



“Quality that Connects”®

2017

MCSCC5S-MN02 (MC1200) Product Test Data



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

Range: 1/0-2/0 AWG

Operating Temperature 90°C

Housing Material: Ryton PPS

Insert Material: 6063 T6 Aluminum

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

<b>Electrical</b>		
<b>Current Rating Amperes</b>	<b>UL 486A – 486B / NEC</b>	
	<b>Copper Conductor</b>	<b>Aluminum Conductor</b>
<b>2/0 AWG</b>	195	150
<b>1/0 AWG</b>	170	135
<b>Voltage Rating AC/DC</b>	<b>UL486A - 486B</b>	
	600V	
<b>Insulation Resistance</b>	<b>UL 486D</b>	
	500V DC	
<b>Dielectric Withstand Voltage</b>	<b>UL 486D</b>	
Volts AC	2,200	
<b>Average Assembled Connector Resistance Milliohms</b>		
18” 2/0 AWG Copper Conductor	0.100	
18” 2/0 AWG Aluminum Conductor	0.100	
18” 1/0 AWG Copper Conductor	0.100	
18” 1/0 AWG Aluminum Conductor	0.100	
<b>UL Current Cycle Test</b>	<b>UL486A – 486B</b>	
500 1 Hour on/ 1 Hour off Cycles		
2/0 AWG Al. Conductor	295 Amperes	
<b>Temperature Rise Above Ambient Constant Current</b>	<b>UL486A – 486B</b>	
<b>(See Chart Below)</b>		
2/0 AWG Copper	38°C	100.4°F
2/0 AWG Aluminum	39.6°C	103.3°F

Melni Connectors 255 3<sup>RD</sup> Ave. West Twin Falls, ID 83301

208-736-8266

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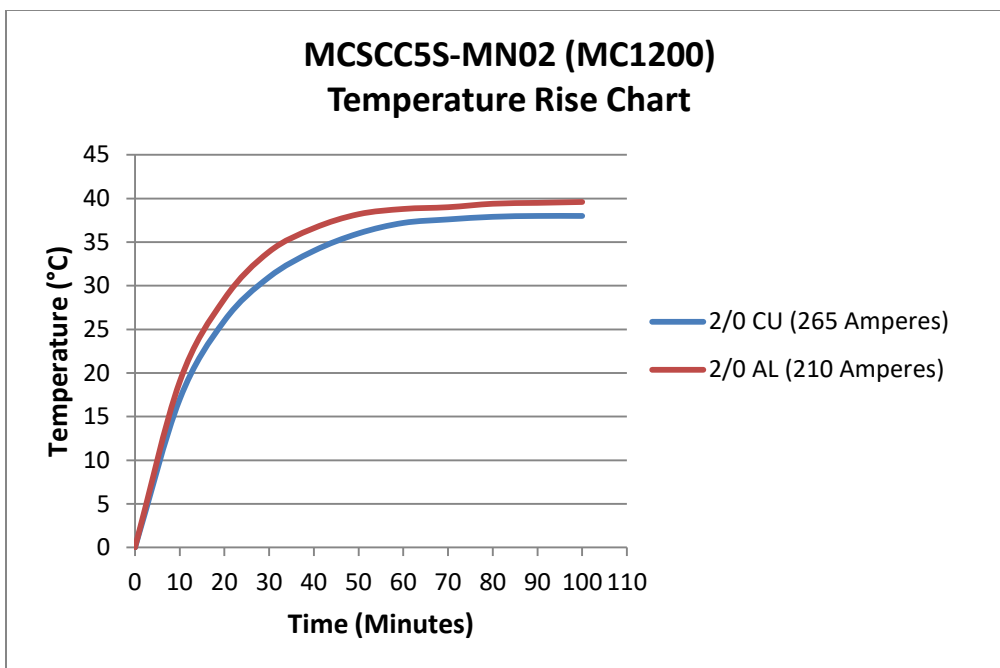


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<b>Direct Burial</b>	<b>UL486D</b>
Oven conditioned	113°C 168 Hrs.
Cold Conditioned	-10°C 2 Hrs.
Impact	1.18” Round Steel Ball dropped from 3’ vertical height
Immersion	Immersed to min. depth of 1 ft. below water. 4 hr.
Dielectric withstand (no breakout)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