



DEUTSCH'S DRB SERIES

High Density Bulkhead Connectors



DRB 102 Way

Perfect for on and off highway applications, marine, industrial, and agriculture markets. Specify the **DRB Series** in your next high density application.

Deutsch's DRB Series, available in 48, 60, and 102 way arrangements, offers a unique fit for your high density connector applications.

In addition to rugged performance standards, the DRB Series incorporates:

- Multi-size cavity arrangements
- Simple assembly procedures
- Existing tooling requirements



DRB 48 and 60 way mated pairs in DRBF-3AB flange.



DRB 102 way mated pair in DRBM-2A flange.

General Specifications

Current Rating at 125° C Maximum (Continuous)

Size 20	7.5 Amps
Size 16	13 Amps
Size 12	25 Amps
Size 8	60 Amps
Size 4	100 Amps

Submersion

Properly wired and mated connection will withstand immersion under three feet of water without loss of electronic qualities or leakage.

Temperature

Operative at temperatures from -55° C to +125° C. Continuous at rated current.

Thermal Shock

No cracking, chipping or leaking after 20 test cycles from -55° C to +125° C.

Durability

No electrical or mechanical defects after 100 cycles of engagement and disengagement.

Physical Shock

No unlocking, unmating or other unsatisfactory results during or after 50 G's in each of three mutually perpendicular planes. No electrical discontinuities longer than 1 microsecond. MIL-STD 202 Method 213, Condition "C".

Vibration

No unlocking or unmating and exhibits no mechanical or physical damage after sinusoidal vibration levels of 20 G's at 10 to 2000 Hz in each of the three mutually perpendicular planes. No electrical discontinuities longer than 1 millisecond.

Dielectric Withstanding Voltage

Current Leakage < 2 milliamps at 1500 VAC

DRB Series Wire Sealing Ranges

Contact Size	Seal Type	Wire Insulation O.D.		Wire Gauge Range	
		Inches	mm	AWG	mm ²
20	Reduced "E"	.040-.095	1.016-2.413	16-20	1.0-0.5
16	Reduced "E"	.053-.120	1.346-3.048	14-20	2.0-0.5
12	Reduced "E"	.097-.158	2.464-4.013	10-14	5.0-2.0
8	Reduced "E"	.135-.220	3.429-5.588	8-10	8.0-5.0
4	Reduced "E"	.261-.292	6.629-7.417	6	13.0

For reference only; consult Applications Engineer for full specifications.

DRB Series – Flange Options

Flange	Part Number	Accepts Connectors	Keying Options	Description
	DRBF-2A	(1) DRB 48 or 60 Way	A, B, C	Single mounting flange for one 48 or 60 way DRB plug and receptacle mated pair.
	DRBF-3AB	(2) DRB 48 or 60 Ways	A and B	Double mounting flange for any combination of two 48 or 60 way DRB plug and receptacle mated pairs.
	DRBF-1A	(1) DRB 102 Way	A	Single mounting flange for the 102 way DRB plug and receptacle mated pair.
	DRBM-2A	(1) DRB 102 Way w/ (2) 125 Amp Mounting Posts	A	Single mounting flange for the 102 way DRB plug and receptacle mated pair. Includes two 125 amp mounting posts.

Notes: 1). Consult LADD for alternate Keying options.

DRB Series – 48 Way Assembly

Cavity Arrangement	24	# 20 Cavities			
	12	# 16 Cavities			
	12	# 12 Cavities			
	48	Total Cavities			
	Plug	Plug Wedgelock	Flange	Receptacle Wedgelock	Receptacle
	DRB16-48SAE-L018	WB-48SA	DRBF-2A	WB-48PA	DRB12-48PAE-L018
	DRB16-48SBE-L018	WB-48SB	DRBF-2B	WB-48PB	DRB12-48PBE-L018

Notes: 1). Consult LADD for alternate keying options. 2). L018 refers to addition of wire router cap.

DRB Series – 60 Way Assembly

Cavity Arrangement	48	# 20 Cavities			
	12	# 16 Cavities			
	60	Total Cavities			
		Plug		Plug Wedgelock	Flange
	DRB16-60SAE-L018	WB-60SA	DRBF-2A	WB-60PA	DRB12-60PAE-L018
	DRB16-60SBE-L018	WB-60SB	DRBF-2B	WB-60PB	DRB12-60PBE-L018
	DRB16-60SCE-L018	WB-60SC	DRBF-2C	WB-60PC	DRB12-60PCE-L018

Notes: 1). Consult LADD for alternate keying and non-environmental options. 2). L018 refers to addition of wire router cap.

DRB Series – 102 Way Assembly

Cavity Arrangement	80	# 16 Cavities			
	16	# 12 Cavities			
	4	# 8 Cavities			
	2	# 4 Cavities			
	102	Total Cavities			
	Plug	Plug Wedgelock	Flange	Receptacle Wedgelock	Receptacle
	DRB16-102SAE-L018	WB-51SAL WB-51SAR	DRBF-1A	WB-51PAL WB-51PAR	DRB12-102PAE-L018 (environmentally sealed) DRB12-102PANE (non-environmentally sealed)

Notes: 1). Consult LADD for alternate keying and non-environmental options. 2). L018 refers to addition of wire router cap. 3). Complete assembly requires all four wedgelocks.

DRB Series – Contact Insertion and Removal

Contact Insertion



1. Grasp crimped contact approximately one inch behind the contact barrel.



2. Hold connector with rear grommet/wire router cap facing you.



3. Push contact straight into contact cavity until a click is heard/felt. A slight tug will ensure the contact is inserted correctly.



4. Once all contacts are in place, insert wedgelock by lining up the keyway. The wedgelock will press into place.

Contact Removal



1. Remove wedgelock using a screwdriver. Pull wedgelock straight out.



2. To remove contacts, gently pull wire backwards, while at the same time releasing the locking finger by moving it away from the contact with a screwdriver.