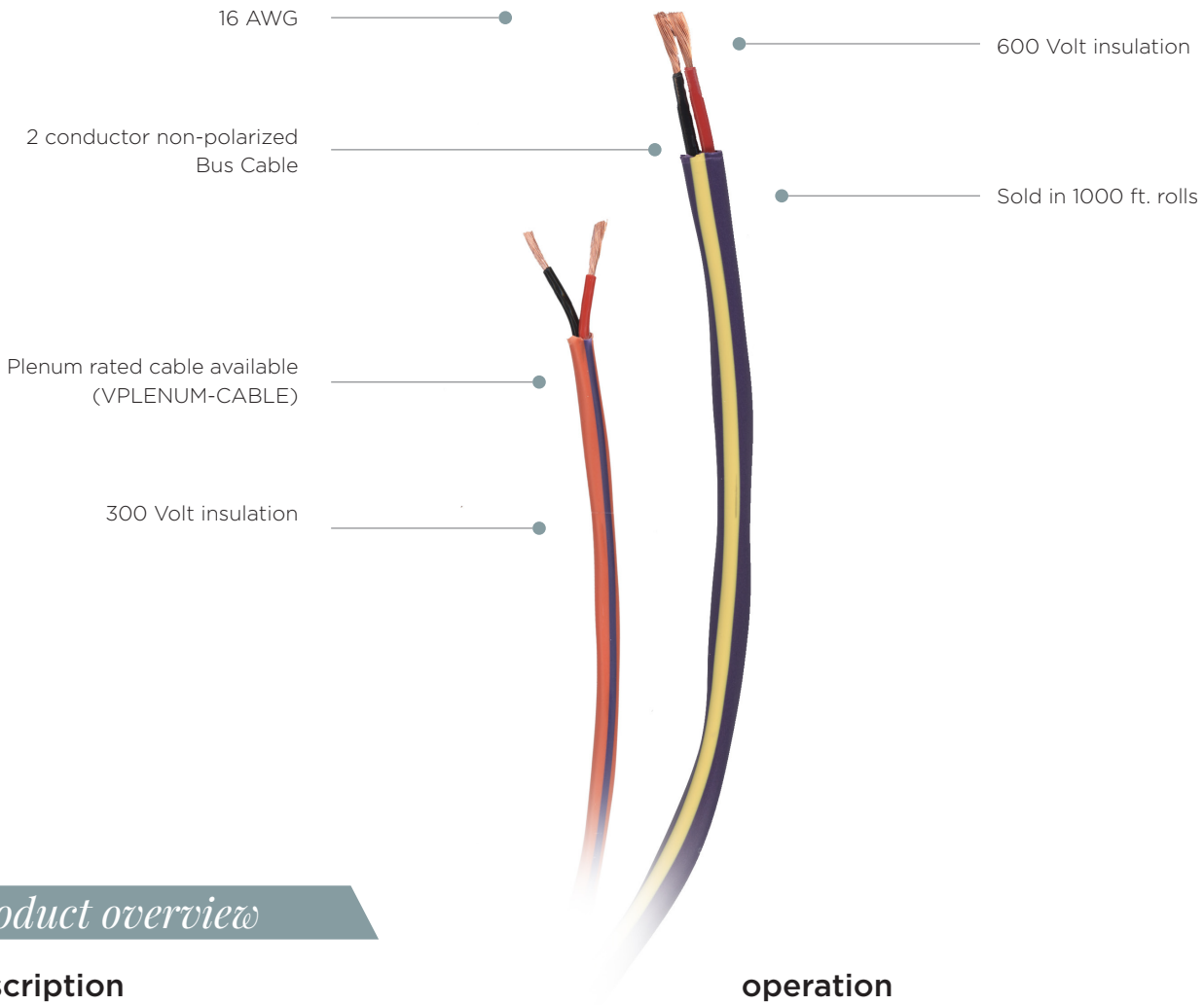
STATION BUS-STANDARD/PLENUM CABLE

infrastructure

VDA-0143-BOX / VPLENUM-CABLE



product overview

description

Vantage Station Bus (VDA-0143-BOX) and plenum rated Station Bus (VPLENUM-CABLE) provide the low-voltage wiring infrastructure from enclosures to stations and keypads. Insulation is rated up to 600 volts* for installations where line voltage connections are in the same electrical box.

*600 volt rating for standard cable only, plenum is rated at 300 volts

operation

Station Bus carries power and signal to Vantage stations and keypads. The cables are non-polarized making installation simple. Pigtails provide quick and reliable connection to keypads and stations.

PROJECT	
LOCATION/TYPE	

VANTAGE™

highlights

InFusion Station Bus carries the picofarad rating to meet the distance and power specifications for Vantage installations. In, addition Station Bus is the only approved low voltage cable for Wirelink station installations where line and low voltage are present in the same electrical back box.

applications

The InFusion Station Bus meets the cable requirements for any project using an InFusion controller. Plenum rated cable (VPLEN-CABLE) is available for appropriate applications.

features

- 16 awg
- Plenum rated cable available (VPLENUM-CABLE)
- 2 conductor non-polarized Bus Cable
- 600 volt insulation rating for standard/300 volt for plenum cable
- Sold in 1000 ft. boxes
- >30pF/ft.

specifications for standard Station Bus (VDA-0143-BOX)

Description

16 AWG 2 conductor 65 strands bare copper conductors with PVC/NYLON insulation, unshielded and an overall PVC jacket.
UL TC 600V 90'C DRY or CL3/CM Lighting and control cable for Vantage station devices and touchscreens. All specified parameters below are nominal and subject to verification.

General Specifications

Conductor	
AWG and stranding	16 AWG 65 Strands Class M
Material	Annealed bare copper
Conductor count	2 Conductors
Insulation	
Material	Polyvinylchloride and nylon
Nominal wall thickness	0.016" PVC and 0.005" nylon
Color code	Black, red
Assembly	
Cable lay length	3.25" LHL (3.69 tw/ft)
Jacket	
Material	Polyvinylchloride
Nominal wall thickness	0.045"
Nominal diameter	0.299"
Color	Violet/yellow stripe
Ripcord	Yes
Nominal weight	50 lbs/Mft
Markings	
Type	Cables permanently identified via surface inkjet print
Legend	"VANTAGE (801) 229-2800" E208309 16AWG 2C (UL) TC 600V 90'C DRY PVC JACKET SUN RES DIR BUR OR (UL) CL3/CM C(UL) (WO #) "ROHS II" REACH MADE IN USA
Footage markers	Yes
Nominal Electrical Characteristics	
Characteristic Impedance	62.5 Ω
Mutual Capacitance	28.9 pF/ft ±10%
DC Resistance	4.16 Ω/Mft @ 20° C

Standards

Cable suitable for installations under NEC (NFPA 70) article 1277, article 800 and article 725 guidelines
UL listed as CM per UL 444, as Type CL3 per UL standard 13 and Type TC per UL Standard 1277
UL approved for sunlight resistant and direct burial applications
Individual conductors rate TFFN
Cable meets IEEE 383 & UL 1581 70,000 BTU/HR flame test requirements
Cable meets ICEA S-73-532, where applicable
All materials used in the manufacture of this cable are RoHS compliant
Made in the USA

System Compatibility

InFusion

Ordering Information

CATALOG NO.	DESCRIPTION
○ VDA-0143-BOX	Station Bus
○ VPLENUM-CABLE	Plenum rated Station Bus
○ VDA-0040-L	Station pigtail assemblies (25 to a bag)
○ VDA-0015-L	Auxiliary pigtail cable assemblies (25 to a bag)

specifications for plenum cable (VPLENUM-CABLE)

Description

16 AWG 2 conductor 65 strand bare copper wire, plenum rated FEP insulation, unshielded, with an overall plenum rated PVC jacket. All specified parameters below are nominal and subject to verification.

General Specifications

Conductor	
AWG and stranding	16 AWG 65 Strands Class M
Material	Annealed Bare Copper
Conductor count	2 Conductors
Insulation	
Material	Plenum rated FEP
Wall thickness	0.008"
Color code	Black, red
Assembly	
Nominal lay length	2.25" LHL (5.33 Tw/ft)
Shield	N/A
Drain wire	N/A
Jacket	
Material	Plenum rated polyvinylchloride
Wall thickness	0.015"
Diameter	0.178"
Color	Orange/violet co-extruded stripe
Ripcord	Yes
Weight	28 lbs/Mft
Markings	
Type	Cables permanently identified via surface inkjet print
Legend	VANTAGE (801) 229-2800 E171197 16AWG 2C (UL) CMP C(UL)US OR (UL) CL3P OR (UL) FPLP 75'C FT-6 "ROHS II" REACH MADE IN USA
Footage markers	Yes
Nominal Electrical Characteristics	
Impedance	68 Ω ± 10%
Capacitance	22 pF/ft ± 10%
DC Resistance	4.26 Ω/Mft @ 20° C

Standards

Refer to NEC (NFPA 70) article 725, 760 and article 800 for installation guidelines
UL listed as type CL3P per UL standard 13, type CMP c(UL)us per UL standard 444, and as type FPLP per UL standard 1424
All materials used in the manufacture of this cable are RoHS II and REACH compliant
Maximum Operating Voltage: 300V RMS
Made in the USA

System Compatibility

InFusion

Ordering Information

CATALOG NO.	DESCRIPTION
○ VDA-0143-BOX	Station Bus
○ VPLENUM-CABLE	Plenum rated Station Bus
○ VDA-0040-L	Station pigtail assemblies (25 to a bag)
○ VDA-0015-L	Auxiliary pigtail cable assemblies (25 to a bag)

sample wiring of keypads using Station Bus

All Station Bus runs terminating at keypad should be connected red-red and black-black. The keypad is non-polarized so the Station Bus pigtail leads can be connected either way.

STATION BUS RUN 1

(Back to Main Terminal board "Station Bus 1")