

### NSF Certification

This merchandiser model is manufactured to meet NSF/ANSI (National Sanitation Foundation) Standard #7 requirements for construction, materials and cleanability.



Scan the QR code on your mobile device to access additional product information or order parts.

Parts may also be ordered at:

**parts.hussmann.com**

**Call toll free: 1.855.487.7778**

We reserve the right to change or revise specifications and product design in connection with any feature of our products. Such changes do not entitle the buyer to corresponding changes, improvements, additions or replacements for equipment previously sold or shipped.

Note: Revision M: Updated refrigeration charges, page 3.

Data sheet-Excel DF5NX

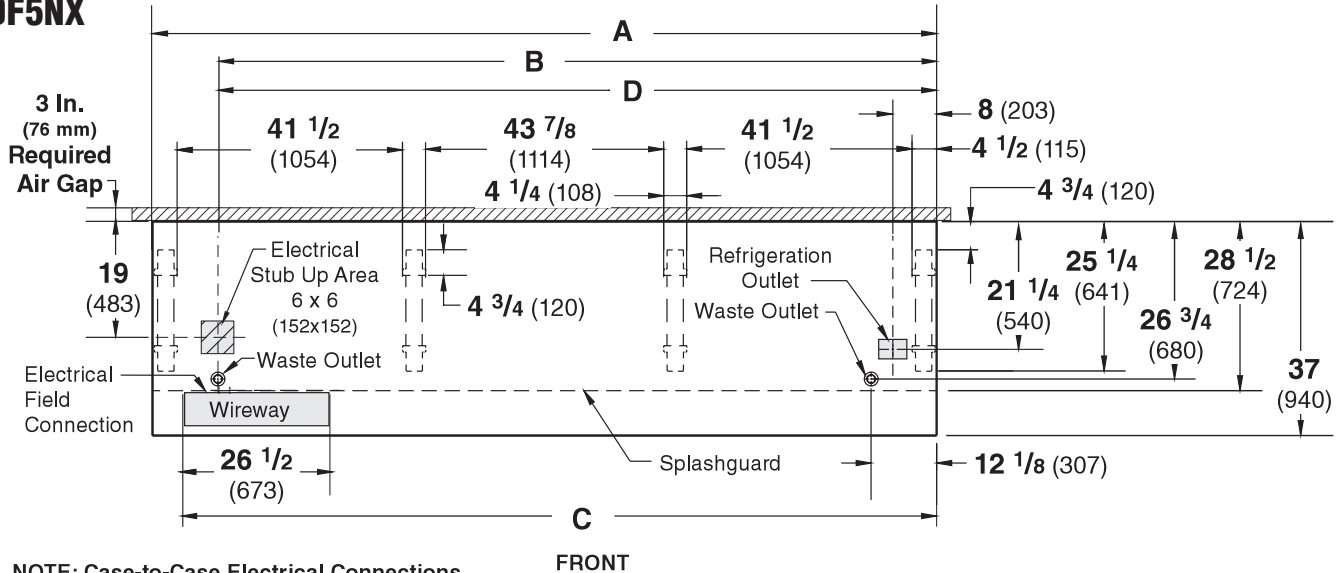
# Engineering Plan Views

PHYSICAL DATA	
Merchandiser Drip Pipe (in.)	1 1/4
Merchandiser Liquid Line (in.)	3/8
Merchandiser Suction Line (in.)	7/8

## Narrow Dairy & Delicatessen

Dimensions shown as in. and (mm).

06-2012  
DF5NX



NOTE: Case-to-Case Electrical Connections are made IN FRONT OF SPLASHGUARD.

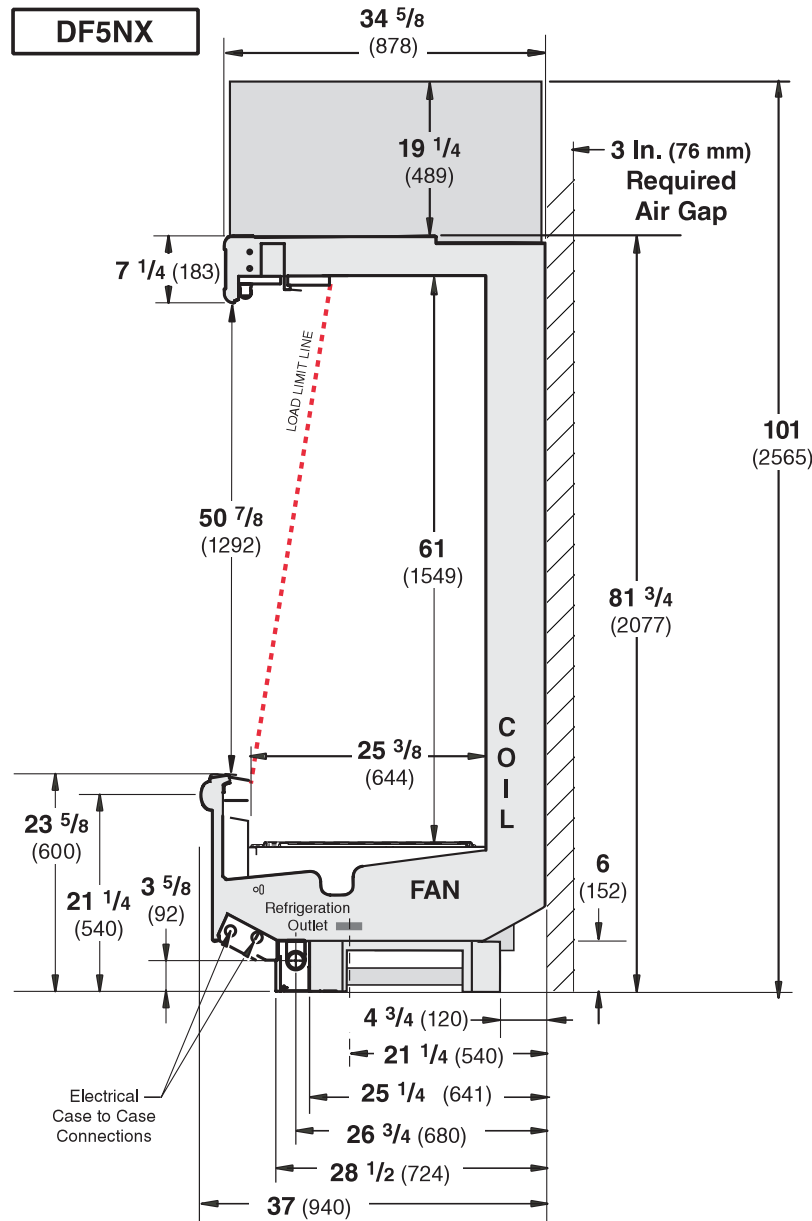
	4 ft	6 ft	8 ft	12 ft
<b>General</b>				
<b>(A)</b> Case Length ( <i>without ends, with acrylic partitions</i> )	48 3/8 (1229)	72 3/8 (1838)	96 3/8 (2448)	144 1/2 (3670)
<i>(Each end and insulated partition adds 1 1/2 in. (38 mm) to case line up.)</i>				
Maximum O/S dimension of case back to front				
<i>(includes bumper)</i>				
	37 (940)	37 (940)	37 (940)	37 (940)
Back of case to front of splashguard	28 1/2 (724)	28 1/2 (724)	28 1/2 (724)	28 1/2 (724)
Back of case to O/S edge of front leg	25 1/4 (641)	25 1/4 (641)	25 1/4 (641)	25 1/4 (641)
Distance between edges of external legs and center legs	NA	29 1/2 (750)	41 1/2 (1054)	41 1/2 (1054)
Distance between edges of center legs	NA	NA	NA	43 7/8 (1114)
Distance between front legs and splashguard	2 3/4 (70)	2 3/4 (70)	2 3/4 (70)	2 3/4 (70)
<b>Electrical Service</b> <input checked="" type="checkbox"/> ( <i>Electrical Field Wiring connection point</i> )				
<b>(B)</b> RH End of case to center of stub up area	36 1/4 (921)	60 1/4 (1530)	84 1/4 (2140)	132 3/8 (3363)
Back of case to center of stub up area	19 (483)	19 (483)	19 (483)	19 (483)
Length of electrical wireway <b>Wireway</b>	26 1/2 (673)	26 1/2 (673)	26 1/2 (673)	26 1/2 (673)
<b>(C)</b> RH End of case to LH end of wireway	42 1/8 (1070)	66 1/8 (1680)	90 1/8 (2289)	138 1/4 (3511)
<b>Waste Outlets</b> ( <i>One each end</i> ) <input checked="" type="checkbox"/>				
<b>(D)</b> RH End of case to the center of LH waste outlet	36 1/4 (921)	60 1/4 (1530)	84 1/4 (2140)	132 3/8 (3363)
RH End of case to the center of RH waste outlet	12 1/8 (307)	12 1/8 (307)	12 1/8 (307)	12 1/8 (307)
Back O/S of case to center of waste outlets	26 3/4 (680)	26 3/4 (680)	26 3/4 (680)	26 3/4 (680)
Schedule 40 PVC drip pipe	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)
<b>Refrigeration Outlet</b> <input checked="" type="checkbox"/>				
Back of case to center of refrigeration outlet	21 1/4 (540)	21 1/4 (540)	21 1/4 (540)	21 1/4 (540)
RH end of case to center of refrigeration outlet	8 (203)	8 (203)	8 (203)	8 (203)

## Multi-deck, 5 Display Levels



Husmann refrigerated merchandisers configured for sale for use in the United States meet or surpass the requirements of the DOE 2017 energy efficiency standards.

Dimensions shown as in. and (mm).



### Working Charge<sup>1</sup>

Total working charge with recommended Husmann Air-Cooled condensing unit installed:

4 ft	2 lbs, 2 oz	/	0.95 kg
6 ft	5 lbs, 5 oz	/	2.41 kg
8 ft	8 lbs, 10 oz	/	3.90 kg
12 ft	9 lbs, 13 oz	/	4.45 kg

Total working charge with recommended HMDSLMT Water-Cooled condensing unit installed:

4 ft	3 lbs, 10 oz	/	1.64 kg
6 ft	3 lbs, 8 oz	/	1.59 kg
8 ft	4 lbs, 6 oz	/	2.00 kg
12 ft	5 lbs, 13 oz	/	2.64 kg

<sup>1</sup> The total refrigerant charge includes the case and condensing unit. Both ship pre-charged with a portion of the total refrigerant.

## Excel DF5NX Dairy/Delicatessen

### REFRIGERATION DATA

Note: This data is based on store temperature and humidity that does not exceed 75°F and 55% R.H.

DF5NX <sup>§</sup>	DAIRY/DELI	
	UNLIT	LIT
Discharge Air (°F)	32	30
Evaporator (°F)	28	26
Unit Sizing (°F)	26	24

<sup>§</sup> Average evaporator temperature shown. Use dew point for high glide refrigerants for unit sizing. Care should be taken to use the dew point in PT tables for measuring and adjusting superheat. Adjust evaporator pressure as needed to maintain discharge air temperature shown.

### Btu/hr/ft — Unlit Shelves<sup>‡</sup>

DF5NX	Parallel	Conventional
UNLIT	1308	1388

<sup>‡</sup> Add 10 Btu/hr/ft per shelf row for LED fixtures.  
Add 20 Btu/hr/ft per shelf row for fluorescent lamps.

### DEFROST DATA

	DF5NX
Frequency Hrs	6
Defrost Water (lb/ft/day)	10.5
(± 15% based on case configuration and product loading).	

TEMPERATURE TERMINATED	DF5NX
Temp (°F)	48°F
Failsafe (Minutes)	45

ELECTRIC OR GAS Not Recommended

### CONVENTIONAL CONTROLS

#### Low Pressure Backup Control

#### CI/CO\*

DF5NX	DAIRY/DELI
Temp (°F)	19°F / 9°F

\*Use a Temperature Pressure Chart to determine PSIG conversions.

# Excel DF5NX

## Dairy/Delicatessen

### Electrical Data

	4 ft	6 ft	8 ft	12 ft				
Number of Fans—12W	1	—	2	3				
Number of Fans—7W	—	4	—	—				
	Amperes				Watts			
	4 ft	6 ft	8 ft	12 ft	4 ft	6 ft	8 ft	12 ft
<b>Evaporator Fan</b>								
120V 50/60Hz Standard Energy Efficient	0.30	0.38	0.60	0.90	18	28	36	54
<b>Minimum Circuit Ampacity</b>								
120V 50/60Hz Standard Energy Efficient	0.50	0.58	0.80	1.10				
<b>Maximum Over Current Protection 120V</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>				

ONLY LIGHTING CONFIGURATIONS THAT ARE COMPLIANT WITH THE U.S. DEPT. OF ENERGY (DOE) 2017 REGULATION ARE AVAILABLE FOR SALE FOR USE IN THE U.S.A.

### LED Canopy

LED	0.16	0.26	0.32	0.48	19.3	31.6	38.6	58.0
LED HO	0.22	0.33	0.44	0.66	26.5	39.5	53.0	79.4

### Rail Light —1 Row

	0.08	0.12	0.16	0.25	9.9	14.1	19.8	29.7
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### LED Shelves

1 Row of Shelves	0.08	0.12	0.16	0.25	9.9	14.1	19.8	29.7
2 Rows of Shelves	0.16	0.23	0.33	0.49	19.8	28.2	39.5	59.3
3 Rows of Shelves	0.25	0.35	0.49	0.74	29.7	42.3	59.3	89.0
4 Rows of Shelves	0.33	0.47	0.66	0.99	39.5	56.4	79.1	118.6
5 Rows of Shelves	0.41	0.59	0.82	1.24	49.4	70.5	98.9	148.3
6 Rows of Shelves	0.49	0.70	0.99	1.48	59.3	84.5	118.6	178.0
7 Rows of Shelves	0.58	0.82	1.15	1.73	69.2	98.6	138.4	207.6

### Standard Lighting (T-8 Fluorescent) 1 Row Canopy

Each Row of Canopy, Shelf or Rail Lights	0.26	0.51	0.51	0.77	30	59	59	85
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120V Lighting Circuit Total = Standard Lighting + Total Optional Lighting + Optional Shelf Lighting

120V LED Lighting Circuit Total = Canopy Lighting + Shelf Lighting

230V Lighting Circuit Total = Multiply 120V Lighting Circuit Total by 0.52

*Please note: some combinations of fluorescent lights on this case model may not be compliant with DOE 2017 and may not be available to order in the US and Canada. More lighting options are available with LED lights. The Hussmann Product Configurator will not allow lighting options that do not comply with the DOE 2017 standards.*

## Product Data

<b>Recommended Usable Cube</b> <sup>2</sup> (Cu Ft/Ft)	7.076 ft <sup>3</sup> /ft (0.66 m <sup>3</sup> /m)
<b>AHRI Total Display Area</b> <sup>1</sup> (Sq Ft/Ft)	4.240 ft <sup>2</sup> /ft (1.29 m <sup>2</sup> /m)
<b>Shelf Area</b> <sup>2</sup> (Sq Ft/Ft)	7.448 ft <sup>2</sup> /ft (2.27 m <sup>2</sup> /m)

<sup>1</sup> Computed using AHRI 1200 standard methodology: Total Display Area, ft<sup>2</sup> [m<sup>2</sup>]/Unit of Length, ft [m]

<sup>2</sup> Shelf Surface Area and Recommended Usable Cube are composed of bottom deck plus standard shelf complement, as shown in the Hussmann **Product Reference Guide**. The standard shelf complement for this model is (4) rows of 16-inch shelves.

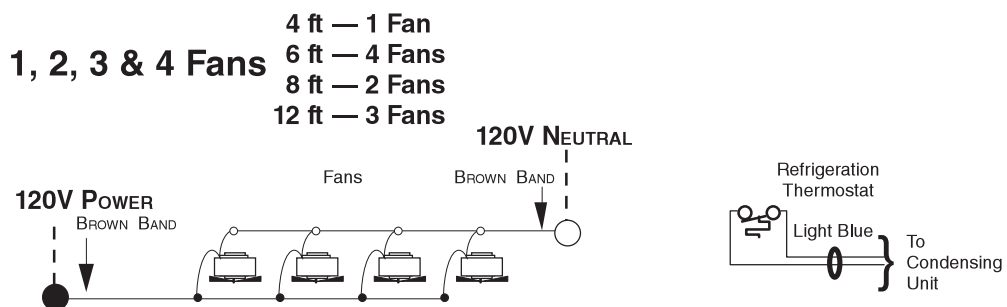
### ESTIMATED SHIPPING WEIGHT <sup>4</sup>

Case	4 ft	6 ft	8 ft	12 ft	Solid End (each)
<b>lb (kg)</b>	800 (363)	1000 (454)	1200 (544)	1400 (635)	100 (45)

<sup>4</sup> Actual weights will vary according to optional kits included.

**Excel DF5NX**  
Dairy/Delicatessen

**Fan Wiring**  
**Offtime Defrost**



**WARNING**

All components must have mechanical ground, and the merchandiser must be grounded.

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

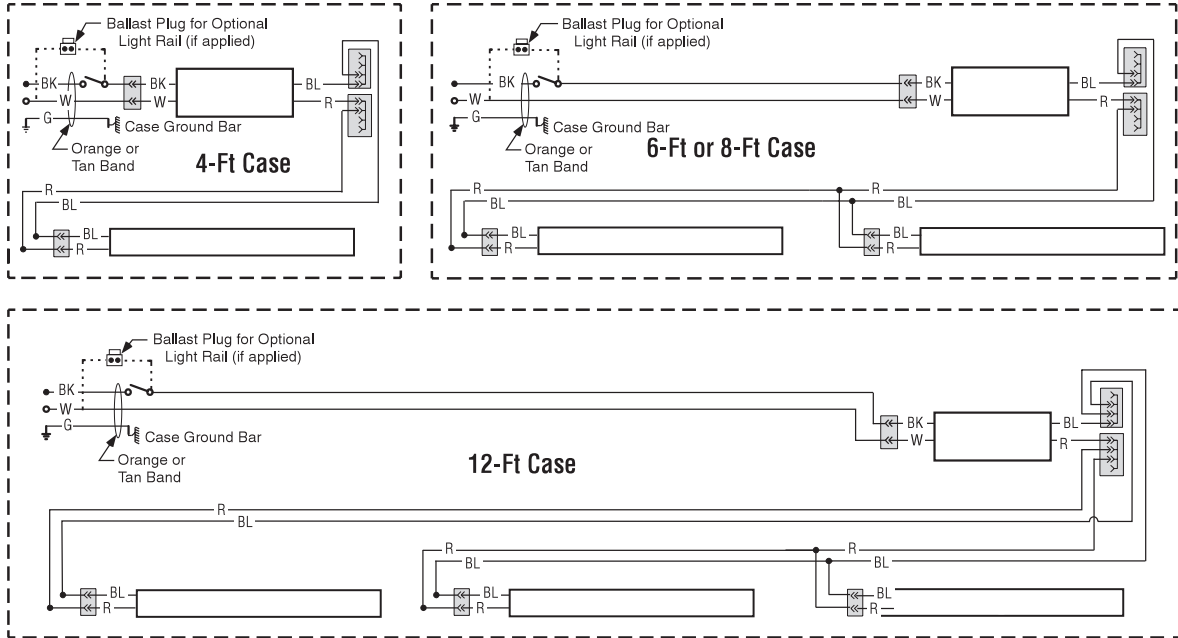
R = Red Y = Yellow G = Green BL = Blue BK = Black W = White

● = 120V POWER ○ = 120V NEUTRAL  $\frac{1}{\text{---}}$  = FIELD GROUND  $\Rightarrow$  = CASE GROUND

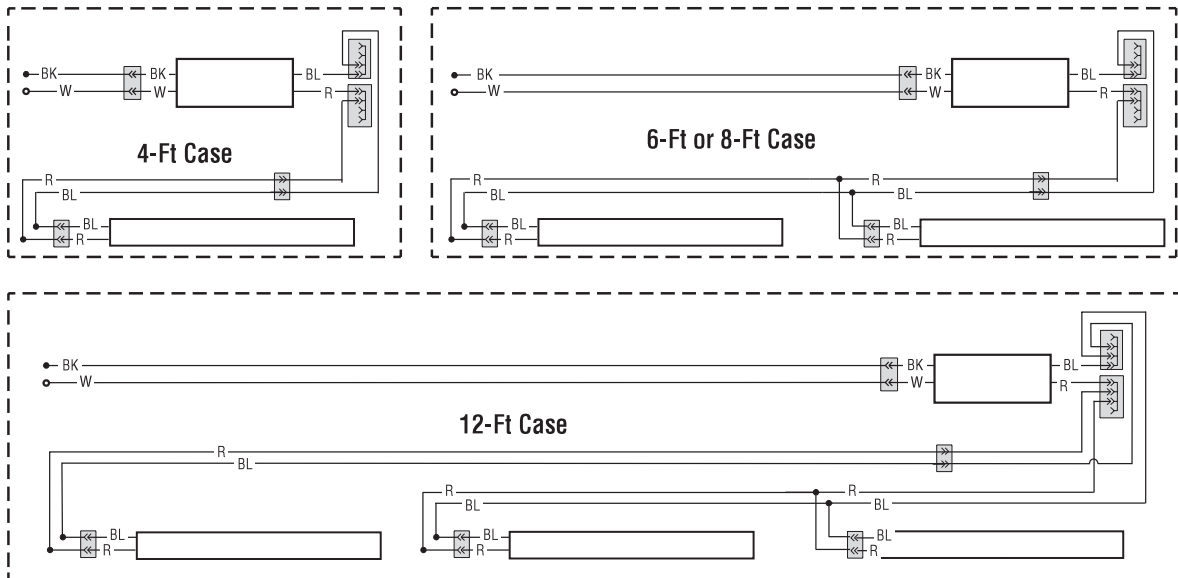
# Optional Canopy and Rail Light Circuits — LED Fixtures

**Excel DF5NX**  
Dairy/Delicatessen

## LED Canopy Lighting — 1 Row



## LED Rail Lighting — 1 Row



### WARNING

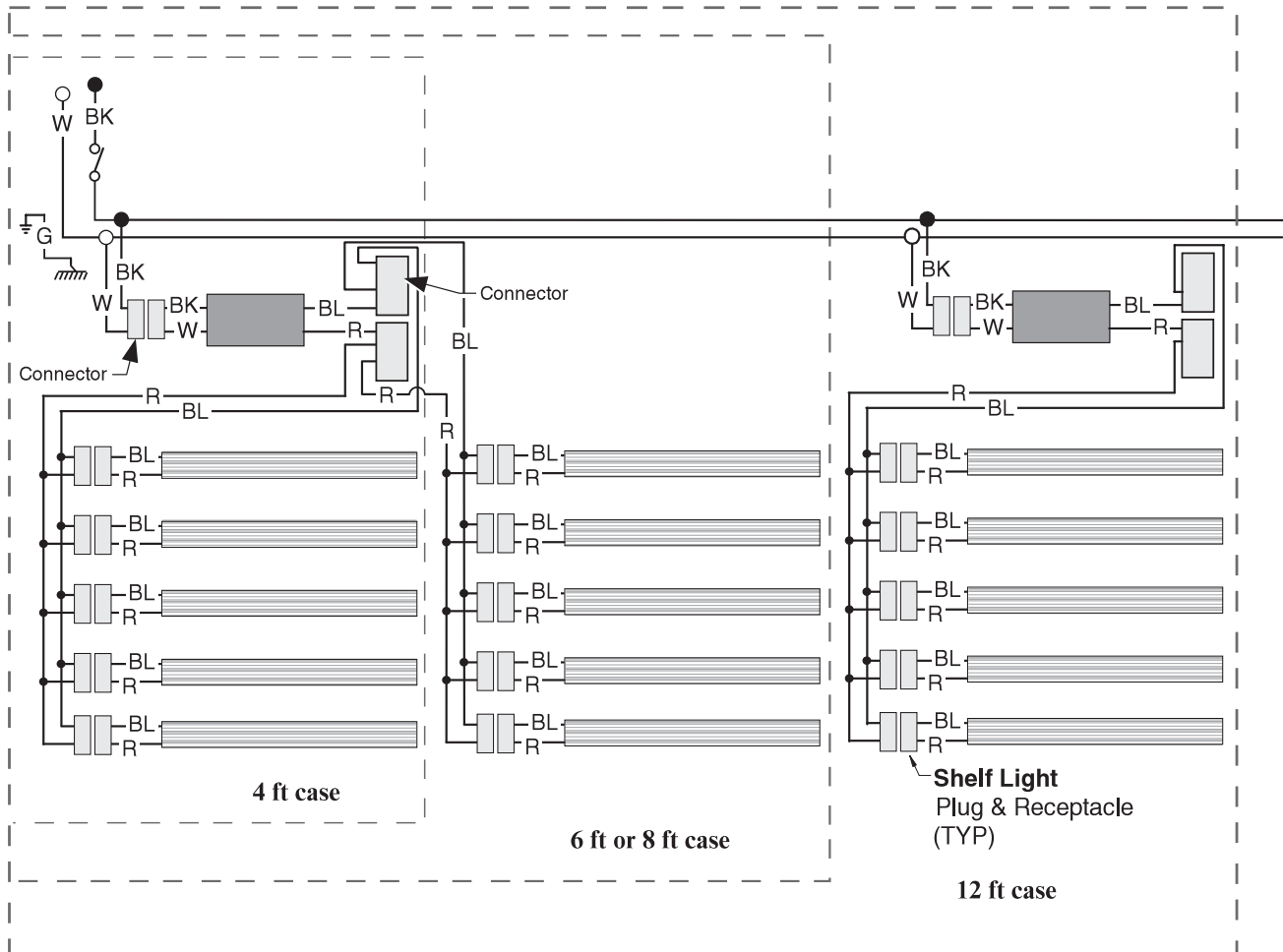
All components must have mechanical ground, and the merchandiser must be grounded.

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

R = Red Y = Yellow G = Green BL = Blue BK = Black W = White

● = 120V POWER ○ = 120V NEUTRAL ⚡ = FIELD GROUND ⏏ = CASE GROUND

**Optional Shelf Harness and LED Light Circuits for 4 or 5 Rows of Shelves**



**WARNING**

All components must have mechanical ground, and the merchandiser must be grounded.

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

R = Red

G = Green

BL = Blue

BK = Black

W = White

● = 100V POWER

○ = 100V NEUTRAL

⏏ = FIELD GROUND

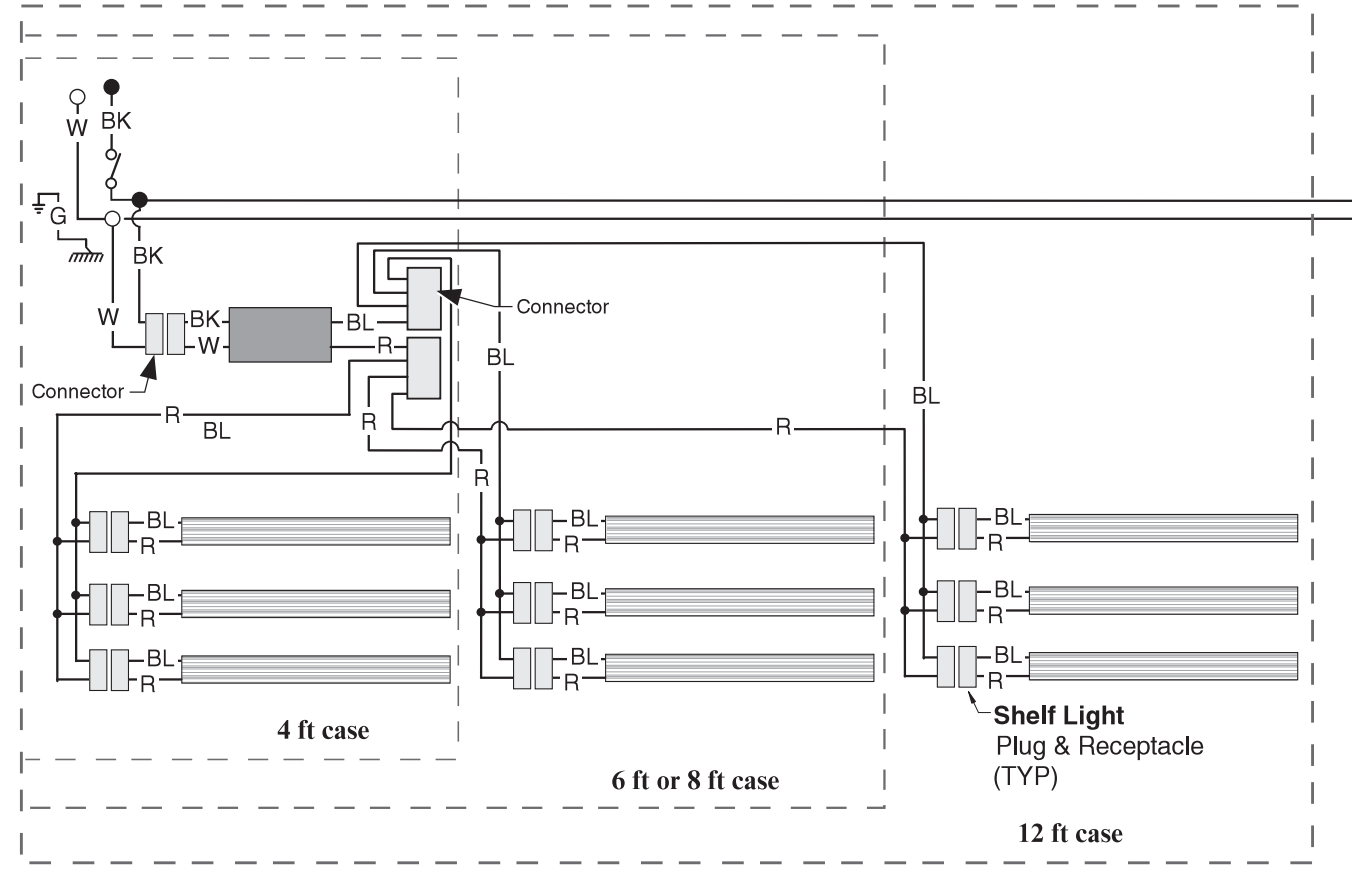
⏏ = CASE GROUND



## Optional Shelf Lighting LED Fixtures

**Excel DF5NX**  
Dairy/Delicatessen

### Optional Shelf Harness and LED Light Circuits for 2 or 3 Rows of Shelves



#### WARNING

All components must have mechanical ground, and the merchandiser must be grounded.

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

R = Red

G = Green

BL = Blue

BK = Black

W = White

● = 120V POWER

○ = 120V NEUTRAL

⏏ = FIELD GROUND

⏏ = CASE GROUND