

System 1850Z Jacketed Fire Rated Cable



nVent PYROTENAX System 1850Z Jacketed Fire Rated Cable is a range of mineral insulated (MI) 2-hour fire-rated wiring cable for critical and essential circuit protection. It consists of solid copper conductors, in a continuous copper sheath, with a low smoke zero halogen (LSZH) jacket. Developed for transit tunnel applications, it may also be used in other areas where corrosion due to moisture may be of concern. Cable terminations are typically field installed. Factory terminated wiring units are available in a range of sizes and lengths.

FEATURES

Ultimate performance: fireproof, no smoke generation, zero halogens, high mechanical strength and corrosion resistance, waterproof and non-ageing

UL fire-resistive classified, does not require additional conduit or fireproofing

UL Classified/ ULC Listed: tested to the UL 2196/ULC-S139 fire test standards

Meets requirements of an Electrical Circuit Protective System, as referred to in Articles 695 and 700 of the National Electrical Code (NEC)

System 1850 appears in Electrical Circuit Integrity System (FHIT and FHIT7) of the UL/ULC Fire Resistance Directory

Complies with wet-location and LSZH requirements for transit applications as outlined in NFPA 130

Reliable during long life: 30 year product warranty available

SPECIFICATIONS

Max Continuous Operating Temperature:	90 °C
Max Exposure Temperature:	1010 °C
Conductor Surface:	Bare
Conductor Category:	Class 1 = Solid
Conductor Material:	Copper
Insulation Material:	Magnesium Oxide
Construction:	Seamless Copper

Table 1/1

Catalog Number	Item Name	Voltage Rating	Conductor Quantity	AWG Size
1/3/0-621Z	1C/3/0AWG/SYS 1850/600V/LSZH JKT	600 V	1	0

Catalog Number	Item Name	Voltage Rating	Conductor Quantity	AWG Size
2/18-324TSZ	2C/18AWG/SHTWPR SYS 1850/300V/LSZH	300 V	2	18
2/16-340Z	2C/16AWG/SYS 1850/600V/LSZH JKT	600 V	2	16
2/16-364TSZ	2C/16AWG/SHTWPR SYS 1850/300V/LSZH	300 V	2	16
3/16-355Z	3C/16AWG/SYS 1850/600V/LSZH JKT	600 V	3	16
4/16-387Z	4C/16AWG/SYS 1850/600V/LSZH JKT	600 V	4	16
7/16-449Z	7C/16AWG/SYS 1850/600V/LSZH JKT	600 V	7	16
4/14-465Z	4C/14AWG/SYS 1850/600V/LSZH JKT	600 V	4	14
7/14-496Z	7C/14AWG/SYS 1850/600V/LSZH JKT	600 V	7	14
2/14-371Z	2C/14AWG/SYS 1850/600V/LSZH JKT	600 V	2	14
3/14-387Z	3C/14AWG/SYS 1850/600V/LSZH JKT	600 V	3	14
2/12-402Z	2C/12AWG/SYS 1850/600V/LSZH JKT	600 V	2	12
3/12-480Z	3C/12AWG/SYS 1850/600V/LSZH JKT	600 V	3	12
4/12-465Z	4C/12AWG/SYS 1850/600V/LSZH JKT	600 V	4	12
7/12-543Z	7C/12AWG/SYS 1850/600V/LSZH JKT	600 V	7	12
4/10-590Z	4C/10AWG/SYS 1850/600V/LSZH JKT	600 V	4	10
7/10-621Z	7C/10AWG/SYS 1850/600V/LSZH JKT	600 V	7	10
2/10-449Z	2C/10AWG/SYS 1850/600V/LSZH JKT	600 V	2	10
3/10-480Z	3C/10AWG/SYS 1850/600V/LSZH JKT	600 V	3	10

Catalog Number	Item Name	Voltage Rating	Conductor Quantity	AWG Size
2/8-512Z	2C/8AWG/SYS 1850/600V/LSZH JKT	600 V	2	8
3/8-590Z	3C/8AWG/SYS 1850/600V/LSZH JKT	600 V	3	8
4/8-590Z	4C/8AWG/SYS 1850/600V/LSZH JKT	600 V	4	8
7/8-710Z	7C/8AWG/SYS 1850/600V/LSZH	600 V	7	8
3/6-621Z	3C/6AWG/SYS 1850/600V/LSZH JKT	600 V	3	6
4/6-730Z	4C/6AWG/SYS 1850/600V/LSZH	600 V	4	6
1/6-340Z	1C/6AWG/SYS 1850/600V/LSZH JKT	600 V	1	6
2/6-590Z	2C/6AWG/SYS 1850/600V/LSZH JKT	600 V	2	6
1/350-834Z	1C/350KCMIL/SYS 1850/600V/LSZH JKT	600 V	1	350 kcmil
1/4-402Z	1C/4AWG/SYS 1850/600V/LSZH JKT	600 V	1	4
2/4-684Z	2C/4AWG/SYS 1850/600V/LSZH JKT	600 V	2	4
3/4-746Z	3C/4AWG/SYS 1850/600V/LSZH JKT	600 V	3	4
1/3-449Z	1C/3AWG/SYS 1850/600V/LSZH JKT	600 V	1	3
2/3-768Z	2C/3AWG/SYS 1850/600V/LSZH JKT	600 V	2	3
3/3-834Z	3C/3AWG/SYS 1850/600V/LSZH JKT	600 V	3	3
1/250-746Z	1C/250KCMIL/SYS 1850/600V/LSZH JKT	600 V	1	250 kcmil
1/4/0-684Z	1C/4/0AWG/SYS 1850/600V/LSZH JKT	600 V	1	4/0
1/2-449Z	1C/2AWG/SYS 1850/600V/LZSH JKT	600 V	1	2

Catalog Number	Item Name	Voltage Rating	Conductor Quantity	AWG Size
1/1-496Z	1C/1AWG/SYS 1850/600V/LSZH JKT	600 V	1	1
1/2/0-580Z	1C/2/0AWG/SYS 1850/600V/LSZH JKT	600 V	1	2/0
1/1/0-512Z	1C/1/0AWG/SYS 1850/600V/LSZH JKT	600 V	1	1/0
1/500-1000Z	1C/500KCMIL/SYS 1850/600V/LSZH JKT	600 V	1	500 kcmil

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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