

TEST REPORT

Report Reference

74293-M18ONEHCCT60Al

Issue Date 2022/08/04

This is to certify that representative samples when crimped as specified comply with the connector requirements of UL486A-486B for the tests conducted.

[See Page 3 of this report for Test Combinations]

Representative Samples Compression cable lugs, DIN 46329

Compression Connector

Manufacturer

Gustav Klauke GmbH

Milwaukee Tool® Battery-operated Cable Crimper Model M18 **Compression Tool**

ONEHCCT60

Test Conducted by:	Results Reviewed by:	Test Laboratory Manager:
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Robert Barbian	Denise Schwager	Christopher Ritchie
Team Lead Eng. Test Lab	Sr. Regulatory Engineer	Manager Engineering Lab
Date: 2022/08/04	Date: 2022/08/05	Date: 2022/08/05

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Summary

Milwaukee Tool carried out type tests according to UL 486A-486B on compression connectors manufactured by Gustav Klauke GmbH.

Testing was completed in Milwaukee Tool's certified testing laboratory at headquarters in Brookfield, WI.

Test Dates	Test Laboratory	Tests conducted		
2021/07/16- 2021/10/11;	,			
2021/07/23- 2021/10/26; 2022/01/27 – 2022/04/07; 2022/03/18 - 2022/05/04	Milwaukee Tool 13135 W. Lisbon Rd. Brookfield, WI 53005	Current-cycling, UL486A-486B clause 9.2 Static-heating Sequence, UL 486A-486B clause 9.3		

Procedure

A summary of the testing methods are as follows:

Sample Preparation

- Samples of each combination were prepared in accordance to the applicable standard;
- Tool, connector & conductors were prepared according the chart in "Test Combinations";
- Connectors were crimped according to the manufacturers instructions.

Testing

Testing was completed according to UL 486A-486B.

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Test Combinations

Four samples of each test combination were constructed for each test.

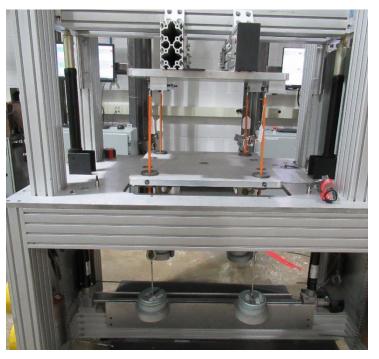
Test	Milwaukee Tool Crimp Tool designation	Klauke Connector designation	Class 2 Aluminum conductor nominal cross-sectional area	Number of crimps
Current- cycling and Static- heating Sequence	Model M18ONEHCCT60	203R10	16 mm²	4
		204R10	25 mm²	4
		206R12	50 mm²	5
		210R20	150 mm²	6
		213R20	300 mm ²	8

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Test Setups



Current-cycling Fixture



Secureness Fixture



Pullout Fixture

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Test Conditions

Manda	Class 2 Aluminum	Current-			
Klauke Connector designation	conductor	cycling	Static-heat	Secureness	Pullout
	nominal cross-	Test Current,	Test Current,	Weight, lb	Force
	sectional area	Α	Α	Weight, ib	applied, lb
203R10	16 mm ²	115	83.5	11.75	57
204R10	25 mm ²	147	105	15	77
206R12	50 mm ²	239	172	25	117
210R20	150 mm ²	486	347	38	270
213R20	300 mm ²	754	536	50	446.5

Results

The results of the testing were considered satisfactory. No connector exceeded 125°C or ± 10 stability factor during the Current-cycling test and all connections were intact and no connector temperature exceeded 50°C during the Static-heat test.

Conclusion

After testing of the compression cable lugs (conductor cross sections 16 mm^2 , 25 mm^2 , 50 mm^2 , 150 mm^2 and 300 mm^2) we declare that the compression cable lugs comply with the connector requirements as specified in UL 486A-486B clauses 9.2 and 9.3.

Attachments

Connector drawing and manufacturers published installation instructions.

- End of Test Report -