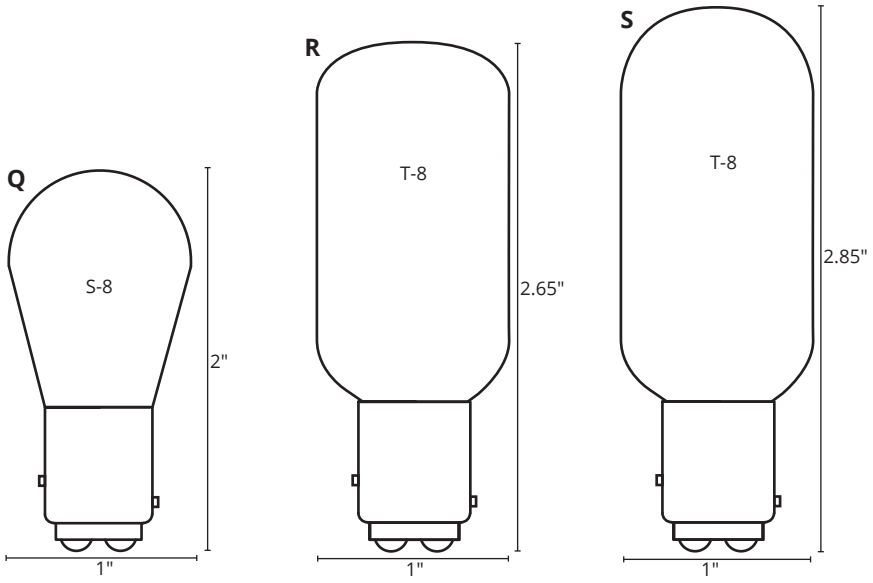
Using the Ancor Bulb Section Guide

Identifying the correct replacement bulb is easy using the Ancor bulb selection guide.

1. Identify the base and locate the corresponding section of the catalog.
2. Using the full scale line drawings, identify the corresponding figure letter.
3. Find the figure letter in the corresponding table and select the bulb based on the additional attributes.

Index Base Bulbs

Drawings are Actual Size

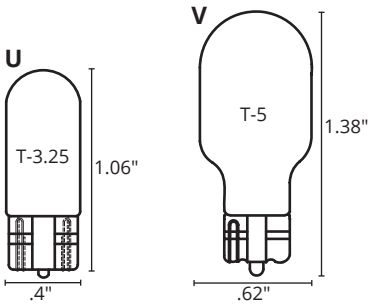


Index Base Bulbs

Figure Letter	Trade #	Contact	System Volts	Design Volts	Design Amps	Design Watts	CP	Life	Qty/ Pkg	Dimensions	Part #
Q	1034	Double	12	12.8	1.8	23/8.2	32/3	200/5,000	2	1" x 2"	**521034**
	1157	Double	12	12.8/14	2.1/.59	27/8	32/3	200/5,000	2	1" x 2"	**521157**
R		Double	12	12.00	2.08	25.00	24.00	1,200	1	1" x 2.65"	**529340**
		Double	12	13.50	.83	10.00	12.00	1,000	1	1" x 2.65"	**521158**
		Double	24	24.00	1.04	25.00	24.00	1,200	1	1" x 2.65"	**529341**
		Double	24	24.00	.42	10.00	12.00	1,200	1	1" x 2.65"	**529344**
		Double	120V	120.00	.21	2.50	20.00	1,200	1	1" x 2.65"	**529348**
S		Double	24	24.00	.41	10.00	12.00	1,200	1	1" x 2.85"	**521162**

Wedge Base Bulbs

Drawings are Actual Size



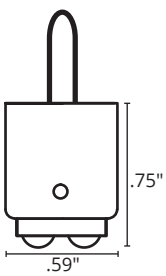
Wedge Base Bulbs

Figure Letter	Trade #	System Volts	Design Volts	Design Amps	Design Watts	CP	Life	Qty/ Pkg	Dimensions	Part #
	194	12	14.00	.27	3.80	2.00	1,500	2	.4" x 1.06"	**520194**
U	168	12	14.00	.35	4.90	3.00	1,500	2	.4" x 1.06"	**520168**
		12	12.80	1.0	12.80	12.00	1,000	2	.4" x 1.06"	**520912**
V	906	12	13.00	.69	9.00	6.00	1,000	2	.62" x 1.38"	**520906**

Miniature Halogen Bulbs

Drawings are Actual Size

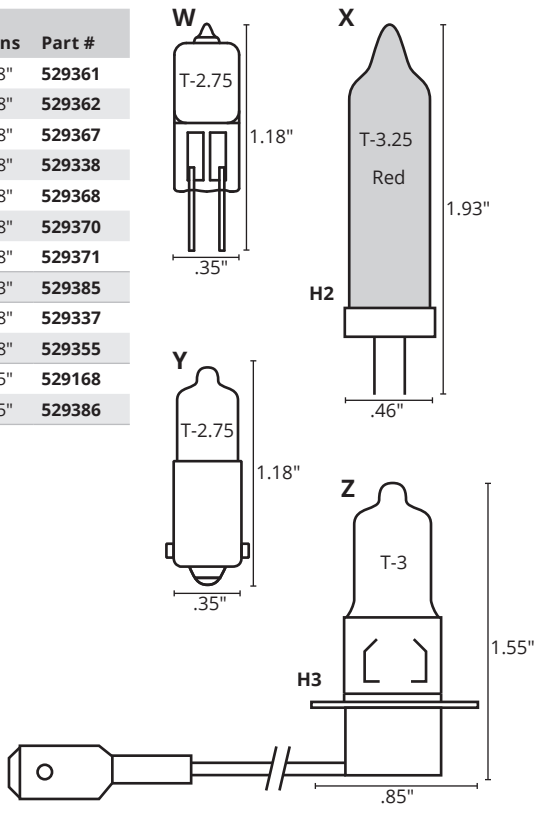
Figure Letter	System Volts	Design Volts	Design Amps	Design Watts	CP	Life	Qty/ Pkg	Dimensions	Part #
	12	12.00	.42	5	5.00	2,000	2	.35" x 1.18"	**529361**
	12	12.00	.83	10	11.00	2,000	1	.35" x 1.18"	**529362**
	12	12.00	1.67	20	20.00	2,000	1	.35" x 1.18"	**529367**
W	24	24.00	.42	10	11.00	2,000	1	.35" x 1.18"	**529338**
	24	24.00	.83	20	20.00	2,000	1	.35" x 1.18"	**529368**
	12	12.00	.83	10	11.00	1,000	2	.35" x 1.18"	**529370**
	12	12.00	1.67	20	20.00	1,000	2	.35" x 1.18"	**529371**
X	12	12.00	.83	10	11.00	2,000	2	.46" x 1.93"	**529385**
Y	12	12.00	1.67	20	20.00	2,000	1	.35" x 1.18"	**529337**
	12	12.00	.42	5	5.00	2,000	1	.35" x 1.18"	**529355**
Z	12	13.50	4.58	55	225.00	320	1	.85" x 1.55"	**529168**
	12	13.50	8.30	100	100.00	100	1	.85" x 1.55"	**529386**



Halogen Bulb Adapter Base

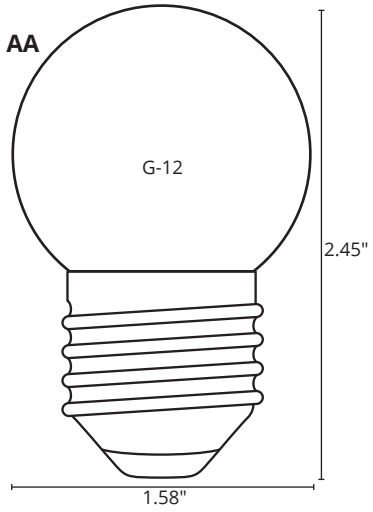
The nickel-plated brass base Halogen Bulb Adapter allows the use of all V style miniature halogen bulbs in standard single contact, double contact or medium screw base sockets.

529381



Medium Screw Base Bulbs

Drawings are Actual Size



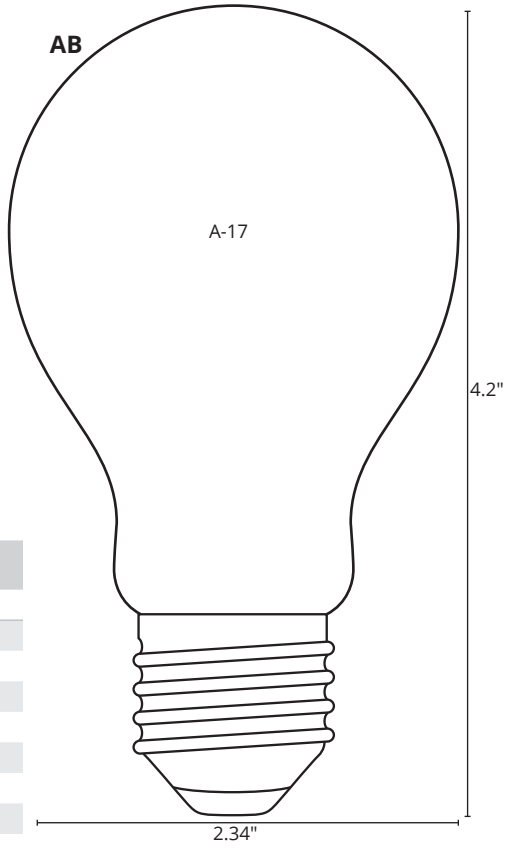
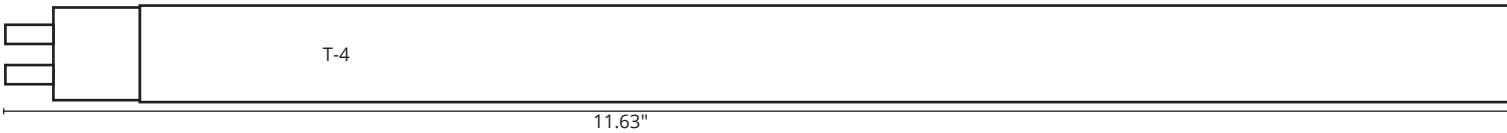


Figure Letter	Trade #	System Volts	Design Volts	Design Amps	Design Watts	Life	Qty/ Pkg	Dimensions	Part #
AA	15G12/12	12	13.50	1.25	15	1000	1	1.58" x 2.45"	**511016**
	15A17/12	12	13.50	1.25	15	1000	2	2.34" x 4.2"	**531015**
	25A17/12	12	13.50	2.08	25	1000	2	2.34" x 4.2"	**531025**
	50A17/12	12	13.50	4.17	50	1000	2	2.34" x 4.2"	**531050**
	75A17/12	12	13.50	6.25	75	1000	2	2.34" x 4.2"	**531075**
	100A17/12	12	13.50	8.33	100	1000	2	2.34" x 4.2"	**531100**
AB	25A17/24	24	27.00	1.04	25	1000	2	2.34" x 4.2"	**532025**
	25A17/24	24	27.00	1.04	50	1000	2	2.34" x 4.2"	**532050**
	15A17/34	32	36.00	.44	15	1000	2	2.34" x 4.2"	**533015**
	25A17/34	32	36.00	.74	25	1000	2	2.34" x 4.2"	**533025**
	50A17/34	32	36.00	1.47	50	1000	2	2.34" x 4.2"	**533050**
	75A17/34	32	36.00	2.21	75	1000	2	2.34" x 4.2"	**533075**

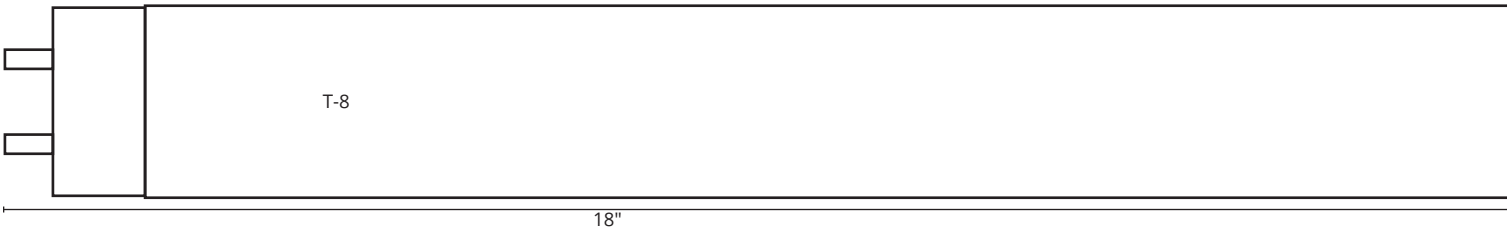
Fluorescent Tubes

Figure Letter	Trade #	Volts	Watts	M.O.L.	M.O.D.	Life	Qty/ Pkg	Dimensions	Part #
AC	F8T5/CW	13.5	8	11.3"	.5"	7500	2	.5" x 11.63"	**529405**
AD	F15T8/CW	13.5	15	18"	1.0"	7500	2	1" x 18"	**529406**

AC

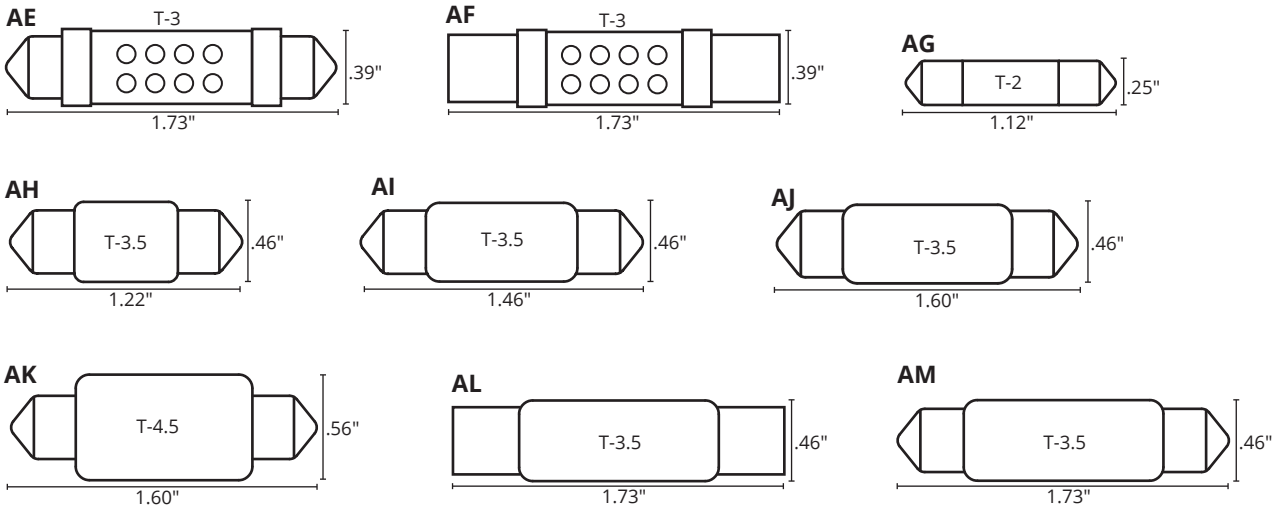


AD



Festoon Bulbs

Drawings are Actual Size



LED Festoon Bulbs

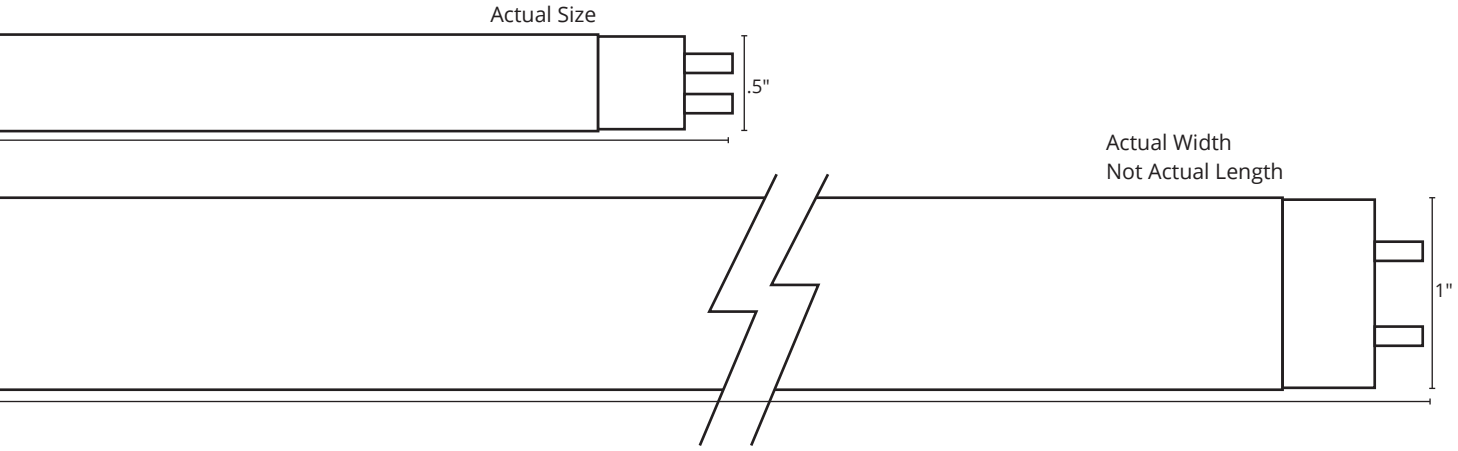
Figure Letter	Trade #	System Volts	Current Draw	CP	Life	Qty/ Pkg	Dimensions	Part #
AE	—	12	80 mA	2000MCD*8	50,000	1	.39" x 1.73"	**529417**
AF	—	12	80 mA	2000MCD*8	50,000	1	.39" x 1.73"	**529419**

Note: LED bulbs are not rated for navigation.

Festoon Bulbs

Figure Letter	Trade #	System Volts	Design Volts	Design Amps	Design Watts	CP	Life	Qty/ Pkg	Dimensions	Part #
AG	—	12	13.50	.39	4.75	2.00	1,000	2	.25" x 1.12"	**522124**
AH	—	12	13.50	.83	10.00	8.00	1,000	2	.46" x 1.22"	**529102**
	—	24	24.00	.41	10.00	8.00	1,000	2	.46" x 1.22"	**522129**
	—	12	13.50	.83	10.00	8.00	2,000	2	.46" x 1.22"	**529104**
	—	12	13.50	.83	10.00	8.00	2,000	2	.46" x 1.22"	**522127***
AI	—	12	13.50	.50	6.00	2.00	1,000	2	.46" x 1.46"	**529095**
AJ	211–2	12	12.80	.97	15.00	12.00	1,000	2	.46" x 1.60"	**522112**
	212–2	12	13.50	.74	10.00	6.00	2,000	2	.46" x 1.60"	**522122**
AK	—	12	13.50	1.42	15.00	8.00	1,000	2	.56" x 1.60"	**522131**
AL	—	12	13.50	.83	10.00	8.00	2,000	2	.46" x 1.73"	**529333**
AM	—	12	13.50	.83	10.00	8.00	2,000	2	.46" x 1.73"	**522126**

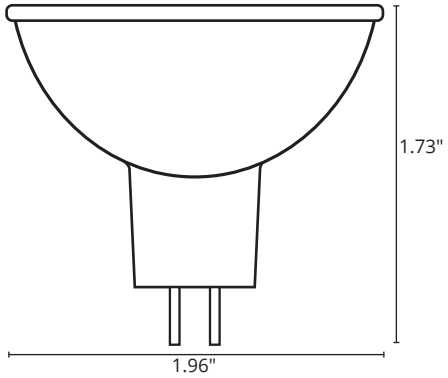
*Red



Pin Style Bulbs

Drawings are Actual Size

AP



Xenon Pin Style Bulbs

Figure Letter	System Volts	Current Draw	CP	Life	Qty/ Pkg	Dimensions	Part #
AP	12	1.67A	500	2000	1	1.96" x 1.70"	**521125**

LED Bulb Cross Reference

Incandescent Part #	No. of LED's	Degree	Volts	Color	LED Part #
520094, 521076, 521142, 521140, 521176, 521004	36 LED	360°	10V–30V	—	529420
	36 LED	360°	12V	—	529413
	20 LED	360°	12V	—	529412
520194, 520912, 520906	1 LED	—	12V	—	529410
521127	12 LED	—	12V	Red	529425
521003, 520093, 521141, 521156	16 LED	360°	12V	—	529414
521165	12 LED	—	12V	Amber	529428
522112, 522122		—			529417
529333	8 LED	—	12V	White	529419
529102, 529200, 529096, 522128, 529095, 529102, 529200	4 LED	—	12V	White	529418
529367, 529362, 529361	12 LED	90°	12V	—	529422
	8 LED	90°	12V	—	529421

Lamp Life Calculator

This lamp life nomograph shows the relationship between voltage, current, candle power and life. Each lamp has a design voltage as well as a nominal operating voltage. This allows the designer of the lamp to tailor the life/output/current draw to meet specific needs, within certain industry standards. We have chosen to emphasize life and brightness. The rated life is based on the average life of 50% of the lamps tested under laboratory conditions – no vibration, stable voltage, room temperature, and in a vertical position. Any other condition will adversely affect lamp life.

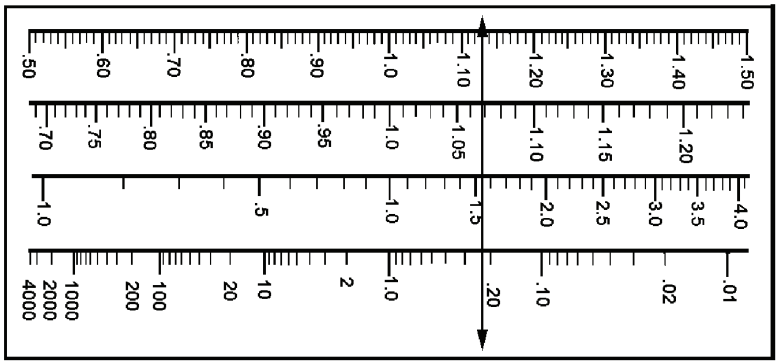
Example: To find the effect of under or over voltage on life, current draw and candle power, read in a horizontal line under % of rated voltage. Thus, a #90 bulb rated at 13V but operating at 14.70V (113% of rated voltage – a high charge rate) would have 107% of rated current draw, 155% of rated candle power, but would only last 23% of its rated life.

% of rated Voltage

% of rated Current

% of rated Candle Power

% of rated Life





DISPLAYS

Heat Shrink Terminal, Connector & Tubing Displays

72



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

Nylon Connectors & Terminals Displays

73



A selection of our most popular nylon butt connectors, disconnects and ring terminals to fit wire sizes from 22 to 10 AWG.

Tinned Copper Lug Displays

74



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

Mini Lamps Displays

75



Blister packs of Ancor's most popular nickel-plated, corrosion resistant mini lamps and standard base lamps to cover common applications.



DISPLAYS

Marine Grade® Tinned Wire Displays

76



NEW

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.

Complete Wire Merchandiser

77



NEW ASSORTMENT

This display offers the most popular colors and sizes of primary wire, battery cable, duplex, triplex, coaxial cable, instrument, ribbon, trailer and safety cable. Also included are our top-selling, professional grade tools.

Complete Electrical Merchandiser

78



NEW ASSORTMENT

Designed as an end cap or free standing gondola, this eye catching 4' wide x 6' high heavy-duty display provides the retail dealers with a complete selection of our most popular Marine Grade® products.

NMEA 2000 Display

76



NEW

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 # DR1230

Part #	Description	Qty/ Pkg	# of Pkgs
301103	1/8" x 3" Black Heat Shrink	3	10
302103	3/16" x 3" Black Heat Shrink	3	10
303103	1/4" x 3" Black Heat Shrink	3	10
304103	3/8" x 3" Black Heat Shrink	3	5
305103	1/2" x 3" Black Heat Shrink	3	5
306103	3/4" x 3" Black Heat Shrink	3	5
301503	3/16"–3/4" x 3" Heat Shrink Assortment Pack	8	5
304503	3/8" x 3" Heat Shrink Assortment BL-GR-RD-WH-YW	5	5
306503	3/4" x 3" Heat Shrink Assortment BL-GR-WH-YW	4	4
300000	Heat Shrink Butt Connector Kit	10	5
309003	22–18 Heat Shrink Butt	3	5
309103	16–14 Heat Shrink Butt	3	5
309203	12–10 Heat Shrink Butt	3	5
310203	22–18 #8 Heat Shrink Ring	3	5
310303	22–18 #10 Heat Shrink Ring	3	5
311203	16–14 #8 Heat Shrink Ring	3	5
311303	16–14 #10 Heat Shrink Ring	3	5
311503	16–14 5/16" Heat Shrink Ring	3	5
311603	16–14 3/8" Heat Shrink Ring	3	5
312203	12–10 #8 Heat Shrink Ring	3	5
312303	12–10 #10 Heat Shrink Ring	3	5
312503	12–10 5/16" Heat Shrink Ring	3	5
312603	12–10 3/8" Heat Shrink Ring	3	5
701009	Stainless Steel Cut/Strip/Crimp Tool	1	2



NEW 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

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



Nylon Connectors & Terminals Display

Part # DR1243

Part #	Description	Qty/ Pkg	# of Pkgs
230100	22–18 Nylon Butt	7	10
230110	16–14 Nylon Butt	7	10
230120	12–10 Nylon Butt	5	10
230202	22–18 #8 Nylon Ring	6	10
230203	22–18 #10 Nylon Ring	6	10
230212	16–14 #8 Nylon Ring	6	10
230213	16–14 #10 Nylon Ring	6	10
230215	16–14 5/16" Nylon Ring	5	10
230216	16–14 3/8" Nylon Ring	5	10
230222	12–10 #8 Nylon Ring	5	10
230223	12–10 #10 Nylon Ring	5	10
230224	12–10 1/4" Nylon Ring	4	10
230225	12–10 5/16" Nylon Ring	4	10
230226	12–10 3/8" Nylon Ring	4	10
230235	#8 5/16" Nylon Ring	2	10
230236	#8 3/8" Nylon Ring	2	10
230312	16–14 #8 Nylon Flanged Spade	6	10
230313	16–14 #10 Nylon Flanged Spade	6	10
230323	12–10 #10 Nylon Flanged Spade	5	10
230615	18–14 Splice Connect	4	5
230818	16–14 Female Nylon Disconnect	5	10
230828	12–10 Female Nylon Disconnect	4	10
231418	16–14 Female Nylon Fully Insulated Disconnect	4	10
231419	16–14 Male Nylon Fully Insulated Disconnect	4	10
231428	12–10 Female Nylon Fully Insulated Disconnect	3	10
231429	12–10 Male Nylon Fully Insulated Disconnect	3	10
701009	Stainless Steel Cut/Strip/Crimp Tool	1	2

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



NEW Nylon Connectors & Terminals Display

Part # DR2243

Part #	Description	Qty/ Pkg	# of Pkgs
230100	22–18 Nylon Butt	7	5
230110	16–14 Nylon Butt	7	5
230120	12–10 Nylon Butt	5	5
230202	22–18 #8 Nylon Ring	6	5
230203	22–18 #10 Nylon Ring	6	5
230212	16–14 #8 Nylon Ring	6	5
230213	16–14 #10 Nylon Ring	6	5
230215	16–14 5/16" Nylon Ring	5	5
230216	16–14 3/8" Nylon Ring	5	5
230222	12–10 #8 Nylon Ring	5	5
230223	12–10 #10 Nylon Ring	5	5
230224	12–10 1/4" Nylon Ring	4	5
230225	12–10 5/16" Nylon Ring	4	5
230226	12–10 3/8" Nylon Ring	4	5
230235	#8 5/16" Nylon Ring	2	5
230236	#8 3/8" Nylon Ring	2	5
230302	22–18 #8 Nylon Flanged Spade	6	5
230312	16–14 #8 Nylon Flanged Spade	6	5
230313	16–14 #10 Nylon Flanged Spade	6	5
230322	12–10 #8 Nylon Flanged Spade	5	5
230323	12–10 #10 Nylon Flanged Spade	5	5
230615	18–14 Splice Connector	4	5
230510	16–14 Nylon 3-Way Connector	1	5
230520	12–10 Nylon 3-Way Connector	1	5
230818	16–14 Nylon Disconnect, Female	5	5
231418	16–14 Nylon Fully Insulated Disconnect, Female	4	5
231419	16–14 Nylon Fully Insulated Disconnect, Male	4	5
230828	12–10 Nylon Disconnect, Female	4	5
231428	12–10 Nylon Fully Insulated Disconnect, Female	3	5
231429	12–10 Nylon Fully Insulated Disconnect, Male	3	5
230719	16–14 Nylon Snap Plug, Female	4	5
230718	16–14 Nylon Snap Plug, Male	4	5



Tinned Copper Lug Display

Part # DR1425

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



NEW 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.



Mini Lamps Display

Part # DR1550

Part #	Description	Qty/ Pkg	# of Pkgs
511016	Mini Envelope, 12V, 1.25A, 15W	1	2
520053	Mini Bayonet, 12V, .12A, 1.7W, 1CP	2	10
520057	Mini Bayonet, 12V, .24A, 3.4W, 2CP	2	5
520068	Double Contact Bayonet, 12V, .59A, 8W, 4CP	2	5
520090	Double Contact Bayonet, 12V, .58A, 7.5W, 6CP	2	10
520093	Single Contact Bayonet, 12V, 1.04A, 13.3W, 15CP	2	5
520094	Double Contact Bayonet, 12V, 1.04A, 13.3W, 15CP	2	5
520097	Single Contact Bayonet, 12V, .69A, 9.3W, 4CP	2	5
520194	Wedge, 12V, .27A, 3.8W, 2CP	2	10
521003	Single Contact Bayonet, 12V, .94A, 12W, 15CP	2	5
521004	Double Contact Bayonet, 12V, .94A, 12W, 15CP	2	5
521034	Double Contact Index, 12V, 1.8/.59A, 32/3CP	2	5
521076	Double Contact Bayonet, 12V, 1.8A, 23.0W, 32CP	2	5
521140	Double Contact Bayonet, Red, 12V, 1.44A, 18.4W, 21CP	2	5
521141	Single Contact Bayonet, 12V, 1.44A, 18.4W, 21CP	2	5
521142	Double Contact Bayonet, 12V, 1.44A, 18.4W, 21CP	2	5
521157	Double Contact Index, 12V, 2.1/.59A, 32/3CP	2	5
521176	Double Contact Bayonet, 12V, 1.34/.59A 21/6CP	2	5
521416	Mini Bayonet, 12V, .8A, 10.2W, 8.CP	2	5
521816	Mini Bayonet, 12V, .33A, 4.3W, 3CP	2	10
521895	Mini Bayonet, 12V, .27A, 3.8W, 2CP	2	5
522112	Festoon, 12V, .97A, 15W, 12CP	2	10
522122	Festoon, 12V, .74A, 10W, 6CP	2	10
529102	Festoon, 12V, .8A, 10W, 8CP	2	10



NEW Mini Lamps Display

Part # DR2550

Part #	Description	Qty/ Pkg	# of Pkgs
511016	Mini Envelope, 12V, 1.25A, 15W	1	2
520053	Mini Bayonet, 12V, .12A, 1.7W, 1CP	2	3
520057	Mini Bayonet, 12V, .24A, 3.4W, 2CP	2	3
520068	Double Contact Bayonet, 12V, .59A, 8W, 4CP	2	3
520090	Double Contact Bayonet, 12V, .58A, 7.5W, 6CP	2	3
520093	Single Contact Bayonet, 12V, 1.04A, 13.3W, 15CP	2	3
520094	Double Contact Bayonet, 12V, 1.04A, 13.3W, 15CP	2	3
520097	Single Contact Bayonet, 12V, .69A, 9.3W, 4CP	2	3
520194	Wedge, 12V, .27A, 3.8W, 2CP	2	3
521003	Single Contact Bayonet, 12V, .94A, 12W, 15CP	2	3
521004	Double Contact Bayonet, 12V, .94A, 12W, 15CP	2	3
521034	Double Contact Index, 12V, 1.8/.59A, 32/3CP	2	3
521076	Double Contact Bayonet, 12V, 1.8A, 23.0W, 32CP	2	3
521140	Double Contact Bayonet, Red, 12V, 1.44A, 18.4W, 21CP	2	3
521141	Single Contact Bayonet, 12V, 1.44A, 18.4W, 21CP	2	3
521142	Double Contact Bayonet, 12V, 1.44A, 18.4W, 21CP	2	3
521157	Double Contact Index, 12V, 2.1/.59A, 32/3CP	2	3
521176	Double Contact Bayonet, 12V, 1.34/.59A 21/6CP	2	3
521416	Mini Bayonet, 12V, .8A, 10.2W, 8.CP	2	3
521816	Mini Bayonet, 12V, .33A, 4.3W, 3CP	2	3
521895	Mini Bayonet, 12V, .27A, 3.8W, 2CP	2	3
522112	Festoon, 12V, .97A, 15W, 12CP	2	3
522122	Festoon, 12V, .74A, 10W, 6CP	2	3
529102	Festoon, 12V, .8A, 10W, 8CP	2	3

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



Marine Grade® Tinned Wire Display

Part # DR1218

Part #	Description	# of Pkgs
180003	35' 18 AWG (0.8mm²), Black	4
180803	35' 18 AWG (0.8mm²), Red	4
182003	25' 16 AWG (1mm²), Black	8
182803	25' 16 AWG (1mm²), Red	8
182303	25' 16 AWG (1mm²), Green	4
182903	25' 16 AWG (1mm²), White	4
184003	18' 14 AWG (2mm²), Black	4
184803	18' 14 AWG (2mm²), Red	8
184303	18' 14 AWG (2mm²), Green	4
184903	18' 14 AWG (2mm²), White	4
186003	12' 12 AWG (3mm²), Black	4
186803	12' 12 AWG (3mm²), Red	4



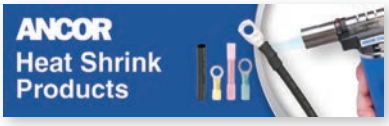
NEW Marine Grade® Tinned Wire Display

Part # DR2218

Part #	Description	# of Pkgs
180003	35' 18 AWG (0.8mm²), Black	2
180803	35' 18 AWG (0.8mm²), Red	2
182003	25' 16 AWG (1mm²), Black	2
182803	25' 16 AWG (1mm²), Red	2
182303	25' 16 AWG (1mm²), Green	2
182903	25' 16 AWG (1mm²), White	2
184003	18' 14 AWG (2mm²), Black	2
184803	18' 14 AWG (2mm²), Red	2
184303	18' 14 AWG (2mm²), Green	2
184903	18' 14 AWG (2mm²), White	2
186003	12' 12 AWG (3mm²), Black	2
186803	12' 12 AWG (3mm²), Red	2

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

Countertop Display Replacement Headers NEW



Part # ANCSHRINK



Part # ANCTERM



Part # ANCLUG



Part # ANCLAMP



Part # ANCWIRE



Part # ANCNMEA

Complete Wire Merchandiser

NEW ASSORTMENT

Part # DR1086

The DR1086 is Ancor's premier Marine Grade® Wire Merchandiser offering the most popular colors and sizes of primary wire, battery cable, duplex, triplex, coaxial, instrument, ribbon, and trailer cables. Also included are our top-selling, professional grade tools. The display comes complete with a planogram, hooks, re-order tags and five heavy-duty wire baskets designed to dispense the spools of wire.



Part #	Description	# of Pkgs
Mini Spools		
180003	18 AWG, Black, 35ft	2
180803	18 AWG, Red, 35ft	2
180903	18 AWG, White, 35ft	2
182003	16 AWG, Black, 25ft	2
182103	16 AWG, Dark Blue, 25ft	2
182303	16 AWG, Green, 25ft	2
182803	16 AWG, Red, 25ft	2
182903	16 AWG, White, 25ft	2
183003	16 AWG, Yellow, 25ft	2
184003	14 AWG, Black, 18ft	2
184803	14 AWG, Red, 18ft	2
186003	12 AWG, Black, 12ft	2
186803	12 AWG, Red, 12ft	2
188003	10 AWG, Black, 8ft	2
188803	10 AWG, Red, 8ft	2
Wire & Cable		
102010	16 AWG, Black, 100ft	1
102110	16 AWG, Dark Blue, 100ft	1
102210	16 AWG, Brown, 100ft	1
102310	16 AWG, Green, 100ft	1
102710	16 AWG, Purple, 100ft	1
102810	16 AWG, Red, 100ft	1
102910	16 AWG, White, 100ft	1
103010	16 AWG, Yellow, 100ft	1
104010	14 AWG, Black, 100ft	1
104110	14 AWG, Dark Blue, 100ft	1
104210	14 AWG, Brown, 100ft	1
104310	14 AWG, Green, 100ft	1
104410	14 AWG, Grey, 100ft	1
104710	14 AWG, Purple, 100ft	1
104810	14 AWG, Red, 100ft	1
104910	14 AWG, White, 100ft	1
105010	14 AWG, Yellow, 100ft	1
106010	12 AWG, Black, 100ft	1
106110	12 AWG, Dark Blue, 100ft	1
106210	12 AWG, Brown, 100ft	1
106310	12 AWG, Green, 100ft	1
106810	12 AWG, Red, 100ft	1
106910	12 AWG, White, 100ft	1
107010	12 AWG, Yellow, 100ft	1
108010	10 AWG, Black, 100ft	1
108810	10 AWG, Red, 100ft	1
111010	8 AWG, Black, 100ft	1

Part #	Description	# of Pkgs
111310	8 AWG, Green, 100ft	1
111510	8 AWG, Red, 100ft	1
112005	6 AWG, Black, 50ft	1
112505	6 AWG, Red, 50ft	1
113005	4 AWG, Black, 50ft	1
113505	4 AWG, Red, 50ft	1
113905	4 AWG, Yellow, 50ft	1
114002	2 AWG, Black, 25ft	1
114502	2 AWG, Red, 25ft	1
114902	2 AWG, Yellow, 25ft	1
116005	1/0 AWG, Black, 50ft	1
116505	1/0 AWG, Red, 50ft	1
117005	2/0 AWG, Black, 50ft	1
117505	2/0 AWG, Red, 50ft	1
121310	12/2 AWG, Flat, 100ft	1
124525	Safety, 14/2 AWG, Flat, 250ft	1
124725	Safety, 16/2 AWG, Flat, 250ft	1
124910	Safety, 18/2 AWG, Flat, 100ft	1
131110	10/3 AWG, Flat, 100ft	1
131310	12/3 AWG, Flat, 100ft	1

Part #	Description	# of Pkgs
131510	14/3 AWG, Flat, 100ft	1
151510	RG 8X, White, 100ft	1
153010	20/3 AWG, Round, 100ft	1
153110	Bonded, 16/2 AWG, Flat, 100ft	1
154525	Bonded, 16/4 AWG, Flat, 250ft	1
Tools & Wire Management		
339066	Electrical Tape, 1/2" x 20' Assorted	2
701009	Stainless Steel Cut/Strip/Crimp Tool	2
702030	Tool #24-#12 Automatic Wire Stripper	2
703005	Wire & Cable Cutter	2
703010	Single Crimp Ratchet Tool	1
703030	Double Crimp Ratchet Tool	1
703075	Premium Battery Cable Stripper	2



Complete Electrical Merchandiser

NEW ASSORTMENT

Part # DR1088

The DR1088 is Ancor's premier merchandiser. Designed as an end cap or free standing gondola, this eye catching 4' wide x 6' high heavy-duty display provides the retail dealers with a complete selection of our most popular Marine Grade® products. The top section includes consumer packs of our most popular terminals, lugs, lamps, mini-spools, cable ties and heat shrink tubing products. The bottom section offers the most popular colors and sizes of primary wire, battery cable, duplex, and triplex to be sold by the foot. The DR1088 electrical merchandiser comes complete with a planogram, hooks, re-order tags and three heavy-duty wire baskets designed to dispense the spools of wire.

Part #	Description	# of Pkgs
Mini Spools		
180003	18 AWG, Black, 35ft	2
180803	18 AWG, Red, 35ft	2
180903	18 AWG, White, 35ft	2
182003	16 AWG, Black, 25ft	2
182103	16 AWG, Dark Blue, 25ft	2
182303	16 AWG, Green, 25ft	2
182803	16 AWG, Red, 25ft	2
182903	16 AWG, White, 25ft	2
183003	16 AWG, Yellow, 25ft	2
184003	14 AWG, Black, 18ft	2
184803	14 AWG, Red, 18ft	2
186003	12 AWG, Black, 12ft	2
186803	12 AWG, Red, 12ft	2
188003	10 AWG, Black, 8ft	2
188803	10 AWG, Red, 8ft	1
Wire & Cable		
100010	18 AWG, Black, 100ft	1
100810	18 AWG, Red, 100ft	1
102010	16 AWG, Black, 100ft	1
102310	16 AWG, Green, 100ft	1
102810	16 AWG, Red, 100ft	1
102910	16 AWG, White, 100ft	1
104010	14 AWG, Black, 100ft	1
104310	14 AWG, Green, 100ft	1
104810	14 AWG, Red, 100ft	1
106010	12 AWG, Black, 100ft	1
106810	12 AWG, Red, 100ft	1
106910	12 AWG, White, 100ft	1
108010	10 AWG, Black, 100ft	1
108310	10 AWG, Green, 100ft	1
108810	10 AWG, Red, 100ft	1
111010	8 AWG, Black, 100ft	1
111510	8 AWG, Red, 100ft	1
113005	4 AWG, Black, 50ft	1
113505	4 AWG, Red, 50ft	1
114002	2 AWG, Black, 25ft	1
114502	2 AWG, Red, 25ft	1
121110	10/2 AWG, Flat, 100ft	1
121325	12/2 AWG, Flat, 250ft	1
121525	14/2 AWG, Flat, 250ft	1
121725	16/2 AWG, Flat, 250ft	1
121925	18/2 AWG, Flat, 250ft	1
131110	10/3 AWG, Flat, 100ft	1
131310	12/3 AWG, Flat, 100ft	1
131510	14/3 AWG, Flat, 100ft	1
Nylon Connectors & Terminals		
230100	Butt Connector, 22–18, 7pc	10
230110	Butt Connector, 16–14, 7pc	10
230120	Butt Connector, 12–10, 5pc	10
230203	Ring Terminal, 22–18 #10, 6pc	10
230213	Ring Terminal, 16–14 #10 , 6pc	10
230216	Ring Terminal, 16–14 3/8", 5pc	10
230223	Ring Terminal, 12–10 #10, 5pc	10
230225	Ring Terminal, 12–10 5/16", 4pc	10
230226	Ring Terminal, 12–10 3/8", 4pc	10

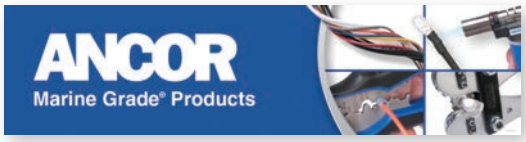
Part #	Description	# of Pkgs
230312	Flanged Spade, 16–14 #8, 6pc	10
230313	Flanged Spade, 16–14 #10, 6pc	10
230323	Flanged Spade, 12–10 #10, 5pc	10
230615	Splice Connector, 18–14, 4pc	5
231418	Fully Insul Disc, Female, 16–14, 4pc	10
231419	Fully Insul Disc, Male, 16–14, 4pc	10
231428	Fully Insul Disc, Female, 12–10, 3pc	10
Heavy-duty Tinned Lugs		
252235	#8 5/16", 2pc	10
252236	#8 3/8", 2pc	10
252244	#6 1/4"pc	10
252245	#6 5/16", 2pc	10
252246	#6 3/8", 2pc	10
252255	#4 5/16", 2pc	10
252256	#4 3/8", 2pc	10
252265	#2 5/16", 2pc	10
252266	#2 3/8", 2pc	10
252285	#1/0 5/16", 2pc	5
252286	#1/0 3/8", 2pc	5
252295	#2/0 5/16", 2pc	5
252296	#2/0 3/8", 2pc	5
260325	Lead Battery Terminal, 5/16" & 3/8" Combo Pack	2
Adhesive Lined Heat Shrink Tubing		
302103	3/16" x 3", Black, 3pc	10
303103	1/4" x 3", Black, 3pc	10
304103	3/8" x 3", Black, 3pc	5
305103	1/2" x 3", Black, 3pc	5
306103	3/4" x 3", Black, 3pc	5
326202	Battery Cable Tubing, 3/4" x 3", Black & Red	5
Adhesive Lined Heat Shrink Connectors & Terminals		
309003	Butt Connector, 22–18, 3pc	10
309103	Butt Connector, 16–14, 3pc	10
309203	Butt Connector, 12–10, 3pc	10
309303	Butt Connector, #8, 3pc	10
310203	Ring Terminal, 22–18 #8, 3pc	10
310303	Ring Terminal, 22–18 #10, 3pc	10
311203	Ring Terminal, 16–14 #8, 3pc	10
311303	Ring Terminal, 16–14 #10, 3pc	10
311403	Ring Terminal, 16–14 1/4", 3pc	10
311503	Ring Terminal, 16–14 5/16", 3pc	10
311603	Ring Terminal, 16–14 3/8", 3pc	10
312203	Ring Terminal, 12–10 #8, 3pc	10
312303	Ring Terminal, 12–10 #10, 3pc	10
312403	Ring Terminal, 12–10 1/4", 3pc	10
312503	Ring Terminal, 12–10 5/16", 3pc	10
312603	Ring Terminal, 12–10 3/8", 3pc	10
316803	Disconnect, Female 22–18, 3pc	10
316903	Disconnect, Male 22–18, 3pc	10
317803	Disconnect, Female 16–14, 3pc	10
317903	Disconnect, Male 16–14, 3pc	10
320103	Butt Connnector, Step-Down, 22–18/22–14, 3pc	10
320203	Butt Connector, Step-Down, 16–14/16–10, 3pc	10
321503	Ring Terminal, #8 5/16", 3pc	10
321603	Ring Terminal, #8 3/8", 3pc	10

Part #	Description	# of Pkgs
Wire Management		
199204	Cable Tie, Std, 8", Natural, 25pc	10
199206	Cable Tie, Std, 8", UVB, 25pc	10
199228	Cable Tie, Mounting, 8", UVB, 25pc	10
199246	Cable Tie, Std, 6", Natural, 25pc	10
199248	Cable Tie, Std, 6", UVB, 25pc	10
339066	Electrical Tape, 1/2" x 20' Assorted	2
400000	Nylon Clamps, Natural, 1/8"–1/2" Assorted, 54pc	3
403502	Stainless Steel Cushion Clamp, 1/2", 10pc	2
750000	Vinyl, Grommets, 1/4"-3/4" Assortment, 45pc	3
Mini Lamps		
520090	Dbl Contact Bayonet, 12V, .58A, 7.5W, 6CP, 2pc	5
520194	Wedge, 12V, .27A, 3.8W, 2CP, 2pc	5
520906	Wedge, 12V, .69A, 9.0W 6CP,2pc	5
521004	Dbl Contact Bayonet, 12V, .94A, 12W, 15CP, 2pc	5
529102	Festoon, 12V, .8A, 10W, 8CP, 2pc	5
529338	Dbl Contact Bayonet, 24V, .42A, 10W	5
529362	Halogen G-4, 12V, .83A, 10W	5
529368	Halogen G-4, 24V, .83A, 20W	5
Tools		
701009	Stainless Steel Cut/Strip/Crimp Tool	1
702030	Tool #24–#12 Automatic Wire Stripper	1
703005	Wire & Cable Cutter	1
703010	Single Crimp Ratchet Tool	1
703030	Double Crimp Ratchet Tool	1
703024	Mini Butane Torch	1

Replacement Display Accessories

Part #	Description	# of Pkgs
DR0007	4" Basket Brackets	2 per
DR0008	6.5" Basket Brackets	2 per
DR0009	10.5" Basket Brackets	2 per
DR0010	4" Wire Basket	1 per
DR0011	8" Wire Basket	1 per
DR0012	12" Wire Basket	1 per
DR0020	48" Heavy-duty Gondola	1 per
DR0061	6" Metal Pegboard Hooks	120 per

48" Display Replacement Header



Part # ANCHEADER

NMEA 2000 Planogram Assortment NEW

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



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
Brown	Generator Armature	Generator Armature to Regulator
	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)

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.*

3% Voltage Drop at 12 Volts

Length		Current (Amps) 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

Length		Current (Amps) 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

Length		Current (Amps) 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

Conductors Sized (AWG) for 10% Voltage Drop

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:

$$CM = \frac{\text{10.75 x 10 (amps) x 21 (total length of run)}}{\text{0.36 (3\% of 12V)}} = 6.271$$

Ancor 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.*

10% Voltage Drop at 12 Volts

Length		Current (Amps) 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

Length		Current (Amps) 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

Length		Current (Amps) 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	mm²	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 82 and 83 should be used.

Conductor Size	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	
AWG	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.

Reprinted at the courtesy of the United States Coast Guard Electrical System Compliance Guideline.

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

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

PN	Page
100010	10
100025	10
100050	10
100099	10
100110	10
100125	10
100150	10
100199	10
100210	10
100225	10
100250A	10
100299	10
100310	10
100319F	17
100320F	17
100325	10
100350	10
100399	10
100410	10
100425	10
100450	10
100499	10
100510	10
100525	10
100550	10
100599	10
100610	10
100625	10
100650	10
100699	10
100710	10
100725	10
100750	10
100799	10
100810	10
100825	10
100850	10
100899	10
100910	10
100925	10
100950	10
100999	10
101010	10
101025	10
101050	10
101099	10
101810	10
101825	10
101850	10
101910	10
101925	10
101950	10
102010	10
102025	10
102050	10
102099	10
102110	10
102125	10
102150	10
102199	10
102210	10
102225	10
102250	10
102299	10

PN	Page
102310	10
102325AA	10
102350	10
102399	10
102410	10
102425	10
102450	10
102499	10
102510	10
102525	10
102550	10
102599	10
102610	10
102625	10
102650	10
102710	10
102725	10
102750	10
102799	10
102810	10
102825	10
102850	10
102899	10
102910	10
102925	10
102950	10
102999	10
103010	10
103025	10
103050	10
103099	10
103810	10
103825	10
103850	10
103910	10
103925	10
103950	10
104010	10
104025	10
104050	10
104099	10
104110	10
104125	10
104150	10
104199	10
104210	10
104225	10
104250	10
104299	10
104310	10
104325	10
104350	10
104399	10
104410	10
104425	10
104450	10
104499	10
104510	10
104525	10
104550	10
104599	10
104610	10
104625	10
104650	10

PN	Page
104710	10
104725	10
104750	10
104810	10
104825	10
104850	10
104899	10
104910	10
104925	10
104950	10
104999	10
105010	10
105025	10
105050	10
105099	10
105810	11
105825	11
105840	11
106002	11
106010	11
106025	11
106040	11
106099	11
106102	11
106110	11
106125	11
106140	11
106199	11
106202	11
106210	11
106225	11
106240	11
106299	11
106302	11
106310	11
106325	11
106340	11
106399	11
106499	11
106502	11
106510	11
106525	11
106540	11
106599	11
106602	11
106610	11
106625	11
106640	11
106702	11
106710	11
106725	11
106740	11
106802	11
106810	11
106825	11
106840	11
106899	11
106902	11
106910	11
106925	11
106940	11
106999	11
107002	11
107010	11

PN	Page
107025	11
107040	11
107099	11
108002	11
108010	11
108025	11
108050	11
108099	11
108102	11
108110	11
108125	11
108150	11
108199	11
108202	11
108210	11
108225	11
108250	11
108299	11
108302	11
108310	11
108325	11
108350	11
108399	11
108499	11
108502	11
108510	11
108525	11
108550	11
108599	11
108802	11
108810	11
108825	11
108850	11
108899	11
108902	11
108910	11
108925	11
108950	11
108999	11
109002	11
109010	11
109025	11
109050	11
109099	11
109302	11
109310	11
109325	11
109350	11
109399	11
111002	11
111005	11
111010	11
111025	11
111050	11
111099	11
111302	11
111305	11
111310	11
111325	11
111350	11
111399	11
111502	11
111505	11
111510	11

PN	Page
111525	11
111550	11
111599	11
111702	11
111705	11
111710	11
111725	11
111750	11
111799	11
111902	11
111905	11
111910	11
111925	11
111950	11
111999	11
112002	11
112005	11
112010	11
112025	11
112050	11
112075	11
112302	11
112305	11
112310	11
112325	11
112350	11
112375	11
112502	11
112505	11
112510	11
112525	11
112550	11
112575	11
112702	11
112705	11
112710	11
112725	11
112750	11
112775	11
112902	11
112905	11
112910	11
112925	11
112950	11
112975	11
113002	12
113005	12
113010	12
113025	12
113050	12
113502	12
113505	12
113510	12
113525	12
113550	12
113902	12
113905	12
113910	12
113925	12
113950	12
114002	12
114005	12
114010	12
114025	12

PN	Page
114040	12
114502	12
114505	12
114510	12
114525	12
114540	12
114902	12
114905	12
114910	12
114925	12
114940	12
115002	12
115005	12
115010	12
115030	12
115502	12
115505	12
115510	12
115530	12
115902	12
115905	12
115910	12
115930	12
116002	12
116005	12
116010	12
116025	12
116502	12
116505	12
116510	12
116525	12
116902	12
116905	12
116910	12
116925	12
117002	12
117005	12
117010	12
117020	12
117502	12
117505	12
117510	12
117520	12
117902	12
117905	12
117910	12
117920	12
118002	12
118005	12
118010	12
118015	12
118502	12
118505	12
118510	12
118515	12
118902	12
118905	12
118910	12
118915	12
119002	12
119005	12
119010	12
119025	12
119502	12

PN	Page
119505	12
119510	12
119525	12
119902	12
119905	12
119910	12
119925	12
120705	14
120710	14
120905	14
120910	14
120925	14
121110	14
121125	14
121140	14
121180	14
121310	14
121325	14
121350	14
121510	14
121525	14
121550	14
121599	14
121710	14
121725	14
121750	14
121799	14
121910	14
121925	14
121950	14
122010	16
122025	16
122050	16
123705	14
123710	14
123905	14
123910	14
123950	14
124102	14
124110	14
124125	14
124140	14
124180	14
124302	14
124310	14
124325	14
124350	14
124502	14
124510	14
124525	14
124550	14
124599	14
124702	14
124710	14
124725	14
124750	14
124799	14
124910	14
124925	14
124950	14
124999	14
126310	14
126325	14
126350	14

PN	Page
126510	14
126525	14
126550	14
126710	14
126725	14
126750	14
130705	15
130710	15
130902	15
130905	15
130910	15
131110	15
131130	15
131150	15
131151	16
131302	15
131310	15
131325	15
131370	15
131510	15
131525	15
131550	15
131590	15
131710	15
131725	15
131750	15
131799	15
133310	15
133325	15
133510	15
133525	15
133590	15
133710	15
133725	15
141410	16
141425	16
142410	17
142425	17
142499	17
142610	17
142625	17
142650	17
142810	17
150102	17
150110	17
150510	19
150525	19
151025	19
151050	19
151510	19
151525	19
151550	19
151560	19
151710	19
151725	19
151750	19
153010	16
153050	16
153110	16
153125	16
153150	16
153510	17
153530	17
153710	17

PN	Page
153725	17
153910	17
153925	17
154010	18
154030	18
154510	18
154525	18
155010	16
155050	16
156410	16
156425	16
156450	16
156610	16
156625	16
158010	16
158025	16
158099	16
160010	17
160099	17
160110	17
160199	17
160210	17
160299	17
180003	10
180103	10
180203	10
180303	10
180403	10
180503	10
180603	10
180703	10
180803	10
180903	10
181003	10
182003	10
182103	10
182203	10
182303	10
182403	10
182503	10
182603	10
182703	10
182803	10
182903	10
183003	10
184003	10
184103	10
184203	10
184303	10
184403	10
184503	10
184603	10
184703	10
184803	10
184903	10
185003	10
186003	11
186303	11
186803	11
186903	11
187003	11
188003	11
188803	11
189130	13

PN	Page
189131	13
189134	13
189135	13
189136	13
189137	13
189140	13
189141	13
189144	13
189145	13
189146	13
189147	13
189303	16
189800	19
189849	19
199200	41
199201	41
199202	41
199203	41
199204	41
199205	41
199206	41
199207	41
199208	41
199209	41
199210	41
199211	41
199212	41
199213	41
199214	41
199215	41
199216	41
199217	41
199218	41
199219	41
199220	41
199221	41
199222	41
199223	41
199224	42
199225	42
199226	42
199227	42
199228	42
199229	42
199230	42
199231	42
199232	42
199233	42
199234	42
199235	42
199236	42
199237	43
199238	43
199239	43
199240	42
199241	42
199242	42
199243	42
199245	42
199246	41
199247	41
199248	41
199249	41
199250	42

PN	Page
199251	42
199252	42
199253	42
199254	41
199257	42
199258	42
199259	41
199260	41
199261	42
199262	42
199263	42
199264	44
199265	44
199266	44
199267	44
199268	44
199269	44
199274	44
199275	44
199276	44
199277	44
199278	44
199279	44
199280	44
199281	44
199282	44
199283	44
199284	44
199285	44
199286	43
199287	43
199288	43
199289	43
199290	43
199291	43
199292	43
199293	43
199294	43
199295	43
199296	43
199297	43
199300	45
199301	45
199302	45
199303	45
199304	45
199305	45
199306	45
199307	45
199308	45
199309	45
199310	45
199311	45
199312	45
199313	45
199314	45
199315	45
199316	45
199317	45
199318	44
199319	44
199320	44
199321	44
199322	44

PN	Page
199323	44
199324	43
199325	43
199326	43
199327	43
199328	43
199329	43
199330	43
199331	43
199333	44
199334	44
199336	44
199337	44
199339	44
199340	44
199342	44
199343	44
199344	41
199345	41
199346	41
199347	41
199348	41
199349	41
199350	41
199351	41
199352	41
200250	32
200258	32
200259	32
202175	32
202176	32
203100	32
210100	30
210110	30
210120	30
210130	31
210140	31
210150	31
210161	30
210162	30
210163	30
210164	31
210165	31
210166	31
210201	29
210202	29
210203	29
210204	29
210205	29
210206	29
210211	29
210212	29
210213	29
210214	29
210215	29
210216	29
210221	29
210222	29
210223	29
210224	29
210225	29
210226	29
210227	29
210233	29

PN	Page
210234	29
210235	29
210236	29
210237	29
210243	29
210244	29
210245	29
210246	29
210247	29
210253	29
210254	29
210255	29
210256	29
210257	29
210301	30
210302	30
210303	30
210311	30
210312	30
210313	30
210321	30
210322	30
210323	30
210510	30
210520	30
210612	31
210613	31
210615	31
210708	31
210709	31
210718	31
210719	31
210808	30
210809	30
210818	30
210819	30
210828	30
210829	30
211408	30
211409	30
211418	30
211419	30
211428	30
211429	30
211480	31
211490	31
220002	57
220003	57
220004	57
220011	27
220012	27
220020	57
220100	30
220110	30
220120	30
220161	30
220162	30
220163	30
220164	31
220202	29
220203	29
220204	29
220205	29
220206	29

PN	Page
220212	29
220213	29
220214	29
220215	29
220216	29
220222	29
220223	29
220224	29
220225	29
220226	29
220227	29
220302	30
220303	30
220312	30
220313	30
220322	30
220323	30
220612	31
220615	31
220708	31
220709	31
220718	31
220719	31
220808	30
220809	30
220818	30
220819	30
220828	30
220829	30
221408	30
221409	30
221418	30
221419	30
221428	30
221429	30
222100	30
222110	30
222120	30
222130	31
222140	31
222150	31
222161	30
222162	30
222163	30
222203	29
222213	29
222223	29
222233	29
222234	29
222235	29
222236	29
222237	29
222243	29
222244	29
222245	29
222246	29
222247	29
222253	29
222254	29
222255	29
222256	29
222257	29
230100	30
230110	30

PN	Page
230120	30
230130	31
230140	31
230150	31
230161	30
230162	30
230163	30
230164	31
230165	31
230166	31
230201	29
230202	29
230203	29
230204	29
230205	29
230206	29
230211	29
230212	29
230213	29
230214	29
230215	29
230216	29
230221	29
230222	29
230223	29
230224	29
230225	29
230226	29
230227	29
230233	29
230234	29
230235	29
230236	29
230237	29
230243	29
230244	29
230245	29
230246	29
230247	29
230253	29
230254	29
230255	29
230256	29
230257	29
230301	30
230302	30
230303	30
230311	30
230312	30
230313	30
230321	30
230322	30
230323	30
230510	30
230520	30
230612	31
230613	31
230615	31
230708	31
230709	31
230718	31
230719	31
230808	30
230809	30

PN	Page
230818	30
230819	30
230828	30
230829	30
231408	30
231409	30
231418	30
231419	30
231428	30
231429	30
231480	31
231490	31
242233	33
242234	33
242235	33
242236	33
242237	33
242243	33
242244	33
242245	33
242246	33
242247	33
242253	33
242254	33
242255	33
242256	33
242257	33
242264	33
242265	33
242266	33
242267	33
242274	33
242275	33
242276	33
242277	33
242284	33
242285	33
242286	33
242287	33
242294	33
242295	33
242296	33
242297	33
242715	33
242716	33
242717	33
242725	33
242726	33
242727	33
244233	33
244234	33
244235	33
244236	33
244243	33
244244	33
244245	33
244246	33
244253	33
244254	33
244255	33
244256	33
244265	33
244266	33
244275	33

PN	Page
244276	33
244285	33
244286	33
244295	33
244296	33
244715	33
244716	33
244725	33
244726	33
249101	18
249102	18
249103	18
249104	18
249105	18
249106	18
249107	18
249108	18
249109	18
249110	18
249111	18
249112	18
249113	18
249114	18
249115	18
249116	18
249117	18
249118	18
249119	18
249120	18
249121	18
249122	18
250101	49
252130	34
252140	34
252150	34
252160	34
252170	34
252180	34
252190	34
252231	33
252233	33
252234	33
252235	33
252236	33
252237	33
252241	33
252243	33
252244	33
252245	33
252246	33
252247	33
252251	33
252253	33
252254	33
252255	33
252256	33
252257	33
252261	33
252264	33
252265	33
252266	33
252267	33
252271	33
252274	33

PN	Page
252275	33
252276	33
252277	33
252281	33
252284	33
252285	33
252286	33
252287	33
252291	33
252294	33
252295	33
252296	33
252297	33
252715	33
252716	33
252717	33
252725	33
252726	33
252727	33
255101	49
260010	34
260012	34
260100	34
260200	34
260322	34
260325	34
260350	35
260381	35
260405	35
260505	35
270000	20
270001	20
270002	20
270005	20
270010	20
270101	21
270103	21
270104	21
270105	21
270106	21
270107	21
270108	21
270109	21
270110	21
270111	21
270112	21
270113	21
270114	21
270201	22
270202	22
270203	23
270300	20
270301	20
270302	20
270305	20
270400	80
301103	38
301106	38
301124	38
301148	38
301503	38
301506	38
302103	38
302106	38

PN	Page
302124	38
302148	38
302603	38
302606	38
302624	38
302648	38
303103	38
303106	38
303124	38
303148	38
303602	38
303603	38
303606	38
303624	38
303648	38
304103	38
304106	38
304124	38
304148	38
304503	38
304506	38
304602	38
304603	38
304606	38
304624	38
304648	38
305103	38
305106	38
305124	38
305148	38
305602	38
305603	38
305606	38
305624	38
305648	38
306103	38
306106	38
306124	38
306148	38
306503	38
306602	38
306603	38
306606	38
306624	38
306648	38
306903	38
306906	38
306924	38
306948	38
307103	38
307106	38
307124	38
307148	38
307602	38
307603	38
307606	38
307624	38
307648	38
307903	38
307906	38
307924	38
307948	38
309000	27
309001	27

PN	Page
309002	27
309003	27
309025	27
309099	27
309101	27
309102	27
309103	27
309125	27
309199	27
309201	27
309202	27
309203	27
309225	27
309299	27
309302	27
309303	27
309325	27
310203	26
310225	26
310299	26
310303	26
310325	26
310399	26
310403	26
310425	26
310499	26
310503	26
310525	26
310599	26
310603	26
310625	26
310699	26
311203	26
311225	26
311299	26
311303	26
311325	26
311399	26
311403	26
311425	26
311499	26
311503	26
311525	26
311599	26
311603	26
311625	26
311699	26
312203	26
312225	26
312299	26
312303	26
312325	26
312399	26
312403	26
312425	26
312499	26
312503	26
312525	26
312599	26
312603	26
312625	26
312699	26
313203	26
313225	26

PN	Page
313299	26
314203	26
314225	26
314299	26
314303	26
314325	26
314399	26
315203	26
315225	26
315299	26
315303	26
315325	26
315399	26
316803	27
316825	27
316899	27
316903	27
316925	27
316999	27
317803	27
317825	27
317899	27
317903	27
317925	27
317999	27
318803	26
318825	26
318899	26
318903	26
318925	26
318999	26
319803	26
319825	26
319899	26
319903	26
319925	26
319999	26
320000	28
320003	28
320025	28
320101	49
320103	28
320125	28
320203	28
320225	28
320303	28
320325	28
320803	27
320825	27
320899	27
320903	27
320925	27
320999	27
321303	26
321325	26
321403	26
321425	26
321503	26
321525	26
321603	26
321625	26
321703	26
321725	26
326103	39

PN	Page
326106	39
326124	39
326148	39
326202	39
326603	39
326606	39
326624	39
326648	39
326899	27
326903	39
326906	39
326924	39
327103	39
327106	39
327124	39
327148	39
327202	39
327603	39
327606	39
327624	39
327648	39
327899	27
327903	39
327906	39
327924	39
330101	49
331066	40
332066	40
333066	40
334066	40
335066	40
336066	40
336899	27
337066	40
337899	27
338066	40
339066	40
341010	40
342010	40
343010	40
344010	40
345010	40
346010	40
347010	40
348010	40
400000	46
401122	46
401182	46
401251	46
401252	46
401255	46
401312	46
401372	46
401375	46
401432	46
401502	46
401622	46
401752	46
401892	46
401912	46
401932	46
402252	46
402312	46
402372	46

PN	Page
402502	46
402622	46
402752	46
402892	46
403182	46
403252	46
403312	46
403372	46
403502	46
403562	46
403622	46
403752	46
403872	46
403892	46
403902	46
404152	46
404172	46
404202	46
404252	46
404302	46
404352	46
452251	48
452381	48
452385	48
452501	48
452505	48
452751	48
452755	48
452900	48
452905	48
453382	48
453386	48
453502	48
453506	48
453752	48
453756	48
453901	48
453906	48
511016	66
520053	63
520057	63
520067	63
520068	63
520082	63
520090	63
520093	63
520094	63
520097	63
520168	65
520194	65
520906	65
520912	65
521003	63
521004	63
521034	64
521076	63
521125	68
521126	63
521140	63
521141	63
521142	63
521156	63
521157	64
521158	64

PN	Page
521159	63
521162	64
521164	63
521176	63
521204	63
521224	63
521383	63
521416	63
521816	63
521895	63
522112	67
522122	67
522124	67
522126	67
522127	67
522129	67
522131	67
529095	67
529102	67
529104	67
529168	65
529300	63
529310	63
529311	63
529333	67
529337	65
529338	65
529340	64
529341	64
529344	64
529348	64
529355	65
529361	65
529362	65
529367	65
529368	65
529370	65
529371	65
529381	65
529385	65
529386	65
529405	66
529406	66
529412	63
529414	63
529417	67
529419	67
531015	66
531025	66
531050	66
531075	66
531100	66
532025	66
532050	66
533015	66
533025	66
533050	66
533075	66
700103	57
700115	57
701009	52
702007	52
702008	52
702027	56

PN	Page
702030	53
702031	53
702032	53
702033	53
703005	52
703006	52
703007	52
703010	54
703015	55
703023	56
703024	56
703030	54
703035	55
703040	54
703050	54
703060	56
703064	56
703065	53
703072	58
703073	58
703075	53
703079	59
703112	55
750000	47
760375	47
760500	47
764998	47
765000	47
765002	47
765004	47
765006	47
765010	47
765012	47
ANCHEADER	79
ANCLAMP	76
ANCLUG	76
ANCNMEA	76
ANCSHRINK	76
ANCTERM	76
ANCWIRE	76
DR1086	77
DR1088	78
DR1218	76
DR1230	72
DR1243	73
DR1425	74
DR1550	75
DR2218	76
DR2230	72
DR2243	73
DR2425	74
DR2550	75
P33406	49
P33407	49
P33412	49
SPC103	17
SPK1614	27
SPK2218	27
SPKKIT	27

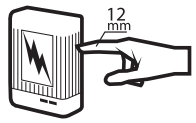
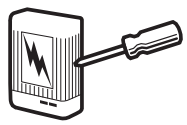
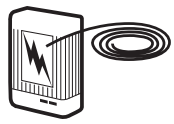
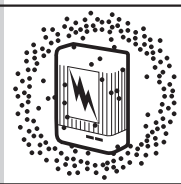
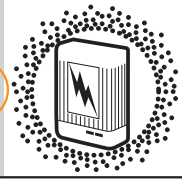
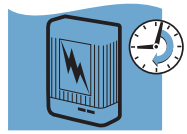
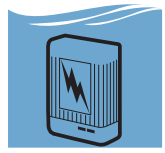
Ingress Protection (IP) Ratings Guide

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.		Protected against vertically falling drops of water. Limited ingress permitted.
2		Protected against a solid object greater than 12 mm such as a finger.		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.		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.		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.		Protected against jets of water. Limited ingress permitted.
6		Dust tight. No Ingress of dust. Two to eight hours.		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:



Ancor
N85 W12545 Westbrook Crossing
Menomonee Falls, WI 53051 USA
p 800.307.6702
f 800.799.3779

New Zealand
42 Apollo Drive
Rosedale, Auckland 0632
New Zealand
p +64.9.415.7261
f +64.9.415.9327

The Netherlands
Snijdersbergweg 93
1105 AN Amsterdam
The Netherlands
p +31(0)20 34 22 100
f +31(0)20 69 71 006

technical@marinco.com
ancorproducts.com

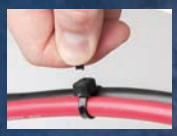
©2020 Ancor
All rights reserved

Unauthorized copying or
reproduction is a violation
of applicable laws.

A division of
POWER PRODUCTS LLC

ANC_CAT_003_0919

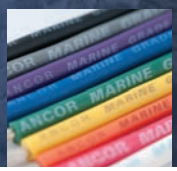
















POWER PRODUCTS LLC
Marine & Mobile Solutions

ANCOR BEP BLUE SEA SYSTEMS C2OES LENCO MARINCO MASTERVOLT ProMariner™