



160008220369



报告编号
Reference No



中国认可
国际互认
检测
TESTING
CNAS L0207

CT18-04402

检测报告

Test Report

样品名称
Name of sample

Fire Resisting Databus Cable

样品型号
Type of sample

CALEDONIAN FIRE RESISTANT RS485
RE-m2Y(St)H-FR

委托方
Consigner

CALEDONIAN CABLES LIMITED

试验类型
Kind of test

Commission Test



国家电线电缆质量监督检验中心

CHINA NATIONAL CENTRE FOR QUALITY
SUPERVISION AND TEST OF ELECTRIC WIRE AND CABLE

地址：上海市军工路1000号

电话：021-65494605

传真：021-65490171

报告查询网址：www.ticw.com.cn

电子信箱：ewec@ticw.com.cn

邮编：200093

China National Centre for Quality Supervision and Test of Electric Wire and Cable
Test Report

Page 1 of 3

Kind of test	Commission Test	Reference No.	CT18-04402		
Name of sample	Fire Resisting Databus Cable				
Type and Size	CALEDONIAN FIRE RESISTANT RS485 RE-m2Y(St)H-FR 2P0.5MM2		Date of test	2018-07-11 ~ 2018-08-12	
Consigner	Name	CALEDONIAN CABLES LIMITED			
	Address	1/F, CMA Building, 64-66 Connaught Road Central, Hong Kong			
	Tel.	852 2116-1040	P.C.	/	Unit No. 000266-6
Manufacturer	Name	CALEDONIAN (SHANDONG) CABLES LIMITED			
	Address	NORTHEAST PLANT, INSIDE OF DIANLIU INDUSTRIAL PARK, SHIZI PARK, DONGJIA TOWN, LICHENG DISTRICT, JINAN CITY, SHANDONG PROVINCE			
	Tel.	/	P.C.	/	Unit No. 000266-2
Delivering mode	Supplied by consigner	Sample state at receiving	Normal	Receiving date	2018-07-09
Test standard	See Page 2				
Verdict standard	See Page 2				
Conclusion	The test items of the halogen acid contents of the insulation material and the sheath material comply with the requirements of the technical specification provided by the consigner. The test item of the vertical flame propagation for a single cable complies with the requirements of IEC 60332-1-2:2015. The test item of the smoke density of cable complies with the requirement of IEC 61034-2:2013. The test item of the circuit integrity under fire conditions complies with the requirements of IEC 60331-23:1999.				
Note	<p>1. The sample's name, type and size, the manufacturer's information are provided by the consigner.</p> <p>2. The note required and provided by the consigner: Cable marking: CALEDONIAN DATA CABLE FIRE RESISTANT RS485 RE-m2Y(St)H-FR 2P0.5MM2 CU/MGT/PE/OS/LSZH YR2018 XXXXM</p> <p>3. The test item of the circuit integrity under fire conditions has been carried out at No. 233, Zhenkang Road, Zhangyan Town, Jinshan District, Shanghai.</p>				
Tested by	Chen Zhigang 陈志刚	Checked by	Guo Hanyang 郭海洋	Approved by	Ye Qinghua 叶清华
Date	2018.8.21.	Date	2018.08.22.	Date	2018.8.22

Type and size	CALEDONIAN FIRE RESISTANT RS485 RE-m2Y(St)H-FR 2P0.5MM2	Reference No.	CT18-04402
<p>Test standard:</p> <ol style="list-style-type: none"> 1. IEC 60331-23:1999 Tests for electric cables under fire conditions-Circuit integrity Part 23: Procedures and requirements-Electric data cables 2. IEC 61034-2:2013 Measurement of smoke density of cables burning under defined conditions Part 2: Test procedure and requirements 3. IEC 60332-1-2:2015 Test on electric and optical fiber cables under fire conditions Part 1-2: Test for vertical flame propagation for a single insulated wire or cable Procedure for 1kW pre-mixed flame 4. IEC 60754-1:2011 Test on gases evolved during combustion of materials from cables Part 1: Determination of the halogen acid gas content 			
<p>Verdict standard:</p> <ol style="list-style-type: none"> 1. IEC 60331-23:1999 Tests for electric cables under fire conditions-Circuit integrity Part 23: Procedures and requirements-Electric data cables 2. IEC 61034-2:2013 Measurement of smoke density of cables burning under defined conditions Part 2: Test procedure and requirements 3. IEC 60332-1-2:2015 Test on electric and optical fiber cables under fire conditions Part 1-2: Test for vertical flame propagation for a single insulated wire or cable Procedure for 1kW pre-mixed flame 4. The technical specification provided by the consigner 			

Type and size		CALEDONIAN FIRE RESISTANT RS485 RE-m2Y(St)H-FR 2P0.5MM2		Reference No.	CT18-04402	
No.	Test Items	Unit	Requirements	Test Results	Verdict	
1	Test for vertical flame propagation for a single cable					
	--the distance between the lower edge of the top support and the upper onset of charring	mm	greater than 50	423	P	
	--the distance between the lower edge of the top support and the lower onset of charring	mm	not greater than 540	504	P	
2	Test on gases evolved during combustion of material from cable					
2.1	Insulation material					
	--halogen acid content	%	max. 0.5	≤ 0.5	P	
2.2	Sheath material					
	--halogen acid content	%	max. 0.5	≤ 0.5	P	
3	Measurement of smoke density of cable					
	--minimum light transmittance	%	min. 60	78	P	
4	Test for electric cables under fire conditions-Circuit integrity-Fire alone at a flame temperature of at least 750°C		1) The testing voltage is maintained (2A fuse is not failed)	passed	P	
	1) The test voltage:110V		2) A conductor does not rupture (the lamp is not extinguished)			
	2) The flame application time: 90min					
	3) The cooling period: 15min					
Following blank						

Note: "P" means this item does meet the requirement, "F" means this item does not meet the requirement, "N" means this item does not require to the verdict.