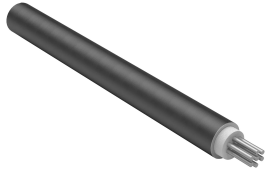


SYSTEM 2000 MI WIRING ALLOY 825 CABLE



nVent PYROTENAX System 2000 mineral insulated (MI) wiring cable is a range of MI wiring cable, with an Alloy 825 sheath and nickel-clad copper conductors (600 V). It has a continuous exposure temperature of 1238 °F/670 °C and can withstand rapid-rise temperature excursions to 2000 °F/1093 °C. The inorganic cable construction provides superior fire resistance under conditions of both high heat flux and high temperature. Common applications include the supply of power to motor operated valves during fire exposure ensuring that valves can be safely controlled and closed when required. It is typically supplied as a factory-assembled wiring unit complete with terminations at each end.

FEATURES

Ultimate performance: zero smoke generation, zero fuel contribution and zero flame spread.; no flow or transmission of explosive gases through the wiring cables

Maintains electrical circuit integrity for 30 minutes in the UL 1709 fire test, using UL2196 test procedure (UL 1709 test, referenced in API 2218, replicates an intense hydrocarbon fire, reaching 2000 °F/1093 °C in 5 minutes when subjected to a heat flux of 65,000 BTU/ft² hr (200 kW/m²) in an enclosed furnace).

Reliable during long life: 30 year product warranty available

Approved for hazardous locations

SPECIFICATIONS

Voltage Rating:	600 V
Max Operating Temperature:	1238 °F
Max Exposure Temperature:	2000 °F
Sheath Material:	Alloy 825
Flame Retardant:	In Accordance with EN 60332-3-24
Insulation Material:	Magnesium Oxide
Construction:	Mineral Insulated Cable
Conductor Material:	Nickel Clad Copper

Table 1/2

Catalog Number	Item Name	Core Quantity	Current Rating @ 75°C	Current Rating @ 90°C	Outer Diameter	AWG Size
253-14/1NC825	1C/14AWG/SYS 2000 600V	1	30 A	35 A	0.253 in	#14
286-12/1NC825	1C/12AWG/SYS 2000 600V	1	35 A	40 A	0.286 in	#12

Catalog Number	Item Name	Core Quantity	Current Rating @ 75°C	Current Rating @ 90°C	Outer Diameter	AWG Size
527-2/1NC825	1C/2AWG/SYS 2000 600V	1	170 A	190 A	0.527 in	#2
480-3/1NC825	1C/3AWG/SYS 2000 600V	1	145 A	165 A	0.48 in	#3
319-10/1NC825	1C/10AWG/SYS 2000 600V	1	50 A	55 A	0.319 in	#10
434-4/1NC825	1C/4AWG/SYS 2000 600V	1	125 A	140 A	0.434 in	#4
355-8/1NC825	1C/8AWG/SYS 2000 600V	1	70 A	80 A	0.355 in	#8
418-16/3NC825	3C/16AWG/SYS 2000 600V	3		18 A	0.418 in	#16
418-14/2NC825	2C/14AWG/SYS 2000 600V	2	20 A	25 A	0.418 in	#14
387-6/1NC825	1C/6AWG/SYS 2000 600V	1	95 A	105 A	0.387 in	#6
465-14/3NC825	3C/14AWG/SYS 2000 600V	3	20 A	25 A	0.465 in	#14
465-12/2NC825	2C/12AWG/SYS 2000 600V	2	30 A	30 A	0.465 in	#12
496-14/4NC825	4C/14AWG/SYS 2000 600V	4	20 A	25 A	0.496 in	#14
496-12/3NC825	3C/12AWG/SYS 2000 600V	3	25 A	30 A	0.496 in	#12
527-10/2NC825	2C/10AWG/SYS 2000 600V	2	35 A	40 A	0.527 in	#10
527-12/4NC825	4C/12AWG/SYS 2000 600V	4	25 A	30 A	0.527 in	#12
543-10/3NC825	3C/10AWG/SYS 2000 600V	3	35 A	40 A	0.543 in	#10
590-10/4NC825	4C/10AWG/SYS 2000 600V	4	35 A	40 A	0.59 in	#10
590-14/7NC825	7C/14AWG/SYS 2000 600V	7	20 A	25 A	0.59 in	#14
590-8/2NC825	2C/8AWG/SYS 2000 600V	2	50 A	55 A	0.59 in	#8
637-8/3NC825	3C/8AWG/SYS 2000 600V	3	50 A	55 A	0.637 in	#8
684-8/4NC825	4C/8AWG/SYS 2000 600V	4	50 A	55 A	0.684 in	#8

Catalog Number	Item Name	Core Quantity	Current Rating @ 75°C	Current Rating @ 90°C	Outer Diameter	AWG Size
637-12/7NC825	7C/12AWG/SYS 2000 600V	7	25 A	30 A	0.637 in	#12

Table 2/2

Catalog Number	Item Name	Resistance
253-14/1NC825	1C/14AWG/SYS 2000 600V	2.46 Ω/1000 ft
286-12/1NC825	1C/12AWG/SYS 2000 600V	1.51 Ω/1000 ft
527-2/1NC825	1C/2AWG/SYS 2000 600V	0.147 Ω/1000 ft
480-3/1NC825	1C/3AWG/SYS 2000 600V	0.184 Ω/1000 ft
319-10/1NC825	1C/10AWG/SYS 2000 600V	0.904 Ω/1000 ft
434-4/1NC825	1C/4AWG/SYS 2000 600V	0.233 Ω/1000 ft
355-8/1NC825	1C/8AWG/SYS 2000 600V	0.607 Ω/1000 ft
418-16/3NC825	3C/16AWG/SYS 2000 600V	3.766 Ω/1000 ft
418-14/2NC825	2C/14AWG/SYS 2000 600V	2.338 Ω/1000 ft
387-6/1NC825	1C/6AWG/SYS 2000 600V	0.374 Ω/1000 ft
465-14/3NC825	3C/14AWG/SYS 2000 600V	2.339 Ω/1000 ft
465-12/2NC825	2C/12AWG/SYS 2000 600V	1.47 Ω/1000 ft
496-14/4NC825	4C/14AWG/SYS 2000 600V	2.311 Ω/1000 ft
496-12/3NC825	3C/12AWG/SYS 2000 600V	1.451 Ω/1000 ft
527-10/2NC825	2C/10AWG/SYS 2000 600V	0.93 Ω/1000 ft
527-12/4NC825	4C/12AWG/SYS 2000 600V	1.527 Ω/1000 ft
543-10/3NC825	3C/10AWG/SYS 2000 600V	0.997 Ω/1000 ft
590-10/4NC825	4C/10AWG/SYS 2000 600V	1.01 Ω/1000 ft
590-14/7NC825	7C/14AWG/SYS 2000 600V	2.258 Ω/1000 ft
590-8/2NC825	2C/8AWG/SYS 2000 600V	0.628 Ω/1000 ft
637-8/3NC825	3C/8AWG/SYS 2000 600V	0.608 Ω/1000 ft
684-8/4NC825	4C/8AWG/SYS 2000 600V	0.634 Ω/1000 ft
637-12/7NC825	7C/12AWG/SYS 2000 600V	1.506 Ω/1000 ft

WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at www.nvent.com and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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