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:	670 °C
Max Exposure Temperature:	1093 °C
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 1/1

Catalog Number	Core Quantity	Current Rating @ 70°C	Outer Diameter	Conductor Cross-Section
215/1NC1.0/825	1	22 A	5.5 mm	1 mm²

Catalog Number	Core Quantity	Current Rating @ 70°C	Outer Diameter	Conductor Cross-Section
240/1NC1.5/825	1	27 A	6.1 mm	1.5 mm²
253/1NC2.5/825	1	36 A	6.4 mm	2.5 mm²
286/1NC4.0/825	1	47 A	7.3 mm	4 mm²
527/1NC35.0/825	1	168 A	13.4 mm	35 mm²
480/1NC25.0/825	1	139 A	12.2 mm	25 mm²
340/1NC6.0/825	1	59 A	8.6 mm	6 mm²
402/3NC1.0/825	3	15 A	10.2 mm	1 mm²
402/2NC1.5/825	2	23 A	10.2 mm	1.5 mm²
387/1NC10.0/825	1	81 A	9.8 mm	10 mm²
434/1NC16.0/825	1	107 A	11 mm	16 mm²
465/3NC1.5/825	3	20 A	11.8 mm	1.5 mm²
480/3NC2.5/825	3	27 A	12.2 mm	2.5 mm²
496/7NC1.0/825	7	15 A	12.6 mm	1 mm²
496/2NC4.0/825	2	42 A	12.6 mm	4 mm²
684/2NC10.0/825	2	74 A	17.4 mm	10 mm²
714/3NC10.0/825	3	62 A	18.1 mm	10 mm²
543/2NC6.0/825	2	54 A	13.8 mm	6 mm²
543/7NC1.5/825	7	20 A	13.8 mm	1.5 mm²

Catalog Number	Core Quantity	Current Rating @ 70°C	Outer Diameter	Conductor Cross-Section
590/3NC6.0/825	3	46 A	15 mm	6 mm²
590/4NC4.0/825	4	36 A	15 mm	4 mm²
714/7NC4.0/825	7	36 A	18.1 mm	4 mm²
750/7NC6.0/825	7	46 A	19.1 mm	6 mm²

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.

North America
Tel +1.800.545.6258
Fax +1.800.527.5703
thermal.info@nvent.com

Europe, Middle East, Africa
Tel +32.16.213.511
Fax +32.16.213.604
thermal.info@nvent.com

Asia Pacific
Tel +86.21.2412.1688
Fax +86.21.5426.3167
cn.thermal.info@nvent.com

Latin America
Tel +1.713.868.4800
Fax +1.713.868.2333
thermal.info@nvent.com