

南洋藤仓
NANYANGFUJIKURA

资质证书 CERTIFICATE



上海南洋 - 藤仓电缆有限公司
Shanghai Nanyang-Fujikura Cable Co., Ltd.

COMPANY PROFILE

公司简介



上海南洋－藤仓电缆有限公司（NFC）成立于1995年10月，是由日本藤仓株式会社和上海南洋电缆厂合资创办，目前隶属于上海起帆电缆股份有限公司，是国家高新技术企业、国家级信用企业，南洋藤仓商标被评为上海市著名商标，公司电线电缆产品被评为上海市名牌产品，研发中心被认定为上海市级企业技术中心。

公司拥有先进的工艺制造装备和全面完善的研发试验设备，通过引进吸收日本藤仓世界领先的电缆制造技术和严格高效的管理模式，专业致力于研发制造装备类电线电缆产品，特别是柔性移动类电线电缆，坚持持续创新，强化试验与检测，拥有十多项

国家发明专利和数十项实用新型专利，参编多项国家和行业标准。

公司主要产品：超多芯超高速电梯电缆、柔性控制电缆、拖链电缆、机器人柔性电缆、耐特殊环境电缆、风能电缆、光伏电缆、电动汽车系统用电线、数据传输与工业网络电缆等，为全球智能装备与新能源产业提供专业化服务。

公司产品不仅能按照中国标准（GB、JB等）、日本标准（JIS、JCS等）和国际电工委员会标准（IEC）生产，也能根据用户要求按照其他国际标准和国外先进标准（如EN、VDE、BS、UL、AS/NZS等）生产。公司产品70%国内销售，30%出口日本、德国、韩国、新加坡、马来西亚、中国香港及美洲地区等。



Shanghai Nanyang-Fujikura Cable Co., Ltd. (NFC) was established in October 1995, formerly as a joint venture between Fujikura Ltd. (Japan) and Shanghai Nanyang Cable Works Co., Ltd. It is now a subsidiary of Shanghai Qifan Cable Co., Ltd. and it is a national high-tech enterprise and a national credit enterprise. NFC rattan trademark has been rated as Shanghai famous trademark; the NFC wire and cable products have been named Shanghai famous brand product; the R&D center has been identified as Shanghai municipal enterprise technology center.

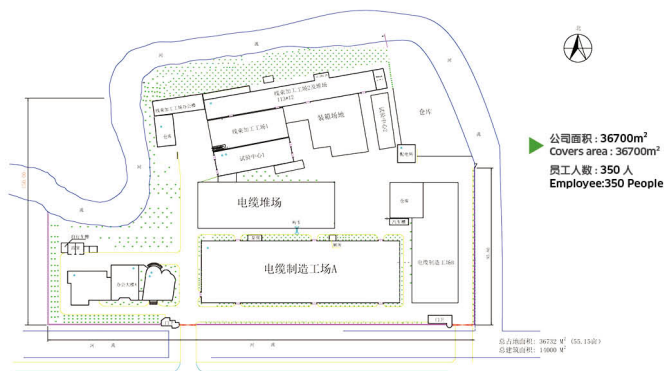
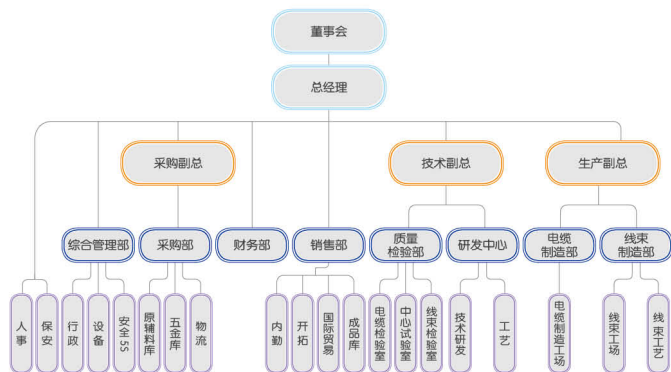
NFC has advanced manufacturing equipment and comprehensive R&D test equipment. By introducing and absorbing Fujikura Japan's world-leading cable manufacturing technology and strict and efficient management model, NFC specializes in development and manufacture of the equipment type of wire and cable products, especially flexible movable wire and cable products. NFC adheres to continuous innovation, strengthens testing and detection, and has more than ten national

invention patents and dozens of utility model patents. NFC has participated in the compilation of multiple national and industry standards.

The main products include ultra-multi-conductor ultra-high-speed elevator cables, flexible control cables, drag chain cables, robot flexible cables, special environments proof cables, wind power cables, photovoltaic cables, electric vehicle systems cables, data transmission and industrial network cables, providing specialized services for global intelligent equipment and new energy industries.

The products can not only be manufactured according to Chinese standards (GB, JB, etc.), Japanese standards (JIS, JCS, etc.), and International Electrotechnical Commission standards (IEC), but can also be produced in accordance with other international standards and advanced foreign standards (EN, VDE, BS, UL, AS/NZS, etc.) based on customer requirements. 70% of our products are sold domestically, while 30% are exported to Japan, Germany, South Korea, Singapore, Malaysia, Hong Kong, China, and the Americas.



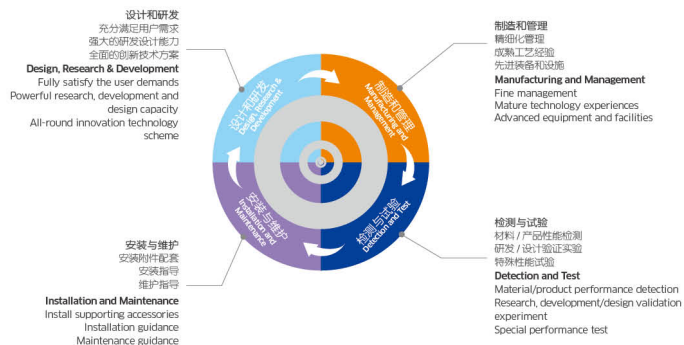


► 专业为客户提供电线电缆全面系统解决方案

——致力于在供给侧为客户提供最优产品、最佳服务和最高效率

Provide Customers with Professional and All-round System Solution of Cables

——Commit itself to providing customers with the most excellent products, the best services and the highest efficiency at the supply side.



PRODUCT 产品系列

新能源产业用电缆

风机抗扭电缆
风机低压汇流电缆
风机控制电缆
风机塔筒电缆
风力发电机托架电缆
光伏系统用电缆
充电电缆

03

工业网络用电缆

超 5 类柔性数据电缆
6 类柔性数据电缆
7 类柔性数据电缆

05

智能装备用电缆

工业布线与电缆
柔性控制电缆
拖链电缆
伺服电缆
编码器电缆
耐特殊环境电缆
卷筒电缆
起重机电缆 \ 吊具电缆
托令电缆 \ 门机电缆
机器人电缆
温度测量电缆

01

轨道车辆电缆

低烟无卤阻燃机车车辆电缆 \ 91
无卤素阻燃 / 挠性 XLPE 绝缘电缆 \ 92

02

工业通信用电缆

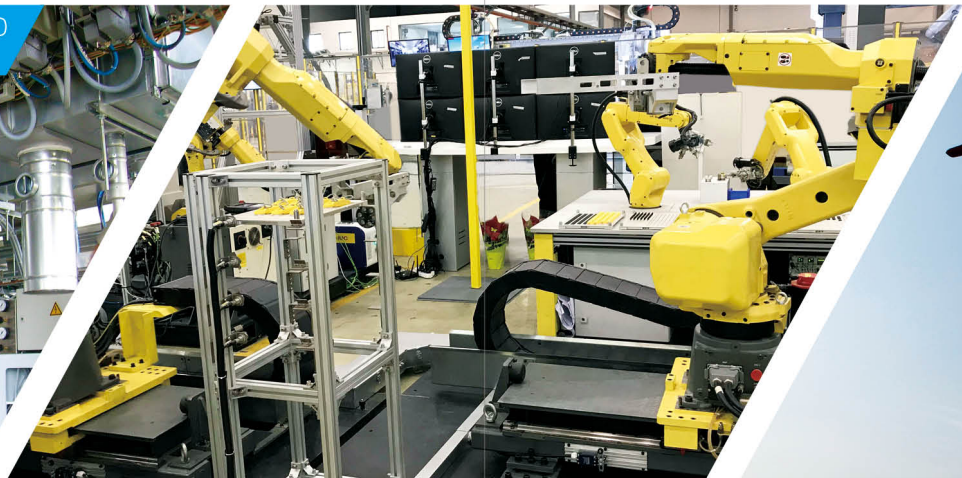
低频数据传输电缆
BUS 总线电缆
RS485 通信电缆

04

CUSTOMERS SERVED
服务客户



工业自动化



智能装备系统



新能源产业



轨道交通车辆



电动汽车·充电桩



机械·冶金·港机

MAJOR CUSTOMERS 公司主要用户

	上海三菱电梯 三菱电机上海机电电梯有限公司 通力电梯有限公司（芬兰） 上海振华重工集团 浦东机场 OTIS 奥的斯电梯 上海发那科机器人有限公司	Mistubishi Long-Term Cooperation Customers Konelong-Term Cooperation Customers Shanghai Zhenhua Heavy Industry Group Pudong Airport Otis elevator Shanghai Fanuc Robot Co. Ltd
	沃尔沃欧亚项目 吉利汽车（余姚，桐乡，张家口，成都，大江东，西安，济南，宁波）等项目 通用五菱改造项目 力帆汽车重庆项目 库卡柔性系统（上海）有限公司 大运汽车（焊装车间）	Volvo Eurasia Project Geely Automobile Wuling GM Lifan Automobile Chongqing Project KUUKA Systems (China) Co., Ltd. Dayun automobile (welding workshop)
	开沃新能源 领途汽车金华项目 长城汽车日照项目 天际汽车长沙项目 合众新能源宜春项目 领跑新能源项目 上汽大众改造项目	Skywell Leading the automotive Jinhua project Great Wall Automobile Tianji Automobile Changsha project Unity of new energy sources Take the lead in new energy projects Shanghai Volkswagen
	南京金龙汽车涂装线耐酸碱耐化学腐蚀性电缆 宝马汽车涂装、除尘等电气设备使用 广东弗森克德伯 上海振华重工集团 基伊埃工程技术（中国）有限公司	Nanjing Jinlong automobile coating special acid, alkali and chemical corrosion resistant cable BMW car glue, dust removal and other electrical equipment Thyssen Krupp Shanghai zhenhua heavy industry group GEA Process Engineering China Limited
	蒙牛乳业（金华）项目 农夫山泉（建德）项目 与集成商合作 库卡，晓奥，迈赫，新燕隆、广州德恒、天脉、天津四院、洛阳飞科、屹丰、长城精工、埃夫特、杭州双益、诺克、南京拓乾、大连德欣、吉林省众城电气、大连奥拓、柯马、成辉宝马、东风装备、巨一等。	Mengniu dairy (Jinhua) project Nongfu spring (Jiande) project Integrator cooperation

COOPERATIVE HOST FACTORY 合作的主机厂



COOPERATIVE HOST FACTORY

主要主机厂使用产品

01

PVC 绝缘 PVC 护套控制电缆
NFC-FLEX 100 300/500V
PVC 绝缘 PVC 护套控制电缆
NFC-FLEX 100 450/750V
PVC 绝缘 PVC 护套控制电缆
NFC-FLEX 110 300/500V
PVC 绝缘 PVC 护套屏蔽控制电缆

03

TPE 绝缘 PUR 护套高柔拖链电缆
NFC-FLEX-FD 855 P 300/500V
TPE 绝缘 PUR 护套屏蔽高柔拖链电缆
NFC-FLEX-FD 855 CP 300/500V
PVC 绝缘 PVC 护套单芯拖链电缆
NFC-FLEX-FD 90 0.6/1kV
PVC 绝缘 PUR 护套多芯拖链电缆
NFC-FLEX-FD 819 P 0.6/1kV
XLPE 绝缘 PVC 护套动力软电缆
NFC 600R 0.6/1kV

05

低烟无卤单芯电缆
H05Z-K 90 300/500V / H07Z-K 450/750V
PVC 绝缘 PVC 护套屏蔽同轴电缆
NFC-FLEX-SERVO 0.6/1kV
特殊绝缘 PVC 护套屏蔽编码器电缆
NFC-FLEX 703 CY 300/500V

02

PVC 绝缘 PVC 护套屏蔽（镀锡铜丝）控制电缆
NFC-FLEX 115 CY 300/500V
PVC 绝缘 PVC 护套屏蔽（铜丝）控制电缆
NFC-FLEX 116 CY 300/500V
PVC 绝缘 PVC 护套控制动力电缆
NFC-FLEX 111 0.6/1kV
PVC 绝缘 PVC 护套高柔拖链电缆
NFC-FLEX-FD 810 300/500V
PVC 绝缘 PVC 护套屏蔽高柔拖链电缆
NFC-FLEX-FD 810 CY 300/500V

04

PVC 绝缘 PVC 护套动力软电缆
NFC 610R 0.6/1kV
PVC 绝缘 PVC 护套屏蔽（镀锡铜丝）动力软电缆
NFC 610RP 0.6/1 k
PVC 绝缘 PVC 护套屏蔽（铜丝）动力软电缆
NFC 710RP 0.6/1kV
单芯软导体无护套电缆
H05V-K 300/500V / H07V-K 450/750V
PVC 绝缘 PVC 耐油护套控制电缆
H05VV5-F 300/500V

QUALIFICATION AND CERTIFICATION

企业资质与认证

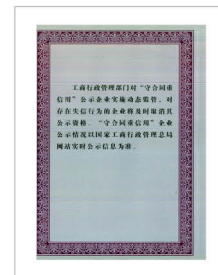
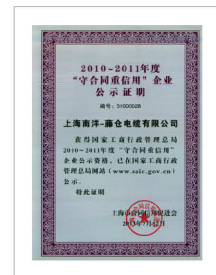
证书名称

Certificate

营业执照	Business license
国家高新技术企业证书	National high-tech enterprise certificate
上海市认定企业技术中心	Shanghai Certified Enterprise Technology Center
上海市著名商标	Certificate of Shanghai Famous Trademark
上海名牌	Certificate of Shanghai Famous Brand
外商投资先进技术企业证书	Certificate of Enterprises with Foreign Investment
国家级高新技术企业证书	Advanced Technology
上海市 AAA 信用证书	Certificate of National Contract Credit Enterprise
海关注册证	Shanghai AAA Credit Certificate
安全生产标准化证书	Customs Registration
	Safety production standardization certificate

工业产品生产许可证（电线电缆）	License for Producing Wire and Cable
中国国家强制性产品 CCC 认证证书	China Compulsory Certification CCC
CE 认证证书	Certificate of CE
UL 认证证书	Certificate of UL
CSA 认证证书	Certificate of CSA
JIS 认证证书	Certificate of JIS
ISO9001 认证证书	Certificate of ISO 9001
ISO14001 认证证书	Certificate of ISO14001
ISO45001 认证证书	Certificate of ISO45001

发明专利证书（11 项）	Patent for invention
实用新型专利证书（30 项）	Utility model patent certificate

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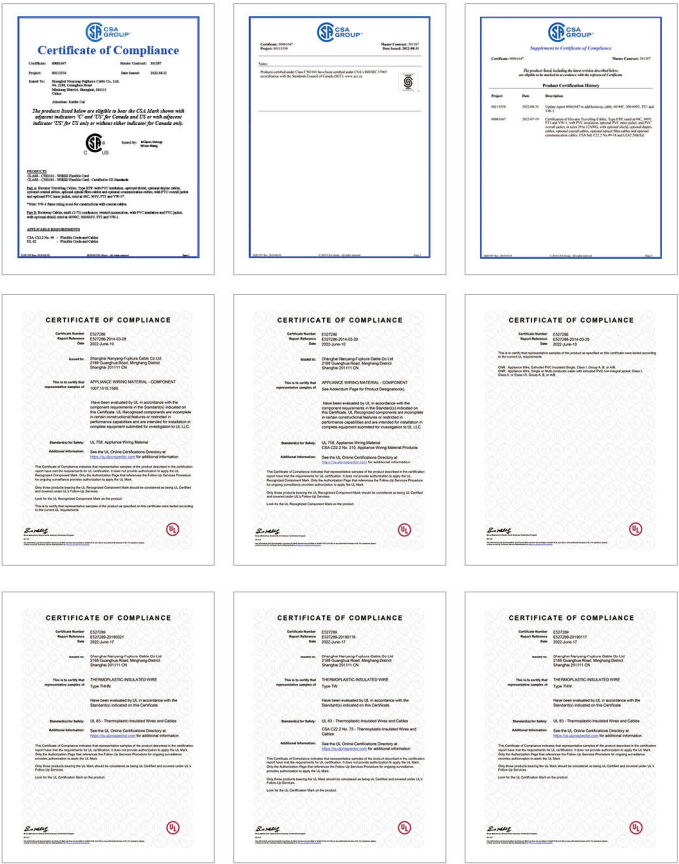
CERTIFICATION CERTIFICATE
认证证书



CERTIFICATION CERTIFICATE
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CERTIFICATION CERTIFICATE
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PATENT CERTIFICATE
专利证书



PATENT CERTIFICATE

专利证书



PATENT CERTIFICATE

专利证书

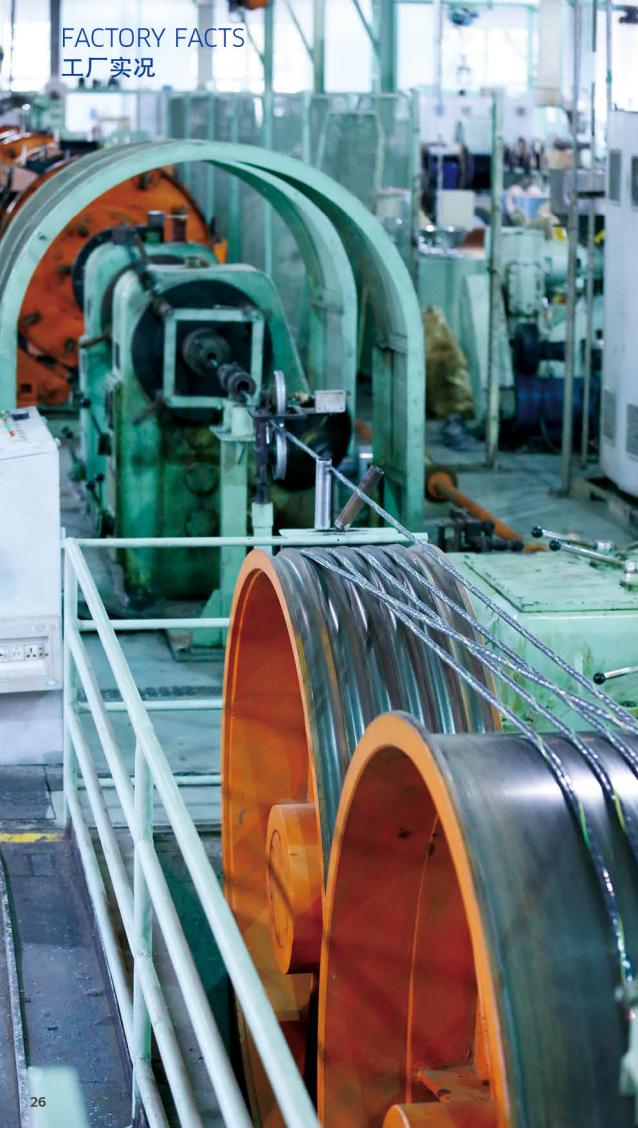


FACTORY FACTS
工厂实况



上图：电缆主工场
下左图：技术研发中心
下中图：综合办公室
下右图：线缆工场





左图：退扭成缆生产线 1

中图：精准张力放线

右上图：线束加工车间

右中图：退扭线缆生产线 2

右下图：退扭线缆生产线 3

TECHNICAL RESEARCH AND
DEVELOPMENT AND TEST DETECTION
技术研发与试验检测



左上图：技术研发中心

中下图：阻燃与卤素测定试验室

右图：升降设备电缆模拟运行试验塔





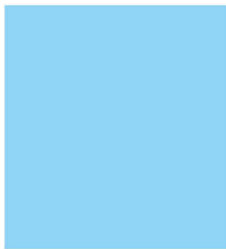
上图：通信传输特性试验
左下图：塑料熔融指数测试
下中图：电缆厚度与偏心检测
下右图：密度精密测量



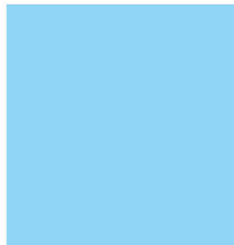
耐火试验



UL 老化试验



试片炼胶



低温老化试验



恒温水浴



GB/IEC/JIS 老化试验



高压试验



-60℃~+50℃环境试验



右上图：通信单元转换
右中图：精密天平
右下图：强度与伸长率检测



在燃烧的情况下，NFC 阻燃电缆可以阻止或延缓火焰发生或蔓延。

In the case of combustion, NFC flame-retardant cable having the ability to prevent or retard the spread of flame or occurrence.

STANDARD: GB/T 19666 GB/T 18380
IEC 60332 JIS C 3005 UL 2556
标准

NFC 阻燃电缆满足 GB/T 18380 及 IEC 60332-3 中阻燃 A/B/C/D 类成束燃烧试验，特性代号分别为 ZA、ZB、ZC 和 ZD；代号 Z 产品通过单根垂直燃烧试验。

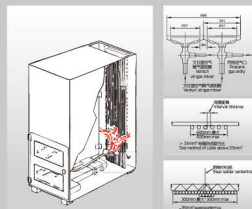
NFC 的 JIS 标准聚氯乙烯护套电缆及阻燃电缆均通过 JIS C 3005 规定的倾斜燃烧试验。

NFC 工业控制电缆系列可满足 UL 2556 规定的 FT1、VW-1 阻燃特性。

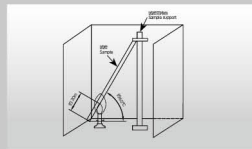
NFC flame-retardant cables meet the requirements of GB/T 18380 and IEC 60332-3 in Category A/Category B/Category C/Category D requirements of test for vertical flame spread of vertically-mounted bunched wires or cables, the characteristics of code were ZA, ZB, ZC and ZD; code Z products pass test for vertical flame propagation for a single insulated wire or cable.

NFC JIS standard PVC sheathed cables and flame-retardant cables are passed through the JIS C 3005 slanting specimen flame test.

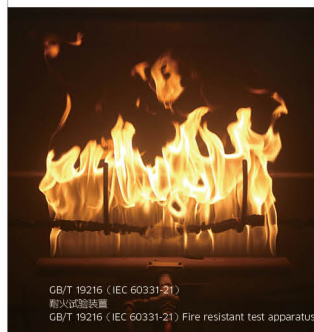
NFC industrial control cable series products can meet the FT1 and VW-1 flame retardant characteristics specified in UL2556



GB/T 18380 (IEC 60332-3) 成束燃烧试验装置
Bundle burning test apparatus



JIS C 3005 倾斜燃烧试验装置
JIS C 3005 Inclined combustion test apparatus



GB/T 19216 (IEC 60331-21)
耐火试验装置
GB/T 19216 (IEC 60331-21) Fire resistant test apparatus

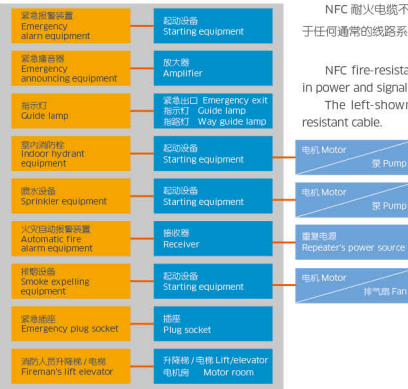
STANDARD: GB/T 19666, GB/T 19216,
IEC 60331-21
标准

在燃烧的情况下，NFC 耐火电缆具有保持线路完整性的能力，给火灾救援和人员疏散提供更充足的时间和条件。满足 GB/T 19216 及 IEC 60331-21 中供火时间 90 分钟、火焰温度不低于 750°C 的试验要求，GB 标准特性代号为 N。

In the case of combustion, NFC fire-resistant cable having the ability to maintain the integrity of the electrical circuit, provide adequate time and conditions for fire rescue and evacuation Meet the GB/T 19216 and IEC 60331-21 test requirements for 90 minutes fire time and the flame temperature not lower than 750°C . GB standard features code is N.

NFC 耐火电缆不仅适用于电力和信号线路中的紧急线路系统，而且也适用于任何通常的线路系统。左图是耐火电缆的主要适用情况。

NFC fire-resistant cables are not only suitable for emergency circuits in power and signal wirings, but also for any general wirings system.
The left-shown are examples of application while using the fire-resistant cable.



▲ 紧急电源
Emergency power source

注：—— 代表耐火电缆 —— Is fire resistant cables



RoHS 实验室
RoHS laboratory

STANDARD RoHS:2011/65/EU & REACH: (EC) No 1907/2006 标准

NFC 坚持环保理念, 除少数产品外, 均执行 RoHS 2.0 指令, 指定产品符合 REACH 指令。

RoHS 2.0: 消除产品中对人体有害的铅、汞、镉、六价铬、多溴联苯, 多溴二苯醚和邻苯类等物质, 符合 2011/65/EU 的要求。

REACH: 对产品中的有害物质进行全面的检测, 旨在保护人类健康和环境安全, 符合 (EC) No 1907/2006 的要求。

NFC adhere to the concept of 2.0 environmental protection, products are implemented ROHS directive, except for a few products. Specifies product complies with the REACH directive.

RoHS 2.0: Eliminate substances such as lead(Pb), mercury(Cd), cadmium(Hg), hexavalent chromium (VI)(Cr6+), polybrominated biphenyls(PBBs) and polybrominated diphenyl ethers (PBDEs) that are harmful to humans. Meet 2011/65 / EU of the requirements.

REACH: Conduct a comprehensive test of hazardous substances in the product, aimed at protecting human health and environmental safety, Meet(EC) No 1907/2006 of the requirements.

RoHS2.0 指令限制物质清单

序号	物质名称	缩写	限量
1	铅	Pb	1000ppm
2	汞	Hg	1000ppm
3	镉	Cd	100ppm
4	六价铬	Cr(VI)	1000ppm
5	多溴联苯	PBBs	1000ppm
6	多溴联苯醚	PBDEs	1000ppm
7	邻苯二甲酸二 (2- 乙基己基) 酯	DEHP	1000ppm
8	邻苯二甲酸甲苯基丁酯	BBP	1000ppm
9	邻苯二甲酸二丁基酯	DBP	1000ppm
10	邻苯二甲酸二异丁酯	DIBP	1000ppm

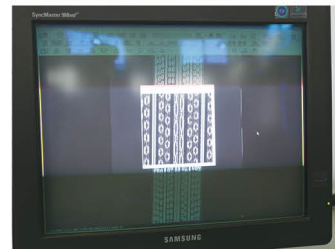


工业 X 光探测实验室
Industrial X-ray detection laboratory

STANDARD: ISO 17636, GB/T3323, ASME-V 标准

NFC 独家采用工业 X 光检测技术, 对柔性移动电缆进行检测与试验, 对缆芯单元的运动位移进行研究和改进。

NFC exclusively uses industrial X-ray detection technology to detect and test flexible mobile cables, and also to conduct researches and improvements on the motion displacement of cable core units.



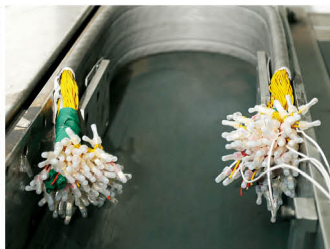


电缆寿命实验室
Cable life lab

STANDARD: IEC 60227 GB/T5023
EN50214 TUV2PFG2577 NFC-QB
标准

NFC 针对不同的柔性电缆，建立对应的寿命试验系统，包括水平加速弯曲、垂直升降弯曲、曲绕、扭转、拖链等寿命试验。

NFC has established corresponding life test systems for different flexible cables, including horizontal accelerated bending, vertical lifting bending, flexure, torsion, drag chain, and other life tests.



拖链试验
Towline test

STANDARD: TUV 2PFG2577/08.16
T/CEEIA446
标准

NFCr 高速拖链电缆寿命试验室，可以对大行程、高速度的拖链电缆进行千万级寿命试验。

NFC has established a high-speed towline cable life test laboratory, which can conduct tens of millions of life tests on cables used for long stroke and high speed drag chains.



起航扬帆，我们相约辉煌



上海南洋 - 藤仓电缆有限公司
Shanghai Nanyang-Fujikura Cable Co., Ltd.

地址：上海市闵行区光华路 2188 号

Address: 2188 Guanghua Road, Minhang District Shanghai

邮编 Zip Code: 201111

电话 Tel: 021-64920958 54980033

传真 Fax: 021-64920968 54980292

<http://www.nfc.sh>

E-mail: sales@nfc.sh