缆慧检测 ISTCW

中国认可
国际互认
检测
TESTING
CNAS L9930

Report No.：TN20-2932 Sample No.：CN20-3231

Contract No.：ISTCW19-1350

Test Report

Consigner	Caledonian Cables Limited 1/F, CMA Building, 64-66 Connaught Road Central, Hong Kong
Sample Name	Copper–Aluminum Connecting Terminal
Type and Size	16mm^2
Kind of test	Commission test
Sample Received Date	July 29th, 2020
Test Duration	July 29th, 2020 – August 18th, 2020
Test Conclusion	The mechanical test of the samples comply with the requirement of IEC61238-1-3: 2018, Class 1.

Authorized by
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16mm²

1 Sample Description

Manufacturer	Caledonian Cables Limited
Type and Size	16mm²
Quantity	3 sets
Marking	DTL–F–16mm²
Color	/
Source	Sent by the consigner
Status	Normal appearance

2 Testing and Verdict Standards

2.1 Testing Standards

IEC 61238-1-3：2018 Compression and mechanical connectors for power cables — Part 1-3: Test methods and requirements for compression and mechanical connectors for power cables for rated voltages above 1kV (U_m=1.2kV) up to 30kV (U_m=36kV) tested on non-insulated conductors

2.2 Verdict Standards

IEC 61238-1-3：2018 Compression and mechanical connectors for power cables — Part 1-3: Test methods and requirements for compression and mechanical connectors for power cables for rated voltages above 1kV (U_m=1.2kV) up to 30kV (U_m=36kV) tested on non-insulated conductors

3 Other Information

3.1 Illustration

The sample's name, type and manufacturer are provided by the consigner.

3.2 Symbol definition

Requirement: / not required by standard

Verdict: P complying with requirement/Pass
F not complying with requirement/Fail
N not required

16mm²

4 Test Item

4.1 Mechanical test

According to IEC 61238-1-3: 2018, clause 7.
Test method: IEC 61238-1-3: 2018, clause 7.2

Test parameters

Total tensile force:	640	N
Load rate:	≤10	N/(s·mm²)
Duration:	1	min

Test Item	Unit	Requirement	Test Result			Verdict
			1#	2#	3#	
- Slippage	mm	≤3	<3	<3	<3	P

16mm²

Appendix A: Conductor structure for the tests and installation information

Appendix A.1 Conductor structure

Nominal section area	Material	Type	Outer diameter	The number of single wires	Structure
16mm²	Al	Compacted circle, stranded	Φ5.0	7	2 layers 1+6

Appendix A.2 Parameters of the pressure clamp

Terminal type & size	Clamp type	Working pressure	Stamper type & size	Diagonal line length	Shape of stamper
16mm²	PP230	230kN	L12	10mm	Hexagon confining pressure

Appendix A.3 Distance between the compressions

There are 1 compression in the center part of the terminal cylinder. The impression width is 26mm. The distance between the impression and the terminal cylinder end is 17mm.

- The End -