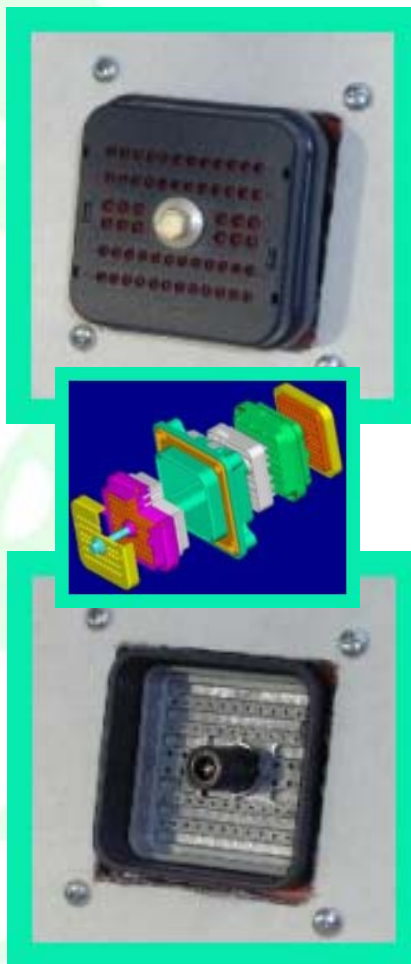


DEUTSCH

Industrial Products Division

Presents a high density Feed-thru connector for bulkheads



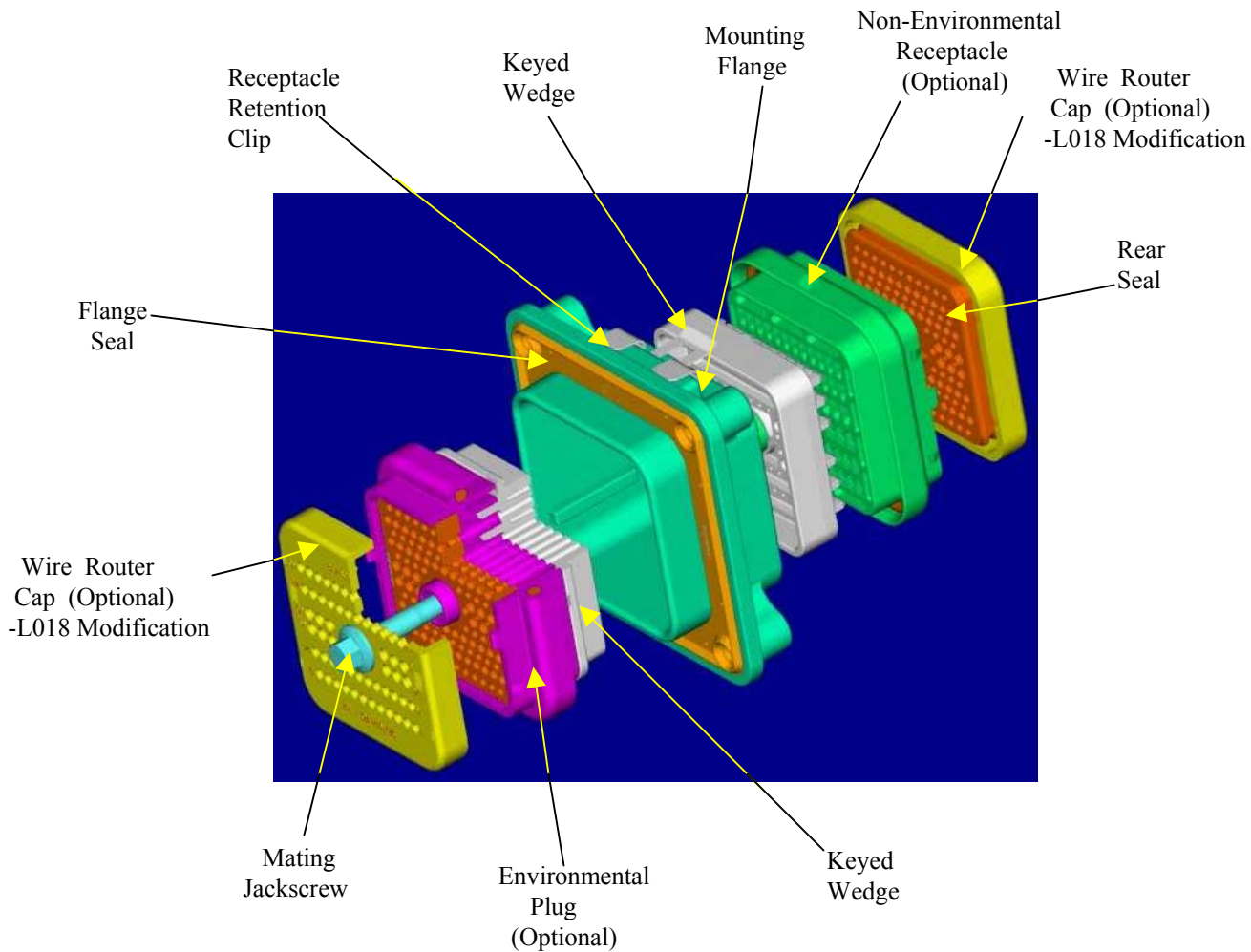
60-PIN BULKHEAD CONNECTOR

DRB-60 Product Information

DEUTSCH
CONNECTORS
A Step Ahead 

© 2001 Deutsch ECD

DRB Components



Features and Benefits

Applications

Originally created to fill an international market need, a high density bulkhead application. The DRB Series is a natural expansion to the common contact wire termination approach synonymous with Deutsch Industrial Products Division.

Recently, the DRB completed three years of concept and design testing development, computer refinements, solid modeling, customer response, mold flow analysis and production tooling. A sixty pin layout is available with more layouts planned.

<http://www.deutschipd.com>



The DRB flange and receptacle are mountable and matable by **a single installer** from **one side** of the bulkhead.

The insert arrangement uses multiple sizes of contacts.

Available in environmental and non-environmental versions.

Secondary locks for contacts.

Plug and receptacle mate with a single sturdy jackscrew.

Requires only a small screw driver and hex wrench to mount and mate.

Customer choice of solid or stamped and formed contacts, each terminating with existing tooling.



Industrial Products Division

3850 Industrial Avenue, Hemet, CA 92545

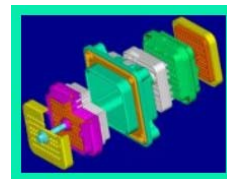
Phone: 909/765-2250

FAX: 909/765-2255

<http://www.deutschipd.com>



Product Information



MATERIAL SPECIFICATIONS

Plug

Shell: Thermoplastic
Seals: Silicone Rubber
Jackscrew: Stainless Steel

Receptacle

Shell: Thermoplastic
Seals: Silicone Rubber
Threaded Insert: Brass

Flange

Body: Thermoplastic
Seal: Silicone Rubber
Clip: Steel

Contact

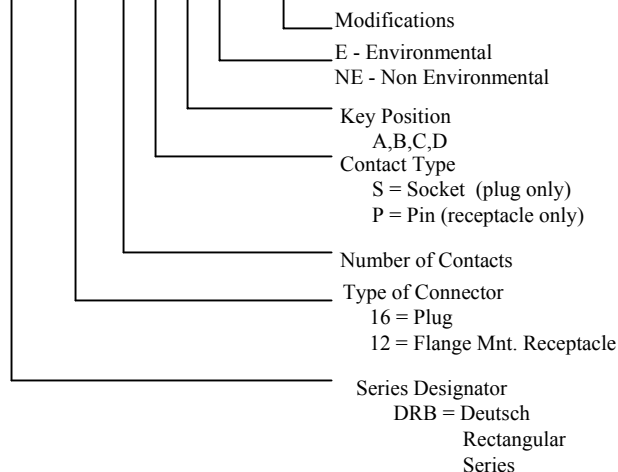
Pin: Copper Alloy
Socket: Copper alloy
Finish: Standard Nickel
Optional Gold

Wedges and Sealing Plugs

Thermoplastic

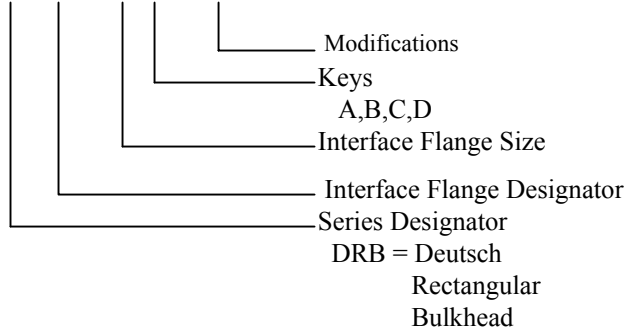
PART NUMBERING SYSTEM CONNECTOR

DRB 16 - 60 S A E - ****

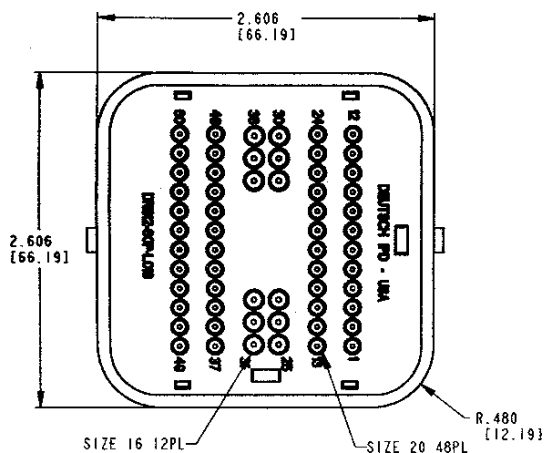


MOUNTING FLANGE

DRB F - 2 A - ****



DRB LAYOUT



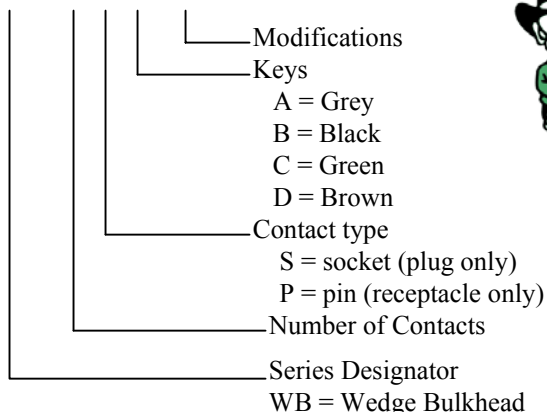
Rear View of 60 pin layout receptacle with optional wire router cap

drb60.pdf-110501

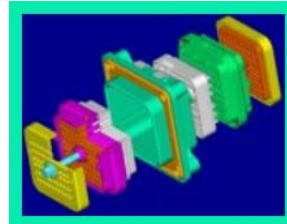
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WEDGES

WB - 60 S A - ****



Performance Specifications



Insulation Resistance

1000 megohms minimum at 25° C

Contact Resistance

Solid	Wire Gauge	Test Current	Resistance
16	16 AWG	13 A	60mV *
20	20 AWG	7.5 A	60mV *

Stamped
& Formed

16	16 AWG	13 A	100mV *
20	20 AWG	7.5 A	100mV *

* = Less drop through wire

Contact Retention

Contacts withstand a minimum load of 25 lbs. for size 16 and 20 lbs. for size 20

Current Rating @125° C Maximum (Continuous)

Size 16 13 Amps

Size 20 7.5 Amps

Dielectric Withstanding Voltage

Current Leakage < 2 milliamps @ 1500 VAC

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 50g's in each of three mutually perpendicular planes. No electrical discontinuities longer than 1 microsecond. MIL-STD 202 Method 213, Condition "C"

Silicone Seals

Front and rear silicone seals are devoid of all organic matter

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 @ rated current

Thermal Shock

No cracking, chipping or leaking after 5 test cycles from -55° C to +125° 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

Wire Sealing Range

# of Contacts	Seal type	Contact	Wire Insulation O.D.		Wire Gauge Range ^t	
			Inchs	mm	AWG	mm ²
12	Reduced "E"	16	.053 - .120	1.35 - 3.05	16, 18 & 20	2.0 - 0.5
48	Reduced "E"	20	.040 - .095	1.02 - 2.41	16 & 20	0.5 - 0.2

^t - for reference only, consult factory

