

System 1850 Bare Fire Rated Cable



nVent PYROTENAX System 1850 Bare 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 (System 1850) and is allowed to be used under virtually any application conditions by both the NEC and CEC. 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:	482 °F
Max Exposure Temperature:	1850 °F
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
2/18-215T	2C/18AWG/TWPR SYS 1850/300V	300 V	2	18

Catalog Number	Item Name	Voltage Rating	Conductor Quantity	AWG Size
2/18-324TS	2C/18AWG/SHTWPR SYS 1850/300V	300 V	2	18
2/16-246T	2C/16AWG/TWPR SYS 1850/300V	300 V	2	16
2/16-340	2C/16AWG/SYS 1850/600V	600 V	2	16
2/16-364TS	2C/16AWG/SHTWPR SYS 1850/300V	300 V	2	16
3/16-355	3C/16AWG/SYS 1850/600V	600 V	3	16
4/16-387	4C/16AWG/SYS 1850/600V	600 V	4	16
7/16-449	7C/16AWG/SYS 1850/600V	600 V	7	16
3/14-387	3C/14AWG/SYS 1850/600V	600 V	3	14
4/14-465	4C/14AWG/SYS 1850/600V	600 V	4	14
7/14-496	7C/14AWG/SYS 1850/600V	600 V	7	14
2/14-371	2C/14AWG/SYS 1850/600V	600 V	2	14
2/12-402	2C/12AWG/SYS 1850/600V	600 V	2	12
3/12-480	3C/12AWG/SYS 1850/600V	600 V	3	12
4/12-465	4C/12AWG/SYS 1850/600V	600 V	4	12
7/12-543	7C/12AWG/SYS 1850/600V	600 V	7	12
3/10-480	3C/10AWG/SYS 1850/600V	600 V	3	10
4/10-590	4C/10AWG/SYS 1850/600V	600 V	4	10
7/10-621	7C/10AWG/SYS 1850/600V	600 V	7	10

Catalog Number	Item Name	Voltage Rating	Conductor Quantity	AWG Size
1/10-277	1C/10AWG/SYS 1850/600V	600 V	1	10
2/10-449	2C/10AWG/SYS 1850/600V	600 V	2	10
1/8-298	1C/8AWG/SYS 1850/600V	600 V	1	#8
2/8-512	2C/8AWG/SYS 1850/600V	600 V	2	8
3/8-590	3C/8AWG/SYS 1850/600V	600 V	3	8
4/8-590	4C/8AWG/SYS 1850/600V	600 V	4	8
7/8-710	7C/8AWG/SYS 1850/600V	600 V	7	8
1/500-1000	1C/500KCMIL/SYS 1850/600V	600 V	1	500 kcmil
1/6-340	1C/6AWG/SYS 1850/600V	600 V	1	6
2/6-590	2C/6AWG/SYS 1850/600V	600 V	2	6
3/6-621	3C/6AWG/SYS 1850/600V	600 V	3	6
4/6-730	4C/6AWG/SYS 1850/600V	600 V	4	6
1/350-834	1C/350KCMIL/SYS 1850/600V	600 V	1	350 kcmil
1/4-402	1C/4AWG/SYS 1850/600V	600 V	1	4
2/4-684	2C/4AWG/SYS 1850/600V	600 V	2	4
3/4-746	3C/4AWG/SYS 1850/600V	600 V	3	4
1/250-746	1C/250KCMIL/SYS 1850/600V	600 V	1	250 kcmil
1/4/0-684	1C/4/0AWG/SYS 1850/600V	600 V	1	4/0

Catalog Number	Item Name	Voltage Rating	Conductor Quantity	AWG Size
1/2-449	1C/2AWG/SYS 1850/600V	600 V	1	2
2/2-865	2C/2AWG/SYS 1850/600V	600 V	2	2
1/3/0-621	1C/3/0AWG/SYS 1850/600V	600 V	1	3/0
1/1-496	1C/1AWG/SYS 1850/600V	600 V	1	1
2/1-975	2C/1AWG/SYS 1850/600V	600 V	2	1
1/2/0-580	1C/2/0AWG/SYS 1850/600V	600 V	1	2/0
1/1/0-512	1C/1/0AWG/SYS 1850/600V	600 V	1	1/0
1/3-449	1C/3AWG/SYS 1850/600V	600 V	1	3
2/3-768	2C/3AWG/SYS 1850/600V	600 V	2	3
3/3-834	3C/3AWG/SYS 1850/600V	600 V	3	3

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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