

Whirlwind

W2 61 Pin Connector System

Technical Data

Materials and Finishes:

- Contacts: Copper alloy, hard gold plate over nickel under plate per MIL-G-45204
- Insulators: Low temperature elastomer
- 'O' Rings and Seals: Low temperature elastomer
- Shells and Dust Caps: All aluminum alloy, black anodized coating
Chain-Stainless steel

Mechanical Data:

- Operating Temperature: -40°C to +105°C
-40°F to +221°F

- Contacts: #20 AWG Solder type (7.5 Amp rating)
- Contact Retention: 15 lbs. minimum
- Connector Engagement and Separation Forces: 44 in. lbs. maximum
- Polarization: 5 Keyways

Electrical Data:

- Operating Voltage: 850 VDC or 600 VAC rms maximum
- Insulation Resistance: 5000 megohm minimum
- Contact Resistance: 6 milliohms maximum

The Whirlwind W2 is a 61 contact, quick disconnect connector system based on the proven MIL-26482 multipin standard. The pin and socket modules are shell size 24 with a standard 61 contact insert arrangement. The solder style contacts are permanently mounted in resilient rubber insulators to provide years of trouble free service.

Whirlwind manufactures a robust aluminum backshell to protect the soldered connections and provides a waterproof mesh grip for an absolutely reliable strain relief on the cable. The W2 system utilizes a 61 pin male insert in a plug shell, with a quarter-turn locking ring and a 61 socket female insert in a receptacle shell with studs, that mates with the male plug shell.

Whirlwind provides the W2 in four standard configurations, male and female inline and male and female chassis mount. The W2 can be used to interconnect up to 20 balanced, shielded signal lines.

W2CF

Female Panel Connector / Cap, Wiring Kit Complete		
AB60FP	61 Pin Female Panel Mount Body with Studs	1
AB60CAP	Dust Cap with Ring For Female 61 Pin	1
PT1-16BK-1.5	Drain Wire Insulator 1/16" Blk Shrink Tube 1.5"	20
PT3-16BK-1.0	Mylar / Foil Insulator 3/16" Blk Shrink Tube 1.0"	20
PT1-16BK-0.5	Solder Cup Insulator 1/16" Blk Shrink Tube 0.5"	60
W2 Pin Out	Wiring Diagram For 61 Pin	1

W2CM

Male Panel Connector / Cap, Wiring Kit Complete		
AB60MI	61 Pin Male Inline Body with Ring	1
AB60CAPWT	Dust Cap with Studs For Male 61 Pin	1
AB60MPA	Panel Mount 61 Pin Blk Flange with Set Screw	1
PT1-16BK-1.5	Drain Wire Insulator 1/16" Blk Shrink Tube 1.5"	20
PT3-16BK-1.0	Mylar / Foil Insulator 3/16" Blk Shrink Tube 1.0"	20
PT1-16BK-0.5	Solder Cup Insulator 1/16" Blk Shrink Tube 0.5"	60
W2 Pin Out	Wiring Diagram For 61 Pin	1

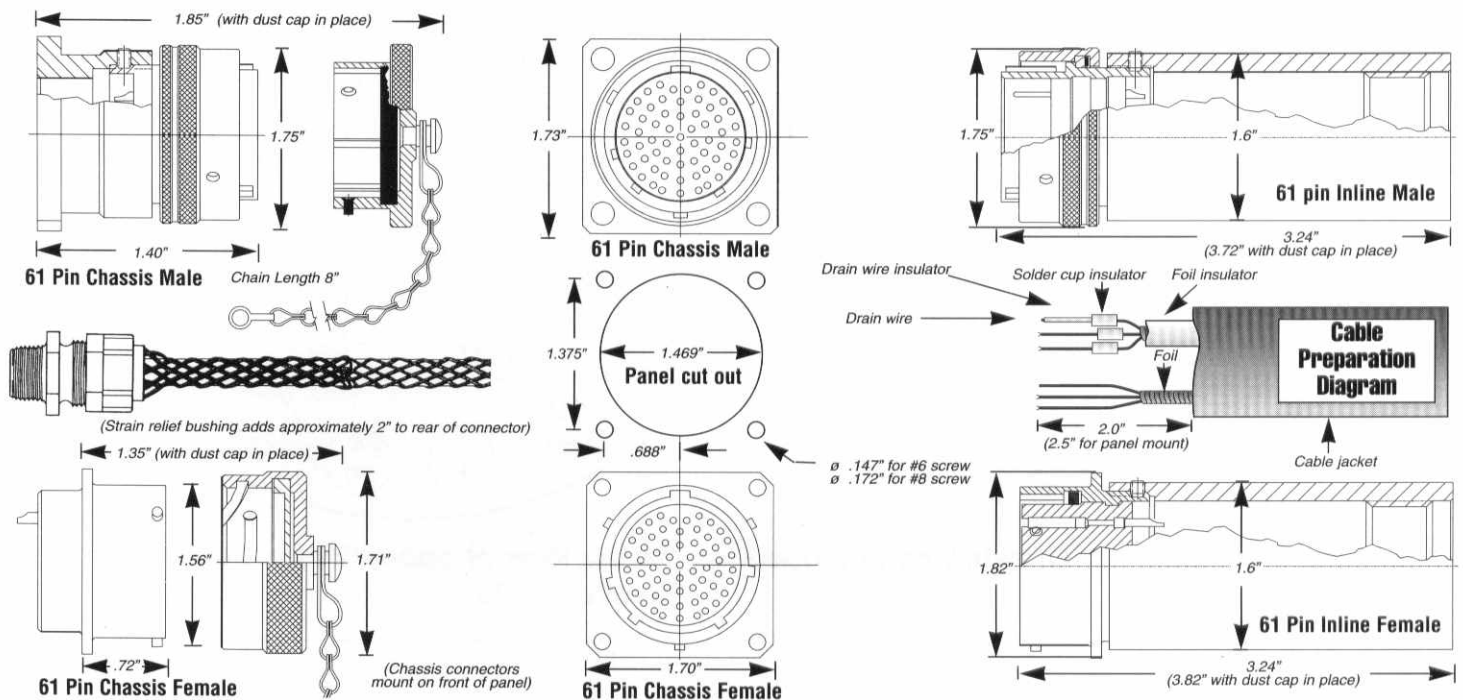
W2IF

Female Inline Connector / Cap, Wiring Kit Complete		
AB60FI	61 Pin Female Inline Body with Studs	1
AB60CAP	Dust Cap with Ring For Female 61 Pin	1
AB60H	61 Pin Inline Housing with Set Screws	1
AB60G	39-61 Inline Strain Relief Grip Range .375"-.50"	1
ABKR	16mm Split Ring For Dust Cap Chain	1
PT1-16BK-1.1	Drain Wire Insulator 1/16" Blk Shrink Tube 1.1"	20
PT3-16BK-0.5	Mylar / Foil Insulator 3/16" Blk Shrink Tube 0.5"	20
PT1-16BK-0.5	Solder Cup Insulator 1/16" Blk Shrink Tube 0.5"	60
W2 Pin Out	Wiring Diagram For 61 Pin	1

W2IM

Male Inline Connector / Cap, Wiring Kit Complete		
AB60MI	61 Pin Male Inline Body with Ring	1
AB60CAPWT	Dust Cap with Studs For Male 61 Pin	1
AB60H	61 Pin Inline Housing with Set Screws	1
AB60G	39-61 Inline Strain Relief Grip Range .375"-.50"	1
ABKR	16mm Split Ring For Dust Cap Chain	1
PT1-16BK-1.1	Drain Wire Insulator 1/16" Blk Shrink Tube 1.1"	20
PT3-16BK-0.5	Mylar / Foil Insulator 3/16" Blk Shrink Tube 0.5"	20
PT1-16BK-0.5	Solder Cup Insulator 1/16" Blk Shrink Tube 0.5"	60
W2 Pin Out	Wiring Diagram For 61 Pin	1

Inline kits available w/ DCG75-3/4 Oversize Strain Relief (grip range .75" - .875").
W2IF-OS Female Kit same as W2IF Kit (above) except with one DCG75-3/4.
W2IM-OS Male Kit same as W2IM Kit (above) except with one DCG75-3/4.



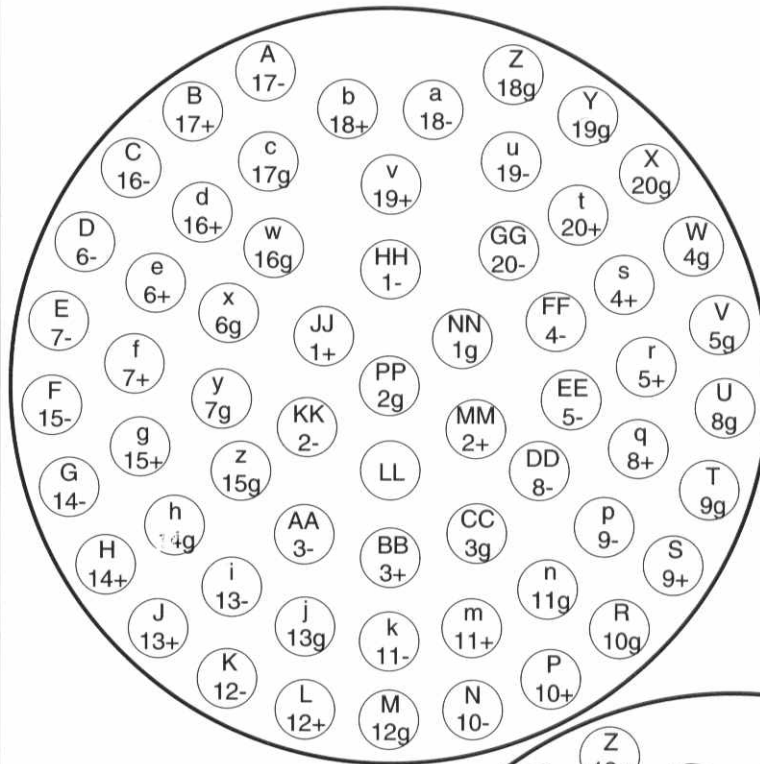
61 Pin

Whirlwind W2 61 Pin Connector Male And Female Wiring Code

56 Pair Color Code

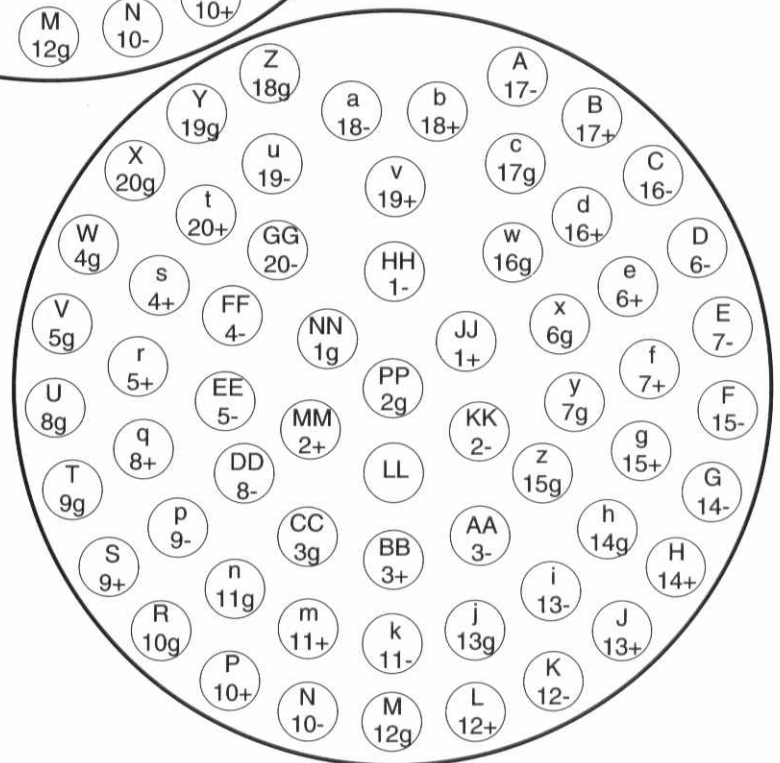
XLR Pair #	Pin 3 (-)	Pin 2 (+)	Pin 1 (g)
1	Black	Red	
2	Black	White	
3	Black	Green	
4	Black	Blue	
5	Black	Yellow	
6	Black	Brown	
7	Black	Orange	
8	Red	White	
9	Red	Green	
10	Red	Blue	
11	Red	Yellow	
12	Red	Brown	
13	Red	Orange	
14	Green	White	
15	Green	Blue	
16	Green	Yellow	
17	Green	Brown	
18	Green	Orange	
19	White	Blue	
20	White	Yellow	
21	White	Brown	
22	White	Orange	
23	Blue	Yellow	
24	Blue	Brown	
25	Blue	Orange	
26	Brown	Yellow	
27	Brown	Orange	
28	Orange	Yellow	
29	Purple	Orange	
30	Purple	Red	
31	Purple	White	
32	Purple	Green	
33	Purple	Blue	
34	Purple	Yellow	
35	Purple	Brown	
36	Purple	Black	
37	Gray	White	
38	Gray	Brown	
39	Gray	Red	
40	Gray	Green	
41	Gray	Orange	
42	Gray	Yellow	
43	Gray	Black	
44	Gray	Blue	
45	Pink	White	
46	Pink	Green	
47	Pink	Blue	
48	Pink	Yellow	
49	Pink	Brown	
50	Pink	Orange	
51	Pink	Purple	
52	Pink	Gray	
53	Beige	White	
54	Beige	Green	
55	Beige	Blue	
56	Beige	Yellow	

1. Use these drawings for wiring 61 contact connectors both Male (Pins) and Female (Sockets).
2. The standard Whirlwind layout begins at the stage box. Chassis mount Female connectors with studs are the first choice for panel or box mounting. Inline Males with locking rings are the first choice for cable connectors.
3. Systems using connectors of this series require only that a Male connector with ring plugs into a Female connector with studs.



**Solder Side of
MALE Connector
(Pins)**

**Solder Side of
FEMALE
Connector
(Sockets)**



**Drawing can be used for mating face of opposite sex connector
Effective 11/93**



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