HUSSMANN® Excel

NSF®

C5X-GEP
Technical Data Sheet
P/N 0559849_E
NSF® Certified
July 2019

DOE 2017
Energy Efficiency
Compliant

Power Supply

LED Canopy Lights

LED Shelf Lights

Refrigeration Thermostat

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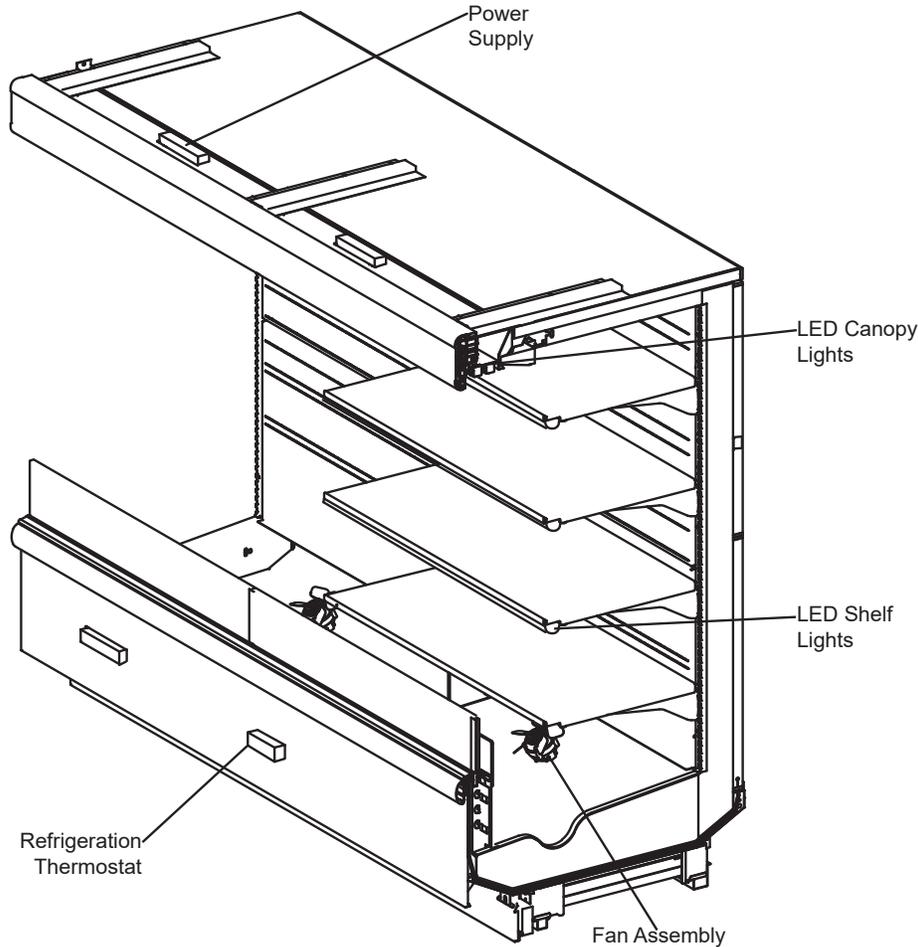
NSF Certification
This merchandiser model is manufactured to meet NSF/ANSI (National Sanitation Foundation) Standard #7 requirements for construction, materials and cleanability.

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 E: July 2019. Updated Lighting and CaseShieldPTM.
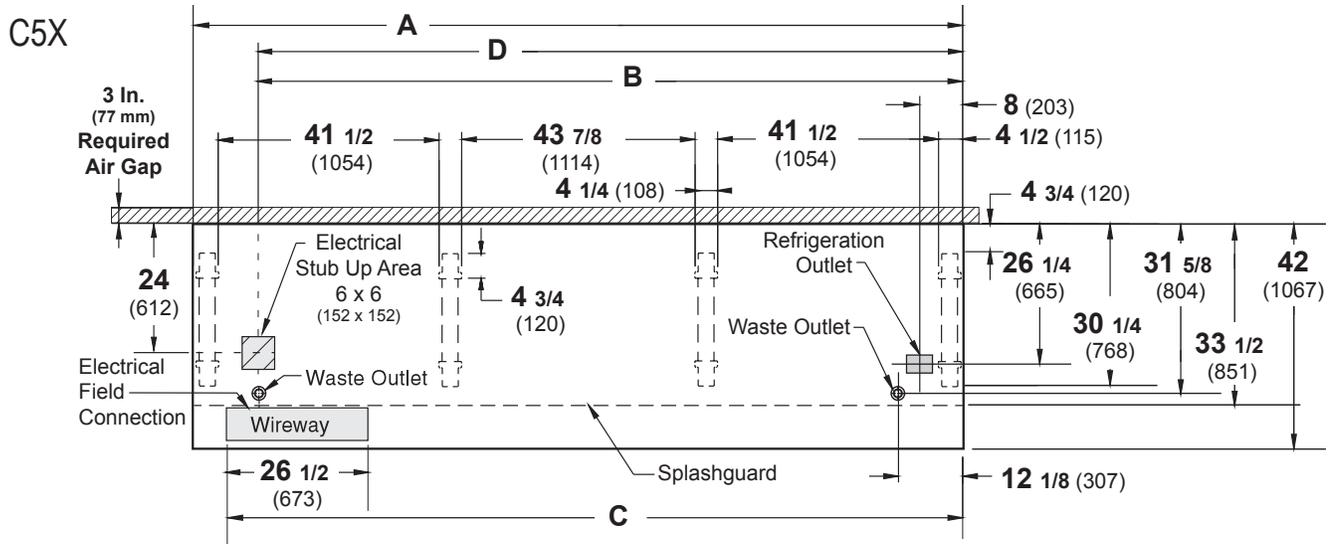
Data sheet-Excel-C5X-GEP

PHYSICAL DATA

Merchandiser Drip Pipe (in.)	$1 \frac{1}{4}$
Merchandiser Liquid Line (in.)	$\frac{3}{8}$
Merchandiser Suction Line (in.)	$\frac{7}{8}$

Convertible

Dimensions shown as in. and (mm).

C5X

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

FRONT

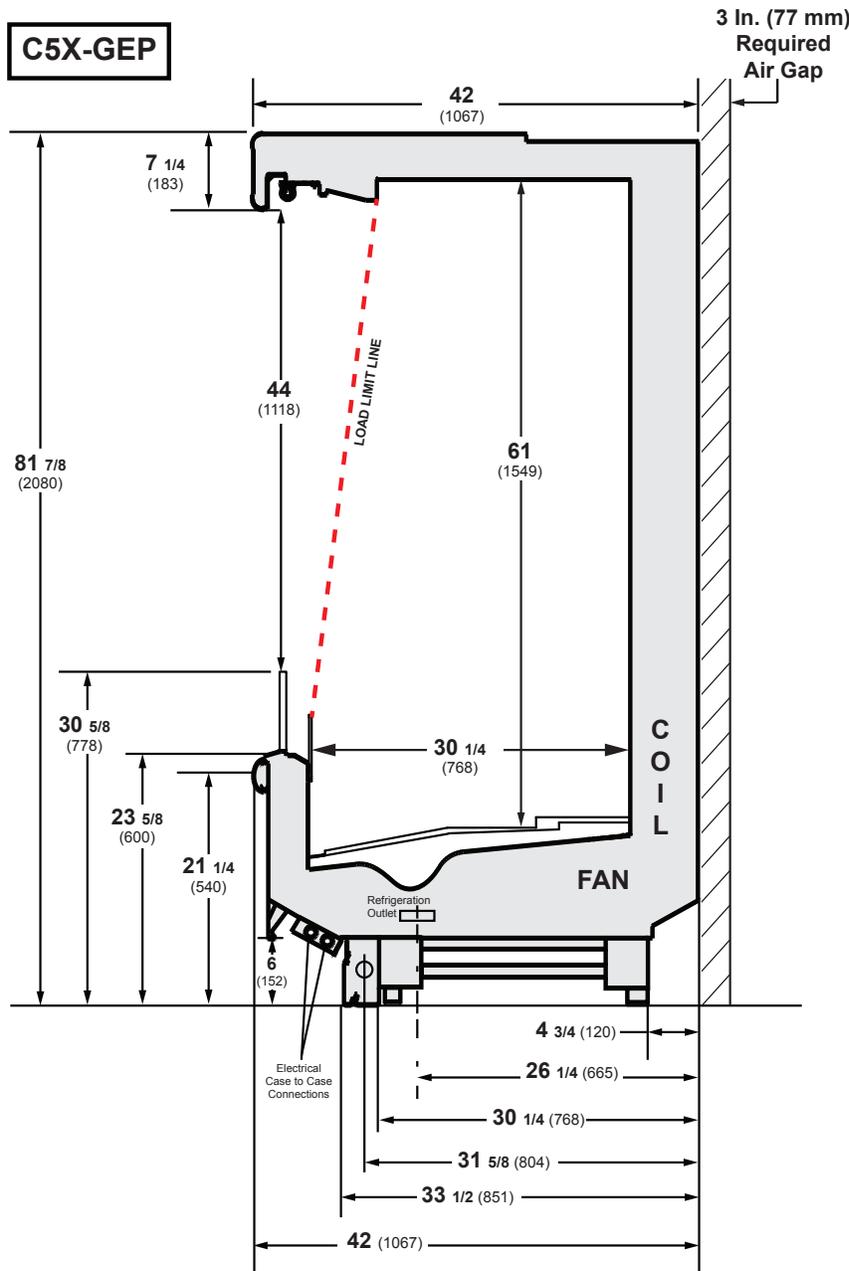|	8 ft	12 ft
General		
(A) Case Length *(without ends or partitions)*	96 $\frac{3}{8}$ (2448)	144 $\frac{1}{2}$ (3670)
(Each end and insulated partition adds 1 $\frac{1}{2}$ in. (38 mm) to case line up.) Optional view end with bumper adds 3 $\frac{3}{4}$ in. [95 mm]).		
Maximum O/S dimension of case back to front		
(includes bumper)	42 (1064)	42 (1064)
Back of case to front of splashguard	33 $\frac{1}{2}$ (851)	33 $\frac{1}{2}$ (851)
Back of case to O/S edge of front leg	30 $\frac{1}{4}$ (768)	30 $\frac{1}{4}$ (768)
Distance between edges of external legs and center legs	41 $\frac{1}{2}$ (1054)	41 $\frac{1}{2}$ (1054)
Distance between edges of center legs	NA	43 $\frac{7}{8}$ (1114)
Distance between front legs and splashguard	2 $\frac{3}{4}$ (70)	2 $\frac{3}{4}$ (70)
Electrical Service *(Electrical Field Wiring connection point)*		
(B) RH End of case to center of stub up area	84 $\frac{1}{4}$ (2140)	132 $\frac{3}{8}$ (3363)
Back of case to center of stub up area	24 (612)	24 (612)
Length of electrical wireway	26 $\frac{1}{2}$ (673)	26 $\frac{1}{2}$ (673)
(C) RH End of case to LH end of wireway	90 $\frac{1}{8}$ (2289)	138 $\frac{1}{4}$ (3511)
Waste Outlets *(One each end)*		
(D) RH End of case to the center of LH waste outlet	84 $\frac{1}{4}$ (2140)	132 $\frac{3}{8}$ (3363)
RH End of case to the center of RH waste outlet	12 $\frac{1}{8}$ (307)	12 $\frac{1}{8}$ (307)
Back O/S of case to center of waste outlets	31 $\frac{5}{8}$ (804)	31 $\frac{5}{8}$ (804)
Schedule 40 PVC drip pipe	1 $\frac{1}{4}$ (32)	1 $\frac{1}{4}$ (32)
Refrigeration Outlet		
Back of case to center of refrigeration outlet	26 $\frac{1}{4}$ (665)	26 $\frac{1}{4}$ (665)
RH end of case to center of refrigeration outlet	8 (203)	8 (203)

Multi-deck, 5 Display Levels

Dimensions shown as in. and (mm).

Excel C5X-GEP
Dairy/Delicatessen/Produce

REFRIGERATION DATA

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

C5X-GEP§	Dairy/Deli/Produce†	
	Unlit	Lit
Discharge Air (°F)	33	31
Evaporator (°F)	28	26
Unit Sizing (°F)	26	24

†For red meat application, lower evaporator temperature and unit sizing 3°F. Increase Btu 5%.

§ 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‡

C5X-GEP	Parallel	Conventional
Unlit	1224	1294

‡ Add 10 Btu/hr/ft *per shelf row* for LED fixtures. Add 20 Btu/hr/ft *per shelf row* for fluorescent lamps. Reduce refrigeration load by 15% if fitted with CaseShieldPTM.

DEFROST DATA

	C5X-GEP
Frequency Hrs	12
Defrost Water (lb/ft/day)	10.5

(± 15% based on case configuration and product loading).

Offtime	C5X-GEP
TIME (minutes)	30

Electric or Gas	Not Recommended

CONVENTIONAL CONTROLS

Low Pressure Backup Control CI/CO*

C5X-GEP	Dairy/Deli/Produce††
Temp (°F)	19°F / 9°F

Indoor Unit Only, Pressure Defrost Termination*   48°F

*Use a Temperature Pressure Chart to determine PSIG conversions.

††For red meat application, reduce low pressure backup control by 3°F.

C5X-GEP

3 In. (77 mm) Required Air Gap

42 (1067)

7 1/4 (183)

LOAD LIMIT LINE

44 (1118)

61 (1549)

81 7/8 (2080)

COIL

30 5/8 (778)

30 1/4 (768)

23 5/8 (600)

21 1/4 (540)

FAN

Refrigeration Outlet

6 (152)

Electrical Case to Case Connections

4 3/4 (120)

26 1/4 (665)

30 1/4 (768)

31 5/8 (804)

33 1/2 (851)

42 (1067)

Estimated Charge **   C5X-GEP

8 ft	3.7 lb	59 oz	1.7 kg
12 ft	5.1 lb	82 oz	2.3 kg

**This is an average for all refrigerant types. Actual refrigerant charge may vary by approximately half a pound (8 oz/0.2 kg).

Excel **C5X-GEP**
Dairy/Delicatessen/Produce

Electrical Data

		8 ft	12 ft
Number of Fans—25W		2	3
Number of Fans—7W		—	—

			Amperes			Watts	
			8 ft	12 ft		8 ft	12 ft
Evaporator Fan							
120V	50/60Hz	Standard Energy Efficient	1.20	1.80		72	108
230V	50/60Hz	Standard Energy Efficient	0.60	0.90		72	108
230V	60Hz	Export	1.32	1.98		200	300
230V	50Hz	Export	1.52	2.28		228	342
Minimum Circuit Ampacity							
120V	50/60Hz	Standard Energy Efficient	1.40	2.00			
230V	50/60Hz	Standard Energy Efficient	0.80	1.10			
230V	60Hz	Export	1.52	2.18			
230V	50Hz	Export	1.72	2.48			
Maximum Over Current Protection 120V			**20**	**20**			
Maximum Over Current Protection 230V			15	15			

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.

	Amperes		Watts	
LED LIGHTING	**8 ft**	**12 ft**	**8 ft**	**12 ft**
EcoShine ULTRA Canopy Lights				
1 Row EcoShine ULTRA	0.36	0.54	43	64
EcoShine II Canopy Lights				
EcoShine II	0.32	0.48	39	58
EcoShine II HO	0.44	0.66	53	79
EcoShine II Shelf Lights				
3 Rows of Shelves	0.49	0.74	59	89
4 Rows of Shelves	0.66	0.99	79	119
5 Rows of Shelves	0.82	1.24	99	148
6 Rows of Shelves	0.99	1.48	119	178
EcoShine II Rail Light — 1 Row	0.16	0.25	20	30
Standard Lighting (T-8 Fluorescent) 1 Row Canopy				
Each Row of Canopy, Shelf or Rail Lights	0.51	0.77	59	85

120V Lighting Circuit Total = Standard Lighting + Total Optional Lighting + Optional Shelf Lighting
120V LED Lighting Circuit Total = Canopy Lighting + Shelf Lighting + Optional Rail 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

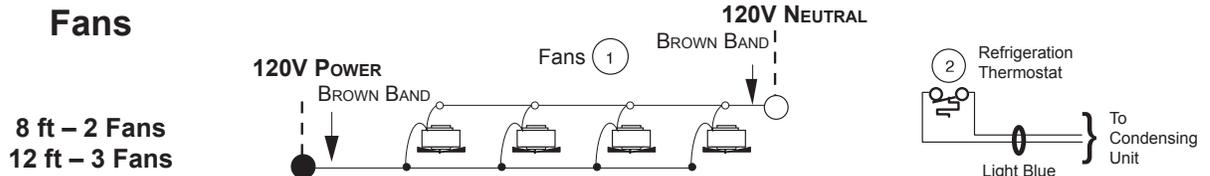|	
Recommended Usable Cube [1] (Cu Ft/Ft)	9.48 ft³ /ft (0.88 m³ /m)
AHRI Total Display Area [2] (Sq Ft/Ft)	4.24 ft² /ft (1.29 m² /m)
Shelf Area [3] (Sq Ft/Ft)	9.88 ft² /ft (3.01 m² /m)

[1] AHRI Refrigerated Volume less shelving and other unusable space: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]

[2] Computed using AHRI 1200 standard methodology: Total Display Area, ft² [m²]/Unit of Length, ft [m]

[3] Shelf surface area is 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 22-inch shelves.

ESTIMATED SHIPPING WEIGHT [5]

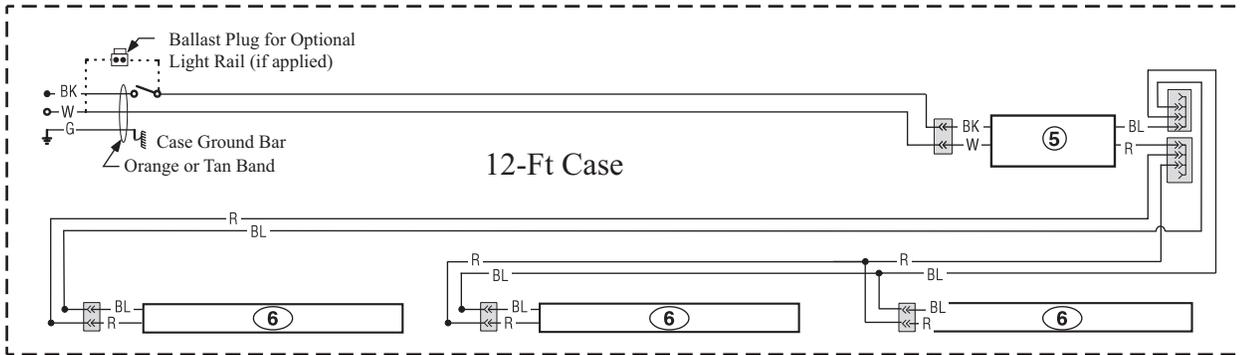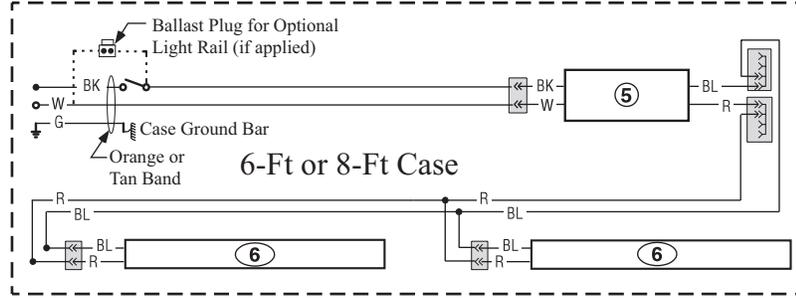| Case			Solid End
	8 ft	*12 ft*	*(each)*
lb *(kg)*	1200 (544)	1400 (635)	100 (45)

[5] Actual weights will vary according to optional kits included.

Fan Wiring
Offtime Defrost

Fans

8 ft – 2 Fans
12 ft – 3 Fans

120V POWER
BROWN BAND

Fans (1)

120V NEUTRAL
BROWN BAND

(2) Refrigeration
Thermostat

Light Blue

To
Condensing
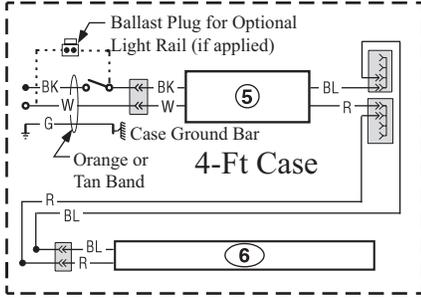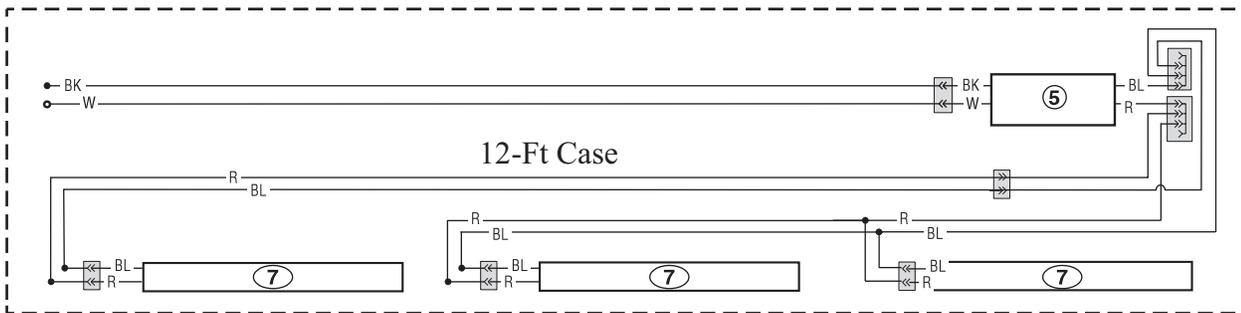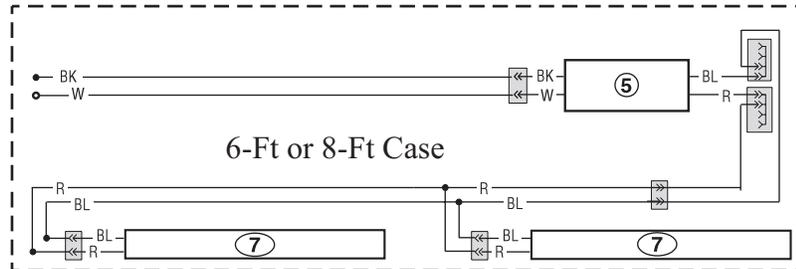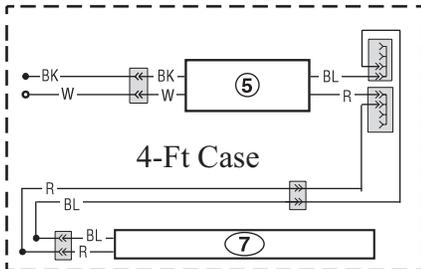Unit

Scan QR code to access
Fluorescent Wiring Diagrams
on your mobile device

LED Canopy and Rail Light Circuits

LED Canopy Lighting - 1 Row

Ballast Plug for Optional Light Rail (if applied)

4-Ft Case

Case Ground Bar

Orange or Tan Band

6-Ft or 8-Ft Case

12-Ft Case

LED Rail Lighting - 1 Row

4-Ft Case

6-Ft or 8-Ft Case

12-Ft Case

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

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

4 ft case

6 ft or 8 ft case

Shelf Light
Plug & Receptacle (TYP)

Connector

Connector

WARNING
All components must have mechanical ground, and the merchandiser must be grounded.
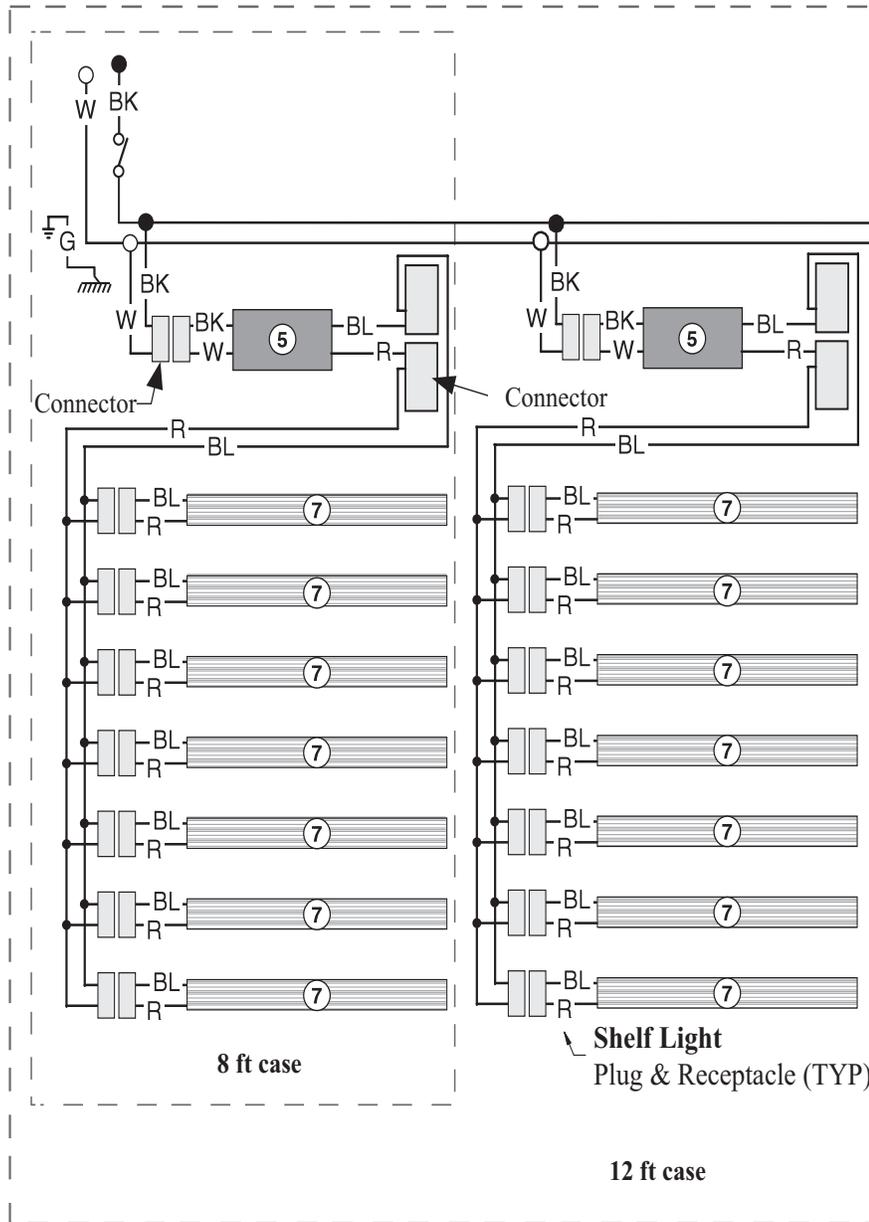Circled numbers = Parts List Item Numbers

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

● = 120V Power   ○ = 120V Neutral   ⏚ = Field Ground   ⏚ = Case Ground

Shelf Harness and LED Light Circuits for 6 or 7 Rows of Shelves

Connector

Connector

Shelf Light
Plug & Receptacle (TYP)

8 ft case

12 ft case

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