1. THE TOTAL ALLOWABLE CABLE LENGTH USED TO CONNECT TO 16 KS. DEVICES TO EACH USEFUL HUB IS 7,355 METERS OR 24,000 FEET.
2. EACH CABLE OR WIRING USED TO CONNECT TO DEVICES TO THE CONSOLE MUST NOT EXCEED A CABLE LENGTH OF 382 METER OR 100 FT/UNIT.
3. THE TOTAL CABLE CAPACITANCE DEWIN OF THE CABLE USED TO CONNECT TO THE INTRINSICALLY SAFE EQUIPMENT DEVICES TO EACH USEFUL HUB MUST NOT EXCEED 150.
4. EACH CABLE MUST NOT EXCEED AN INDUCTANCE OF 0.056 MILLIHEM IETER OR 0.2 MH.
5. THE LAY LENGTH OF THE CABLE MUST NOT EXCEED 300 MILLIHEM IETER.
6. FOR EACH NS THAN CONSOLE COURT, THE HAZARD HUB OF DEVICES CONNECTED TO EACH ASSOCIATED APPARATUS IS BY A HAZARD BOCABLES CAN BE CONNECTED TO A UNIVERSAL USEFUL HUB CABLE HUB WHERE EACH CONNECTOR IS OF HAZARDOUS DEVICES AND IS DEVICES.
7. A HAZARD OF THE CABLES OR CABLES MAY BE CONNECTED TO A NS CONSOLE AND A HAZARD OF COSE CONSOLE, THE CABLES STANDARD (EN 50609) CONelectronics WITH THE DEVICES TO THE POWER DISTRIBUTION OR WITH A 3.10 MPH (10 KN) LARGER CONDUCTORS, THE CABLES MUST COMPLY WITH THE EN 60079-11, CLASS TYPE "C" OR "D" CABLES.
8. THE SYSTEM DESCRIBED IN THIS DOCUMENT DESCRIBES THE INTRINSICALLY SAFE EQUIPMENT AND ASSOCIATED APPARATUS THAT TOGETHER FORM AN INTRINSICALLY SAFE SYSTEM.

Legend:
- DESIGNATES A FIELD WIRING CONNECTION DEVICE OR CONSTRUCTION METHOD.
- DESIGNATES A FIELD WIRING CONNECTION DEVICE OR CONSTRUCTION METHOD.

Descriptive System Consoles Describe the Intrinsically Safe Equipment and Associated Apparatus that Together Form an Intrinsically Safe System.
SYSTEM DIAGRAM

TLS-450
TLS-XB BOX 1
TLS-XB BOX 2
TLS-XB BOX 3

TLS-XB:
- 4 SLOTS PER BOX
- MAXIMUM OF 3 EXPANSION BOXES PER TLS-450 SYSTEM

CABLE (AJP):
- VE BUS, POWER, GROUND, AND RESET
- CABLE LENGTH 49 METERS OR 150 FEET MAXIMUM FOR ALL 3 BOXES TOGETHER

SEE NOTE 8
EARTH GROUND

8601/TLS4
TLS-XB BOX 1
TLS-XB BOX 2

TLS-XB:
- 4 SLOTS PER BOX
- MAXIMUM OF 2 EXPANSION BOXES PER 8601/TLS4 SYSTEM

CABLE (AJP):
- VE BUS, POWER, GROUND, AND RESET
- CABLE LENGTH 49 METERS OR 150 FEET MAXIMUM FOR ALL 2 BOXES TOGETHER

SEE NOTE 8
EARTH GROUND