MARINE PRIMARY WIRE

105˚C DRY 75˚C WET 600V TINNED COPPER

Pacer's primary wire meets and exceeds the most stringent marine specification - UL Standard 1426 BC-5W2 (105˚C Dry 75˚C Wet). Our wire is constructed from finely stranded tinned plated copper and is covered with a flexible PVC insulation. Pacer's UL wire has been the choice of hundreds of boat builders for over 15 years. Our extensive stock, quick shipments, uncompromising quality and competitive prices have made us a standard in the industry.

For the best choice of wire to use in any marine environment, especially in saltwater environments, use Pacer Marine's Primary Wire.

FEATURES:

- Finely stranded tinned copper conductor (Type III)
- Color coded PVC insulation (See chart for specifics per gauge)
- Temperature Range: -20˚C to 105˚C
- Voltage Rating: 600V
- Resistant To: Acid, Alkalis, Abrasion, Flame, Gasoline, Oil, Ozone, Moisture, Fungus
- Applications: Internal wiring of electrical equipment.
  Internal wiring of panels and meters
  Point to point wiring

COMPLIANCES:

UL Standard 1426 (BC-5W2)
AWM 1015/1230 (16-10 AWG)
AWM 1028/1231 (8 AWG)
CSA: TEW
ABYC: E-8.14, E-9.14
Coast Guard: 33 CFR part 183
NMMA

PART NUMBER (A)	AWG	COND. STRAND THICKNESS	NOM. INSULATION	NOMINAL O.D.	STANDARD PUT-UPS	APPRX. SHIP LBS./M
WUL16	16	26/.0100	.032	.125	C, D, M, 5M	15
WUL14	14	41/.0100	.032	.143	C, D, M, 4M	22
WUL12	12	65/.0100	.032	.158	C, D, M, 3M	32
WUL10	10	105/.0100	.032	.184	C, D, M, 2M	46
WUL8	8	168/.0100	.045	.265	C, D, M,	73

SEE TECHNICAL DATA PAGE 61 FOR CIRCULAR MIL AREA OF CONDUCTORS.

COLOR	COLOR ABBR. (B)	*STRIPE NUMBER (C)	16	14	12	10	8	PUT-UP DESIGNATION (D)	QTY.
BLACK	BK	-0						-C	100
BROWN	BR	-1						-D	500
RED	RD	-2						-TL	250
ORANGE	OR	-3						-M	1000
YELLOW	YL	-4						-2M	2000
GREEN	GN	-5						-3M	3000
LT. GREEN	LG	N/A						-4M	4000
BLUE	BL	-6							
LT. BLUE	LB	N/A							
VIOLET	VI	-7							
GRAY	GY	-8							
WHITE	WH	-9							
TAN	TN	N/A							
PINK	PK	N/A							

ORDERING INFORMATION:

Order by standard put-up.
Combine Part Number (A) with Color Abbreviation (B), Optional Stripe Designation (C) and Put-up Designation (D)
EXAMPLE: 12 AWG Black, 500 Feet = WUL12BK-D
EXAMPLE WITH STRIPE: 12 AWG Red/Violet, 500 Feet = WUL12RD-7-D
*500 foot minimums for all stripes

SAE PRIMARY WIRE

(GPT) J1128 & J378 105˚C 50V

General Purpose Thermoplastic (GPT) insulated primary wire conforms to SAE specifications J1128 and J378. Insulated with 105˚C PVC. GPT is intended for 50V or less applications. The polyvinyl chloride insulation provides excellent resistance to moisture, acids alkalis, oil gasoline, flame and abrasion.

Pacer stocks GPT primary wire in all colors and gauge sizes from 16 through 8 awg. Put up sizes are 100ft., 500ft. and 1000ft. All standard put-ups are available for immediate shipment.

FEATURES:

- Type II stranded bare copper conductor
- Color coded PVC insulation (See chart for specifics per gauge)
- Temperature Range: -20˚C to 105˚C
- Voltage Rating: 50V
- Resistant To: Acid, Alkalis, Abrasion, Flame, Gasoline, Oil, Ozone, Moisture, Fungus
- Applications: General Purpose marine, industrial, automotive and truck use
- Electrical installations operating at potentials of less than 50V

COMPLIANCES:

S.A.E. GPT J1128 & J378
Coast Guard: 33 CFR part 183.430

PART NUMBER (A)	AWG	COND. STRAND THICKNESS	NOM. INSULATION	NOMINAL O.D.	STANDARD PUT-UPS	APPRX. SHIP LBS./M
WSA16	16	19/.0112	.023	.105	C, D, M, 6M	13
WSA14	14	19/.0141	.023	.120	C, D, M, 5M	18
WSA12	12	19/.0176	.026	.145	C, D, M, 3.5M	28
WSA10	10	19/.0223	.031	.179	C, D, M, 2.5M	43
WSA8	8	96/.0126	.037	.220	C, D, M,	70

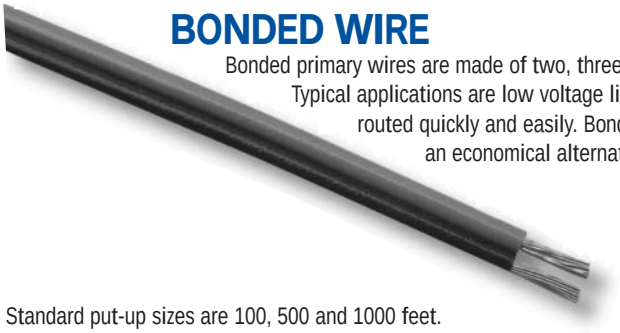
SEE TECHNICAL DATA PAGE 61 FOR CIRCULAR MIL AREA OF CONDUCTORS.

COLOR	COLOR ABBR. (B)	*STRIPE NUMBER (C)	16	14	12	10	8	PUT-UP DESIGNATION (D)	QTY.
BLACK	BK	-0						-C	100
BROWN	BR	-1						-D	500
RED	RD	-2						-M	1000
ORANGE	OR	-3						-2.5M	2500
YELLOW	YL	-4						-3.5M	3500
GREEN	GN	-5						-5M	5000
BLUE	BL	-6						-6M	6000
LT. BLUE	LB	N/A							
VIOLET	VI	-7							
GRAY	GY	-8							
WHITE	WH	-9							
TAN	TN	N/A							
PINK	PK	N/A							

ORDERING INFORMATION:

Order by standard put-up.
Combine Part Number (A) with Color Abbreviation (B), Optional Stripe Designation (C) and Put-up Designation (D)
EXAMPLE: 12 AWG Black, 500 Feet = WSA12BK-D
EXAMPLE WITH STRIPE: 12 AWG Red/Violet, 500 Feet = WSA12RD-7-D
*500 foot minimums for all stripes

BONDED WIRE



Bonded primary wires are made of two, three and four conductors of various colors parallel bonded. Typical applications are low voltage lights, trailer lights or where multiple conductors need to be routed quickly and easily. Bonded wire is constructed from 105˚C SAE GPT primaries. It is an economical alternative to jacketed wire.

Standard put-up sizes are 100, 500 and 1000 feet.

PART NUMBER	AWG	NUMBER OF CONDUCTORS	CONDUCTOR STRANDING	APPRX. SHIP LBS./M
WB16BK-RD	16	2	19/.0112	25
WB16BK-BL	16	2	19/.0112	25
WB16BK-GY	16	2	19/.0112	25
WB16BK-PK	16	2	19/.0112	25
WB16-3	16	3	19/.0112	38
WB16-4	16	4	19/.0112	50
WB14BK-RD	14	2	19/.0141	35
WB14BK-BL	14	2	19/.0141	35
WB14BK-GY	14	2	19/.0141	35
WB14-3	14	3	19/.0141	52

TECHNICAL DATA PAGE 61 FOR CIRCULAR MIL AREA OF CONDUCTORS.

ORDERING INFORMATION:

Order by standard put-up size.

WB16-3 COLORS: Brown, Yellow, Green
WB16-4 COLORS: White, Brown, Yellow, Green
WB14-3 COLORS: Brown, Yellow, Green

SAE BATTERY CABLE

(SGT) J1127 & J378 105˚C 50V

Starter or Ground Thermoplastic (SGT) insulated battery cable conforms to SAE specifications J1127 and J378. Insulated with 105˚C PVC. SGT is intended for 50V or less applications. The polyvinyl chloride insulation provides excellent resistance to moisture, acids, alkalis, oil, gasoline, flame, and abrasion.

FEATURES:

- Type II stranded bare copper conductor
- Color coded PVC insulation (See chart for specifics per gauge.)
- Temperature Range: -20˚C to 105˚C
- Voltage Rating: 50V
- Resistant To: Acid, Alkalis, Abrasion, Flame, Gasoline, Oil, Ozone, Moisture, Fungus

COMPLIANCES:

S.A.E. SGT J1127 & J378
Coast Guard: 33 CFR part 183.430

PART NUMBER (A)	AWG	COND. STRAND THICKNESS	NOM. INSULATION THICKNESS	NOMINAL O.D.	STANDARD PUT-UP SIZES	APPRX. SHIP LBS./M
WSA6	6	49/.0226	.060	.334	C, TL, D, M	107
WSA4	4	70/.0226	.065	.375	C, TL, D	166
WSA2	2	133/.0226	.065	.450	C, TL, D	208
WSA1	1	133/.0243	.065	.515	C, TL, D	323
WSA1/0	1/0	133/.0282	.065	.530	C, TL, D	431
WSA2/0	2/0	133/.0308	.065	.595	C, TL, D	497

TECHNICAL DATA PAGE 61 FOR CIRCULAR MIL AREA OF CONDUCTORS.

COLOR	COLOR ABBR. (B)	6	4	2	1	1/0	2/0	PUT-UP DESIGNATION (C)	QTY.
BLACK	BK							-C	100
RED	RD							-TL	250
GREEN	GN							-D	500
WHITE	WH								

ORDERING INFORMATION:

Order by standard put-up.
Combine Part Number (A) with Color Abbreviation (B) and Put-up Designation (C)
EXAMPLE: 2 AWG Red, 100 Feet. = WSA2RD-C

SIGNAL INTERFERENCE

When a particular installation is prone to EMI (Electromagnetic), RFI (Radio Frequency), ESI (electrostatic), interference from either internal or external sources, some form of cable shielding will be required. The types of interference, or noise, cables are exposed to can determine the type of shielding required. There are basically four types of noise which will affect the wiring or cabling of an instrument or control circuit: static, magnetic, common mode and crosstalk.

STATIC NOISE. This refers to signal distortion due to the electrical field radiated by a voltage source, which has coupled into the signal-bearing circuit. Simple shielding of the full circuit is a typical means of mitigating this electrostatic type of interference. Foil shields, which offer 100% shielding efficiency, have proven most effective against this type of interference. It is critical that the shield be continued to, and completely encompass, the transmitting and receiving ends of the circuit if high levels of noise reduction are required. Effective grounding of the shield is also required; "floating" of non-grounded shields only partially reduce the effects of noise. To effectively ground the shield, the non-insulated "drain" wire must be grounded on both ends of the circuit.

MAGNETIC NOISE. Magnetic fields, radiated by power wiring found in large AC motors, transformers and knife switches, can set up current flows in opposition to the instrument circuit field. The result is the superimposing of a noise current on the signal current. The simplest and best means of mitigating the effects of such magnetic interference is by simple twisting of the cable elements.

COMMON MODE NOISE. Common mode interference is the result of currents flowing between different potential grounds located at various points within a system. Receivers with very high common mode rejection ratios minimize this type of interference.

CROSSTALK. This refers to the superimposing of either pulsed DC or standard AC signals carried on one wire pair to another wire pair in close proximity. Although pair twist tends to reduce crosstalk levels, the most effective means of mitigation is individual pair shielding coupled to pair twist.

CATEGORY 5E ENHANCED

Available in 24 AWG solid bare or stranded bare copper configurations. Standard put-ups are 1000 ft. pullout boxes. Cut lengths are not available. Performance tested to 350 MHz.

- NEC Type CM, Article 800
- CEC Type CMG
- ETL verified for ISO 11801 Category 5
- ETL Verified for TIA/EIA 568B Category 5E

PART NUMBER	PAIRS	AWG	COLOR	WEIGHT
M24/4PR-CAT5E	4	24 (SOLID) BARE	GREY	26 lb/kft.
M24/4PR-CAT5EB	4	24 (SOLID) BARE	BLUE	26 lb/kft.
M24/4PR-CAT5ES	4	24 7/32 BARE	GREY	26 lb/kft.

RJ45 FIELD MOISTURE-RESISTANT ETHERNET CONNECTIONS

- Robust bayonet style lock
- Superior strain relief
- Meets NEMA 6P and IP 67 rating
- Easy plug termination
- Simple error-free mating

PART NUMBER
E84700PLUG
E84700RECP
E84700CAP