

GENERAL REQUIREMENTS

Requirements for the location of junction bricks and for mating Sheet 2
cordset cable ratings

Drop Cords and Trunk Cords

Requirements for **minifast**[®] Cords Sheet 3
Requirements for **eurofast**[®] Cords Sheet 4
Requirements for **eurofast**[®] Ethernet Cords Sheet 5

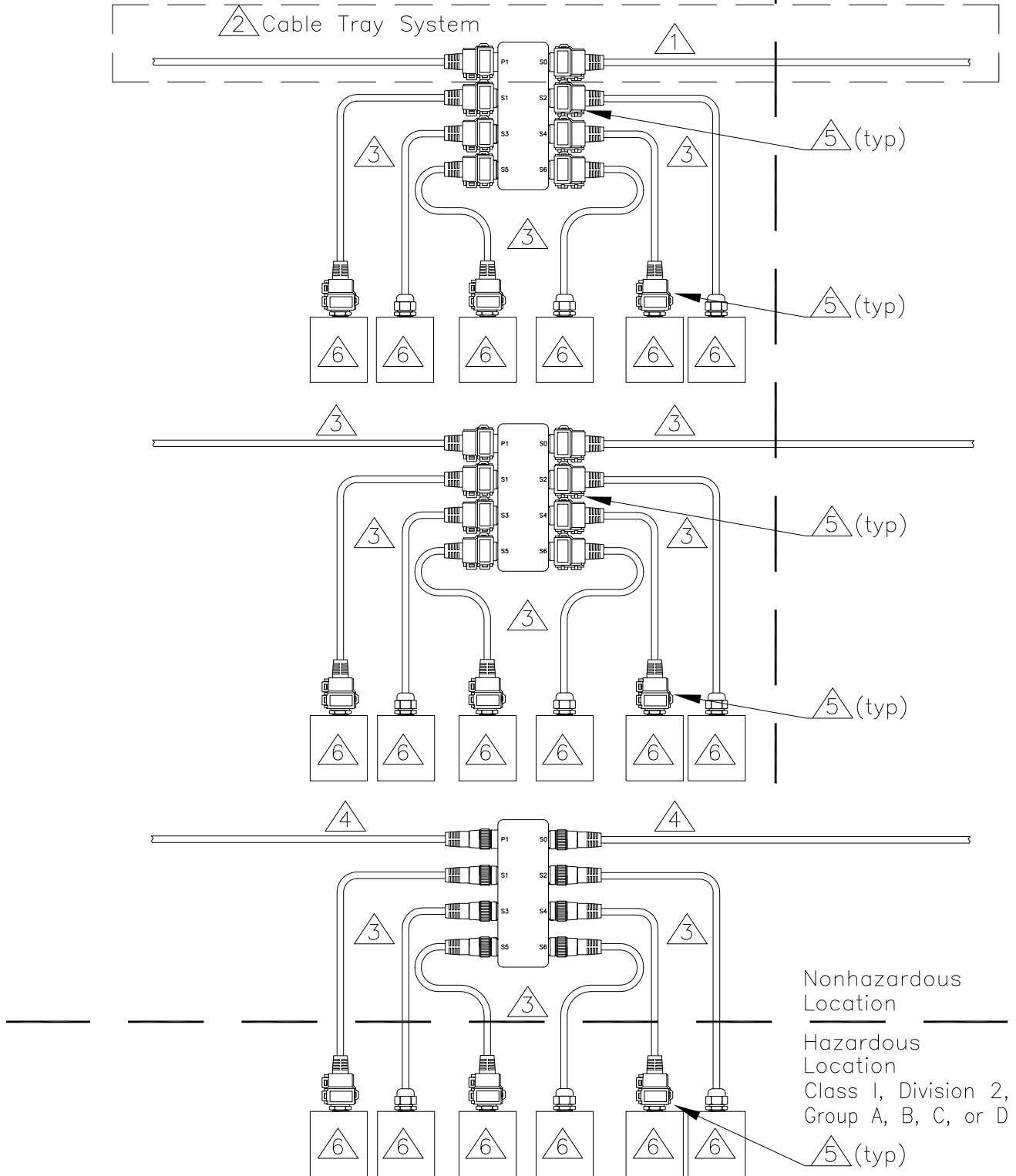
JBBS— .. —.... Junction Bricks

Specific requirements for JBBS junction bricks Sheets 6 & 7

					Drawing No.: NI-2.403	TURCK 3000 Campus Drive Plymouth, MN 55441 Phone: (763) 553-7300
E	Add ethernet connection codes	BVL		9/4/14		
D	Add ethernet cords, RA minifast, CIC cables	BVL		12/6/13	Title: Installation of CSA Certified JBBS and JTBS Junction Bricks	Scale: NONE
C	Add RS.B/RK.B types, del JTBS	BVL		9/26/12		
B	Add ACIC cable type	BVL		2/22/12		
A	Release	BVL		2/20/06		
Rev	Description	Drft	Chk	Date		

Hazardous Location
Class I, Division 2, Group A, B, C, or D

Nonhazardous
Location

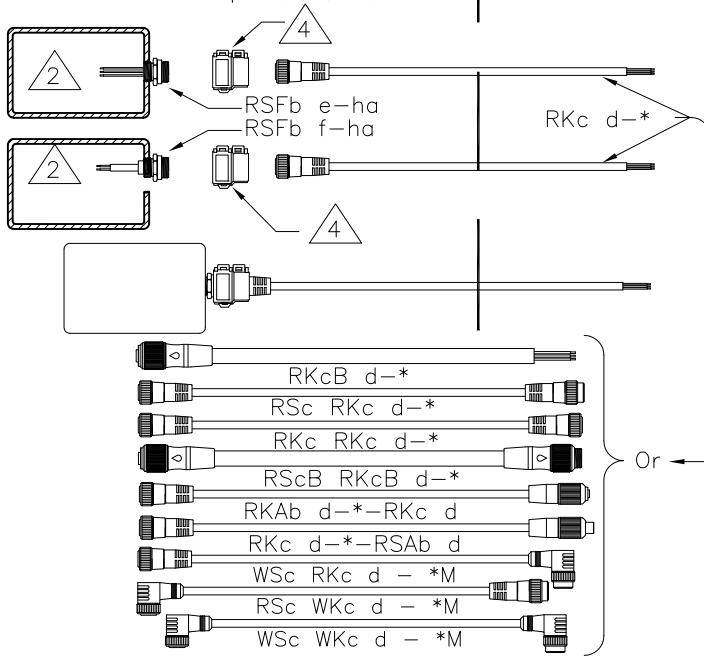


1. Certified CIC-rated trunk cable. See Sheets 3 and 4 for approved cordset model numbers.
2. Junction bricks connected with CIC-rated trunk cable must be installed such that the trunk cable is run in a certified cable tray system.
3. Certified ACIC, CMG-HL or CMX-HL cable. See Sheets 3 and 4 for certified cordset model numbers.
4. Any cable permitted by the CEC for the application
5. All connectors in the hazardous location must be secured using the appropriate **lokfast**® guard. See the instructions for the specific junction brick on the following sheets for requirements.
6. Field device certified for Class I, Division 2 hazardous locations.

E	Add ethernet connection codes	BVL		9/4/14	Drawing No.: NI-2.403	
Rev	Description	Drft	Chk	Date	Scale: NONE	Sheet 2 of 7

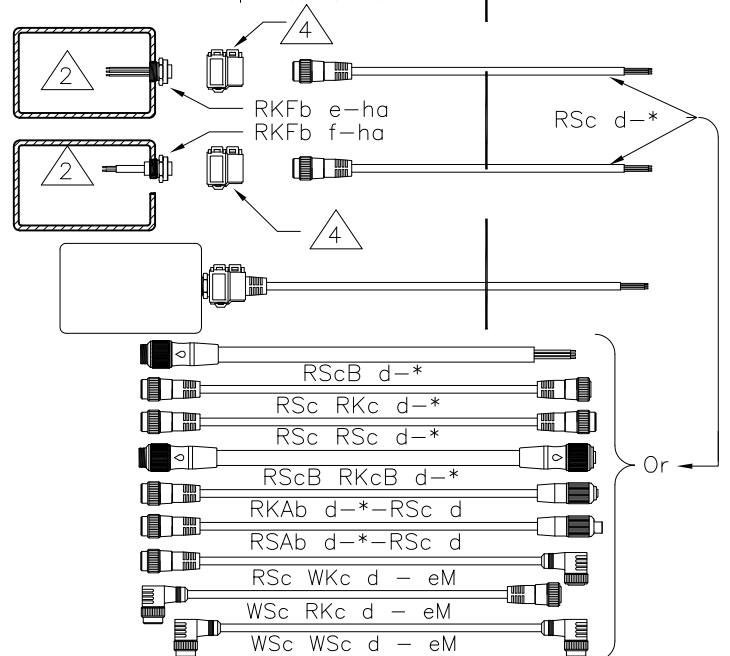
Hazardous Location
Class I, Division 2
Group A, B, C, or D

Nonhazardous
Location



Hazardous Location
Class I, Division 2
Group A, B, C, or D

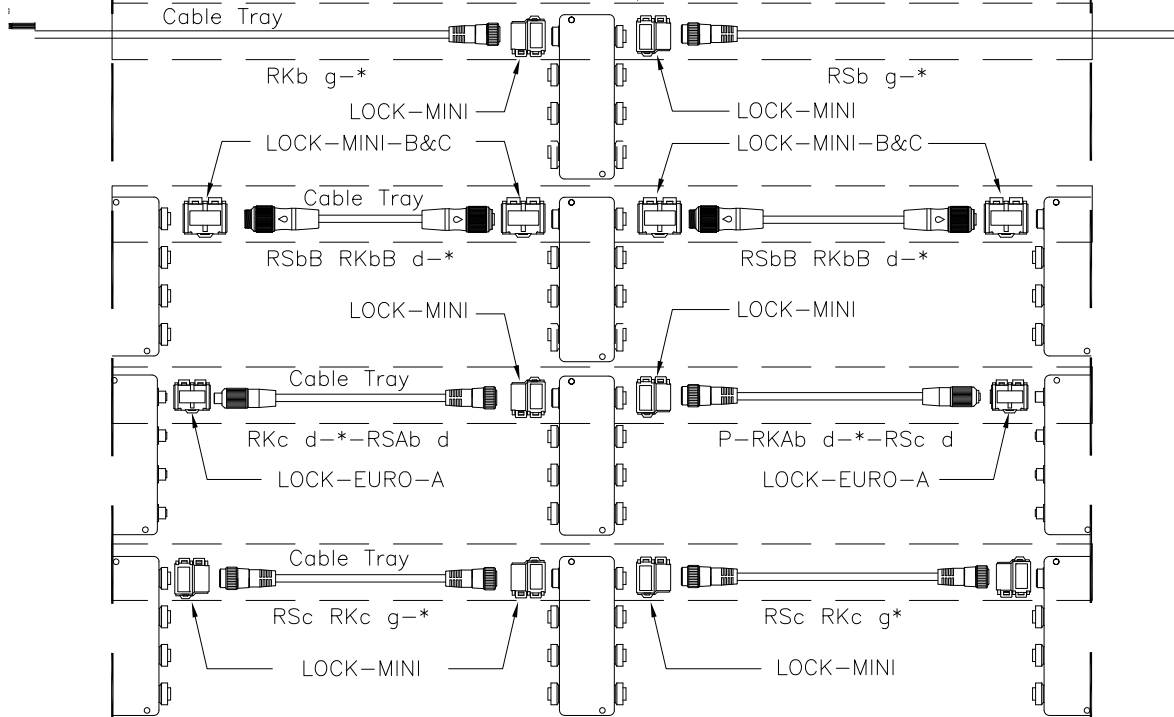
Nonhazardous
Location



Nonhazardous
Location

Hazardous Location
Class I, Division 2, Group A, B, C, or D

Nonhazardous
Location



Notes:

1. The installation must be in accordance with the Canadian Electrical Code (CEC) and this control drawing.

2. Field device must be certified for installation in Class I, Division 2.

3. Model number key:

a = /14.5, /14.75, /M20 or blank

b = V or blank

c = M or V

d = 255A, 4510A, 48A, 482A, 482BA, 492A, 492BA, 492BKA, 492OA, 5721A

e = 25, 45, 48, 49, 49T, 57

f = 254, 254B, 254BK, 483, 483B, 483BK, 484, 490, 490B, 493, 493B, 4930, 496, 496BK, 4960, 5711, 572, 5722, 5727, 577, 578, 579

g = 254, 254BK, 483, 483B, 483BK, 490, 490B, 4900BS, 4910, 4911, 4912, 49120, 493, 493B, 4930, 496, 496BK, 4960

h = cable or lead length

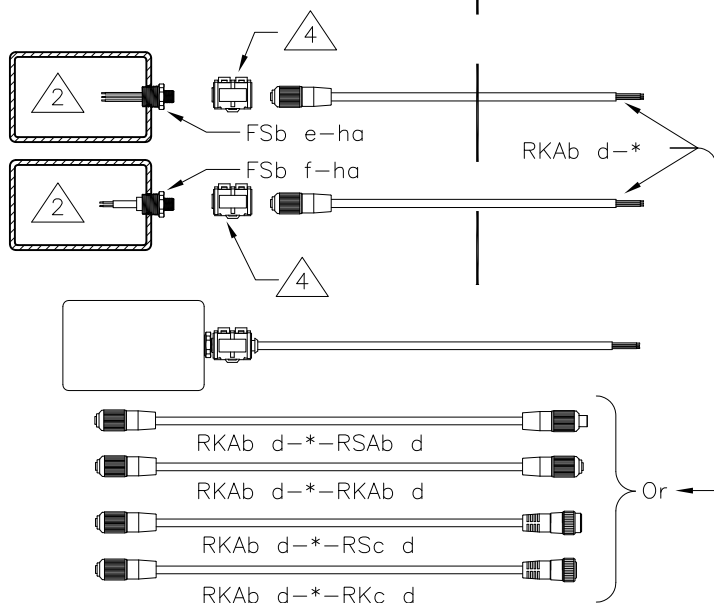
4. **lokfast**® guards on quick-disconnects require a tool to disconnect, rendering the connection not normally arcing. Use LOCK-MINI for RSM/RSV/RKM/RKV, LOCK-MINI-ANGLE for WSM/WSV/WKM/WKV, LOCK-MINI-B&C for RS.B/RK.B, LOCK-EURO-A for RSA/RKA.

5. The molded construction of the cordset and the gas/vaportight continuous sheath of the cable meet the requirements of the CEC for cable seals in Class I, Division 2.

E	Add ethernet connection codes	BVL		9/4/14	Drawing No.: NI-2.403
Rev	Description	Drft	Chk	Date	Scale: NONE
					Sheet 3 of 7

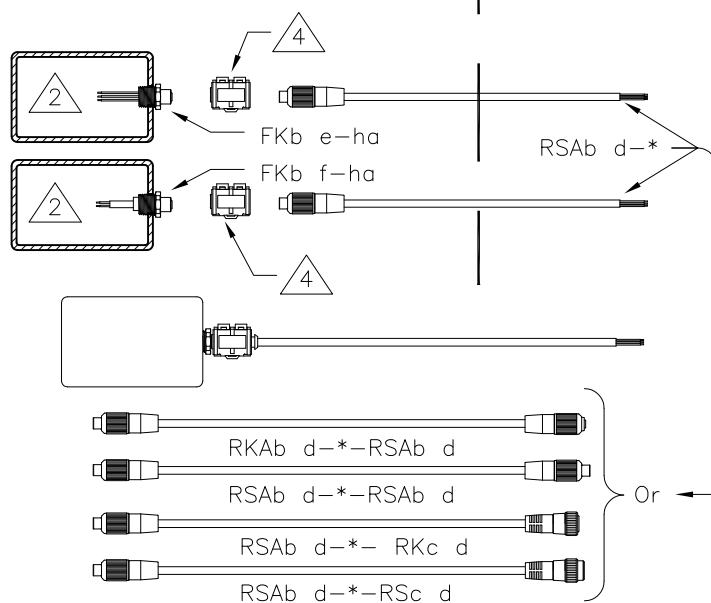
Hazardous Location
Class I, Division 2, Group A, B, C, or D

Nonhazardous
Location



Hazardous Location
Class I, Division 2, Group A, B, C, or D

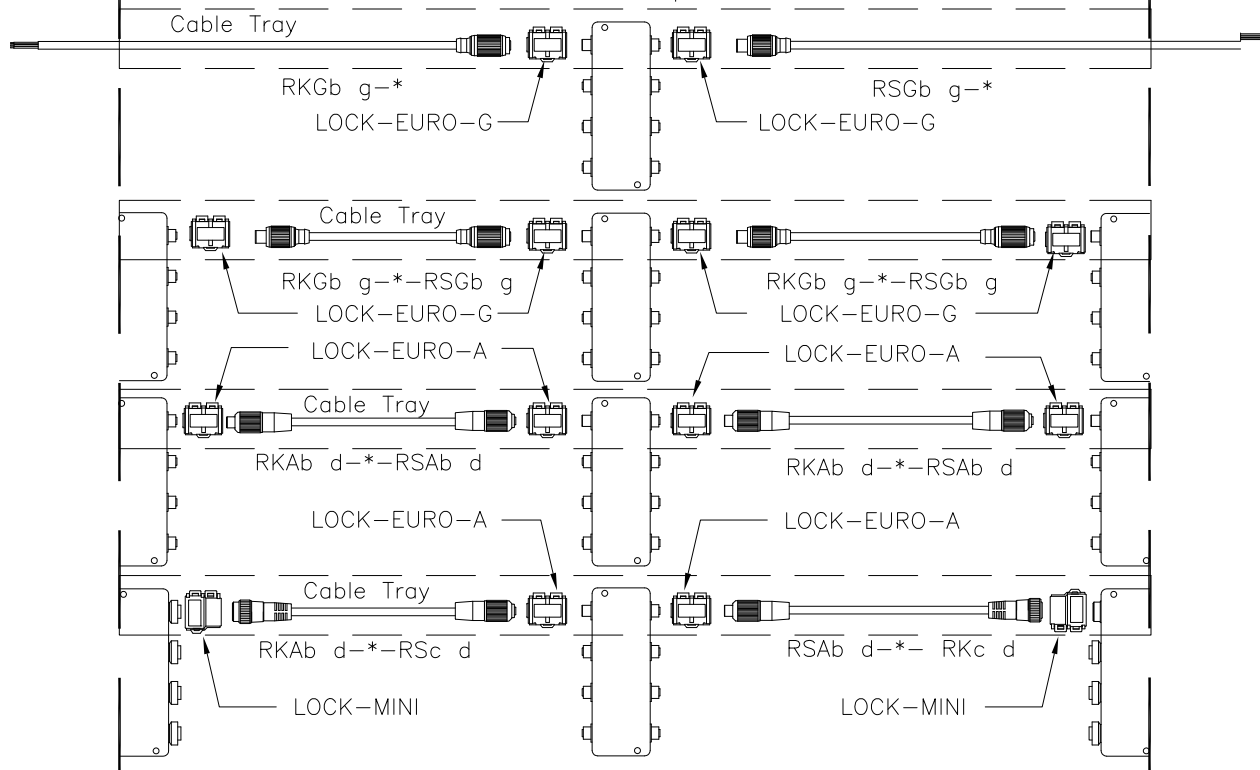
Nonhazardous
Location



Nonhazardous
Location

Hazardous Location
Class I, Division 2, Group A, B, C, or D

Nonhazardous
Location



Notes:

1. The installation must be in accordance with the Canadian Electrical Code (CEC) and this control drawing.

2. Field device must be certified for installation in Class I, Division 2.

3. Model number key:

a = /14.5, /14.75, /M20 or blank

b = V or blank

c = M or V

d = 255A, 4510A, 48A, 482A, 482BA, 492A, 492BA, 492BKA, 492OA, 5721A

e = 25, 45, 48, 49, 49T, 57

f = 254, 254B, 254BK, 483, 483B, 483BK, 484, 490, 490B, 493, 493B, 4930, 496, 496BK, 4960, 5711, 572, 5722, 5727, 577, 578, 579

g = 254, 254BK, 483, 483B, 483BK, 490, 490B, 4900BS, 4910, 4911, 4912, 49120, 493, 493B, 4930, 496, 496BK, 4960

h = cable or lead length

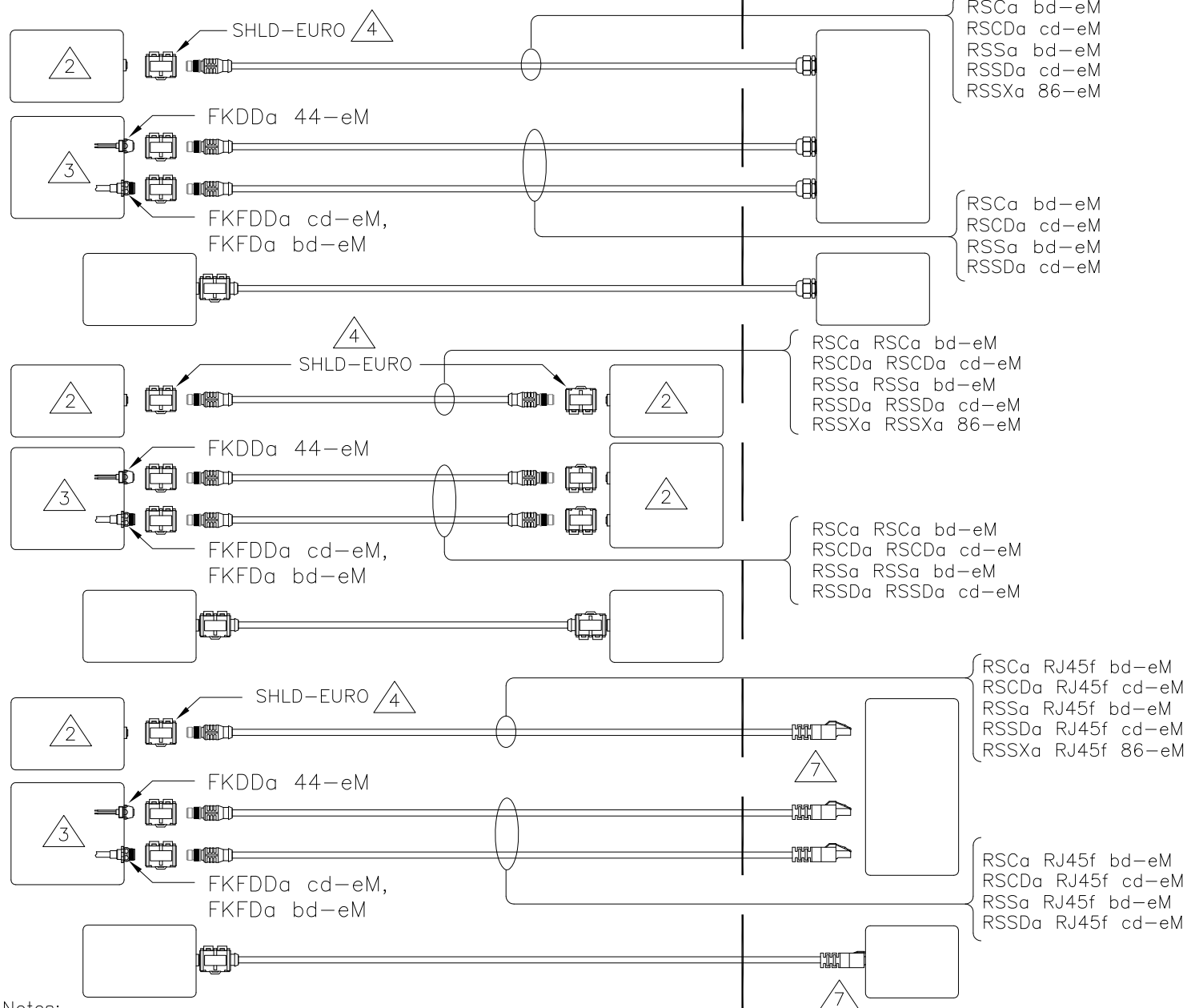
4. lokfast® guards on quick-disconnects require a tool to disconnect, rendering the connection not normally arcing. Use LOCK-MINI for RSM/RKV/RKM/RKV, LOCK-EURO-G for RKG/RSG, LOCK-EURO-A for RSA/RKA.

5. The molded construction of the cordset and the gas/vaportight continuous sheath of the cable meet the requirements of the CEC for cable seals in Class I, Division 2.

E	Add ethernet connection codes	BVL		9/4/14	Drawing No.: NI-2.403
Rev	Description	Drft	Chk	Date	Scale: NONE
					Sheet 4 of 7

Hazardous Location
Class I, Division 2, Group A, B, C, or D

Nonhazardous Location



Notes:

1. The installation must be in accordance with the Canadian Electrical Code (CEC) and this control drawing.
2. Field device with integral M12 connector, CSA certified for installation in Class I, Division 2.
3. Field device CSA certified for installation in Class I, Division 2.
4. All quick-disconnects in the hazardous location must be secured with a lokfast guard when the circuit is live. The lokfast guard require a tool to disconnect, rendering the connection not normally arcing.
5. Model number key:
 - a = Material V or blank
 - b = Bus standard 84 or 86
 - c = Bus standard 42 or 44
 - d = Pinout 0, 1, 2, 3, 4, 5, 6 or 7
 - e = Cable length in meters
 - f = RJ connector (nonhazardous location) options S, M, IP67, SMIP67, MIP67 or blank
6. The molded construction of the cordset and the gas/vaportight continuous sheath of the cable meet the requirements of the CEC for cable seals in Class I, Division 2.
7. The RJ45 connector must be located in a nonhazardous location.

E	Add ethernet connection codes	BVL		9/4/14	Drawing No.: NI-2.403	
Rev	Description	Drft	Chk	Date	Scale: NONE	Sheet 5 of 7

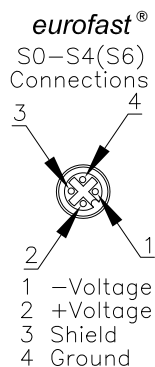
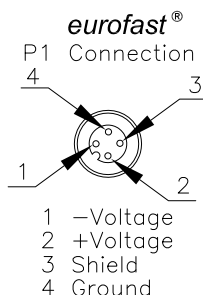
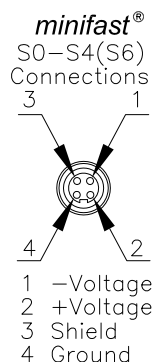
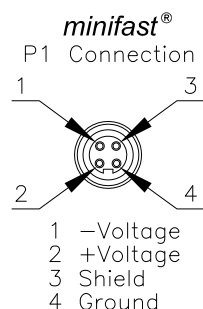
Fieldbus power supply with
supply voltage $\leq 35\text{Vdc}$ 

NON-HAZARDOUS LOCATION

HAZARDOUS (CLASSIFIED) LOCATION

Class I, Division 2

Group A, B, C, or D



See Sheet 2
for home-run
cable requirements

To additional
approved
fieldbus devices

OR  RSEV a-TR or
RSV a-TR
Terminating
Resistor with
lokfast® Guard

JBBS-a-b41c
JBBS-dSC-b41c
a=Bus std 25, 48, 49 or 57
b=Connector style E or M
c=Connector mat'l 3 or 4
d=Bus std 48 or 49

 **lokfast®** guard (typ.)
on all connectors
in hazardous location

OR  RSEV a-TR or
RSV a-TR
Terminating
Resistor with
lokfast® Guard

JBBS-a-b61c
JBBS-dSC-b61c
a=Bus std 25, 48, 49 or 57
b=Connector style E or M
c=Connector mat'l 3 or 4
d=Bus std 48 or 49

 (typ.)

Notes:

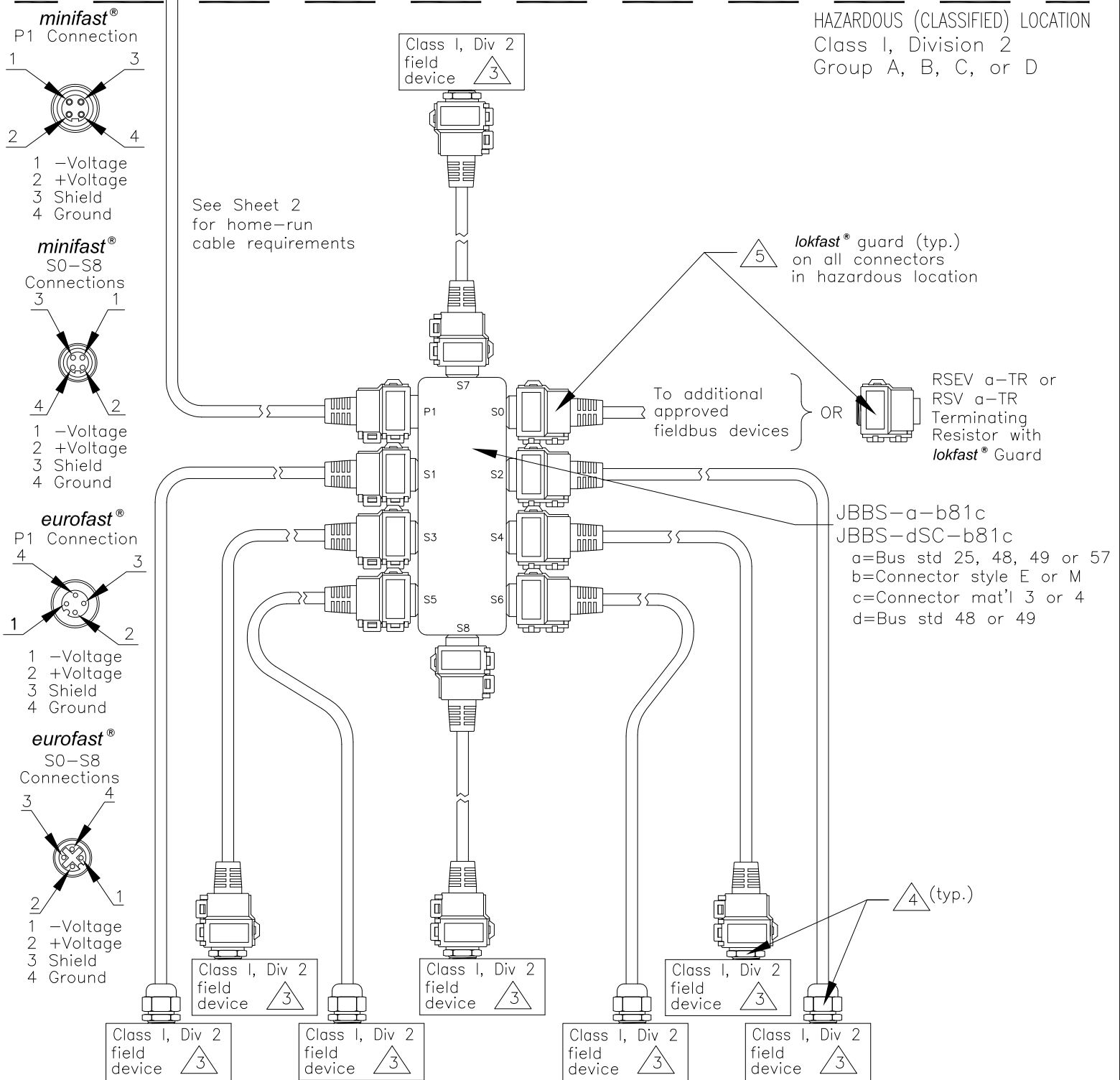
1. Wiring methods must be in accordance with Class I, Division 2 wiring practices per the Canadian Electrical Code (CEC).
2. All connecting cords must be constructed with ACIC, CIC, CMG-HL or CMX-HL rated cable, located as shown on Sheet 2. Model numbers are detailed on Sheets 3 and 4. They may be extension cordsets or single-ended cordsets (see Note 4).
-  3. Field devices must be certified for use in Class I, Division 2 hazardous (classified) locations and be rated for the fieldbus supply voltage.
-  4. Connection at the field device may be made using a Device Gland Receptacle indicated on Sheet 1, Note 3, or it may be made using entry fittings suitable for Class I, Division 2 and connected to internal terminals.
-  5. All connectors and terminating resistors must be secured using the appropriate **lokfast®** guard, as detailed on Sheets 3 and 4.

E	Add ethernet connection codes	BVL		9/4/14	Drawing No.: NI-2.403	
Rev	Description	Drft	Chk	Date	Scale: NONE	Sheet 6 of 7

Fieldbus power supply with
supply voltage $\leq 35\text{Vdc}$ 

NON-HAZARDOUS LOCATION

HAZARDOUS (CLASSIFIED) LOCATION
Class I, Division 2
Group A, B, C, or D



Notes:

1. Wiring methods must be in accordance with Class I, Division 2 wiring practices per the Canadian Electrical Code (CEC).
2. All connecting cords must be constructed with ACIC, CIC, CMG-HL or CMX-HL rated cable, located as shown on Sheet 2. Model numbers are detailed on Sheets 3 and 4. They may be extension cordsets or single-ended cordsets (see Note 4).
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-  5. All connectors and terminating resistors must be secured using the appropriate lokfast® guard, as detailed on Sheets 3 and 4.

E	Add ethernet connection codes	BVL		9/4/14	Drawing No.: NI-2.403	
Rev	Description	Drft	Chk	Date	Scale: NONE	Sheet 7 of 7