



“Quality that Connects”®

2017

MCSCC5S-IK02 (MC2400) Product Test Data



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

Range: #4 - #2 AWG

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	UL486A – 486B	
(See Chart Below)		
#2 AWG Copper	44.8°C	112.6°F
#2 AWG Aluminum	45.9°C	114.6°F

Melni Connectors 255 3RD Ave. West Twin Falls, ID 83301

208-736-8266

www.melniconnectors.com

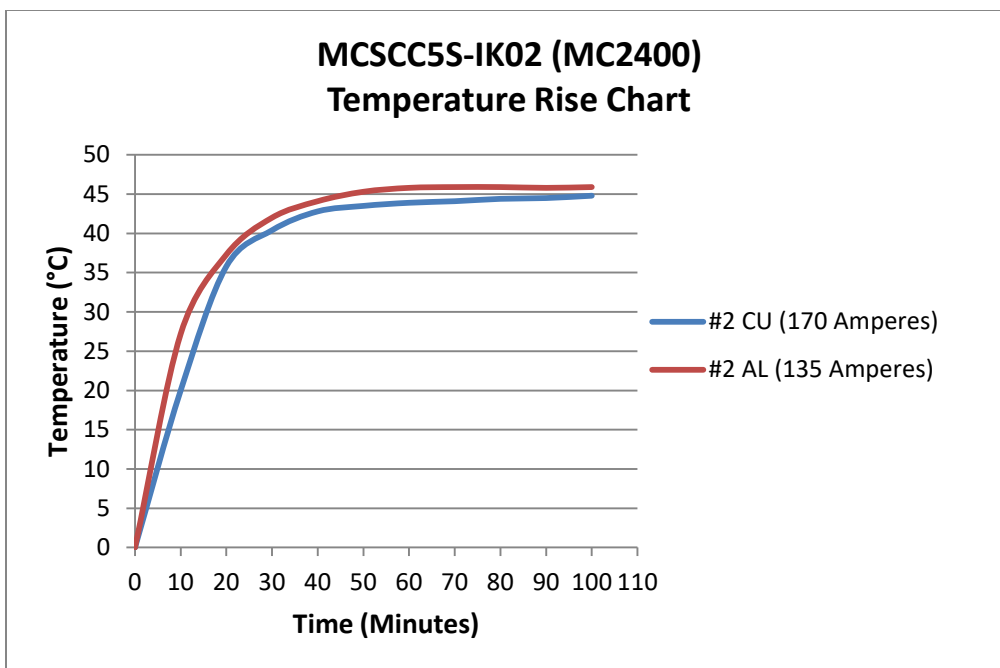


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Direct Burial	UL486D
Oven conditioned	113°C 168 Hrs.
Cold Conditioned	-10°C 2 Hrs.
Impact	1.18” Round Steel Ball dropped from 3’ vertical height
Immersion	Immersed to min. depth of 1 ft. below water. 4 hr.
Dielectric withstand (no breakout)	2,200 VAC
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.

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