

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 & BENEFITS

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

Voltage Rating 600 V

Construction Seamless Copper

Conductor Material Copper

Conductor Category Class 1 = Solid

Conductor Surface Bare

Insulation Material Magnesium Oxide

Max Continuous Operating Temperature 90 °C

Max Exposure Temperature 1010 °C

Table 1/1

Catalog Number	Item Name	Conductor Quantity	AWG Size
2/10-449Z	2C/10AWG/SYS 1850/600V/LSZH JKT	2	10
2/12-402Z	2C/12AWG/SYS 1850/600V/LSZH JKT	2	12
2/14-371Z	2C/14AWG/SYS 1850/600V/LSZH JKT	2	14
2/16-340Z	2C/16AWG/SYS 1850/600V/LSZH JKT	2	16
2/3-768Z	2C/3AWG/SYS 1850/600V/LSZH JKT	2	3
2/4-684Z	2C/4AWG/SYS 1850/600V/LSZH JKT	2	4
2/6-590Z	2C/6AWG/SYS 1850/600V/LSZH JKT	2	6
2/8-512Z	2C/8AWG/SYS 1850/600V/LSZH JKT	2	8
4/10-590Z	4C/10AWG/SYS 1850/600V/LSZH JKT	4	10
4/12-465Z	4C/12AWG/SYS 1850/600V/LSZH JKT	4	12
4/14-465Z	4C/14AWG/SYS 1850/600V/LSZH JKT	4	14
4/16-387Z	4C/16AWG/SYS 1850/600V/LSZH JKT	4	16
4/6-730Z	4C/6AWG/SYS 1850/600V/LSZH	4	6
4/8-590Z	4C/8AWG/SYS 1850/600V/LSZH JKT	4	8
7/10-621Z	7C/10AWG/SYS 1850/600V/LSZH JKT	7	10
7/12-543Z	7C/12AWG/SYS 1850/600V/LSZH JKT	7	12
7/14-496Z	7C/14AWG/SYS 1850/600V/LSZH JKT	7	14
7/16-449Z	7C/16AWG/SYS 1850/600V/LSZH JKT	7	16
7/8-710Z	7C/8AWG/SYS 1850/600V/LSZH	7	8
1/1-496Z	1C/1AWG/SYS 1850/600V/LSZH JKT	1	1
1/1/0-512Z	1C/1/0AWG/SYS 1850/600V/LSZH JKT	1	1/0
1/2-449Z	1C/2AWG/SYS 1850/600V/LZSH JKT	1	2
1/2/0-580Z	1C/2/0AWG/SYS 1850/600V/LSZH JKT	1	2/0
1/250-746Z	1C/250KCMIL/SYS 1850/600V/LSZH JKT	1	250 kcmil
1/3-449Z	1C/3AWG/SYS 1850/600V/LSZH JKT	1	3
1/3/0-621Z	1C/3/0AWG/SYS 1850/600V/LSZH JKT	1	AWG Size
1/350-834Z	1C/350KCMIL/SYS 1850/600V/LSZH JKT	1	350 kcmil

Catalog Number	Item Name	Conductor Quantity	AWG Size
1/4-402Z	1C/4AWG/SYS 1850/600V/LSZH JKT	1	4
1/4/0-684Z	1C/4/0AWG/SYS 1850/600V/LSZH JKT	1	4/0
1/500-1000Z	1C/500KCMIL/SYS 1850/600V/LSZH JKT	1	500 kcmil
1/6-340Z	1C/6AWG/SYS 1850/600V/LSZH JKT	1	6
3/10-480Z	3C/10AWG/SYS 1850/600V/LSZH JKT	3	10
3/12-480Z	3C/12AWG/SYS 1850/600V/LSZH JKT	3	12
3/14-387Z	3C/14AWG/SYS 1850/600V/LSZH JKT	3	14
3/16-355Z	3C/16AWG/SYS 1850/600V/LSZH JKT	3	16
3/3-834Z	3C/3AWG/SYS 1850/600V/LSZH JKT	3	3
3/4-746Z	3C/4AWG/SYS 1850/600V/LSZH JKT	3	4
3/6-621Z	3C/6AWG/SYS 1850/600V/LSZH JKT	3	6
3/8-590Z	3C/8AWG/SYS 1850/600V/LSZH JKT	3	8

Voltage Rating 300 V

Construction Seamless Copper

Conductor Material Copper

Conductor Category Class 1 = Solid

Conductor Surface Bare

Insulation Material Magnesium Oxide

Max Continuous Operating Temperature 90 °C

Max Exposure Temperature 1010 °C

Table 1/1

Catalog Number	Item Name	Conductor Quantity	AWG Size
2/16-364TSZ	2C/16AWG/SHTWPR SYS 1850/300V/LSZH	2	16
2/18-324TSZ	2C/18AWG/SHTWPR SYS 1850/300V/LSZH	2	18

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