

# DRC Series



## Contents

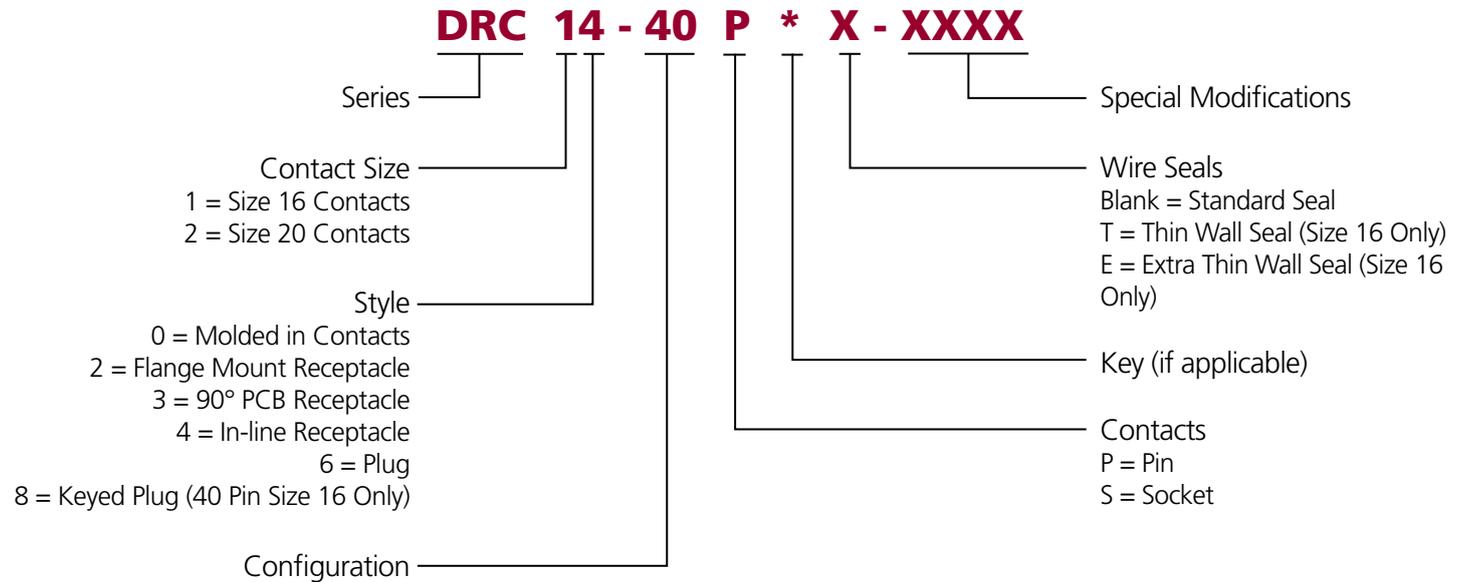
DRC Series Overview	38
Part Numbering System	38
Connector Styles	38
Dimensions	39
Mating	39
Configurations	40
Accessories	41-42

## DRC Series Overview

The environmentally sealed DRC Series is a rectangular connector series that offers insert arrangements of 24, 40, 50, 60, 64, 70, and 76 cavities and accepts size 12, 16, and 20 contacts. Several mounting options are available including in-line, flange mount, and PCB mount.

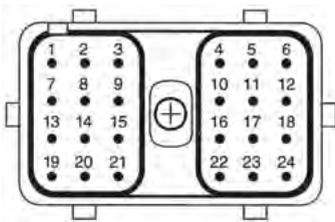


### Part Numbering System

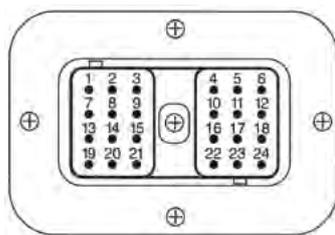


### Connector Styles

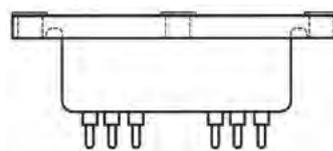
In-line Receptacle



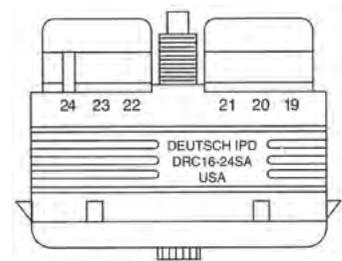
Flange Mount Receptacle



PCB Receptacle



Standard Plug



## ■ Dimensions

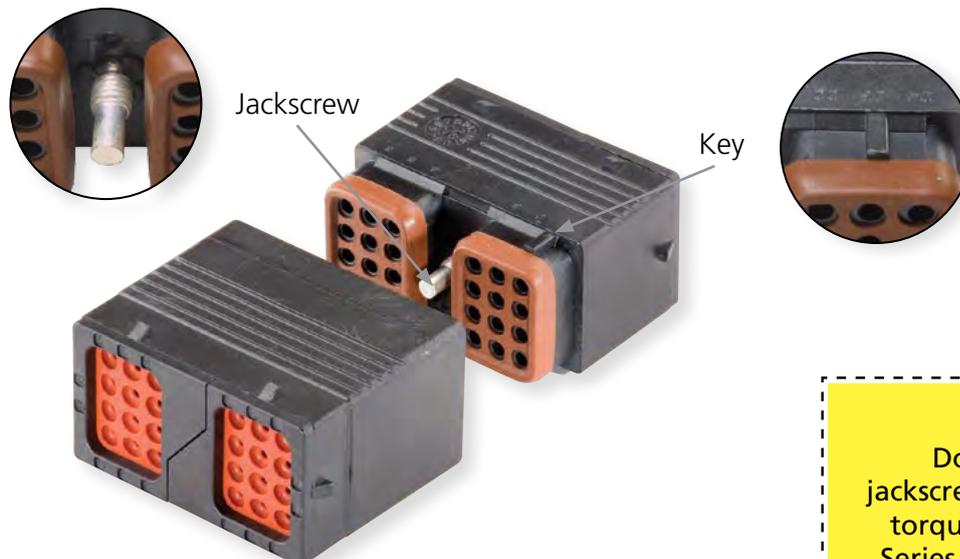


Cavity	DRC Plug			DRC Receptacle		
	Overall Length A	Overall Height B	Overall Width C	Overall Length D	Overall Height E	Overall Width F
24 (sz. 20)	1.435 (36.45)	1.244 (31.60)	2.004 (50.90)	1.785 (45.34)	1.500 (38.10)	3.104 (78.84)
24 (sz. 16)	1.600 (40.64)	1.148 (29.16)	2.100 (53.34)	1.742 (44.25)	1.202 (30.53)	2.154 (54.71)
38	1.435 (36.45)	1.274 (32.36)	2.700 (68.58)	--	--	--
40 (sz. 20)	1.380 (35.05)	1.244 (31.60)	2.700 (68.58)	1.785 (45.34)	1.500 (38.10)	3.800 (96.52)
40 (sz. 16)	1.597 (40.56)	1.202 (30.53)	2.868 (72.85)	1.699 (43.15)	1.202 (30.53)	2.908 (73.86)
50	1.435 (36.45)	1.408 (35.76)	2.700 (68.58)	--	1.987 (50.47)	3.094 (78.59)
60	1.435 (36.45)	1.448 (36.78)	2.700 (68.58)	--	2.161 (54.89)	3.094 (78.59)
64	--	--	--	1.785 (45.34)	1.500 (38.10)	5.866 (149.00)
70	1.643 (41.73)	1.421 (36.09)	4.094 (103.99)	1.757 (44.63)	1.421 (36.09)	4.094 (103.99)
76	--	--	--	1.115 (28.32)	1.827 (46.41)	5.686 (144.42)

Dimensions are for reference only.

## ■ Mating Criteria

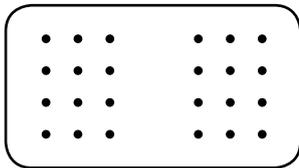
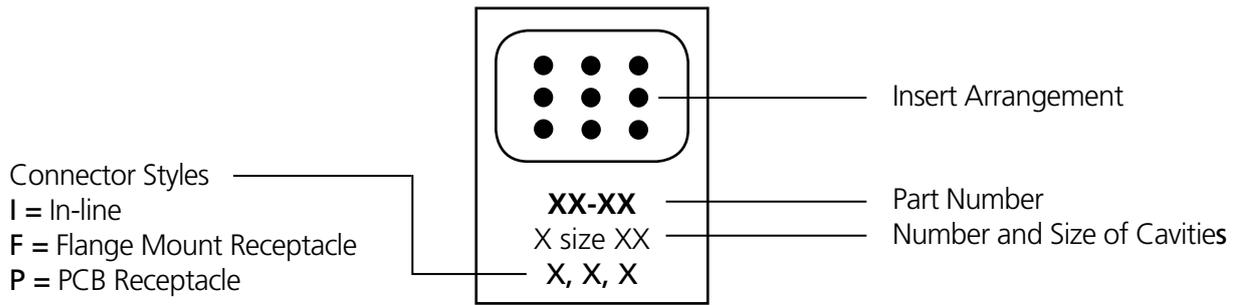
The DEUTSCH DRC Series plugs are keyed to provide positive alignment and to prevent mis-mating.



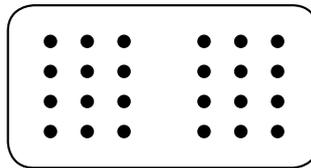
**Notice**

Do not over torque jackscrew. The recommended torque rating for the DRC Series plug jackscrew when tightening is 25-28 IN-LB (2.83-3.16 N.M.).

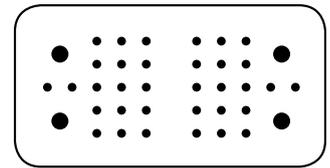
## ■ Configurations



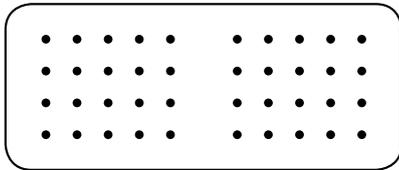
**DRC2\*-24\*\***  
 24 size 20  
 I, F, P



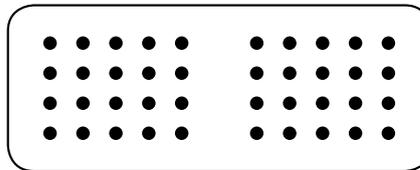
**DRC1\*-24\*\***  
 24 size 16  
 I, F, P



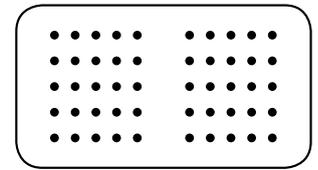
**DRC26-38\*\***  
 34 size 20, 4 size 12  
 (Plug for DRC20-76P\*\*\*\*)



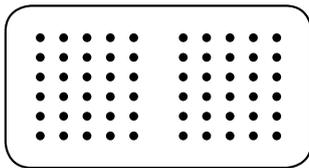
**DRC2\*-40\*\***  
 40 size 20  
 F, P



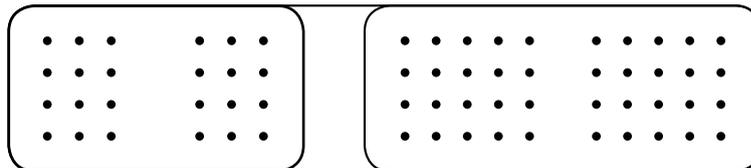
**DRC1\*-40\*\***  
 40 size 16  
 I, F, P



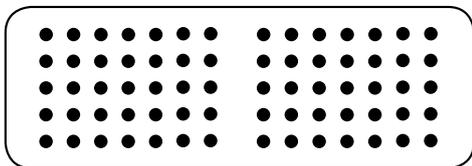
**DRC2\*-50\*\***  
 50 size 20  
 P



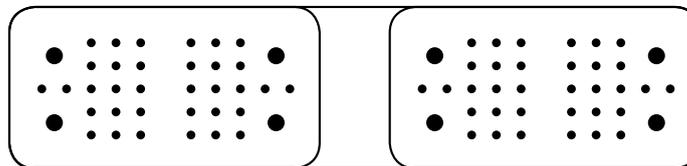
**DRC2\*-60\*\***  
 60 size 20  
 P



**DRC2\*-64\*\***  
 64 size 20  
 P



**DRC1\*-70\*\***  
 70 size 16  
 I, F, P



**DRC20-76P\*\*\*\***  
 68 size 20, 8 size 12  
 P

## Accessories

Several accessory items are available to complement the connectors including boots, gaskets, backshells, and wire routers. Accessories are designed to complete the application and meet a wide array of design requirements such as providing additional protection and offering increased aesthetics.

### ■ Backshells

The DEUTSCH DRC Series backshells are designed to snap onto the back of the connectors and accept convoluted tubing. The rigid, durable backshells offer a high level of protection, provide strain relief, and improve aesthetics.

#### Backshells and Wire Routers

Connector Cavities	Part Number	Description
38	0528-003-3805	90° backshell to the side, plug
38	0528-004-3805	90° backshell, plug
38	0528-005-3805	90° low profile backshell, plug
40	0515-015-4005	Wire router, plug
50	0528-001-5005	90° backshell, plug
60	0528-002-6005	90° backshell, plug
60	0528-007-6005	90° backshell to the side, plug
70	0515-029-7005	Straight wire router, plug
70	0515-031-7005	Straight wire router, plug or receptacle,
70	0528-006-7005	Straight backshell, plug or receptacle, requires two halves and wire router
70	0528-012-7005	90° backshell to the side, plug or receptacle, without tubing rib
70	0525-013-7005	90° backshell to the side, plug or receptacle, with tubing rib



### ■ Boots



Boots provide a professional looking finishing touch for DEUTSCH DRC Series connectors. Made of durable plastisol, these slip-on boots are not only aesthetically appealing, but also provide increased protection from dirt, paint overspray, and pressure washing. The plastisol boots are rated from -20° F to +212° F and offer a slip-on design making installation quick and easy.



#### Boot

Part Number	Description
DRC24-BT	24 way boot, size 16 contact arrangements, black
DRC26-24BT	24 way boot, size 20 contact arrangements, black
DRC40-BT	40 way boot, size 16 contact arrangements, black
DRC40-BT-90DEG	40 way boot, size 16 contact arrangements, 90° bend, black
DRC26-40BT	40 way boot, size 20 contact arrangements, black
DRC70-BT	70 way boot, size 16 contact arrangements, black

\*Distorting the boots can lessen their longevity

## ■ Gaskets

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Moisture, dirt, salt, sand, and road debris can all work their way into electrical panels through unsealed mounting flanges. Rated to operate in environments from -70°F to +225°F, these rugged high quality neoprene gaskets form a tight seal between the panel face and connector flange to help keep out destructive elements. The gaskets have a thickness of .125" and meet the UL-94-HBF, Mil-R-6130C, and FMVSS-302 flammability specifications.



Gasket P/N	Connector P/N
DRC24-GKT	DRC12-24P**
DRC40-GKT	DRC12-40P**
DRC70-GKT	DRC12-70P**