

TEST REPORT

Report Reference

74293-M18ONEHCCT60CuEL

Issue Date 2022/09/23

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

Compression Connector

Manufacturer

Elpress

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

ONEHCCT60

Test Conducted by:	Results Reviewed by:	Test Laboratory Manager:
Cobet Bolina	Denise Storage	Aff AR
Robert Barbian	Denise Schwager	Christopher Ritchie
Team Lead Eng. Test Lab	Sr. Regulatory Engineer	Manager Engineering Lab
Date: 2022/9/15	Date: 2022/09/23	Date: 2022/09/23

Report Date: 2022/09/23
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Summary

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

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

Test Dates	Test Laboratory	Tests conducted
2022/06/14, 2022/06/15; 2022/06/17, 2022/06/20, 2022/06/24, 2022/06/30; 2022/06/30; 2022/08/19, 2022/08/25	Milwaukee Tool 13135 W. Lisbon Rd. Brookfield, WI 53005	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.

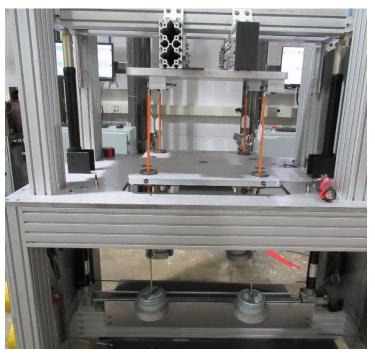
Test	Milwaukee Tool Crimp Tool designation	Elpress Connector designation	Fine Wire Cu Conductor, Class 5 & Class 6	Number	
			nominal cross-sectional area	of crimps	
Static- heating Sequence	Model M18ONEHCCT60	KRF16-12	16 mm²	1	
		KRF50-16	50 mm²	2	
		KRF70-16	70 mm²	2	
		KRF150-20	150 mm²	3	
		KRF300A-24	300 mm ²	4	

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Test Setups



Current-cycling Fixture



Secureness Fixture



Pullout Fixture

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Test Conditions

	Fine Wire Cu			
Elpress	Conductor,			
Connector	Class 5 & Class 6	Secureness	Static-heat	Pullout
designation	nominal cross-sectional	Weight, lb	Test	Force
	area	weight, ib	Current, A	applied, lb
KRF16-12	16 mm ²	22	105	114
KRF50-16	50 mm ²	50	219	234.5
KRF70-16	70 mm ²	51.5	272	307.5
KRF150-20	150 mm ²	76	442	540
KRF300A-24	300 mm ²	100	685	892.5

Results

The results of the testing were considered satisfactory. 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 mm², 50 mm², 70 mm², 150 mm² and 300 mm²) we declare that the compression cable lugs comply with the connector requirements as specified in UL 486A-486B clause 9.3.

Attachment

Connector drawing and installation instructions.

- End of Test Report -