

MC2400

MCSCC5S-IK02 (MC2400) Product Test Data



Tested to UL 486A-486B and 486D Standards

Range:#4 -#2AWG

Operating Temperature 90°C

Housing Material: Ryton PPS

Insert Material: 6063 T6 Aluminum

Bushing and O-ring Material: High-Temp. Silicone

Electrical

Current Rating Amperes

UL 486A - 486B / NEC

Copper Conductor

Aluminum Conductor

#2 AWG

130

100

#4 AWG

95

75

Voltage Rating AC/DC

UL486A - 486B

600V

Insulation Resistance

UL 486D

500V DC

Dielectric Withstand Voltage

UL 486D

Volts AC

2,200

Average Assembled Connector Resistance Milliohms

18" #2 AWG Copper Conductor

0.3

18" #2 AWG Aluminum Conductor

0.3

18" #4 AWG Copper Conductor

0.3

18" #4 AWG Aluminum Conductor

0.3

UL Current Cycle Test

UL486A - 486B

500 1 Hour on/1 Hour off Cycles

#2 AWG Al. Conductor

190 Amperes

**Temperature Rise Above Ambient Constant Current
(See Chart Below)**

UL486A - 486B

#2 AWG Copper

44.8°C

112.6 °F

#2 AWG Aluminum

45.9°C

114. 6°F

Direct Burial**UL486D**

Oven conditioned

113 °C 168 Hrs.

Cold Conditioned

-10 °C 2 Hrs.

Impact

1.18" Round Steel Ball dropped from 3' vertical height

Immersion

Immersed to min. depth of 1 ft. below water. 4 hr.

Dielectric withstand (no breakout)

2,200 VAC

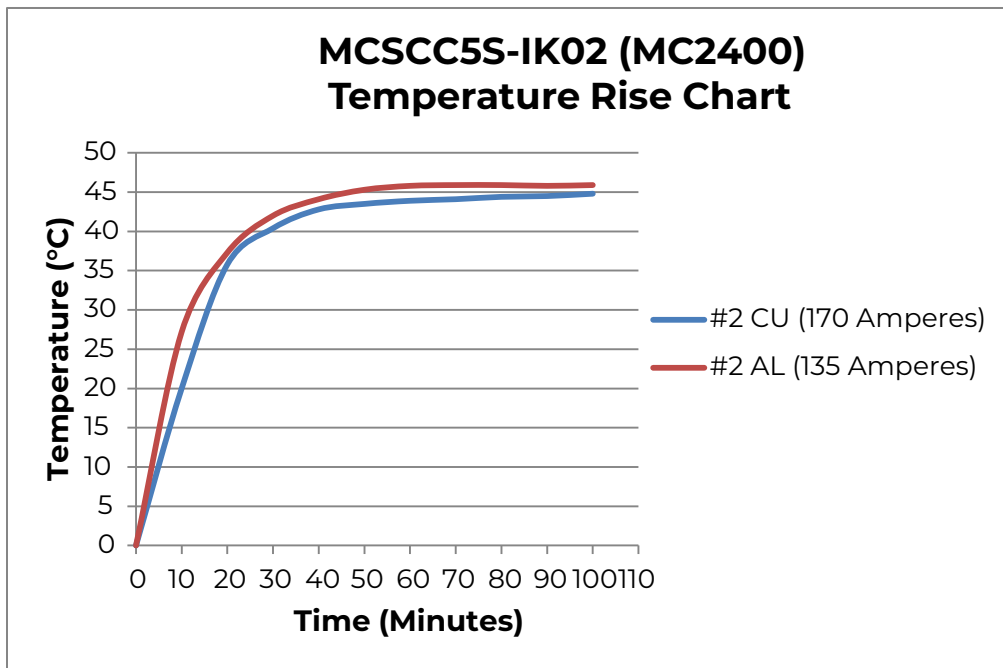
Submersion**UL486D**

Immersion

Immersed to min. depth of 6 ft. below water. 30 min.

Dielectric Withstand (no breakout)

2,200 VAC

Temperature Rise Chart

Note 1: All ampacity ratings are based on the National Electrical Codes Allowable Ampacities of Insulated Conductors Rated 0-2,000 Volts.

Note 2: Correct Torque values must be met; not tightening the connector to the specified value found in the installation instructions may impact the performance.