

Connecting VHF to GPS: Wiring Guide			Garmin	Garmin	Raytheon	Raytheon	Furuno	Furuno	Standard Horizon	Northstar	Simrad
VHF Make	NMEA Signal	VHF Wire	Fixed GPS Wire	Portable GPS Wire	520/560 GPS Wire	RL Series Wire	GP 30/36 Wire	GP 1650/1850 Wire	GPS Wire	GPS Wire	GPS Wire
Standard Horizon	IN+	blue	blue	brown	blue	white	white	white	brown	yellow	white
	IN-	green	black	black	brown	brown	blue	black	green	black	brown
	OUT+	brown							blue		
	OUT-	gray									
Uniden 525/625	IN+	white	blue	brown	blue	white	white	white	brown	yellow	white
	IN-	yellow	black	black	brown	brown	blue	black	green	black	brown
Uniden Solara DSC	IN+	green	blue	brown	blue	white	white	white	brown	yellow	white
	GND	brown	black	black	brown	brown	blue	black	green	black	brown
Uniden Polaris & Oceanus	IN+	green	blue	brown	blue	white	white	white	brown	yellow	white
	GND	bare	black	black	brown	brown	blue	black	green	black	brown
Raymarine 54 54E	IN+	yellow	blue	brown	blue	white	white	white	brown	yellow	white
	IN-	green	black	black	brown	brown	blue	black	green	black	brown
Raymarine 230 230E	IN+	white	blue	brown	blue	white	white	white	brown	yellow	white
	IN-	black	black	black	brown	brown	blue	black	green	black	brown
Raymarine 215 215E 53	IN+	blue	blue	brown	blue	white	white	white	brown	yellow	white
	IN-	purple	black	black	brown	brown	blue	black	green	black	brown
Raymarine 240 240E	IN+	white	blue	brown	blue	white	white	white	brown	yellow	white
	IN-	blue	black	black	brown	brown	blue	black	green	black	brown
ICOM 422 coax red	in +	CTR cond									
	in -	shield									
icom 412 coax red	in +	CTR cond									
	in -	shield									
icom 304	in +	yellow									
	in -	green									
icom 504 red coax	in +	CTR cond									
	in -	shield									

10 SC-107 or rs-232 only 422 class D

RS-232 Types SC-107 and Class D

NMEA 0183 connection rules:

- Positive In (In +) connects to Positive Out (Out +)
- Negative In (In -) connects to Negative Out (Out - or Gnd)
- Positive Out (Out+) connects to Positive In (In +)
- Negative Out (Out-) connects to Negative In (In - or Gnd)

Pin	Signal	Color	Terminal	Wiring	Notes
1	+	Red	1	+	
2	-	Black	2	-	
3	+	Red	3	+	
4	-	Black	4	-	
5	+	Red	5	+	
6	-	Black	6	-	
7	+	Red	7	+	
8	-	Black	8	-	
9	+	Red	9	+	
10	-	Black	10	-	
11	+	Red	11	+	
12	-	Black	12	-	
13	+	Red	13	+	
14	-	Black	14	-	
15	+	Red	15	+	
16	-	Black	16	-	
17	+	Red	17	+	
18	-	Black	18	-	
19	+	Red	19	+	
20	-	Black	20	-	
21	+	Red	21	+	
22	-	Black	22	-	
23	+	Red	23	+	
24	-	Black	24	-	
25	+	Red	25	+	
26	-	Black	26	-	
27	+	Red	27	+	
28	-	Black	28	-	
29	+	Red	29	+	
30	-	Black	30	-	
31	+	Red	31	+	
32	-	Black	32	-	
33	+	Red	33	+	
34	-	Black	34	-	
35	+	Red	35	+	
36	-	Black	36	-	
37	+	Red	37	+	
38	-	Black	38	-	
39	+	Red	39	+	
40	-	Black	40	-	
41	+	Red	41	+	
42	-	Black	42	-	
43	+	Red	43	+	
44	-	Black	44	-	
45	+	Red	45	+	
46	-	Black	46	-	
47	+	Red	47	+	
48	-	Black	48	-	
49	+	Red	49	+	
50	-	Black	50	-	
51	+	Red	51	+	
52	-	Black	52	-	
53	+	Red	53	+	
54	-	Black	54	-	
55	+	Red	55	+	
56	-	Black	56	-	
57	+	Red	57	+	
58	-	Black	58	-	
59	+	Red	59	+	
60	-	Black	60	-	
61	+	Red	61	+	
62	-	Black	62	-	
63	+	Red	63	+	
64	-	Black	64	-	
65	+	Red	65	+	
66	-	Black	66	-	
67	+	Red	67	+	
68	-	Black	68	-	
69	+	Red	69	+	
70	-	Black	70	-	
71	+	Red	71	+	
72	-	Black	72	-	
73	+	Red	73	+	
74	-	Black	74	-	
75	+	Red	75	+	
76	-	Black	76	-	
77	+	Red	77	+	
78	-	Black	78	-	
79	+	Red	79	+	
80	-	Black	80	-	
81	+	Red	81	+	
82	-	Black	82	-	
83	+	Red	83	+	
84	-	Black	84	-	
85	+	Red	85	+	
86	-	Black	86	-	
87	+	Red	87	+	
88	-	Black	88	-	
89	+	Red	89	+	
90	-	Black	90	-	
91	+	Red	91	+	
92	-	Black	92	-	
93	+	Red	93	+	
94	-	Black	94	-	
95	+	Red	95	+	
96	-	Black	96	-	
97	+	Red	97	+	
98	-	Black	98	-	
99	+	Red	99	+	
100	-	Black	100	-	