

Compact RFI High Current DC Inlet Connection

DB Series



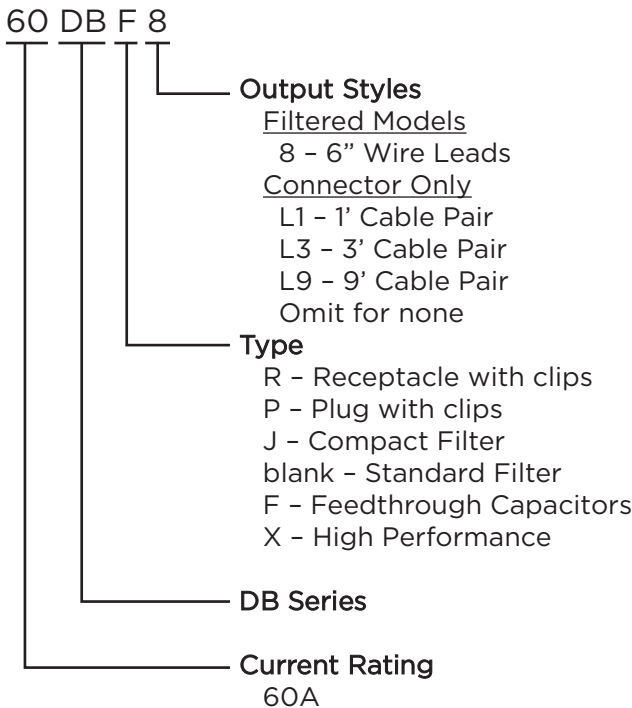
UL Recognized
CSA Certified
TUV Certified



DB Series

- Compact connector for high-current DC applications
- Reliable performance in a compact assembly
- Polarized mating scheme
- Easy customer termination of power source
- Plug and receptacle available pre-terminated in standard wire lengths
- Available filtered or unfiltered

Ordering Information



Specifications

Hipot rating (one minute):

	Filtered Models	DBR & DBP
line to ground:	2121 VDC	n/a
line to line:	1768 VDC	1600 VAC

Rated Voltage (max): 150VDC* 300 VDC

Rated Current: 60A (all versions)

Operating Ambient Temperature Range (at rated current I_r): -10°C to +55°C
In an ambient temperature (T_a) higher than +55°C the maximum operating current (I_O) is calculated as follows: I_O = I_r √(85-T_a)/30

* Certified to 120V for TUV

Available Part Numbers

Filtered Models	
60DB8	60DBJ8
60DBF8	60DBX8

Connectors Only	
60DBR	60DBP
60DBRL1	60DBPL1
60DBRL3	60DBPL3
	60DBPL9

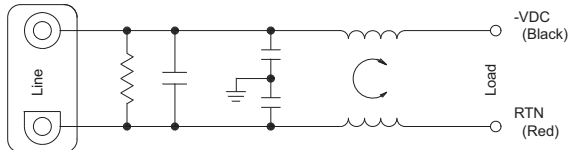
WARNING
This is not approved for hot swap or current interruption in DC applications. Doing so will result in irreparable damage to contacts

Compact RFI High Current DC Inlet Filter *(continued)*

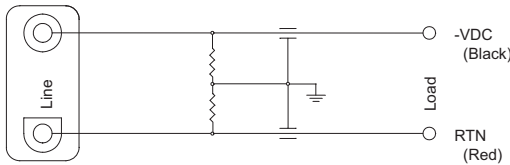
DB Series

Electrical Schematics

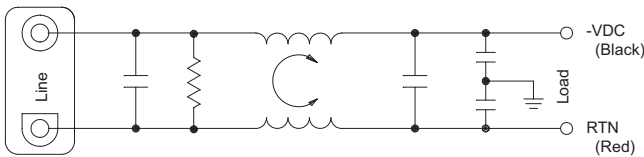
DB8 & DBJ8



DBF8



DBX8



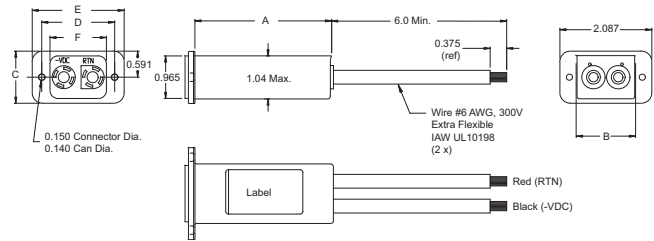
60DBPL

60DBRL

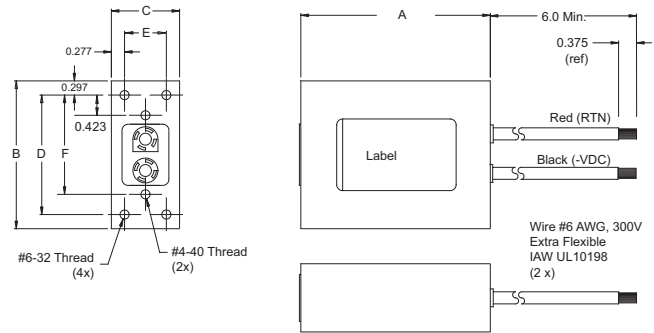
Available as connector only (shown)
or with pre-installed 6AWG 300V Extra Flexible wire

Case Styles

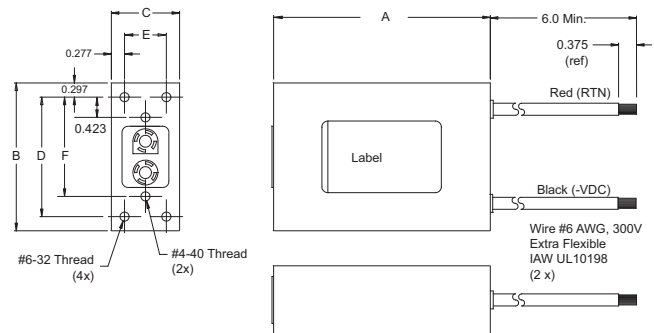
DBJ8



DB8 & DBF8



DBX8



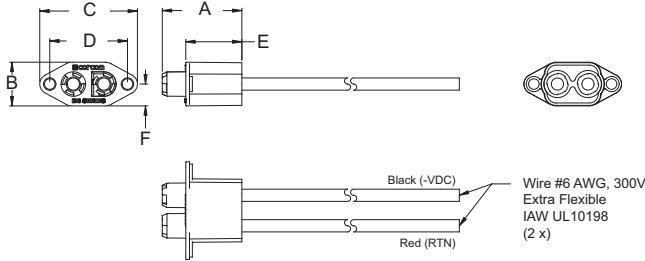
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DC Filters

Compact RFI High Current DC Inlet Filter *(continued)*

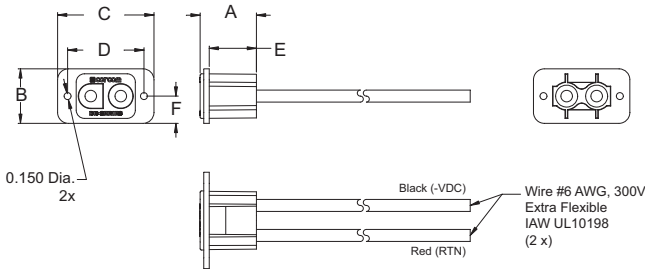
DB Series

Case Styles *(continued)*

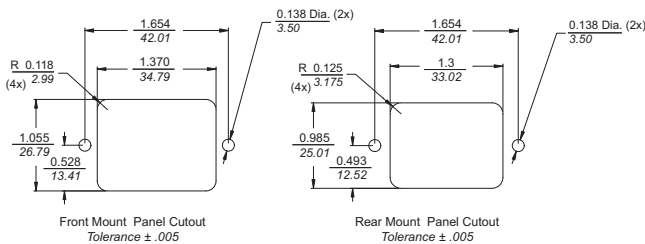
DBPL



DBRL



Recommended Panel Cutout



Minimum cable lengths:
DBRL1 / DBPL1: 12 [304.8]
DBRL3 / DBPL3: 36 [914.4]
DBPL9: 108 [2743.2]

Accessories / Tooling

Insertion/Extraction Tool:	1643922-1 *
Crimp per TE spec:	114-13206
Crimp tool:	M22520/23-01
Indenter head:	M22520/23-04
Locator:	M22520-23-11
Connector system locking kit†:	Contact Tyco Electronics

* for DBR / DBP Only

† Tool required to disengage mated connector when using locking kit

Case Dimensions

Part Number	A (max)	B (max)	C $\frac{\pm.025}{\pm.635}$	D $\frac{\pm.025}{\pm.635}$	E $\frac{\pm.025}{\pm.635}$	F $\frac{\pm.025}{\pm.635}$
60DBJ8	3.2	1.36	1.181	1.654	2.087	1.28
60DB8	4.06	3.20	1.45	2.50	0.875	2.077
60DBF8	103.12	81.28	36.83	63.50	22.23	52.76
60DBX	6.06	3.50	1.45	2.876	0.875	2.265
60DBRL	1.22*	1.181*	2.087	1.654	1.023	0.591
60DBPL	30.99*	29.99	53.009	42.011	25.984	15.011
	1.695*	0.93*	2.08	1.654	1.195	0.465
	43.05*	23.62*	52.832	42.011	30.353	11.811

* ± 0.025 [0.635]

Performance Data

Minimum Insertion Loss

Measured in closed 50 ohm system

Common Mode / Asymmetrical (Line to Ground)

Part Number	Frequency – MHz									
	0.1	0.15	0.5	1	5	1	20	30	50	100
60DBJ8	-	-	-	1	13	21	30	40	30	20

Part Number	Frequency – MHz									
	0.05	0.1	0.15	.5	1	3	5	10	20	30
60DB8	2	7	10	23	30	48	38	28	20	16
60DBF8	15	22	25	35	42	50	58	54	38	36
60DBX8	-	10	16	40	48	54	60	51	40	36

Differential Mode / Symmetrical (Line to Line)

Part Number	Frequency – MHz									
	0.1	0.15	0.5	1	5	1	20	30	50	100
60DBJ8	5	8	19	26	34	26	20	16	-	-

Part Number	Frequency – MHz									
	0.05	0.1	0.15	.5	1	3	5	10	20	30
60DB8	20	26	29	43	53	30	30	24	20	18
60DBF8	9	15	18	30	34	40	44	44	48	52
60DBX8	31	30	30	70	70	54	50	60	54	50