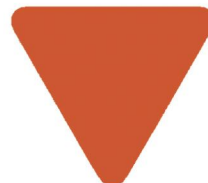




航空航天 电缆产品

PRODUCT
BROCHURE

AEROSPACE CABLES





关于昕讯 About Us

江苏昕讯光电科技有限公司成立于2015年1月，是上海昕讯微波科技有限公司全资子公司。于2019年12月迁址江苏省南通市。

公司专业从事高精密同轴电缆、特种电缆、电缆组件、微波无源器件等产品的生产、研发及销售。

在研发与实验领域公司同样拥有强大的研发与实验实力，公司拥有各类实验室总计5000m²，具有多年的装备研发历史、丰富的制造经验和先进的生产能力。

公司主要产品为高精密同轴电缆、特种电缆、电缆组件、微波无源器件。产品涵盖了军用电子、航空、航天、兵器、船舶及民用通讯领域。

Jiangsu Xinxun Optoelectronic Technology Co., Ltd. was established in January 2015 and is a wholly-owned subsidiary of Shanghai Xinxun Microwave Technology Co., Ltd. Moved to Nantong City, Jiangsu Province in December 2019.

The company specializes in the production, research and development, and sales of high-precision coaxial cables, special cables, cable components, microwave passive devices, and other products.

The company also has strong R&D and experimental capabilities in the field of research and development, with various laboratories totaling 5000m². With years of equipment research and development history, rich manufacturing experience, and advanced production capacity.

The company's main products are high-precision coaxial cables, special cables, cable components, and microwave passive devices. The products cover the fields of military electronics, aviation, aerospace, weapons, ships, and civil communication.



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XFPC系列航空航天用

- 39 交联乙烯-四氟乙烯共聚物绝缘电线电缆**
XFPC series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables

- 77 1553B数据总线电缆**
1553B Data bus cable



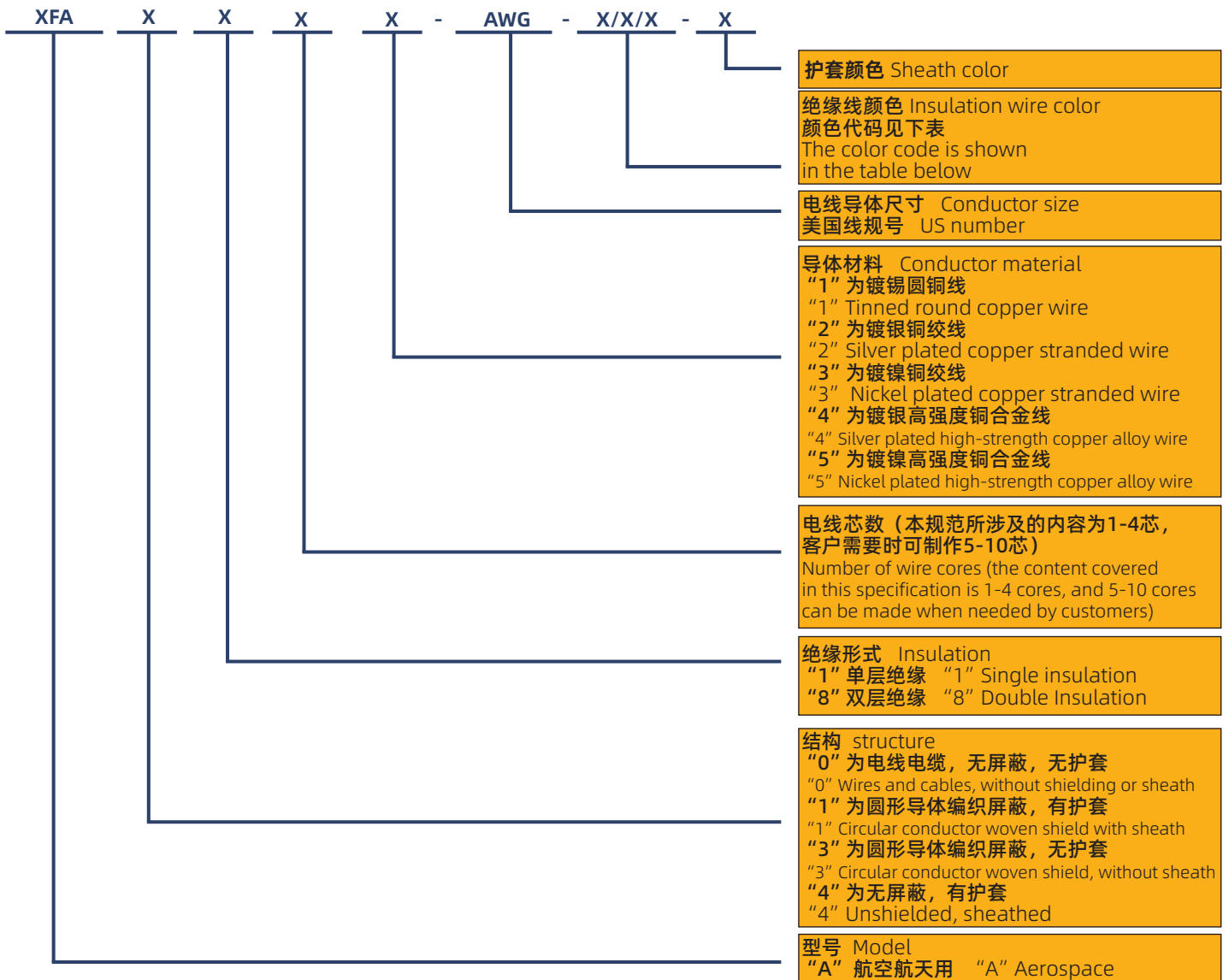
主要特性参数

Main characteristic parameters

电性能 Electrical performance	
绝缘电阻/Insulation resistance (MΩ·km)	>1500 (AWG32 ~ AWG9)
	>900 (AWG8 ~ AWG0000)
绝缘表面电阻/Insulation surface resistance (MΩ·mm)	>1.3×10 ⁴
机械性能 Mechanical properties	
抗张强度/tensile strength (MPa)	≥34.5
绝缘伸长率/Insulation elongation (%)	≥75
护套伸长率/Sheath elongation (%)	≥50
阻燃性能 Flame retardant performance	
延燃时间/Combustion extension time (S)	≤3 (电线/wire)、≤30 (电缆/cable)
燃烧长度/Burning length (mm)	≤76
温度特性 Temperature characteristic	
交联度验证/Crosslinking degree verification (300±3℃、7h)	√
低温弯曲试验/Low temperature bending test (-65±3℃、4h)	√
绝缘层伸缩试验/Insulation layer expansion test (230±3℃、6h) (mm)	< 3.2
耐热冲击性/thermal shock resistance (200±3℃~-65±3℃、四个循环/Four cycles) (mm)	< 1.5
老化试验/Ageing test (230±3℃、500h)	√
高温卷绕试验/High temperature winding test (313±3℃、2h)	√
化学性能 CHEMICAL	
吸水率/Absorption (%)	< 0.03
水解稳定性/HYDROLYTIC STABILITY	不水解/Not hydrolyzed
浸液试验/Immersion test	√
其它环境性能 Color Code Comparison Table	
冒烟/Smoking (250±5℃、15min)	√
粘连试验/Adhesion test (230±3℃、24h)	√
潮湿试验/Moisture test (15次循环/15 Four cycles、360h)	√

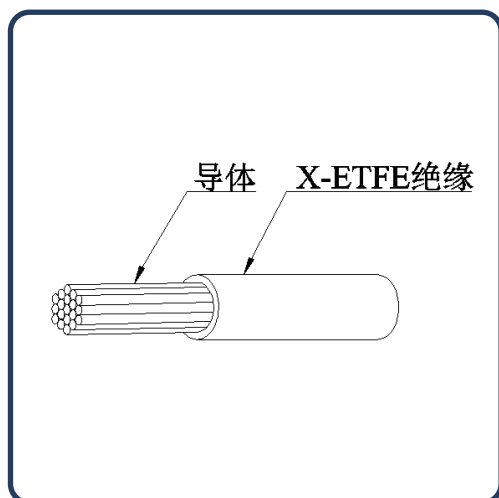
产品型号规格命名方法

Naming method for product models and specifications



颜色代码对照表 Color Code Comparison Table

颜色Color	黑/Black	棕/Brown	红/Red	橙/Orange	黄/Yellow	绿/Green	蓝/Bue	紫/Purple	灰/Grey	白/White
颜色标识数字代码 Color identification number code	0	1	2	3	4	5	6	7	8	9
色带标识数字代码 Color Band Identification Number Code	90	91	92	93	94	95	96	97	98	—



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The insulation of XFA series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables can be divided into single-layer insulation structure and double-layer insulation structure. Single layer insulation structure is most suitable for areas that require space conservation and weight reduction; The double-layer insulation structure is designed to meet its strength requirements to prevent damage caused by mechanical wear during installation. The inner insulation and outer insulation are distinguished by different colors in priority.

型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFA0111	XFA0811	镀锡 Tin-plating
XFA0112	XFA0812	镀银 Silver plating
XFA0113	XFA0813	镀镍 Nickel Plating
XFA0114	XFA0814	镀银铜合金 Silver plated copper alloy
XFA0115	XFA0815	镀镍铜合金 Nickel plated copper alloy

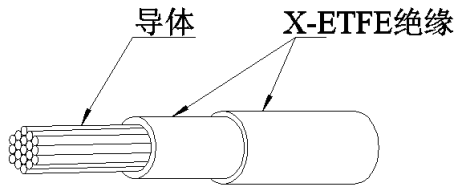
型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径标称值 Nominal value of finished outer diameter (mm)	最大重量 Maximum Weight (kg/km)
XFA011*-32-★	0.035	7/0.08	0.55	0.72
XFA011*-30-★	0.06	7/0.102 (7/0.10)	0.61	0.98
XFA011*-28-★	0.08	7/0.127 (7/0.12)	0.69	1.35
XFA011*-26-★	0.14	19/0.102 (19/0.10)	0.81	2.08
XFA011*-24-★	0.20	19/0.127(19/0.12)	0.94	2.98
XFA011*-22-★	0.35	19/0.16	1.09	4.17
XFA011*-20-★	0.50	19/0.203(19/0.20)	1.27	6.40
XFA011*-19-★	0.75	19/0.227(19/0.23)	1.45	8.59
XFA011*-18-★	1.00	19/0.254(19/0.26)	1.52	9.67
XFA011*-16-★	1.20	19/0.287(19/0.28)	1.73	12.35
XFA011*-15-★	1.50	19/0.32	1.96	16.20
XFA011*-14-★	2.00	19/0.361(19/0.36)	2.16	19.35
XFA011*-13-★	2.50	37/0.30	2.54	27.4
XFA011*-12-★	3.00	37/0.32	2.62	29.32
XFA011*-10-★	5.00	37/0.404(37/0.40)	3.25	47.32

产品型号规格命名方法

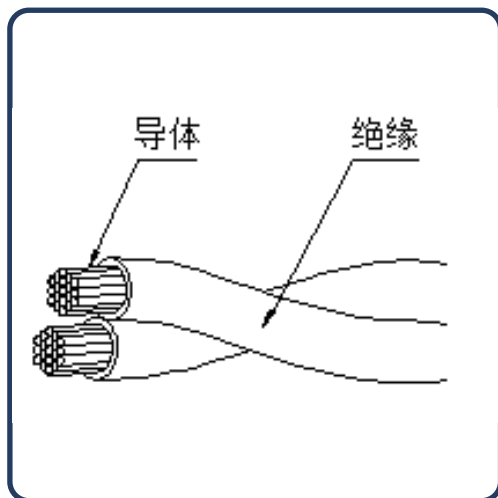
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型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径标称值 Nominal value of finished outer diameter (mm)	最大重量 Maximum Weight (kg/km)
XFA081*-32-★	0.035	7/0.08	0.74	1.07
XFA081*-30-★	0.06	7/0.102 (7/0.10)	0.80	1.35
XFA081*-28-★	0.08	7/0.127 (7/0.12)	0.86	1.71
XFA081*-26-★	0.14	19/0.102 (19/0.10)	1.02	2.53
XFA081*-24-★	0.20	19/0.127 (19/0.12)	1.14	3.42
XFA081*-22-★	0.35	19/0.16	1.27	4.76
XFA081*-20-★	0.50	19/0.203(19/0.20)	1.47	6.99
XFA081*-19-★	0.75	19/0.227(19/0.23)	1.71	9.60
XFA081*-18-★	1.00	19/0.254(19/0.26)	1.78	10.71
XFA081*-16-★	1.20	19/0.287(19/0.28)	1.96	13.39
XFA081*-15-★	1.50	19/0.32	2.22	18.30
XFA081*-14-★	2.00	19/0.361(19/0.36)	2.39	20.54
XFA081*-13-★	2.50	37/0.30	2.72	28.90
XFA081*-12-★	3.00	37/0.32	2.82	31.50
XFA081*-11-★	4.00	37/0.37	3.21	43.60
XFA081*-10-★	5.00	37/0.404 (37/0.40)	3.40	48.22
XFA081*-9-★	6.00	37/0.455 (37/0.45)	3.97	65.00
XFA081*-8-★	8.00	133/0.287(133/0.29)	4.95	89.74
XFA081*-7-★	10.00	133/0.32	5.66	113.00
XFA081*-6-★	13.00	133/0.361(133/0.36)	6.12	140.63
XFA081*-5-★	16.00	133/0.39	7.15	175.00
XFA081*-4-★	20.00	133/0.455(133/0.45)	7.87	223.23
XFA081*-2-★	33.00	665/0.254	10.36	370.56
XFA081*-1-★	45.00	817/0.254	11.94	483.66
XFA081*-0-★	55.00	1045/0.254	12.95	569.98
XFA081*-00-★	70.00	1330/0.254	14.48	744.09
XFA081*-000-★	85.00	1665/0.254	15.49	883.98
XFA081*-0000-★	110.00	2109/0.254	17.15	1110.19



产品型号规格命名方法

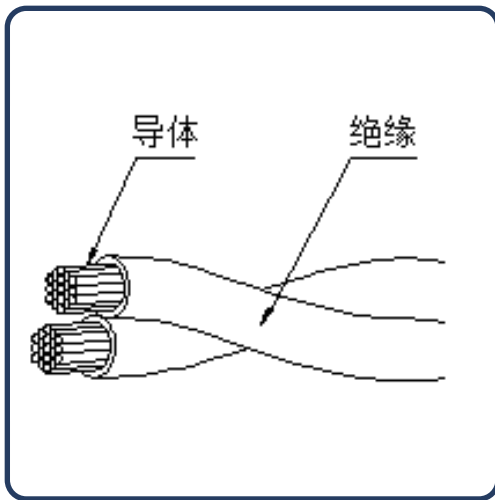
Naming method for product models and specifications

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型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFA0121	XFA0821	镀锡 Tin-plating
XFA0122	XFA0822	镀银 Silver plating
XFA0123	XFA0823	镀镍 Nickel Plating
XFA0124	XFA0824	镀银铜合金 Silver plated copper alloy
XFA0125	XFA0825	镀镍铜合金 Nickel plated copper alloy

型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFA012*-32-★/★	0.035	7/0.08	1.20	1.47
XFA012*-30-★/★	0.06	7/0.102 (7/0.10)	1.32	2.00
XFA012*-28-★/★	0.08	7/0.127 (7/0.12)	1.48	2.75
XFA012*-26-★/★	0.14	19/0.102 (19/0.10)	1.72	4.24
XFA012*-24-★/★	0.20	19/0.127(19/0.12)	1.98	6.08
XFA012*-22-★/★	0.35	19/0.16	2.28	8.51
XFA012*-20-★/★	0.50	19/0.203(19/0.20)	2.64	13.06
XFA012*-19-★/★	0.75	19/0.227(19/0.23)	3.00	17.52
XFA012*-18-★/★	1.00	19/0.254(19/0.26)	3.14	19.73
XFA012*-16-★/★	1.20	19/0.287(19/0.28)	3.56	25.19
XFA012*-15-★/★	1.50	19/0.32	4.08	33.05
XFA012*-14-★/★	2.00	19/0.361(19/0.36)	4.48	39.47
XFA012*-13-★/★	2.50	37/0.30	5.24	55.90
XFA012*-12-★/★	3.00	37/0.32	5.40	59.81
XFA012*-10-★/★	5.00	37/0.404(37/0.40)	6.80	96.53



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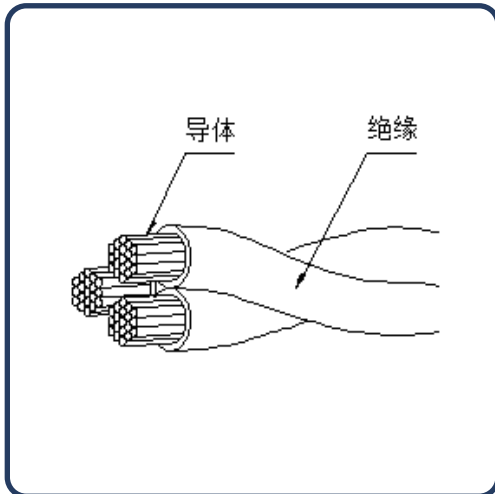
型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFA082*-32-★/★	0.035	7/0.08	1.58	2.18
XFA082*-30-★/★	0.06	7/0.102 (7/0.10)	1.70	2.75
XFA082*-28-★/★	0.08	7/0.127 (7/0.12)	1.82	3.49
XFA082*-26-★/★	0.14	19/0.102 (19/0.10)	2.14	5.16
XFA082*-24-★/★	0.20	19/0.127 (19/0.12)	2.38	6.98
XFA082*-22-★/★	0.35	19/0.16	2.64	9.71
XFA082*-20-★/★	0.50	19/0.203(19/0.20)	3.04	14.26
XFA082*-19-★/★	0.75	19/0.227(19/0.23)	3.52	19.58
XFA082*-18-★/★	1.00	19/0.254(19/0.26)	3.72	21.85
XFA082*-16-★/★	1.20	19/0.287(19/0.28)	4.08	27.32
XFA082*-15-★/★	1.50	19/0.32	4.60	37.33
XFA082*-14-★/★	2.00	19/0.361(19/0.36)	4.94	41.90
XFA082*-13-★/★	2.50	37/0.30	5.60	58.96
XFA082*-12-★/★	3.00	37/0.32	5.80	64.26
XFA082*-11-★/★	4.00	37/0.37	6.62	88.94
XFA082*-10-★/★	5.00	37/0.404 (37/0.40)	7.00	98.37

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型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFA0131	XFA0831	镀锡 Tin-plating
XFA0132	XFA0832	镀银 Silver plating
XFA0133	XFA0833	镀镍 Nickel Plating
XFA0134	XFA0834	镀银铜合金 Silver plated copper alloy
XFA0135	XFA0835	镀镍铜合金 Nickel plated copper alloy

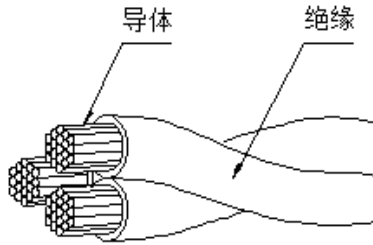
型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFA013*-32-★/★/★	0.035	7/0.08	1.30	2.20
XFA013*-30-★/★/★	0.06	7/0.102 (7/0.10)	1.43	3.00
XFA013*-28-★/★/★	0.08	7/0.127 (7/0.12)	1.60	4.13
XFA013*-26-★/★/★	0.14	19/0.102 (19/0.10)	1.86	6.36
XFA013*-24-★/★/★	0.20	19/0.127(19/0.12)	2.14	9.12
XFA013*-22-★/★/★	0.35	19/0.16	2.46	12.76
XFA013*-20-★/★/★	0.50	19/0.203(19/0.20)	2.85	19.58
XFA013*-19-★/★/★	0.75	19/0.227(19/0.23)	3.24	26.29
XFA013*-18-★/★/★	1.00	19/0.254(19/0.26)	3.39	29.59
XFA013*-16-★/★/★	1.20	19/0.287(19/0.28)	3.84	37.79
XFA013*-15-★/★/★	1.50	19/0.32	4.41	49.57
XFA013*-14-★/★/★	2.00	19/0.361(19/0.36)	4.84	59.21
XFA013*-13-★/★/★	2.50	37/0.30	5.66	83.84
XFA013*-12-★/★/★	3.00	37/0.32	5.83	89.72
XFA013*-10-★/★/★	5.00	37/0.404(37/0.40)	7.34	144.8

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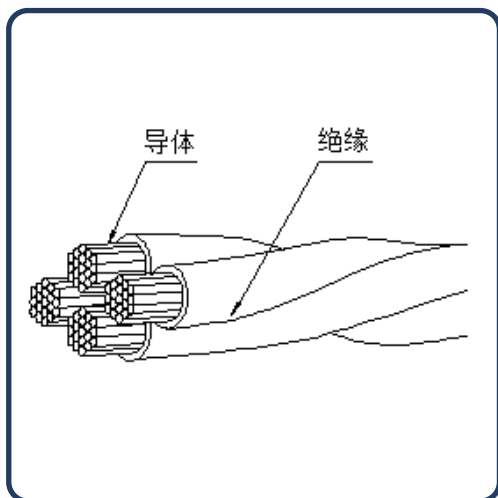
型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFA083*-32-★/★/★	0.035	7/0.08	1.71	3.27
XFA083*-30-★/★/★	0.06	7/0.102 (7/0.10)	1.84	4.13
XFA083*-28-★/★/★	0.08	7/0.127 (7/0.12)	1.97	5.23
XFA083*-26-★/★/★	0.14	19/0.102 (19/0.10)	2.31	7.74
XFA083*-24-★/★/★	0.20	19/0.127 (19/0.12)	2.57	10.47
XFA083*-22-★/★/★	0.35	19/0.16	2.85	14.57
XFA083*-20-★/★/★	0.50	19/0.203(19/0.20)	3.28	21.39
XFA083*-19-★/★/★	0.75	19/0.227(19/0.23)	3.80	29.38
XFA083*-18-★/★/★	1.00	19/0.254(19/0.26)	4.02	32.77
XFA083*-16-★/★/★	1.20	19/0.287(19/0.28)	4.41	40.97
XFA083*-15-★/★/★	1.50	19/0.32	4.97	56.00
XFA083*-14-★/★/★	2.00	19/0.361(19/0.36)	5.34	62.85
XFA083*-13-★/★/★	2.50	37/0.30	6.05	88.43
XFA083*-12-★/★/★	3.00	37/0.32	6.26	96.39
XFA083*-11-★/★/★	4.00	37/0.37	7.15	133.42
XFA083*-10-★/★/★	5.00	37/0.404 (37/0.40)	7.56	147.55

产品型号规格命名方法

Naming method for product models and specifications

XFA系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆的绝缘分单层绝缘结构和双层绝缘结构。单层绝缘结构最适用于需要节约空间和减轻重量的地方；双层绝缘结构是为了符合其强度的要求以防止在安装时机械磨损引起的损坏而设计的，内层绝缘与外层绝缘优先用不同的颜色区分。

The insulation of XFA series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables can be divided into single-layer insulation structure and double-layer insulation structure. Single layer insulation structure is most suitable for areas that require space conservation and weight reduction; The double-layer insulation structure is designed to meet its strength requirements to prevent damage caused by mechanical wear during installation. The inner insulation and outer insulation are distinguished by different colors in priority.



型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFA0141	XFA0841	镀锡 Tin-plating
XFA0142	XFA0842	镀银 Silver plating
XFA0143	XFA0843	镀镍 Nickel Plating
XFA0144	XFA0844	镀银铜合金 Silver plated copper alloy
XFA0145	XFA0845	镀镍铜合金 Nickel plated copper alloy

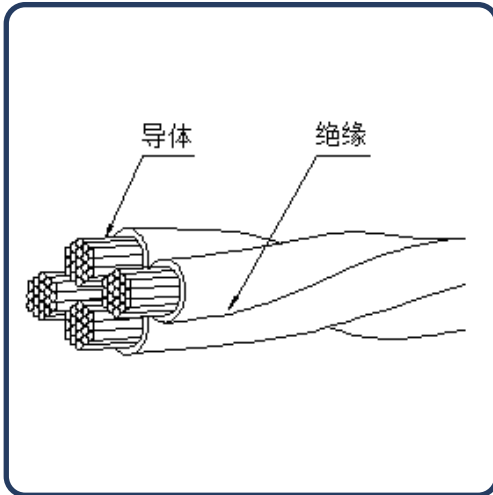
型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✂ Finished product outer diameter value✂ (mm)	最大重量 Maximum Weight (kg/km)
XFA014*-32-★/★/★/★	0.035	7/0.08	1.64	2.94
XFA014*-30-★/★/★/★	0.06	7/0.102 (7/0.10)	1.80	4.00
XFA014*-28-★/★/★/★	0.08	7/0.127 (7/0.12)	2.02	5.51
XFA014*-26-★/★/★/★	0.14	19/0.102 (19/0.10)	2.35	8.49
XFA014*-24-★/★/★/★	0.20	19/0.127(19/0.12)	2.70	12.16
XFA014*-22-★/★/★/★	0.35	19/0.16	3.11	17.01
XFA014*-20-★/★/★/★	0.50	19/0.203(19/0.20)	3.60	26.11
XFA014*-19-★/★/★/★	0.75	19/0.227(19/0.23)	4.10	35.05
XFA014*-18-★/★/★/★	1.00	19/0.254(19/0.26)	4.29	39.45
XFA014*-16-★/★/★/★	1.20	19/0.287(19/0.28)	4.86	50.39
XFA014*-15-★/★/★/★	1.50	19/0.32	5.57	66.10
XFA014*-14-★/★/★/★	2.00	19/0.361(19/0.36)	6.12	78.95
XFA014*-13-★/★/★/★	2.50	37/0.30	7.15	111.79
XFA014*-12-★/★/★/★	3.00	37/0.32	7.37	119.63
XFA014*-10-★/★/★/★	5.00	37/0.404(37/0.40)	9.28	193.07

产品型号规格命名方法

Naming method for product models and specifications

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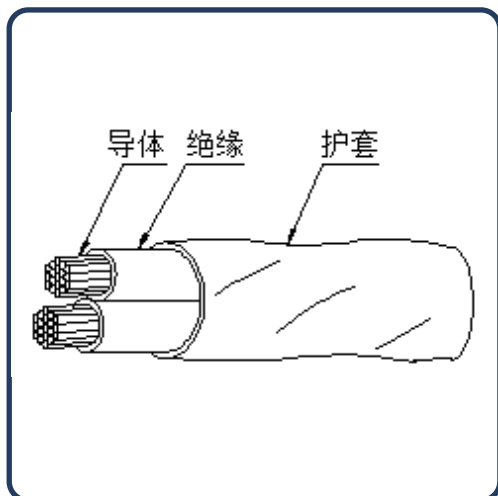
型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFA084*-32-★/★/★/★	0.035	7/0.08	2.16	4.37
XFA084*-30-★/★/★/★	0.06	7/0.102 (7/0.10)	2.32	5.51
XFA084*-28-★/★/★/★	0.08	7/0.127 (7/0.12)	2.48	6.98
XFA084*-26-★/★/★/★	0.14	19/0.102 (19/0.10)	2.92	10.32
XFA084*-24-★/★/★/★	0.20	19/0.127 (19/0.12)	3.25	13.95
XFA084*-22-★/★/★/★	0.35	19/0.16	3.60	19.42
XFA084*-20-★/★/★/★	0.50	19/0.203(19/0.20)	4.15	28.52
XFA084*-19-★/★/★/★	0.75	19/0.227(19/0.23)	4.80	39.17
XFA084*-18-★/★/★/★	1.00	19/0.254(19/0.26)	5.08	43.70
XFA084*-16-★/★/★/★	1.20	19/0.287(19/0.28)	5.57	54.63
XFA084*-15-★/★/★/★	1.50	19/0.32	6.28	74.66
XFA084*-14-★/★/★/★	2.00	19/0.361(19/0.36)	6.74	83.80
XFA084*-13-★/★/★/★	2.50	37/0.30	7.64	117.91
XFA084*-12-★/★/★/★	3.00	37/0.32	7.92	128.52
XFA084*-11-★/★/★/★	4.00	37/0.37	9.04	177.89
XFA084*-10-★/★/★/★	5.00	37/0.404 (37/0.40)	9.56	196.74

产品型号规格命名方法

Naming method for product models and specifications

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The insulation of XFA series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables can be divided into single-layer insulation structure and double-layer insulation structure. Single layer insulation structure is most suitable for areas that require space conservation and weight reduction; The double-layer insulation structure is designed to meet its strength requirements to prevent damage caused by mechanical wear during installation. The inner insulation and outer insulation are distinguished by different colors in priority.



型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFA4121	XFA4821	镀锡 Tin-plating
XFA4122	XFA4822	镀银 Silver plating
XFA4123	XFA4823	镀镍 Nickel Plating
XFA4124	XFA4824	镀银铜合金 Silver plated copper alloy
XFA4125	XFA4825	镀镍铜合金 Nickel plated copper alloy

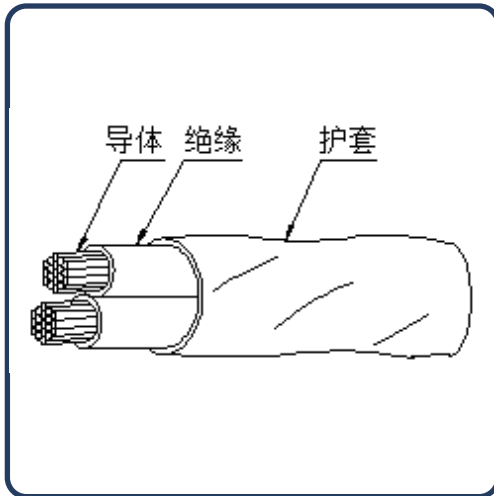
型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFA412*-32-★/★-★	0.035	7/0.08	1.70	3.28
XFA412*-30-★/★-★	0.06	7/0.102 (7/0.10)	1.82	3.92
XFA412*-28-★/★-★	0.08	7/0.127 (7/0.12)	1.98	4.88
XFA412*-26-★/★-★	0.14	19/0.102 (19/0.10)	2.16	6.47
XFA412*-24-★/★-★	0.20	19/0.127(19/0.12)	2.42	8.59
XFA412*-22-★/★-★	0.35	19/0.16	2.72	11.57
XFA412*-20-★/★-★	0.50	19/0.203(19/0.20)	3.14	16.59
XFA412*-19-★/★-★	0.75	19/0.227(19/0.23)	3.50	21.50
XFA412*-18-★/★-★	1.00	19/0.254(19/0.26)	3.62	23.92
XFA412*-16-★/★-★	1.20	19/0.287(19/0.28)	4.00	29.84
XFA412*-15-★/★-★	1.50	19/0.32	4.66	39.18
XFA412*-14-★/★-★	2.00	19/0.361(19/0.36)	4.88	45.53
XFA412*-13-★/★-★	2.50	37/0.30	5.56	63.32
XFA412*-12-★/★-★	3.00	37/0.32	5.96	69.53
XFA412*-10-★/★-★	5.00	37/0.404(37/0.40)	7.28	108.28

产品型号规格命名方法

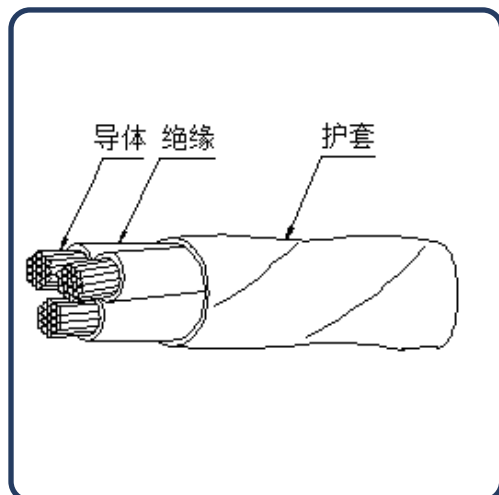
Naming method for product models and specifications

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型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFA482*-32-★/★-★	0.035	7/0.08	2.10	4.52
XFA482*-30-★/★-★	0.06	7/0.102 (7/0.10)	2.22	5.24
XFA482*-28-★/★-★	0.08	7/0.127 (7/0.12)	2.34	6.12
XFA482*-26-★/★-★	0.14	19/0.102 (19/0.10)	2.66	8.20
XFA482*-24-★/★-★	0.20	19/0.127 (19/0.12)	2.90	10.31
XFA482*-22-★/★-★	0.35	19/0.16	3.16	13.37
XFA482*-20-★/★-★	0.50	19/0.203(19/0.20)	3.56	18.42
XFA482*-19-★/★-★	0.75	19/0.227(19/0.23)	4.04	24.34
XFA482*-18-★/★-★	1.00	19/0.254(19/0.26)	4.24	26.86
XFA482*-16-★/★-★	1.20	19/0.287(19/0.28)	4.68	33.68
XFA482*-15-★/★-★	1.50	19/0.32	5.20	44.44
XFA482*-14-★/★-★	2.00	19/0.361(19/0.36)	5.54	49.50
XFA482*-13-★/★-★	2.50	37/0.30	6.32	69.33
XFA482*-12-★/★-★	3.00	37/0.32	6.52	74.98
XFA482*-11-★/★-★	4.00	37/0.37	7.34	101.09
XFA482*-10-★/★-★	5.00	37/0.404 (37/0.40)	7.72	111.17



产品型号规格命名方法

Naming method for product models and specifications

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The insulation of XFA series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables can be divided into single-layer insulation structure and double-layer insulation structure. Single layer insulation structure is most suitable for areas that require space conservation and weight reduction; The double-layer insulation structure is designed to meet its strength requirements to prevent damage caused by mechanical wear during installation. The inner insulation and outer insulation are distinguished by different colors in priority.

型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFA4131	XFA4831	镀锡 Tin-plating
XFA4132	XFA4832	镀银 Silver plating
XFA4133	XFA4833	镀镍 Nickel Plating
XFA4134	XFA4834	镀银铜合金 Silver plated copper alloy
XFA4135	XFA4835	镀镍铜合金 Nickel plated copper alloy

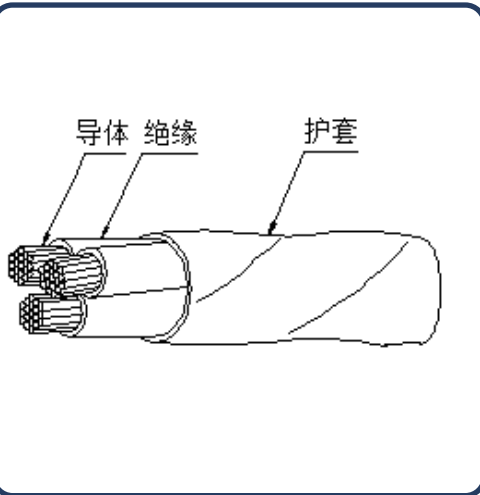
型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFA413*-32-★/★/★-★	0.035	7/0.08	1.82	4.31
XFA413*-30-★/★/★-★	0.06	7/0.102 (7/0.10)	1.95	5.28
XFA413*-28-★/★/★-★	0.08	7/0.127 (7/0.12)	2.12	6.65
XFA413*-26-★/★/★-★	0.14	19/0.102 (19/0.10)	2.38	9.23
XFA413*-24-★/★/★-★	0.20	19/0.127(19/0.12)	2.66	12.37
XFA413*-22-★/★/★-★	0.35	19/0.16	2.98	16.44
XFA413*-20-★/★/★-★	0.50	19/0.203(19/0.20)	3.37	23.79
XFA413*-19-★/★/★-★	0.75	19/0.227(19/0.23)	3.76	31.02
XFA413*-18-★/★/★-★	1.00	19/0.254(19/0.26)	3.91	34.53
XFA413*-16-★/★/★-★	1.20	19/0.287(19/0.28)	4.44	44.26
XFA413*-15-★/★/★-★	1.50	19/0.32	5.01	56.91
XFA413*-14-★/★/★-★	2.00	19/0.361(19/0.36)	5.44	67.22
XFA413*-13-★/★/★-★	2.50	37/0.30	6.38	95.11
XFA413*-12-★/★/★-★	3.00	37/0.32	6.55	101.31
XFA413*-10-★/★/★-★	5.00	37/0.404(37/0.40)	8.06	159.21

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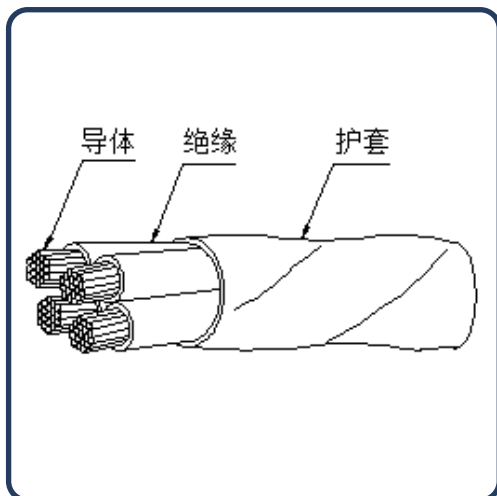
型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFA483*-32-★/★/★-★	0.035	7/0.08	2.23	5.94
XFA483*-30-★/★/★-★	0.06	7/0.102 (7/0.10)	2.36	6.97
XFA483*-28-★/★/★-★	0.08	7/0.127 (7/0.12)	2.49	8.25
XFA483*-26-★/★/★-★	0.14	19/0.102 (19/0.10)	2.83	11.22
XFA483*-24-★/★/★-★	0.20	19/0.127 (19/0.12)	3.09	14.29
XFA483*-22-★/★/★-★	0.35	19/0.16	3.37	18.77
XFA483*-20-★/★/★-★	0.50	19/0.203(19/0.20)	3.80	26.18
XFA483*-19-★/★/★-★	0.75	19/0.227(19/0.23)	4.32	34.87
XFA483*-18-★/★/★-★	1.00	19/0.254(19/0.26)	4.62	39.51
XFA483*-16-★/★/★-★	1.20	19/0.287(19/0.28)	5.01	48.31
XFA483*-15-★/★/★-★	1.50	19/0.32	5.57	64.21
XFA483*-14-★/★/★-★	2.00	19/0.361(19/0.36)	6.06	73.51
XFA483*-13-★/★/★-★	2.50	37/0.30	6.77	100.43
XFA483*-12-★/★/★-★	3.00	37/0.32	6.98	108.78
XFA483*-11-★/★/★-★	4.00	37/0.37	7.87	147.47
XFA483*-10-★/★/★-★	5.00	37/0.404 (37/0.40)	8.28	162.37

产品型号规格命名方法

Naming method for product models and specifications

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型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFA4141	XFA4841	镀锡 Tin-plating
XFA4142	XFA4842	镀银 Silver plating
XFA4143	XFA4843	镀镍 Nickel Plating
XFA4144	XFA4844	镀银铜合金 Silver plated copper alloy
XFA4145	XFA4845	镀镍铜合金 Nickel plated copper alloy

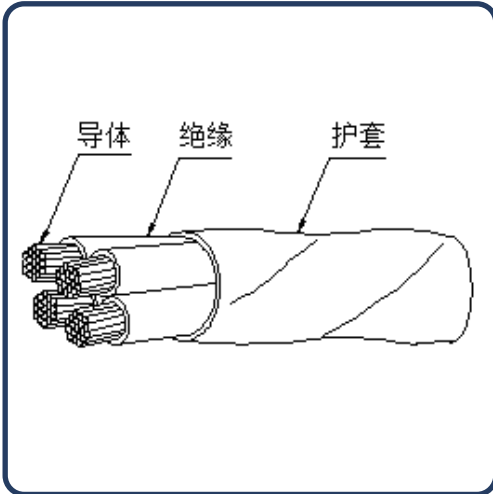
型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFA414*-32-★/★/★/★-★	0.035	7/0.08	2.16	5.30
XFA414*-30-★/★/★/★-★	0.06	7/0.102 (7/0.10)	2.32	6.56
XFA414*-28-★/★/★/★-★	0.08	7/0.127 (7/0.12)	2.54	8.33
XFA414*-26-★/★/★/★-★	0.14	19/0.102 (19/0.10)	2.87	11.71
XFA414*-24-★/★/★/★-★	0.20	19/0.127(19/0.12)	3.22	15.82
XFA414*-22-★/★/★/★-★	0.35	19/0.16	3.63	21.17
XFA414*-20-★/★/★/★-★	0.50	19/0.203(19/0.20)	4.12	30.87
XFA414*-19-★/★/★/★-★	0.75	19/0.227(19/0.23)	4.70	41.29
XFA414*-18-★/★/★/★-★	1.00	19/0.254(19/0.26)	4.89	45.97
XFA414*-16-★/★/★/★-★	1.20	19/0.287(19/0.28)	5.46	57.71
XFA414*-15-★/★/★/★-★	1.50	19/0.32	6.29	76.20
XFA414*-14-★/★/★/★-★	2.00	19/0.361(19/0.36)	6.84	89.97
XFA414*-13-★/★/★/★-★	2.50	37/0.30	7.87	124.57
XFA414*-12-★/★/★/★-★	3.00	37/0.32	8.09	132.77
XFA414*-10-★/★/★/★-★	5.00	37/0.404(37/0.40)	10.08	211.34

产品型号规格命名方法

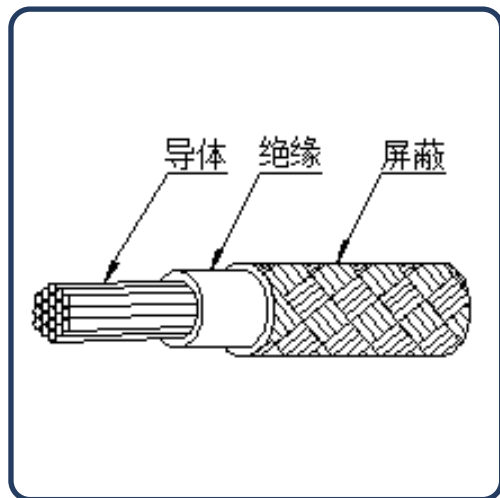
Naming method for product models and specifications

XFA系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆的绝缘分单层绝缘结构和双层绝缘结构。单层绝缘结构最适用于需要节约空间和减轻重量的地方；双层绝缘结构是为了符合其强度的要求以防止在安装时机械磨损引起的损坏而设计的，内层绝缘与外层绝缘优先用不同的颜色区分。

The insulation of XFA series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables can be divided into single-layer insulation structure and double-layer insulation structure. Single layer insulation structure is most suitable for areas that require space conservation and weight reduction; The double-layer insulation structure is designed to meet its strength requirements to prevent damage caused by mechanical wear during installation. The inner insulation and outer insulation are distinguished by different colors in priority.



型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFA484*-32-★/★/★/★-★	0.035	7/0.08	2.68	7.36
XFA484*-30-★/★/★/★-★	0.06	7/0.102 (7/0.10)	2.84	8.70
XFA484*-28-★/★/★/★-★	0.08	7/0.127 (7/0.12)	3.00	10.37
XFA484*-26-★/★/★/★-★	0.14	19/0.102 (19/0.10)	3.44	14.25
XFA484*-24-★/★/★/★-★	0.20	19/0.127 (19/0.12)	3.77	18.28
XFA484*-22-★/★/★/★-★	0.35	19/0.16	4.12	24.18
XFA484*-20-★/★/★/★-★	0.50	19/0.203(19/0.20)	4.75	34.84
XFA484*-19-★/★/★/★-★	0.75	19/0.227(19/0.23)	5.40	46.41
XFA484*-18-★/★/★/★-★	1.00	19/0.254(19/0.26)	5.80	52.97
XFA484*-16-★/★/★/★-★	1.20	19/0.287(19/0.28)	6.29	64.73
XFA484*-15-★/★/★/★-★	1.50	19/0.32	7.00	85.96
XFA484*-14-★/★/★/★-★	2.00	19/0.361(19/0.36)	7.46	95.89
XFA484*-13-★/★/★/★-★	2.50	37/0.30	8.44	133.11
XFA484*-12-★/★/★/★-★	3.00	37/0.32	8.72	144.24
XFA484*-11-★/★/★/★-★	4.00	37/0.37	9.84	195.70
XFA484*-10-★/★/★/★-★	5.00	37/0.404 (37/0.40)	10.36	215.53



产品型号规格命名方法

Naming method for product models and specifications

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The insulation of XFA series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables can be divided into single-layer insulation structure and double-layer insulation structure. Single layer insulation structure is most suitable for areas that require space conservation and weight reduction; The double-layer insulation structure is designed to meet its strength requirements to prevent damage caused by mechanical wear during installation. The inner insulation and outer insulation are distinguished by different colors in priority.

型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFA3111	XFA3811	镀锡 Tin-plating
XFA3112	XFA3812	镀银 Silver plating
XFA3113	XFA3813	镀镍 Nickel Plating
XFA3114	XFA3814	镀银铜合金 Silver plated copper alloy
XFA3115	XFA3815	镀镍铜合金 Nickel plated copper alloy

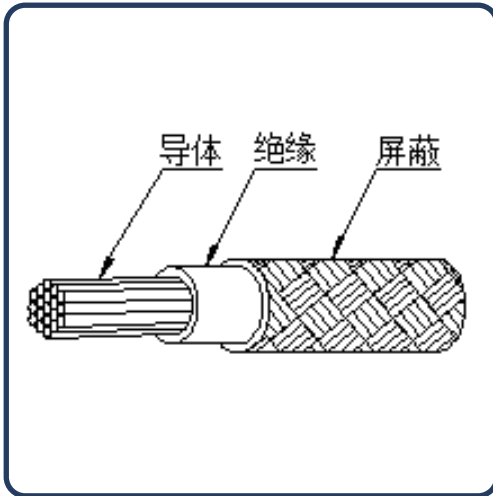
型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFA311*-32-★	0.035	7/0.08	1.05	3.14
XFA311*-30-★	0.06	7/0.102 (7/0.10)	1.11	3.58
XFA311*-28-★	0.08	7/0.127 (7/0.12)	1.19	4.19
XFA311*-26-★	0.14	19/0.102 (19/0.10)	1.31	5.27
XFA311*-24-★	0.20	19/0.127(19/0.12)	1.44	6.55
XFA311*-22-★	0.35	19/0.16	1.59	8.18
XFA311*-20-★	0.50	19/0.203(19/0.20)	1.77	10.94
XFA311*-19-★	0.75	19/0.227(19/0.23)	1.95	13.66
XFA311*-18-★	1.00	19/0.254(19/0.26)	2.02	14.95
XFA311*-16-★	1.20	19/0.287(19/0.28)	2.23	18.25
XFA311*-15-★	1.50	19/0.32	2.49	22.86
XFA311*-14-★	2.00	19/0.361(19/0.36)	2.69	26.60
XFA311*-13-★	2.50	37/0.30	3.07	35.77
XFA311*-12-★	3.00	37/0.32	3.15	37.93
XFA311*-10-★	5.00	37/0.404(37/0.40)	3.85	57.99

产品型号规格命名方法

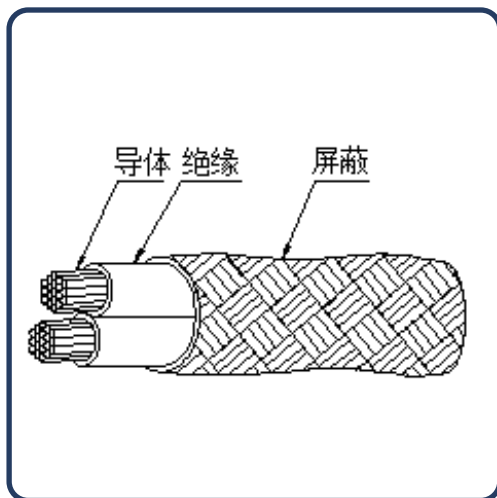
Naming method for product models and specifications

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The insulation of XFA series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables can be divided into single-layer insulation structure and double-layer insulation structure. Single layer insulation structure is most suitable for areas that require space conservation and weight reduction; The double-layer insulation structure is designed to meet its strength requirements to prevent damage caused by mechanical wear during installation. The inner insulation and outer insulation are distinguished by different colors in priority.



型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFA381*-32-★	0.035	7/0.08	1.24	4.05
XFA381*-30-★	0.06	7/0.102 (7/0.10)	1.3	4.51
XFA381*-28-★	0.08	7/0.127 (7/0.12)	1.36	5.04
XFA381*-26-★	0.14	19/0.102 (19/0.10)	1.52	6.34
XFA381*-24-★	0.20	19/0.127 (19/0.12)	1.64	7.58
XFA381*-22-★	0.35	19/0.16	1.77	9.30
XFA381*-20-★	0.50	19/0.203(19/0.20)	1.97	12.12
XFA381*-19-★	0.75	19/0.227(19/0.23)	2.21	15.44
XFA381*-18-★	1.00	19/0.254(19/0.26)	2.31	16.84
XFA381*-16-★	1.20	19/0.287(19/0.28)	2.49	20.05
XFA381*-15-★	1.50	19/0.32	2.75	25.73
XFA381*-14-★	2.00	19/0.361(19/0.36)	2.92	28.47
XFA381*-13-★	2.50	37/0.30	3.25	37.80
XFA381*-12-★	3.00	37/0.32	3.35	40.70
XFA381*-11-★	4.00	37/0.37	3.76	54.00
XFA381*-10-★	5.00	37/0.404 (37/0.40)	3.95	59.18



产品型号规格命名方法

Naming method for product models and specifications

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The insulation of XFA series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables can be divided into single-layer insulation structure and double-layer insulation structure. Single layer insulation structure is most suitable for areas that require space conservation and weight reduction; The double-layer insulation structure is designed to meet its strength requirements to prevent damage caused by mechanical wear during installation. The inner insulation and outer insulation are distinguished by different colors in priority.

型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFA3121	XFA3821	镀锡 Tin-plating
XFA3122	XFA3822	镀银 Silver plating
XFA3123	XFA3823	镀镍 Nickel Plating
XFA3124	XFA3824	镀银铜合金 Silver plated copper alloy
XFA3125	XFA3825	镀镍铜合金 Nickel plated copper alloy

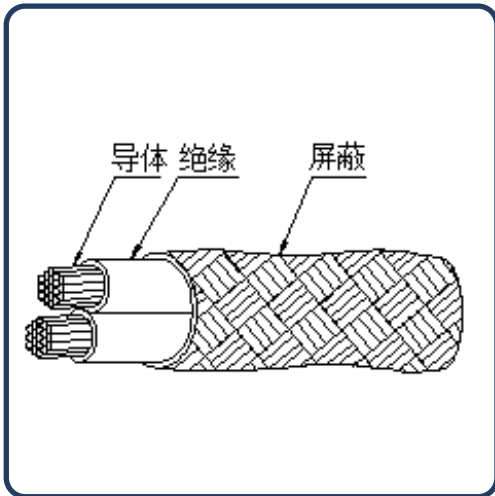
型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFA312*-32-★/★	0.035	7/0.08	1.65	5.31
XFA312*-30-★/★	0.06	7/0.102 (7/0.10)	1.77	6.15
XFA312*-28-★/★	0.08	7/0.127 (7/0.12)	1.93	7.33
XFA312*-26-★/★	0.14	19/0.102 (19/0.10)	2.17	9.46
XFA312*-24-★/★	0.20	19/0.127(19/0.12)	2.43	11.98
XFA312*-22-★/★	0.35	19/0.16	2.73	15.21
XFA312*-20-★/★	0.50	19/0.203(19/0.20)	3.09	20.71
XFA312*-19-★/★	0.75	19/0.227(19/0.23)	3.45	26.13
XFA312*-18-★/★	1.00	19/0.254(19/0.26)	3.59	28.71
XFA312*-16-★/★	1.20	19/0.287(19/0.28)	4.01	35.29
XFA312*-15-★/★	1.50	19/0.32	4.53	44.52
XFA312*-14-★/★	2.00	19/0.361(19/0.36)	4.93	52.00
XFA312*-13-★/★	2.50	37/0.30	5.69	70.44
XFA312*-12-★/★	3.00	37/0.32	5.85	74.78
XFA312*-10-★/★	5.00	37/0.404(37/0.40)	7.25	115.21

产品型号规格命名方法

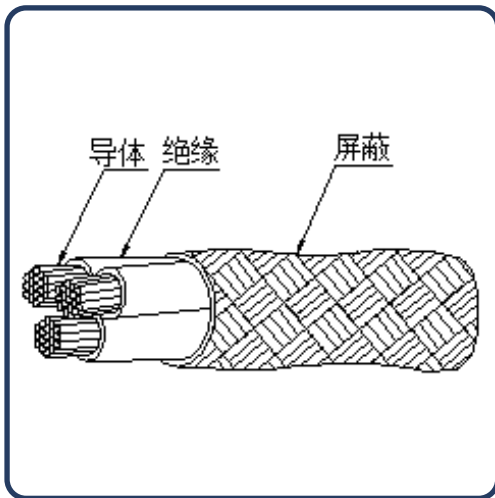
Naming method for product models and specifications

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型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFA382*-32-★/★	0.035	7/0.08	2.03	7.03
XFA382*-30-★/★	0.06	7/0.102 (7/0.10)	2.15	7.92
XFA382*-28-★/★	0.08	7/0.127 (7/0.12)	2.27	8.97
XFA382*-26-★/★	0.14	19/0.102 (19/0.10)	2.59	11.49
XFA382*-24-★/★	0.20	19/0.127 (19/0.12)	2.83	13.94
XFA382*-22-★/★	0.35	19/0.16	3.09	17.36
XFA382*-20-★/★	0.50	19/0.203(19/0.20)	3.49	22.97
XFA382*-19-★/★	0.75	19/0.227(19/0.23)	3.97	29.57
XFA382*-18-★/★	1.00	19/0.254(19/0.26)	4.17	32.36
XFA382*-16-★/★	1.20	19/0.287(19/0.28)	4.53	38.79
XFA382*-15-★/★	1.50	19/0.32	5.05	50.18
XFA382*-14-★/★	2.00	19/0.361(19/0.36)	5.39	55.65
XFA382*-13-★/★	2.50	37/0.30	6.05	74.45
XFA382*-12-★/★	3.00	37/0.32	6.25	80.29
XFA382*-11-★/★	4.00	37/0.37	7.07	107.15
XFA382*-10-★/★	5.00	37/0.404 (37/0.40)	7.45	117.58



产品型号规格命名方法

Naming method for product models and specifications

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型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFA3131	XFA3831	镀锡 Tin-plating
XFA3132	XFA3832	镀银 Silver plating
XFA3133	XFA3833	镀镍 Nickel Plating
XFA3134	XFA3834	镀银铜合金 Silver plated copper alloy
XFA3135	XFA3835	镀镍铜合金 Nickel plated copper alloy

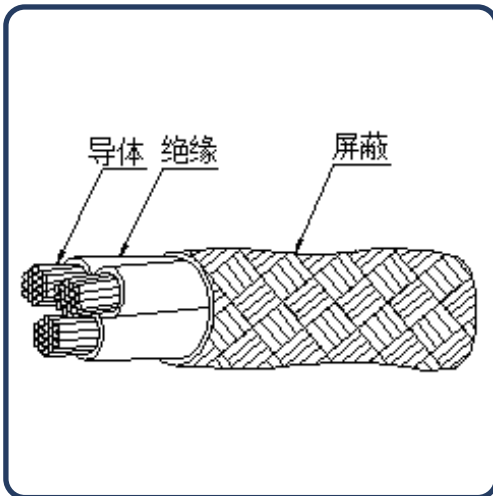
型号 Model	标称截面 Nominal cross-section (mm²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFA313*-32-★/★/★	0.035	7/0.08	1.74	6.57
XFA313*-30-★/★/★	0.06	7/0.102 (7/0.10)	1.87	7.74
XFA313*-28-★/★/★	0.08	7/0.127 (7/0.12)	2.04	9.36
XFA313*-26-★/★/★	0.14	19/0.102 (19/0.10)	2.30	12.34
XFA313*-24-★/★/★	0.20	19/0.127(19/0.12)	2.58	15.90
XFA313*-22-★/★/★	0.35	19/0.16	2.91	20.47
XFA313*-20-★/★/★	0.50	19/0.203(19/0.20)	3.30	28.40
XFA313*-19-★/★/★	0.75	19/0.227(19/0.23)	3.69	36.22
XFA313*-18-★/★/★	1.00	19/0.254(19/0.26)	3.84	39.96
XFA313*-16-★/★/★	1.20	19/0.287(19/0.28)	4.29	49.46
XFA313*-15-★/★/★	1.50	19/0.32	4.85	62.84
XFA313*-14-★/★/★	2.00	19/0.361(19/0.36)	5.28	73.72
XFA313*-13-★/★/★	2.50	37/0.30	6.10	100.70
XFA313*-12-★/★/★	3.00	37/0.32	6.28	107.07
XFA313*-10-★/★/★	5.00	37/0.404(37/0.40)	7.88	170.98

产品型号规格命名方法

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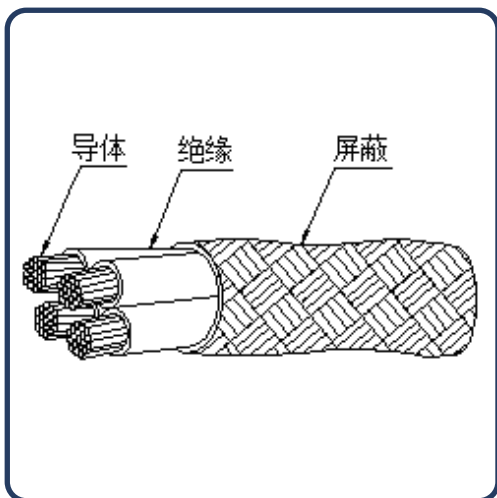
型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFA383*-32-★/★/★	0.035	7/0.08	2.15	8.82
XFA383*-30-★/★/★	0.06	7/0.102 (7/0.10)	2.28	10.04
XFA383*-28-★/★/★	0.08	7/0.127 (7/0.12)	2.41	11.52
XFA383*-26-★/★/★	0.14	19/0.102 (19/0.10)	2.76	15.02
XFA383*-24-★/★/★	0.20	19/0.127 (19/0.12)	3.02	18.48
XFA383*-22-★/★/★	0.35	19/0.16	3.30	23.39
XFA383*-20-★/★/★	0.50	19/0.203(19/0.20)	3.73	31.45
XFA383*-19-★/★/★	0.75	19/0.227(19/0.23)	4.25	40.92
XFA383*-18-★/★/★	1.00	19/0.254(19/0.26)	4.46	44.93
XFA383*-16-★/★/★	1.20	19/0.287(19/0.28)	4.85	54.25
XFA383*-15-★/★/★	1.50	19/0.32	5.41	70.88
XFA383*-14-★/★/★	2.00	19/0.361(19/0.36)	5.78	78.78
XFA383*-13-★/★/★	2.50	37/0.30	6.49	106.41
XFA383*-12-★/★/★	3.00	37/0.32	6.71	114.98
XFA383*-11-★/★/★	4.00	37/0.37	7.59	154.54
XFA383*-10-★/★/★	5.00	37/0.404 (37/0.40)	8.09	174.47

产品型号规格命名方法

Naming method for product models and specifications

XFA系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆的绝缘分单层绝缘结构和双层绝缘结构。单层绝缘结构最适用于需要节约空间和减轻重量的地方；双层绝缘结构是为了符合其强度的要求以防止在安装时机械磨损引起的损坏而设计的，内层绝缘与外层绝缘优先用不同的颜色区分。

The insulation of XFA series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables can be divided into single-layer insulation structure and double-layer insulation structure. Single layer insulation structure is most suitable for areas that require space conservation and weight reduction; The double-layer insulation structure is designed to meet its strength requirements to prevent damage caused by mechanical wear during installation. The inner insulation and outer insulation are distinguished by different colors in priority.



型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFA3141	XFA3841	镀锡 Tin-plating
XFA3142	XFA3842	镀银 Silver plating
XFA3143	XFA3843	镀镍 Nickel Plating
XFA3144	XFA3844	镀银铜合金 Silver plated copper alloy
XFA3145	XFA3845	镀镍铜合金 Nickel plated copper alloy

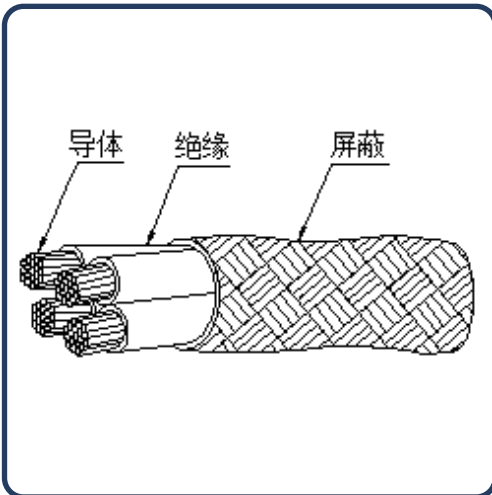
型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFA314*-32-★/★/★/★	0.035	7/0.08	2.08	7.83
XFA314*-30-★/★/★/★	0.06	7/0.102 (7/0.10)	2.25	9.32
XFA314*-28-★/★/★/★	0.08	7/0.127 (7/0.12)	2.47	11.39
XFA314*-26-★/★/★/★	0.14	19/0.102 (19/0.10)	2.79	15.22
XFA314*-24-★/★/★/★	0.20	19/0.127(19/0.12)	3.15	19.81
XFA314*-22-★/★/★/★	0.35	19/0.16	3.56	25.73
XFA314*-20-★/★/★/★	0.50	19/0.203(19/0.20)	4.05	36.10
XFA314*-19-★/★/★/★	0.75	19/0.227(19/0.23)	4.54	46.31
XFA314*-18-★/★/★/★	1.00	19/0.254(19/0.26)	4.73	51.21
XFA314*-16-★/★/★/★	1.20	19/0.287(19/0.28)	5.30	63.62
XFA314*-15-★/★/★/★	1.50	19/0.32	6.01	81.17
XFA314*-14-★/★/★/★	2.00	19/0.361(19/0.36)	6.56	95.44
XFA314*-13-★/★/★/★	2.50	37/0.30	7.60	130.97
XFA314*-12-★/★/★/★	3.00	37/0.32	7.82	139.36
XFA314*-10-★/★/★/★	5.00	37/0.404(37/0.40)	9.82	222.85

产品型号规格命名方法

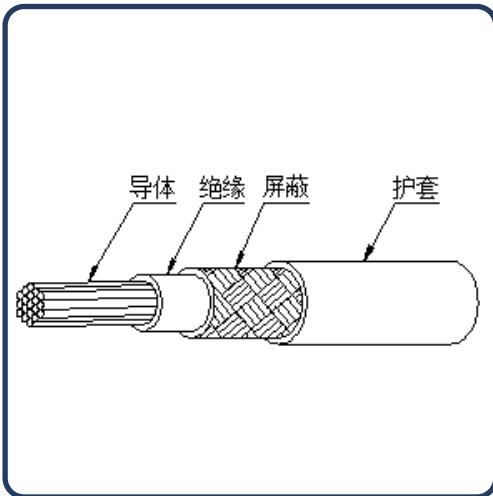
Naming method for product models and specifications

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型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFA384*-32-★/★/★/★	0.035	7/0.08	2.6	10.61
XFA384*-30-★/★/★/★	0.06	7/0.102 (7/0.10)	2.77	12.17
XFA384*-28-★/★/★/★	0.08	7/0.127 (7/0.12)	2.93	14.06
XFA384*-26-★/★/★/★	0.14	19/0.102 (19/0.10)	3.37	18.54
XFA384*-24-★/★/★/★	0.20	19/0.127 (19/0.12)	3.69	23.02
XFA384*-22-★/★/★/★	0.35	19/0.16	4.05	29.41
XFA384*-20-★/★/★/★	0.50	19/0.203(19/0.20)	4.59	39.92
XFA384*-19-★/★/★/★	0.75	19/0.227(19/0.23)	5.25	52.26
XFA384*-18-★/★/★/★	1.00	19/0.254(19/0.26)	5.52	57.50
XFA384*-16-★/★/★/★	1.20	19/0.287(19/0.28)	6.01	69.71
XFA384*-15-★/★/★/★	1.50	19/0.32	6.72	91.58
XFA384*-14-★/★/★/★	2.00	19/0.361(19/0.36)	7.19	101.92
XFA384*-13-★/★/★/★	2.50	37/0.30	8.09	138.36
XFA384*-12-★/★/★/★	3.00	37/0.32	8.45	154.06
XFA384*-11-★/★/★/★	4.00	37/0.37	9.57	206.91
XFA384*-10-★/★/★/★	5.00	37/0.404 (37/0.40)	10.09	227.37



产品型号规格命名方法

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XFA SERIES AEROSPACE
XFA系列航空航天

型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFA1111	XFA1811	镀锡 Tin-plating
XFA1112	XFA1812	镀银 Silver plating
XFA1113	XFA1813	镀镍 Nickel Plating
XFA1114	XFA1814	镀银铜合金 Silver plated copper alloy
XFA1115	XFA1815	镀镍铜合金 Nickel plated copper alloy

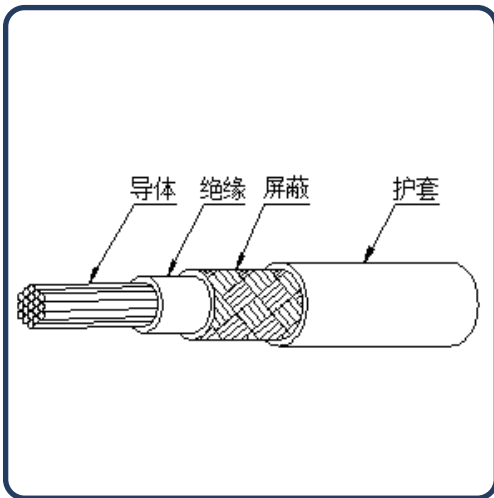
型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFA111*-32-★-★	0.035	7/0.08	1.57	4.95
XFA111*-30-★-★	0.06	7/0.102 (7/0.10)	1.63	5.47
XFA111*-28-★-★	0.08	7/0.127 (7/0.12)	1.71	6.19
XFA111*-26-★-★	0.14	19/0.102 (19/0.10)	1.83	7.44
XFA111*-24-★-★	0.20	19/0.127(19/0.12)	1.96	8.90
XFA111*-22-★-★	0.35	19/0.16	2.11	10.74
XFA111*-20-★-★	0.50	19/0.203(19/0.20)	2.29	13.75
XFA111*-19-★-★	0.75	19/0.227(19/0.23)	2.47	16.72
XFA111*-18-★-★	1.00	19/0.254(19/0.26)	2.54	18.11
XFA111*-16-★-★	1.20	19/0.287(19/0.28)	2.75	21.70
XFA111*-15-★-★	1.50	19/0.32	3.01	26.67
XFA111*-14-★-★	2.00	19/0.361(19/0.36)	3.21	30.69
XFA111*-13-★-★	2.50	37/0.30	3.59	40.39
XFA111*-12-★-★	3.00	37/0.32	3.67	42.65
XFA111*-10-★-★	5.00	37/0.404(37/0.40)	4.45	64.63

产品型号规格命名方法

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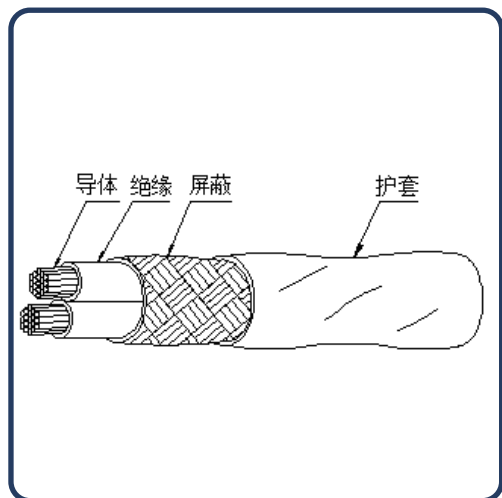
型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✎ Finished product outer diameter value✎ (mm)	最大重量 Maximum Weight (kg/km)
XFA181*-32-★-★	0.035	7/0.08	1.76	6.13
XFA181*-30-★-★	0.06	7/0.102 (7/0.10)	1.82	6.67
XFA181*-28-★-★	0.08	7/0.127 (7/0.12)	1.88	7.29
XFA181*-26-★-★	0.14	19/0.102 (19/0.10)	2.04	8.80
XFA181*-24-★-★	0.20	19/0.127 (19/0.12)	2.16	10.21
XFA181*-22-★-★	0.35	19/0.16	2.29	12.11
XFA181*-20-★-★	0.50	19/0.203(19/0.20)	2.49	15.21
XFA181*-19-★-★	0.75	19/0.227(19/0.23)	2.73	18.86
XFA181*-18-★-★	1.00	19/0.254(19/0.26)	2.83	20.40
XFA181*-16-★-★	1.20	19/0.287(19/0.28)	3.01	23.86
XFA181*-15-★-★	1.50	19/0.32	3.27	29.90
XFA181*-14-★-★	2.00	19/0.361(19/0.36)	3.44	32.88
XFA181*-13-★-★	2.50	37/0.30	3.77	42.67
XFA181*-12-★-★	3.00	37/0.32	3.87	45.70
XFA181*-11-★-★	4.00	37/0.37	4.28	59.58
XFA181*-10-★-★	5.00	37/0.404 (37/0.40)	4.55	65.98

产品型号规格命名方法

Naming method for product models and specifications

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型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFA1121	XFA1821	镀锡 Tin-plating
XFA1122	XFA1822	镀银 Silver plating
XFA1123	XFA1823	镀镍 Nickel Plating
XFA1124	XFA1824	镀银铜合金 Silver plated copper alloy
XFA1125	XFA1825	镀镍铜合金 Nickel plated copper alloy

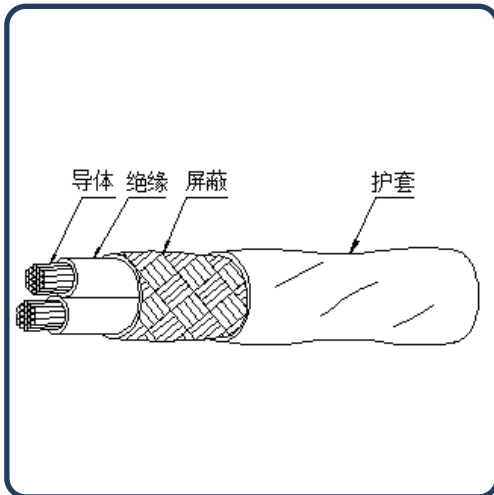
型号 Model	标称截面 Nominal cross-section (mm²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFA112*-32-★/★-★	0.035	7/0.08	2.17	7.78
XFA112*-30-★/★-★	0.06	7/0.102 (7/0.10)	2.29	8.78
XFA112*-28-★/★-★	0.08	7/0.127 (7/0.12)	2.45	10.16
XFA112*-26-★/★-★	0.14	19/0.102 (19/0.10)	2.69	12.59
XFA112*-24-★/★-★	0.20	19/0.127(19/0.12)	2.95	15.44
XFA112*-22-★/★-★	0.35	19/0.16	3.25	19.03
XFA112*-20-★/★-★	0.50	19/0.203(19/0.20)	3.61	24.99
XFA112*-19-★/★-★	0.75	19/0.227(19/0.23)	3.97	30.86
XFA112*-18-★/★-★	1.00	19/0.254(19/0.26)	4.11	33.61
XFA112*-16-★/★-★	1.20	19/0.287(19/0.28)	4.61	41.61
XFA112*-15-★/★-★	1.50	19/0.32	5.13	51.59
XFA112*-14-★/★-★	2.00	19/0.361(19/0.36)	5.53	59.65
XFA112*-13-★/★-★	2.50	37/0.30	6.41	81.05
XFA112*-12-★/★-★	3.00	37/0.32	6.57	85.67
XFA112*-10-★/★-★	5.00	37/0.404(37/0.40)	7.97	128.52

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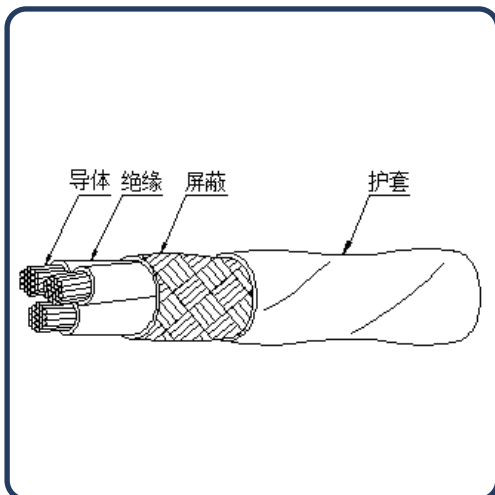
型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFA182*-32-★/★-★	0.035	7/0.08	2.55	9.98
XFA182*-30-★/★-★	0.06	7/0.102 (7/0.10)	2.67	11.02
XFA182*-28-★/★-★	0.08	7/0.127 (7/0.12)	2.79	12.22
XFA182*-26-★/★-★	0.14	19/0.102 (19/0.10)	3.11	15.14
XFA182*-24-★/★-★	0.20	19/0.127 (19/0.12)	3.35	17.89
XFA182*-22-★/★-★	0.35	19/0.16	3.61	21.64
XFA182*-20-★/★-★	0.50	19/0.203(19/0.20)	4.01	27.75
XFA182*-19-★/★-★	0.75	19/0.227(19/0.23)	4.57	35.84
XFA182*-18-★/★-★	1.00	19/0.254(19/0.26)	4.77	38.92
XFA182*-16-★/★-★	1.20	19/0.287(19/0.28)	5.13	45.86
XFA182*-15-★/★-★	1.50	19/0.32	5.65	58.00
XFA182*-14-★/★-★	2.00	19/0.361(19/0.36)	6.11	65.74
XFA182*-13-★/★-★	2.50	37/0.30	6.77	85.69
XFA182*-12-★/★-★	3.00	37/0.32	6.97	91.87
XFA182*-11-★/★-★	4.00	37/0.37	7.79	120.14
XFA182*-10-★/★-★	5.00	37/0.404 (37/0.40)	8.17	131.23

产品型号规格命名方法

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型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFA1131	XFA1831	镀锡 Tin-plating
XFA1132	XFA1832	镀银 Silver plating
XFA1133	XFA1833	镀镍 Nickel Plating
XFA1134	XFA1834	镀银铜合金 Silver plated copper alloy
XFA1135	XFA1835	镀镍铜合金 Nickel plated copper alloy

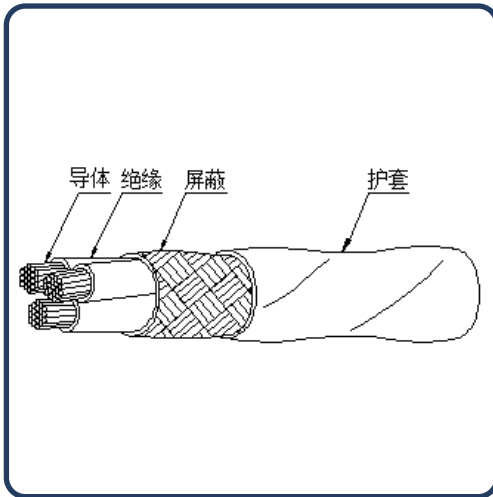
型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFA113*-32-★/★/★-★	0.035	7/0.08	2.26	9.30
XFA113*-30-★/★/★-★	0.06	7/0.102 (7/0.10)	2.39	10.64
XFA113*-28-★/★/★-★	0.08	7/0.127 (7/0.12)	2.56	12.50
XFA113*-26-★/★/★-★	0.14	19/0.102 (19/0.10)	2.82	15.82
XFA113*-24-★/★/★-★	0.20	19/0.127(19/0.12)	3.10	19.76
XFA113*-22-★/★/★-★	0.35	19/0.16	3.43	24.77
XFA113*-20-★/★/★-★	0.50	19/0.203(19/0.20)	3.82	33.23
XFA113*-19-★/★/★-★	0.75	19/0.227(19/0.23)	4.21	41.57
XFA113*-18-★/★/★-★	1.00	19/0.254(19/0.26)	4.44	46.43
XFA113*-16-★/★/★-★	1.20	19/0.287(19/0.28)	4.89	56.63
XFA113*-15-★/★/★-★	1.50	19/0.32	5.45	70.90
XFA113*-14-★/★/★-★	2.00	19/0.361(19/0.36)	6.00	84.31
XFA113*-13-★/★/★-★	2.50	37/0.30	6.82	112.82
XFA113*-12-★/★/★-★	3.00	37/0.32	7.00	119.52
XFA113*-10-★/★/★-★	5.00	37/0.404(37/0.40)	8.68	188.22

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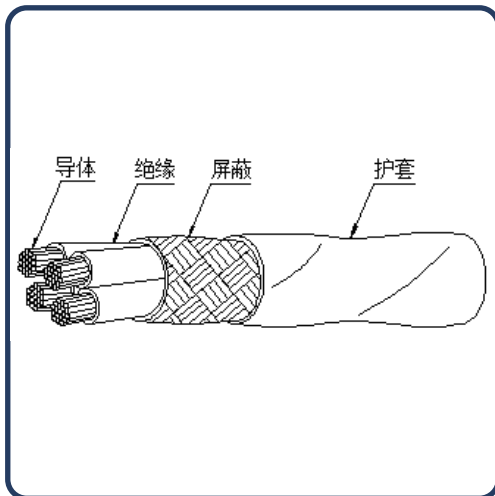
型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFA183*-32-★/★/★-★	0.035	7/0.08	2.67	12.10
XFA183*-30-★/★/★-★	0.06	7/0.102 (7/0.10)	2.80	13.50
XFA183*-28-★/★/★-★	0.08	7/0.127 (7/0.12)	2.93	15.15
XFA183*-26-★/★/★-★	0.14	19/0.102 (19/0.10)	3.28	19.11
XFA183*-24-★/★/★-★	0.20	19/0.127 (19/0.12)	3.54	22.93
XFA183*-22-★/★/★-★	0.35	19/0.16	3.82	28.21
XFA183*-20-★/★/★-★	0.50	19/0.203(19/0.20)	4.25	36.85
XFA183*-19-★/★/★-★	0.75	19/0.227(19/0.23)	4.85	48.03
XFA183*-18-★/★/★-★	1.00	19/0.254(19/0.26)	5.06	52.38
XFA183*-16-★/★/★-★	1.20	19/0.287(19/0.28)	5.45	62.30
XFA183*-15-★/★/★-★	1.50	19/0.32	6.13	81.71
XFA183*-14-★/★/★-★	2.00	19/0.361(19/0.36)	6.50	90.30
XFA183*-13-★/★/★-★	2.50	37/0.30	7.21	119.25
XFA183*-12-★/★/★-★	3.00	37/0.32	7.43	128.23
XFA183*-11-★/★/★-★	4.00	37/0.37	8.39	171.19
XFA183*-10-★/★/★-★	5.00	37/0.404 (37/0.40)	8.89	192.16

产品型号规格命名方法

Naming method for product models and specifications

XFA系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆的绝缘分单层绝缘结构和双层绝缘结构。单层绝缘结构最适用于需要节约空间和减轻重量的地方；双层绝缘结构是为了符合其强度的要求以防止在安装时机械磨损引起的损坏而设计的，内层绝缘与外层绝缘优先用不同的颜色区分。

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型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFA1141	XFA1841	镀锡 Tin-plating
XFA1142	XFA1842	镀银 Silver plating
XFA1143	XFA1843	镀镍 Nickel Plating
XFA1144	XFA1844	镀银铜合金 Silver plated copper alloy
XFA1145	XFA1845	镀镍铜合金 Nickel plated copper alloy

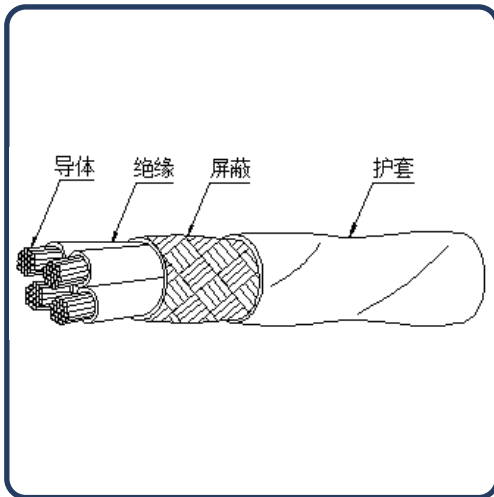
型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFA114*-32-★/★/★/★-★	0.035	7/0.08	2.6	10.81
XFA114*-30-★/★/★/★-★	0.06	7/0.102 (7/0.10)	2.77	12.50
XFA114*-28-★/★/★/★-★	0.08	7/0.127 (7/0.12)	2.99	14.84
XFA114*-26-★/★/★/★-★	0.14	19/0.102 (19/0.10)	3.31	19.06
XFA114*-24-★/★/★/★-★	0.20	19/0.127(19/0.12)	3.67	24.09
XFA114*-22-★/★/★/★-★	0.35	19/0.16	4.08	30.50
XFA114*-20-★/★/★/★-★	0.50	19/0.203(19/0.20)	4.65	42.36
XFA114*-19-★/★/★/★-★	0.75	19/0.227(19/0.23)	5.14	53.26
XFA114*-18-★/★/★/★-★	1.00	19/0.254(19/0.26)	5.33	58.43
XFA114*-16-★/★/★/★-★	1.20	19/0.287(19/0.28)	6.02	73.38
XFA114*-15-★/★/★/★-★	1.50	19/0.32	6.73	92.13
XFA114*-14-★/★/★/★-★	2.00	19/0.361(19/0.36)	7.28	107.31
XFA114*-13-★/★/★/★-★	2.50	37/0.30	8.40	146.20
XFA114*-12-★/★/★/★-★	3.00	37/0.32	8.62	155.00
XFA114*-10-★/★/★/★-★	5.00	37/0.404(37/0.40)	10.62	242.26

产品型号规格命名方法

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型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFA184*-32-★/★/★/★-★	0.035	7/0.08	3.12	14.22
XFA184*-30-★/★/★/★-★	0.06	7/0.102 (7/0.10)	3.29	15.98
XFA184*-28-★/★/★/★-★	0.08	7/0.127 (7/0.12)	3.45	18.07
XFA184*-26-★/★/★/★-★	0.14	19/0.102 (19/0.10)	3.89	23.08
XFA184*-24-★/★/★/★-★	0.20	19/0.127 (19/0.12)	4.21	27.96
XFA184*-22-★/★/★/★-★	0.35	19/0.16	4.65	35.67
XFA184*-20-★/★/★/★-★	0.50	19/0.203(19/0.20)	5.19	46.95
XFA184*-19-★/★/★/★-★	0.75	19/0.227(19/0.23)	5.97	61.93
XFA184*-18-★/★/★/★-★	1.00	19/0.254(19/0.26)	6.24	67.62
XFA184*-16-★/★/★/★-★	1.20	19/0.287(19/0.28)	6.73	80.66
XFA184*-15-★/★/★/★-★	1.50	19/0.32	7.44	103.73
XFA184*-14-★/★/★/★-★	2.00	19/0.361(19/0.36)	7.91	114.86
XFA184*-13-★/★/★/★-★	2.50	37/0.30	8.89	154.51
XFA184*-12-★/★/★/★-★	3.00	37/0.32	9.25	179.92
XFA184*-11-★/★/★/★-★	4.00	37/0.37	10.37	225.86
XFA184*-10-★/★/★/★-★	5.00	37/0.404 (37/0.40)	10.89	247.30

**XFA系列航空航天用
交联乙烯-四氟乙烯共聚物
绝缘电线电缆**

**XFA series of cross-linked ethylene
tetrafluoroethylene copolymer insulated
wires and cables for aerospace use**



产品使用特性 Operating characteristics

温度范围/Temperature range ◆
-65°C~+150°C

(镀锡导体/Tinned conductor)
-65°C~+200°C

(镀银、镀镍导体/Silver and nickel plated conductors)

额定电压/Rated voltage ◆
AC600V

最小弯曲半径/Minimum bend radius ◆
电缆外径的8倍/8 times the outer diameter of the cable

可焊性/Solderability ◆
镀锡、镀银导体及屏蔽产品具有可焊性，
镀镍导体及屏蔽产品不建议焊接，
采取压接等其他方式。

Tin plated, silver plated conductors and shielding products have weldability, while nickel plated conductors and shielding products are not recommended to be welded, and other methods such as crimping are used.

产品特点 and 用途 Features and Uses

XFA系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆是在贯彻国军标GJB 773B-2015，同时参照瑞侃55A系列产品、美国军用标准MIL-W-22759/32~35、MIL-W-22759/41~46及NEMA WC 27500的基础上进行设计开发的新一代产品。

该系列产品采用经特殊改良的氟塑料绝缘，具有耐高低温（-65°C~+200°C），重量轻，不热缩和卓越的机械韧性，符合盐雾、霉菌和耐湿的三防要求，并且有优异的抗高能辐射特性，可在恶劣的环境中提供高可靠的服务。产品经国内专业电缆检测机构检测，所有性能指标均符合GJB 773B-2015、瑞侃55A系列产品、美国军用标准MIL-W-22759/32~35、MIL-W-22759/41~46及NEMA WC 27500要求。广泛适用于航天、航空、舰船，电子等军工领域

XFA系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆已在多个重点型号产品上得到了批量使用，据用户反映，完全可以替代国外同类55A类产品，打破了国外公司长期对我国航空航天用交联乙烯-四氟乙烯共聚物绝缘电

The XFA series of cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables for aerospace use are a new generation product designed and developed based on the implementation of the national military standard GJB 773B-2015, while also referring to the Raychem 55A series products, US military standards MIL-W-22759/32-35, MIL-W-22759/41-46, and NEMA WC 27500.

This series of products adopts specially improved fluoroplastic insulation, which has high and low temperature resistance (-65 °C~+200 °C), light weight, no heat shrinkage, and excellent mechanical toughness. It meets the requirements of salt spray, mold, and moisture resistance, and has excellent resistance to high-energy radiation. It can provide highly reliable services in harsh environments. The product has been tested by professional cable testing institutions in China and all performance indicators meet the requirements of GJB 773B-2015, Raychem 55A series products, US military standards MIL-W-22759/32-35, MIL-W-22759/41-46, and NEMA WC 27500. Widely applicable to military industries such as aerospace, aviation, naval vessels, and electronics

The XFA series of cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables for aerospace have been widely used in multiple key models of products. According to user feedback, they can completely replace similar foreign 55A products, breaking the long-term monopoly of foreign companies in the field of cross-linked ethylene tetrafluoroethylene copolymer insulated wires and

产品主要性能

XFA系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆是采用交联乙烯-四氟乙烯共聚物(X-ETFE)绝缘,通过一定剂量高能电子辐照后使其产生交联后制成的产品,它的特殊结构使该导线具有:外径小、重量轻、阻燃、耐老化、机械强度大、抵抗化学侵蚀及使用方便等特点,所有这些优越性能很好地符合航空及机概设备对空间及重量的要求、并为其提供了安全可靠的机械性能和化学性能。其性能主要表现在:

①外径小、重量轻: XFA系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆的导体采用同芯式绞合、绞合外径小,绝缘和护套厚度设计薄,使导线或线束的外径减小许多,重量比其它同规格的导线减轻10%~20%。

②燃烧性: XFA系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆的绝缘及护套燃烧性符合GJB773B的规定,供火30s后,电线绝缘应在3s内自行熄灭,电缆护套应在30s内自行熄灭,火焰延燃应不超过76mm。

③抵抗化学侵蚀: XFA系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆的绝缘及护套层不受飞机液体的浸蚀,包括:水溶液,砌碱液,燃料油,润滑油,清洁剂,冷却剂和防冻剂,在高温高湿情况下仍不受影响。

④耐高低温: XFA系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆经辐照交联的绝缘层和护套层增加了高分子材料耐高温特性,耐温达200℃,且能通过持续300℃7小时的加速老化试验,此温度大大高于ETFE的熔化温度(270℃),这些寿命特性和不熔化的特性使得导线有了非常好的热稳定性。同时XF系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆也有很好的耐低温特性,在低温-65℃时仍保持良好的柔软性,并在低于该温度时仍保持相同的特性。

⑤卓越的抗辐射性能: XFA系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆由于对绝缘及护套的氟化共聚物进行交联,导线有着良好的氧稳定性,能抵抗外空间的电离辐射,在暴露于5×10⁸Rad辐射中仍能正常工作和保持柔软。产品符合空间标准NASA-SP-R-0022。

⑥机械强度大,抗开裂性能优越: 导线对纵向切入与磨擦有很强耐抵抗力,抗开裂性能极为优异,是其它导线无法比拟的,这也是飞机、航天器及机载设备需要考虑的重要指标之一。

⑦可靠性高: XFA系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆在恶劣的环境中提供高可靠性服务,这主要体现在能承受综合环境条件的考验,它们包括高温、高湿、强日晒、干热、寒冷、风沙、雨淋、低气压、霉菌、盐雾、油雾、化学药品,核中子与付货的辐射、震动、冲击、弯曲、磨擦、扭绕等直接和间接作用。

⑧操作方便: XFA系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆有很容易操作的特点,非常容易用自动化设备标记或手工进行标记,非常容易剥线,挂锡,完全可以使用打印及喷墨打印设备进行编组标记。导线焊接时绝缘体不再熔化或收缩,从而变得很容易操作。



Main performance of the product

The XFA series of aerospace insulated wires and cables with cross-linked ethylene tetrafluoroethylene copolymer (X-ETFE) insulation are products made by cross-linking them after a certain dose of high-energy electron irradiation. Its special structure makes the wire have the characteristics of small outer diameter, light weight, flame retardancy, aging resistance, high mechanical strength, resistance to chemical corrosion, and convenient use. All of these superior properties well meet the space and weight requirements of aviation and aviation equipment, and provide them with safe and reliable mechanical and chemical properties. Its performance is mainly manifested in:

① Small outer diameter and light weight: The conductors of XFA series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables are stranded in the same core, with a small outer diameter. The insulation and sheath thickness are designed to be thin, resulting in a significant reduction in the outer diameter of the wire or harness, and a weight reduction of 10% to 20% compared to other wires of the same specification.

② Flammability: The insulation and sheath flammability of XFA series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables comply with the regulations of GJB773B. After 30 seconds of fire supply, the wire insulation should extinguish itself within 3 seconds, the cable sheath should extinguish itself within 30 seconds, and the flame spread should not exceed 76mm.

③ Resistance to chemical corrosion: The insulation and sheath layer of XFA series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables are not corroded by aircraft liquids, including: aqueous solution, alkaline solution, fuel oil, lubricating oil, cleaning agent, coolant, and antifreeze, which are still unaffected under high temperature and humidity conditions.

④ High and low temperature resistance: The insulation and sheath layer of XFA series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables have increased the high temperature resistance characteristics of polymer materials after irradiation crosslinking, with a temperature resistance of up to 200 °C. They can also undergo accelerated aging tests lasting for 7 hours at 300 °C, which is much higher than the melting temperature of ETFE (270 °C). These life characteristics and non melting characteristics provide excellent thermal stability for the wires. At the same time, XF series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables also have good low-temperature resistance characteristics, maintaining good flexibility at low temperatures of -65 °C, and maintaining the same characteristics below that temperature.

⑤ Excellent radiation resistance: XFA series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables have good oxygen stability due to cross-linking of the fluorinated copolymer insulation and sheath, and can resist ionizing radiation in external space. When exposed to 5 × 10⁵ rad it can still work normally and remain soft under 108Rad radiation. The product meets the space standard NASA-SP-R-0022.

⑥ High mechanical strength and superior crack resistance: The wire has strong resistance to longitudinal penetration and friction, and its crack resistance is extremely excellent, which is unparalleled by other wires. This is also one of the important indicators that aircraft, spacecraft, and airborne equipment need to consider.

⑦ High reliability: XFA series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables provide high reliability services in harsh environments, mainly reflected in the ability to withstand comprehensive environmental conditions, including high temperature, high humidity, strong sunlight, dry heat, cold, sandstorms, rain, low pressure, mold, salt mist, oil mist, chemicals, nuclear neutrons and radiation, vibration, impact, bending, friction Twisting and other direct and indirect effects.

⑧ Easy to operate: XFA series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables have the characteristic of being easy to operate, easy to mark with automated equipment or manually, easy to strip and hang tin, and can be completely marked with printing and inkjet printing equipment for grouping. During wire welding, the insulation no longer melts or contracts, making it easy to operate.

导体结构及直流电阻 Conductor structure and DC resistance

标称截面 Nominal cross-section (mm ²)	线规号 Wire gauge number (AWG)	导体根数 / 标称直径 Number of conductors / Nominal diameter (mm)	导体绞合节径比 (最外层) Diameter ratio of conductor stranding (outermost layer)	导体外径 Conductor Outside Diameter (mm)					20℃ 时导体直流电阻最大值 Maximum DC resistance of conductor at 20 °C (Ω/km)				
				最小 Minimum	最大 Maximum				SCC ^a	NCC ^c	TCC ^b	SCA ^d	NCA ^e
					SCC ^a	TCC ^b 、NCC ^c	SCA ^d	NCA ^e					
0.035	32	7/0.08	8~16	0.23	0.25	0.25	0.25	0.25	525.0	560.0	568.0	653.0	681.0
0.06	30	7/0.102	8~16	0.27	0.31	0.34	0.31	0.34	330.4	363.2	355.6	385.2	425.2
0.08	28	7/0.127	8~16	0.35	0.39	0.41	0.39	0.41	209.3	222.8	225.1	244.1	259.2
		(7/0.12)											
0.14	26	19/0.102	8~16	0.45	0.49	0.51	0.51	0.51	126	138.5	135.5	147	162.1
		(19/0.10)											
0.20	24	19/0.127	8~16	0.58	0.62	0.62	0.62	0.64	79.7	85.0	86.0	93.2	98.8
		(19/0.12)											
0.35	22	19/0.16	8~16	0.73	0.77	0.79	0.79	0.79	49.5	52.5	53.1	57.4	61.0
0.50	20	19/0.203	8~16	0.93	0.97	1.00	1.00	1.00	30.2	32.1	32.4	35.1	37.4
		(19/0.20)											
0.75	19	19/0.227	8~16	1.07	1.11	1.11	1.11	1.11	22.7	24.3	24.6	26.6	28.5
		(19/0.23)											
1.00	18	19/0.254	8~16	1.16	1.23	1.25	1.25	1.25	19.0	20.0	20.4	21.1	22.3
		(19/0.26)											
1.20	16	19/0.287	8~16	1.31	1.38	1.41	1.41	1.41	14.8	15.6	15.8	16.1	16.9
		(19/0.28)											
1.50	15	19/0.32	8~16	1.50	1.56	1.56	-	-	11.7	12.6	12.7	-	-
2.00	14	19/0.361	8~16	1.64	1.74	1.76	-	-	9.45	9.84	10	-	-
		(19/0.36)											
2.50	13	37/0.30	8~16	1.99	2.09	2.09	-	-	6.86	7.37	7.43	-	-
3.00	12	37/0.32	8~16	2.13	2.22	2.27	-	-	6.23	6.5	6.63	-	-
4.00	11	37/0.37	8~16	2.44	2.54	2.54	-	-	4.51	4.83	4.88	-	-
5.00	10	37/0.404	8~16	2.7	2.79	2.84	-	-	3.9	4.07	4.13	-	-
		(37/0.40)											

导体结构及直流电阻 Conductor structure and DC resistance

标称截面 Nominal cross-section (mm ²)	线规号 Wire gauge number (AWG)	导体根数 / 标称直径 Number of conductors / Nominal diameter (mm)	导体绞合节径比 (最外层) Diameter ratio of conductor stranding (outermost layer)	导体外径 Conductor Outside Diameter (mm)					20℃ 时导体直流电阻最大值 Maximum DC resistance of conductor at 20 °C (Ω/km)				
				最小 Minimum	最大 Maximum				SCC ^a	NCC ^c	TCC ^b	SCA ^d	NCA ^e
					SCC ^a	TCC ^b 、NCC ^c	SCA ^d	NCA ^e					
6.00	9	37/0.455	8~16	3.02	3.12	3.12	-	-	3.05	3.26	3.3	-	-
		37/0.45											
8.00	8	133/0.287	8~16	4.01	4.22	4.29	-	-	2.16	2.28	2.3	-	-
		(133/0.29)											
10.00	7	133/0.32	8~16	4.55	4.80	4.80	-	-	1.68	1.8	1.82	-	-
13.00	6	133/0.361	8~16	5.03	5.28	5.38	-	-	1.37	1.43	1.46	-	-
		(133/0.36)											
16.00	5	133/0.39	8~16	5.45	5.85	5.85	-	-	1.13	1.21	1.22	-	-
20.00	4	133/0.455	8~16	6.35	6.68	6.81	-	-	0.866	0.902	0.919	-	-
		(133/0.45)											
33.00	2	665/0.254	8~16	8.13	8.64	8.64	-	-	0.558	0.581	0.6	-	-
45.00	1	817/0.254	8~16	9.14	9.65	9.65	-	-	0.456	0.472	0.489	-	-
55.00	0	1045/0.254	8~16	10.00	10.80	10.8	-	-	0.354	0.371	0.381	-	-
70.00	0	1330/0.254	8~16	11.20	12.10	12.1	-	-	0.279	0.292	0.299	-	-
85.00	0	1665/0.254	8~16	12.70	13.70	13.7	-	-	0.223	0.233	0.233	-	-
110.00	0	2109/0.254	8~16	14.40	15.40	15.4	-	-	0.177	0.184	0.184	-	-

注：SCC^a代表镀银铜绞线，TCC^b代表镀锡铜绞线，NCC^c代表镀镍铜绞线，SCA^d代表镀银高强度铜合金线，NCA^e代表镀镍高强度铜合金线。

P.S: SCCa represents silver plated copper stranded wire, TCCb represents tin plated copper stranded wire, NCCc represents nickel plated copper stranded wire, SCA^d represents silver plated high-strength copper alloy wire, and NCA^e represents nickel plated high-strength copper alloy wire.

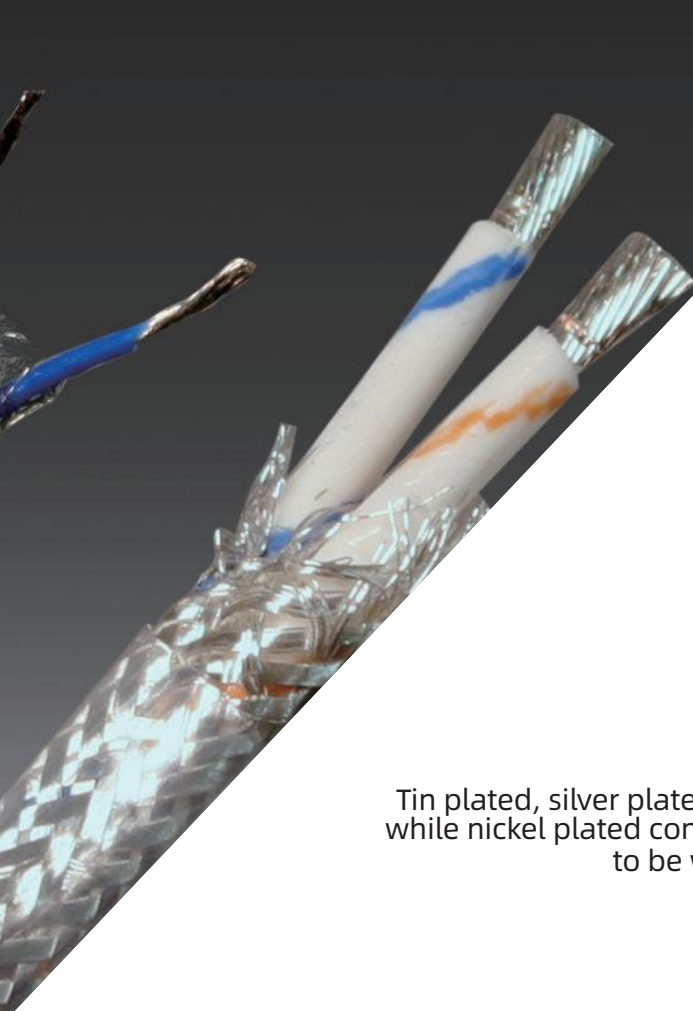
注：多芯电缆的导体直流电阻应是相应规格电线的1.05倍。

The DC resistance of the conductor of a multi-core cable should be 1.05 times that of the corresponding specification wire.

A composite image featuring a space shuttle launching from the bottom left towards the top center, with a large, braided cable extending from the top right towards the center. The background is a view of Earth from space, showing blue oceans and white clouds. A large yellow diagonal shape covers the bottom half of the image, containing text.

**XFPC系列航空航天用
交联乙烯-四氟乙烯共聚物
绝缘电线电缆**

**XFPC series aerospace cross-linked
ethylene tetrafluoroethylene
copolymer insulated wires and cables**



产品使用特性 Operating characteristics

温度范围/Temperature range

-65°C~+150°C

(镀锡导体/Tinned conductor)

-65°C~+200°C

(镀银、镀镍导体/Silver and nickel plated conductors)

额定电压/Rated voltage

AC600V

最小弯曲半径/Minimum bend radius

电缆外径的8倍/8 times the outer diameter of the cable

可焊性/Solderability

镀锡、镀银导体及屏蔽产品具有可焊性，

镀镍导体及屏蔽产品不建议焊接，

采取压接等其他方式。

Tin plated, silver plated conductors and shielding products have weldability, while nickel plated conductors and shielding products are not recommended to be welded, and other methods such as crimping are used.

产品特点 and 用途 Features and Uses

XFPC系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆是在贯彻国军标GJB 773B-2015，同时参照瑞侃55PC系列产品、美国军用标准NEMA WC 27500的基础上进行设计开发的新一代产品。

该系列产品采用经特殊改良的氟塑料绝缘，具有耐高低温（-65°C~+200°C），重量轻，不热缩和卓越的机械韧性，符合盐雾、霉菌和耐湿的三防要求，并且有优异的抗高能辐射特性，可在恶劣的环境中提供高可靠的服务。产品经国内专业电缆检测机构检测，所有性能指标均符合GJB 773B-2015、瑞侃55PC系列产品、美国军用标准NEMA WC 27500的要求。广泛适用于航天、航空、舰船，电子等军工领域。

XFPC系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆已在多个重点型号产品上得到了批量使用，据用户反映，完全可以替代国外同类55PC类产品，打破了国外公司长期对我国航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆领域的垄断。

The XFPC series of cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables for aerospace use are a new generation product designed and developed based on the implementation of the national military standard GJB 773B-2015, while also referring to the Raychem 55PC series products and the US military standard NEMA WC 27500.

This series of products adopts specially improved fluoroplastic insulation, which has high and low temperature resistance (-65 °C~+200 °C), light weight, no heat shrinkage, and excellent mechanical toughness. It meets the requirements of salt spray, mold, and moisture resistance, and has excellent resistance to high-energy radiation. It can provide highly reliable services in harsh environments. The product has been tested by professional cable testing institutions in China, and all performance indicators meet the requirements of GJB 773B-2015, Raychem 55PC series products, and the US military standard NEMA WC 27500. Widely applicable to military industries such as aerospace, aviation, naval vessels, and electronics.

The XFPC series of cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables for aerospace use have been widely used in multiple key models of products. According to user feedback, they can completely replace similar 55PC products from abroad, breaking the long-standing monopoly of foreign companies in the field of cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables for aerospace use in China.

产品主要性能

XFPC系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆是采用交联乙烯-四氟乙烯共聚物(X-ETFE)绝缘,通过一定剂量高能电子辐照后使其产生交联后制成的产品,它的特殊结构使该导线具有:外径小、重量轻、阻燃、耐老化、机械强度大、抵抗化学侵蚀及使用方便等特点,所有这些优越性能很好地符合航空及机概设备对空间及重量的要求、并为其提供了安全可靠的机械性能和化学性能。其性能主要表现在:

①外径小、重量轻:XF系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆的导体采用同芯式绞合、绞合外径小,绝缘和护套厚度设计薄,使导线或线束的外径减小许多,重量比其它同规格的导线减轻10%~20%。

②燃烧性:XFPC系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆的绝缘及护套燃烧性符合GJB773B的规定,供火30s后,电线绝缘应在3s内自行熄灭,电缆护套应在30s内自行熄灭,火焰延燃应不超过76mm。

③抵抗化学侵蚀:XFPC系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆的绝缘及护套层不受飞机液体的浸蚀,包括:水溶液,砌碱液,燃料油,润滑油,清洁剂,冷却剂和防冻剂,在高温高湿情况下仍不受影响。

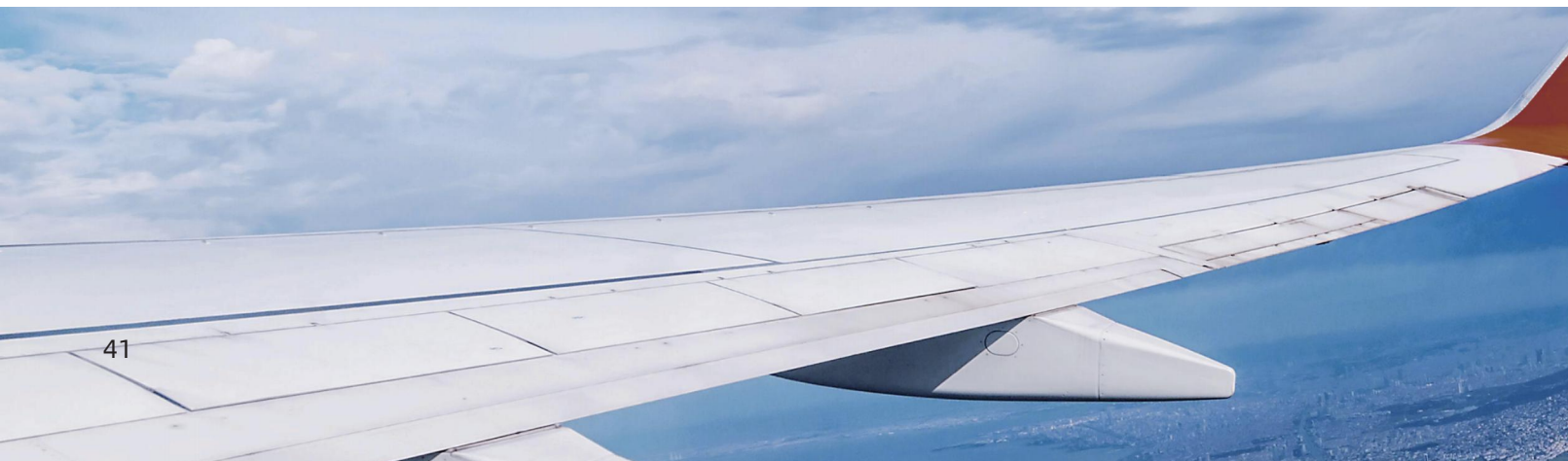
④耐高低温:XFPC系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆经辐照交联的绝缘层和护套层增加了高分子材料耐高温特性,耐温达200℃,且能通过持续300℃7小时的加速老化试验,此温度大大高于ETFE的熔化温度(270℃),这些寿命特性和不熔化的特性使得导线有了非常好的热稳定性。同时XF系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆也有很好的耐低温特性,在低温-65℃时仍保持良好的柔软性,并在低于该温度时仍保持相同的特性。

⑤卓越的抗辐射性能:XFPC系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆由于对绝缘及护套的氟化共聚物进行交联,导线有着良好的氧稳定性,能抵抗外空间的电离辐射,在暴露于5×10⁸Rad辐射中仍能正常工作和保持柔软。产品符合空间标准NASA-SP-R-0022。

⑥机械强度大,抗开裂性能优越:导线对纵向切入与磨擦有很强耐抵抗力,抗开裂性能极为优异,是其它导线无法比拟的,这也是飞机、航天器及机载设备需要考虑的重要指标之一。

⑦可靠性高:XFPC系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆在恶劣的环境中提供高可靠性服务,这主要体现在能承受综合环境条件的考验,它们包括高温、高湿、强日晒、干热、寒冷、风沙、雨淋、低气压、霉菌、盐雾、油雾、化学药品,核中子与付货的辐射、震动、冲击、弯曲、磨擦、扭绕等直接和间接作用。

⑧操作方便:XFPC系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆有很容易操作的特点,非常容易用自动化设备标记或手工进行标记,非常容易剥线,挂锡,完全可以使用打印及喷墨打印设备进行编组标记。导线焊接时绝缘体不再熔化或收缩,从而变得很容易操作。



Main performance of the product

XFPC series aerospace insulated wires and cables are made of cross-linked ethylene tetrafluoroethylene copolymer (X-ETFE) insulation, which is cross-linked by a certain amount of high-energy electron irradiation. Its special structure makes the wire have the characteristics of small outer diameter, light weight, flame retardancy, aging resistance, high mechanical strength, resistance to chemical corrosion, and convenient use. All of these superior properties well meet the space and weight requirements of aviation and aviation equipment, and provide them with safe and reliable mechanical and chemical properties. Its performance is mainly manifested in:

① Small outer diameter and light weight: The XF series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wire and cable conductors adopt the same core stranding method, with a small outer diameter. The insulation and sheath thickness are designed to be thin, which greatly reduces the outer diameter of the wire or harness, and reduces the weight by 10% to 20% compared to other conductors of the same specification.

② Flammability: The insulation and sheath flammability of XFPC series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables comply with the regulations of GJB773B. After 30 seconds of fire supply, the wire insulation should extinguish itself within 3 seconds, the cable sheath should extinguish itself within 30 seconds, and the flame spread should not exceed 76mm.

③ Resistance to chemical corrosion: The insulation and sheath layer of XFPC series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables are not corroded by aircraft liquids, including: aqueous solution, alkaline solution, fuel oil, lubricating oil, cleaning agent, coolant, and antifreeze, which are still unaffected under high temperature and humidity conditions.

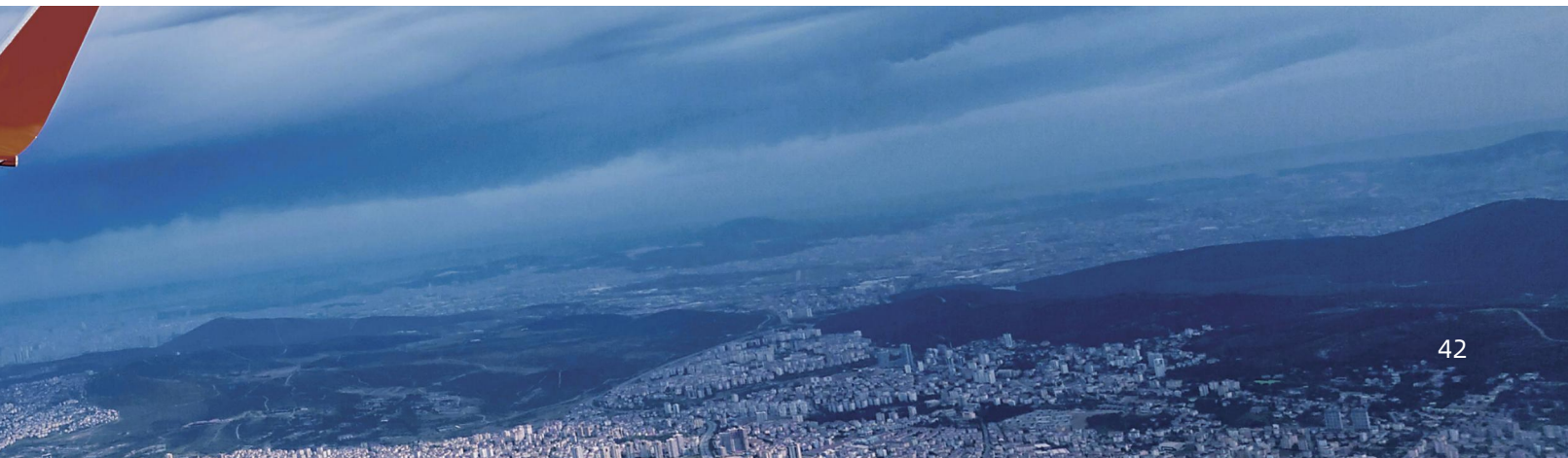
④ High and low temperature resistance: XFPC series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables have increased the high-temperature resistance of polymer materials through irradiation crosslinking of the insulation layer and sheath layer, with a temperature resistance of up to 200 °C. They can withstand accelerated aging tests lasting for 7 hours at 300 °C, which is much higher than the melting temperature of ETFE (270 °C). These life characteristics and non melting characteristics provide excellent thermal stability for the wire. At the same time, XF series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables also have good low-temperature resistance characteristics, maintaining good flexibility at low temperatures of -65 °C, and maintaining the same characteristics below that temperature.

⑤ Excellent radiation resistance: XFPC series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables have good oxygen stability due to cross-linking of fluorinated copolymers in insulation and sheath, and can resist ionizing radiation in external space. When exposed to 5 × 10⁵ rad it can still work normally and remain soft under 108Rad radiation. The product meets the space standard NASA-SP-R-0022.

⑥ High mechanical strength and superior crack resistance: The wire has strong resistance to longitudinal penetration and friction, and its crack resistance is extremely excellent, which is unparalleled by other wires. This is also one of the important indicators that aircraft, spacecraft, and airborne equipment need to consider.

⑦ High reliability: XFPC series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables provide high reliability services in harsh environments, mainly reflected in the ability to withstand comprehensive environmental conditions, including high temperature, high humidity, strong sunlight, dry heat, cold, sandstorms, rain, low air pressure, mold, salt mist, oil mist, chemicals, nuclear neutrons and radiation, vibration, impact, bending, friction Twisting and other direct and indirect effects.

⑧ Easy to operate: XFPC series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables have the characteristic of easy operation, easy to mark with automated equipment or manually, easy to strip and hang tin, and can be completely marked with printing and inkjet printing equipment for grouping. During wire welding, the insulation no longer melts or contracts, making it easy to operate.



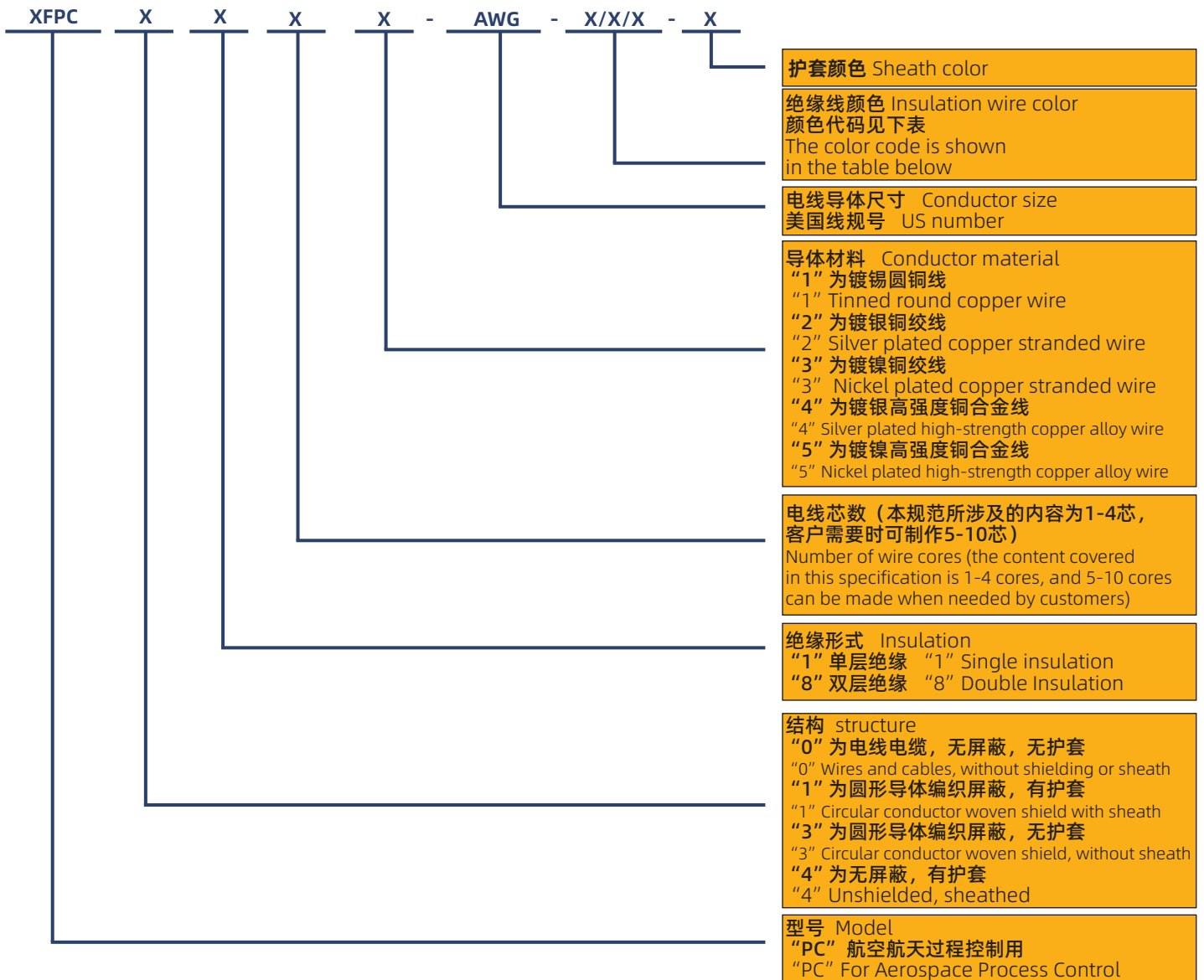
主要特性参数

Main characteristic parameters

电性能 Electrical performance	
绝缘电阻/Insulation resistance (MΩ·km)	>1500 (AWG32 ~ AWG9)
	>900 (AWG8 ~ AWG0000)
绝缘表面电阻/Insulation surface resistance (MΩ·mm)	>1.3×10 ⁴
机械性能 Mechanical properties	
抗张强度/tensile strength (MPa)	≥34.5
绝缘伸长率/Insulation elongation (%)	≥75
护套伸长率/Sheath elongation (%)	≥50
阻燃性能 Flame retardant performance	
延燃时间/Combustion extension time (S)	≤3 (电线/wire)、≤30 (电缆/cable)
燃烧长度/Burning length (mm)	≤76
温度特性 Temperature characteristic	
交联度验证/Crosslinking degree verification (300±3°C、7h)	√
低温弯曲试验/Low temperature bending test (-65±3°C、4h)	√
绝缘层伸缩试验/Insulation layer expansion test (230±3°C、6h) (mm)	< 3.2
耐热冲击性/thermal shock resistance (200±3°C~-65±3°C、四个循环/Four cycles) (mm)	< 1.5
老化试验/Ageing test (230±3°C、500h)	√
高温卷绕试验/High temperature winding test (313±3°C、2h)	√
化学性能 CHEMICAL	
吸水率/Absorption (%)	< 0.03
水解稳定性/HYDROLYTIC STABILITY	不水解/Not hydrolyzed
浸液试验/Immersion test	√
其它环境性能 Other environmental performance	
冒烟/Smoking (250±5°C、15min)	√
粘连试验/Adhesion test (230±3°C、24h)	√
潮湿试验/Moisture test (15次循环/15 Four cycles、360h)	√

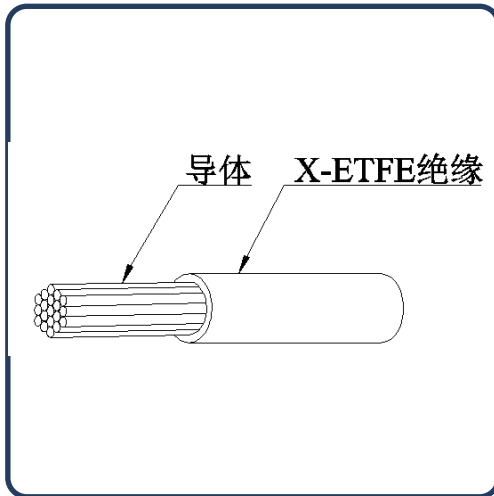
产品型号规格命名方法

Naming method for product models and specifications



颜色代码对照表 Color Code Comparison Table

颜色 Color	黑 /Black	棕/Brown	红/Red	橙/Orange	黄/Yellow	绿/Green	蓝/Bue	紫/Purple	灰/Grey	白/White
颜色标识数字代码 Color identification number code	0	1	2	3	4	5	6	7	8	9
色带标识数字代码 Color Band Identification Number Code	90	91	92	93	94	95	96	97	98	—



产品型号规格命名方法

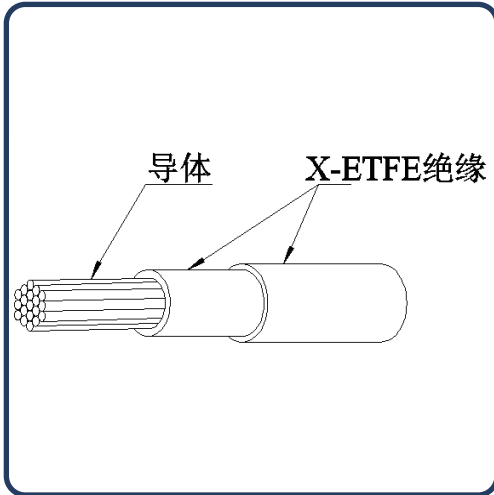
Naming method for product models and specifications

XFPC系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆的绝缘分单层绝缘结构和双层绝缘结构。单层绝缘结构最适用于需要节约空间和减轻重量的地方；双层绝缘结构是为了符合其强度的要求以防止在安装时机械磨损引起的损坏而设计的，内层绝缘与外层绝缘优先用不同的颜色区分。

The insulation of XFPC series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables can be divided into single-layer insulation structure and double-layer insulation structure. Single layer insulation structure is most suitable for areas that require space conservation and weight reduction; The double-layer insulation structure is designed to meet its strength requirements to prevent damage caused by mechanical wear during installation. The inner insulation and outer insulation are distinguished by different colors in priority.

型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFPC0111	XFPC0811	镀锡 Tin-plating
XFPC0112	XFPC0812	镀银 Silver plating
XFPC0113	XFPC0813	镀镍 Nickel Plating
XFPC0114	XFPC0814	镀银铜合金 Silver plated copper alloy
XFPC0115	XFPC0815	镀镍铜合金 Nickel plated copper alloy

型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFPC011*-32-★	0.035	7/0.08	0.54	0.71
XFPC011*-30-★	0.06	7/0.102 (7/0.10)	0.60	0.95
XFPC011*-28-★	0.08	7/0.127 (7/0.12)	0.68	1.32
XFPC011*-26-★	0.14	19/0.102 (19/0.10)	0.77	1.99
XFPC011*-24-★	0.20	19/0.127(19/0.12)	0.90	2.87
XFPC011*-22-★	0.35	19/0.16	1.05	4.15
XFPC011*-20-★	0.50	19/0.203(19/0.20)	1.26	6.35
XFPC011*-19-★	0.75	19/0.227(19/0.23)	1.44	8.54
XFPC011*-18-★	1.00	19/0.254(19/0.26)	1.50	9.65
XFPC011*-16-★	1.20	19/0.287(19/0.28)	1.69	12.32
XFPC011*-15-★	1.50	19/0.32	1.95	16.10
XFPC011*-14-★	2.00	19/0.361(19/0.36)	2.06	19.06
XFPC011*-13-★	2.50	37/0.30	2.40	27.30
XFPC011*-12-★	3.00	37/0.32	2.54	29.30
XFPC011*-10-★	5.00	37/0.404(37/0.40)	3.20	47.18



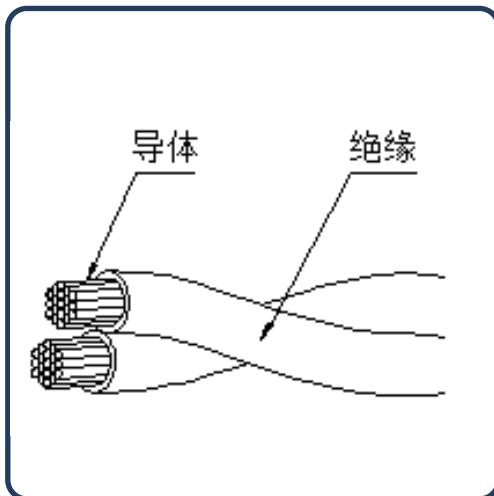
产品型号规格命名方法

Naming method for product models and specifications

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型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFPC081*-32-★	0.035	7/0.08	0.73	1.06
XFPC081*-30-★	0.06	7/0.102 (7/0.10)	0.79	1.34
XFPC081*-28-★	0.08	7/0.127 (7/0.12)	0.85	1.70
XFPC081*-26-★	0.14	19/0.102 (19/0.10)	0.98	2.51
XFPC081*-24-★	0.20	19/0.127 (19/0.12)	1.10	3.40
XFPC081*-22-★	0.35	19/0.16	1.26	4.75
XFPC081*-20-★	0.50	19/0.203(19/0.20)	1.47	6.99
XFPC081*-19-★	0.75	19/0.227(19/0.23)	1.69	9.58
XFPC081*-18-★	1.00	19/0.254(19/0.26)	1.73	10.66
XFPC081*-16-★	1.20	19/0.287(19/0.28)	1.93	13.37
XFPC081*-15-★	1.50	19/0.32	2.18	18.26
XFPC081*-14-★	2.00	19/0.361(19/0.36)	2.34	20.50
XFPC081*-13-★	2.50	37/0.30	2.66	28.85
XFPC081*-12-★	3.00	37/0.32	2.81	31.37
XFPC081*-11-★	4.00	37/0.37	3.15	43.55
XFPC081*-10-★	5.00	37/0.404 (37/0.40)	3.38	48.20
XFPC081*-9-★	6.00	37/0.455 (37/0.45)	3.90	64.30
XFPC081*-8-★	8.00	133/0.287(133/0.29)	4.92	89.14
XFPC081*-7-★	10.00	133/0.32	5.62	112.45
XFPC081*-6-★	13.00	133/0.361(133/0.36)	6.05	139.36
XFPC081*-5-★	16.00	133/0.39	7.05	173.22
XFPC081*-4-★	20.00	133/0.455(133/0.45)	7.73	219.87
XFPC081*-2-★	33.00	665/0.254	9.73	357.17
XFPC081*-0-★	55.00	1045/0.254	11.84	544.68
XFPC081*-00-★	70.00	1330/0.254	13.34	715.82



产品型号规格命名方法

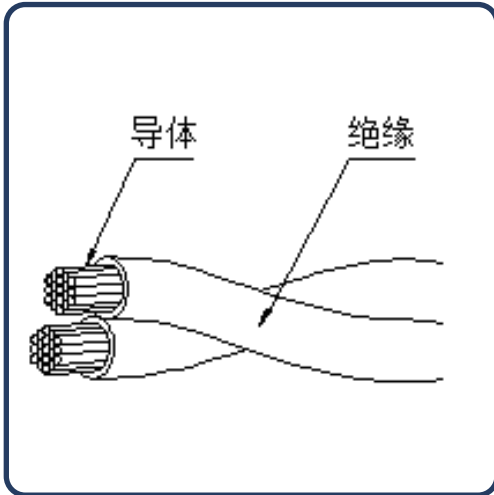
Naming method for product models and specifications

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The insulation of XFPC series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables can be divided into single-layer insulation structure and double-layer insulation structure. Single layer insulation structure is most suitable for areas that require space conservation and weight reduction; The double-layer insulation structure is designed to meet its strength requirements to prevent damage caused by mechanical wear during installation. The inner insulation and outer insulation are distinguished by different colors in priority.

型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFPC0121	XFPC0821	镀锡 Tin-plating
XFPC0122	XFPC0822	镀银 Silver plating
XFPC0123	XFPC0823	镀镍 Nickel Plating
XFPC0124	XFPC0824	镀银铜合金 Silver plated copper alloy
XFPC0125	XFPC0825	镀镍铜合金 Nickel plated copper alloy

型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFPC012*-32-★/★	0.035	7/0.08	1.18	1.45
XFPC012*-30-★/★	0.06	7/0.102 (7/0.10)	1.30	1.94
XFPC012*-28-★/★	0.08	7/0.127 (7/0.12)	1.46	2.69
XFPC012*-26-★/★	0.14	19/0.102 (19/0.10)	1.64	4.06
XFPC012*-24-★/★	0.20	19/0.127(19/0.12)	1.90	5.85
XFPC012*-22-★/★	0.35	19/0.16	2.20	8.47
XFPC012*-20-★/★	0.50	19/0.203(19/0.20)	2.62	12.95
XFPC012*-19-★/★	0.75	19/0.227(19/0.23)	2.98	17.42
XFPC012*-18-★/★	1.00	19/0.254(19/0.26)	3.10	19.69
XFPC012*-16-★/★	1.20	19/0.287(19/0.28)	3.48	25.13
XFPC012*-15-★/★	1.50	19/0.32	4.06	32.84
XFPC012*-14-★/★	2.00	19/0.361(19/0.36)	4.28	38.88
XFPC012*-13-★/★	2.50	37/0.30	4.96	55.69
XFPC012*-12-★/★	3.00	37/0.32	5.24	59.77
XFPC012*-10-★/★	5.00	37/0.404(37/0.40)	6.56	96.25



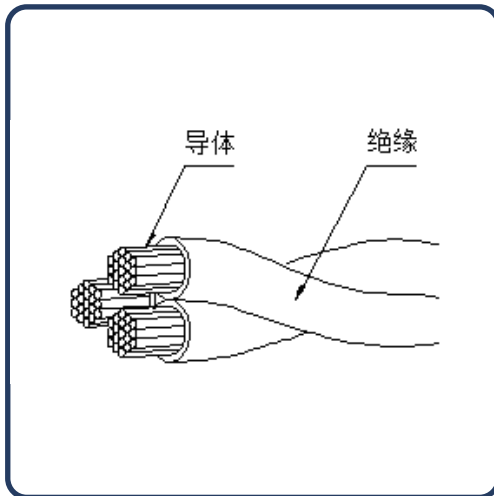
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型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFPC082*-32-★/★	0.035	7/0.08	1.56	2.16
XFPC082*-30-★/★	0.06	7/0.102 (7/0.10)	1.68	2.73
XFPC082*-28-★/★	0.08	7/0.127 (7/0.12)	1.80	3.47
XFPC082*-26-★/★	0.14	19/0.102 (19/0.10)	2.06	5.12
XFPC082*-24-★/★	0.20	19/0.127 (19/0.12)	2.30	6.94
XFPC082*-22-★/★	0.35	19/0.16	2.62	9.69
XFPC082*-20-★/★	0.50	19/0.203(19/0.20)	3.04	14.26
XFPC082*-19-★/★	0.75	19/0.227(19/0.23)	3.48	19.54
XFPC082*-18-★/★	1.00	19/0.254(19/0.26)	3.62	21.75
XFPC082*-16-★/★	1.20	19/0.287(19/0.28)	4.02	27.27
XFPC082*-15-★/★	1.50	19/0.32	4.52	37.25
XFPC082*-14-★/★	2.00	19/0.361(19/0.36)	4.84	41.82
XFPC082*-13-★/★	2.50	37/0.30	5.48	58.85
XFPC082*-12-★/★	3.00	37/0.32	5.78	63.99
XFPC082*-11-★/★	4.00	37/0.37	6.50	88.84
XFPC082*-10-★/★	5.00	37/0.404 (37/0.40)	6.96	98.33



产品型号规格命名方法

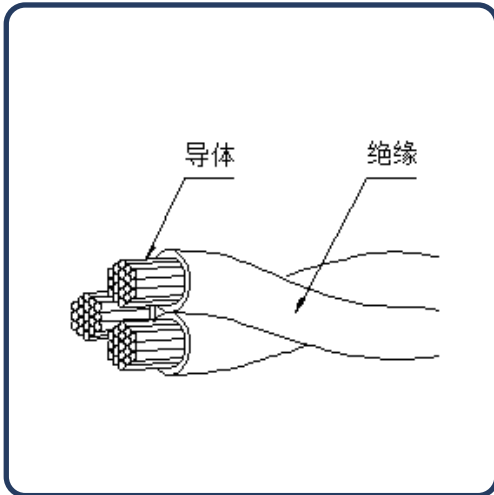
Naming method for product models and specifications

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型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFPC0131	XFPC0831	镀锡 Tin-plating
XFPC0132	XFPC0832	镀银 Silver plating
XFPC0133	XFPC0833	镀镍 Nickel Plating
XFPC0134	XFPC0834	镀银铜合金 Silver plated copper alloy
XFPC0135	XFPC0835	镀镍铜合金 Nickel plated copper alloy

型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFPC013*-32-★/★/★	0.035	7/0.08	1.27	2.17
XFPC013*-30-★/★/★	0.06	7/0.102 (7/0.10)	1.40	2.91
XFPC013*-28-★/★/★	0.08	7/0.127 (7/0.12)	1.58	4.04
XFPC013*-26-★/★/★	0.14	19/0.102 (19/0.10)	1.77	6.09
XFPC013*-24-★/★/★	0.20	19/0.127(19/0.12)	2.05	8.78
XFPC013*-22-★/★/★	0.35	19/0.16	2.38	12.70
XFPC013*-20-★/★/★	0.50	19/0.203(19/0.20)	2.83	19.43
XFPC013*-19-★/★/★	0.75	19/0.227(19/0.23)	3.22	26.13
XFPC013*-18-★/★/★	1.00	19/0.254(19/0.26)	3.35	29.53
XFPC013*-16-★/★/★	1.20	19/0.287(19/0.28)	3.76	37.70
XFPC013*-15-★/★/★	1.50	19/0.32	4.38	49.27
XFPC013*-14-★/★/★	2.00	19/0.361(19/0.36)	4.62	58.32
XFPC013*-13-★/★/★	2.50	37/0.30	5.36	83.54
XFPC013*-12-★/★/★	3.00	37/0.32	5.66	89.66
XFPC013*-10-★/★/★	5.00	37/0.404(37/0.40)	7.08	144.37



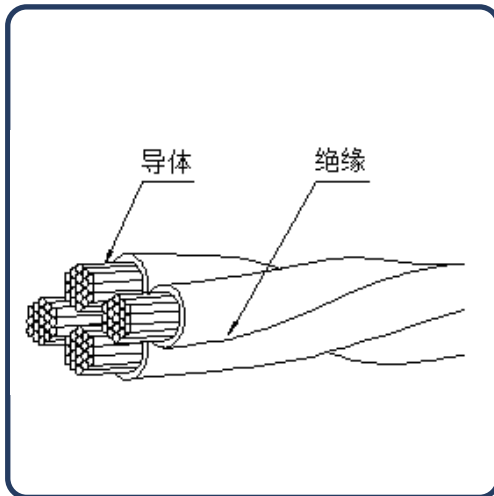
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型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFPC083*-32-★/★/★	0.035	7/0.08	1.68	3.24
XFPC083*-30-★/★/★	0.06	7/0.102 (7/0.10)	1.81	4.10
XFPC083*-28-★/★/★	0.08	7/0.127 (7/0.12)	1.94	5.20
XFPC083*-26-★/★/★	0.14	19/0.102 (19/0.10)	2.22	7.68
XFPC083*-24-★/★/★	0.20	19/0.127 (19/0.12)	2.48	10.40
XFPC083*-22-★/★/★	0.35	19/0.16	2.83	14.54
XFPC083*-20-★/★/★	0.50	19/0.203(19/0.20)	3.28	21.39
XFPC083*-19-★/★/★	0.75	19/0.227(19/0.23)	3.76	29.31
XFPC083*-18-★/★/★	1.00	19/0.254(19/0.26)	3.91	32.62
XFPC083*-16-★/★/★	1.20	19/0.287(19/0.28)	4.34	40.91
XFPC083*-15-★/★/★	1.50	19/0.32	4.88	55.88
XFPC083*-14-★/★/★	2.00	19/0.361(19/0.36)	5.23	62.73
XFPC083*-13-★/★/★	2.50	37/0.30	5.92	88.28
XFPC083*-12-★/★/★	3.00	37/0.32	6.24	95.99
XFPC083*-11-★/★/★	4.00	37/0.37	7.02	133.26
XFPC083*-10-★/★/★	5.00	37/0.404 (37/0.40)	7.52	147.49



产品型号规格命名方法

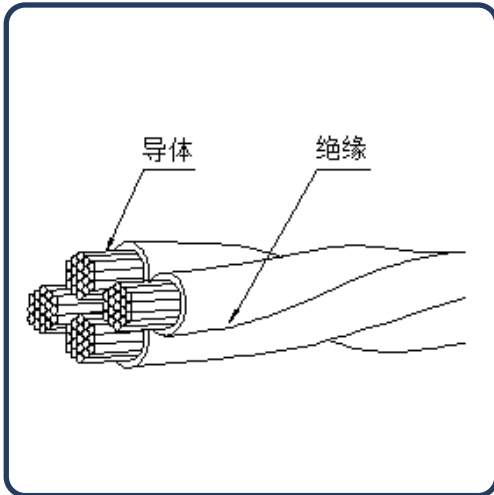
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The insulation of XFPC series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables can be divided into single-layer insulation structure and double-layer insulation structure. Single layer insulation structure is most suitable for areas that require space conservation and weight reduction; The double-layer insulation structure is designed to meet its strength requirements to prevent damage caused by mechanical wear during installation. The inner insulation and outer insulation are distinguished by different colors in priority.

型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFPC0141	XFPC0841	镀锡 Tin-plating
XFPC0142	XFPC0842	镀银 Silver plating
XFPC0143	XFPC0843	镀镍 Nickel Plating
XFPC0144	XFPC0844	镀银铜合金 Silver plated copper alloy
XFPC0145	XFPC0845	镀镍铜合金 Nickel plated copper alloy

型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFPC014*-32-★/★/★/★	0.035	7/0.08	1.61	2.90
XFPC014*-30-★/★/★/★	0.06	7/0.102 (7/0.10)	1.77	3.88
XFPC014*-28-★/★/★/★	0.08	7/0.127 (7/0.12)	1.99	5.39
XFPC014*-26-★/★/★/★	0.14	19/0.102 (19/0.10)	2.24	8.12
XFPC014*-24-★/★/★/★	0.20	19/0.127(19/0.12)	2.59	11.71
XFPC014*-22-★/★/★/★	0.35	19/0.16	3.00	16.93
XFPC014*-20-★/★/★/★	0.50	19/0.203(19/0.20)	3.58	25.91
XFPC014*-19-★/★/★/★	0.75	19/0.227(19/0.23)	4.07	34.84
XFPC014*-18-★/★/★/★	1.00	19/0.254(19/0.26)	4.23	39.37
XFPC014*-16-★/★/★/★	1.20	19/0.287(19/0.28)	4.75	50.27
XFPC014*-15-★/★/★/★	1.50	19/0.32	5.54	65.69
XFPC014*-14-★/★/★/★	2.00	19/0.361(19/0.36)	5.84	77.76
XFPC014*-13-★/★/★/★	2.50	37/0.30	6.77	111.38
XFPC014*-12-★/★/★/★	3.00	37/0.32	7.15	119.54
XFPC014*-10-★/★/★/★	5.00	37/0.404(37/0.40)	8.95	192.49



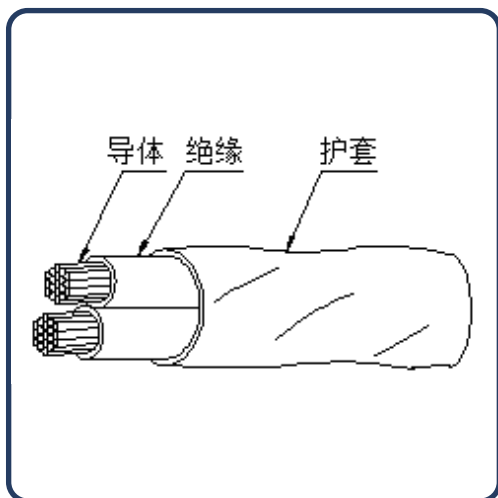
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型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFPC084*-32-★/★/★/★	0.035	7/0.08	2.13	4.32
XFPC084*-30-★/★/★/★	0.06	7/0.102 (7/0.10)	2.29	5.47
XFPC084*-28-★/★/★/★	0.08	7/0.127 (7/0.12)	2.46	6.94
XFPC084*-26-★/★/★/★	0.14	19/0.102 (19/0.10)	2.81	10.24
XFPC084*-24-★/★/★/★	0.20	19/0.127 (19/0.12)	3.14	13.87
XFPC084*-22-★/★/★/★	0.35	19/0.16	3.58	19.38
XFPC084*-20-★/★/★/★	0.50	19/0.203(19/0.20)	4.15	28.52
XFPC084*-19-★/★/★/★	0.75	19/0.227(19/0.23)	4.75	39.09
XFPC084*-18-★/★/★/★	1.00	19/0.254(19/0.26)	4.94	43.49
XFPC084*-16-★/★/★/★	1.20	19/0.287(19/0.28)	5.49	54.55
XFPC084*-15-★/★/★/★	1.50	19/0.32	6.17	74.50
XFPC084*-14-★/★/★/★	2.00	19/0.361(19/0.36)	6.61	83.64
XFPC084*-13-★/★/★/★	2.50	37/0.30	7.48	117.71
XFPC084*-12-★/★/★/★	3.00	37/0.32	7.89	127.99
XFPC084*-11-★/★/★/★	4.00	37/0.37	8.87	177.68
XFPC084*-10-★/★/★/★	5.00	37/0.404 (37/0.40)	9.50	196.66



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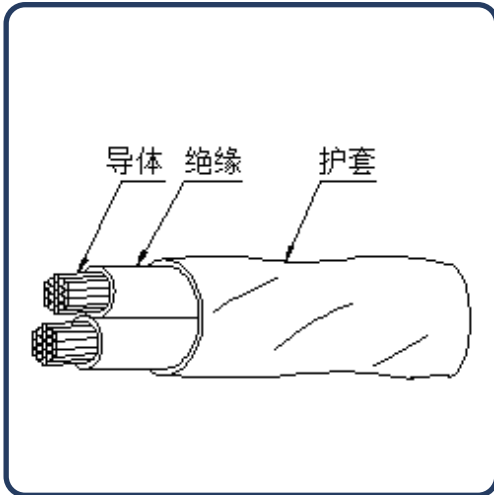
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型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFPC4121	XFPC4821	镀锡 Tin-plating
XFPC4122	XFPC4822	镀银 Silver plating
XFPC4123	XFPC4823	镀镍 Nickel Plating
XFPC4124	XFPC4824	镀银铜合金 Silver plated copper alloy
XFPC4125	XFPC4825	镀镍铜合金 Nickel plated copper alloy

型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFPC412*-32-★/★-★	0.035	7/0.08	1.70	3.28
XFPC412*-30-★/★-★	0.06	7/0.102 (7/0.10)	1.82	3.92
XFPC412*-28-★/★-★	0.08	7/0.127 (7/0.12)	1.98	4.88
XFPC412*-26-★/★-★	0.14	19/0.102 (19/0.10)	2.16	6.47
XFPC412*-24-★/★-★	0.20	19/0.127(19/0.12)	2.42	8.59
XFPC412*-22-★/★-★	0.35	19/0.16	2.72	11.57
XFPC412*-20-★/★-★	0.50	19/0.203(19/0.20)	3.14	16.59
XFPC412*-19-★/★-★	0.75	19/0.227(19/0.23)	3.50	21.50
XFPC412*-18-★/★-★	1.00	19/0.254(19/0.26)	3.62	23.92
XFPC412*-16-★/★-★	1.20	19/0.287(19/0.28)	4.00	29.84
XFPC412*-15-★/★-★	1.50	19/0.32	4.66	39.18
XFPC412*-14-★/★-★	2.00	19/0.361(19/0.36)	4.88	45.53
XFPC412*-13-★/★-★	2.50	37/0.30	5.56	63.32
XFPC412*-12-★/★-★	3.00	37/0.32	5.96	69.53
XFPC412*-10-★/★-★	5.00	37/0.404(37/0.40)	7.28	108.28



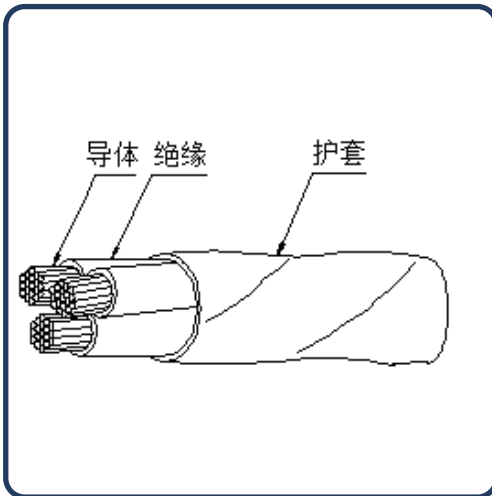
产品型号规格命名方法

Naming method for product models and specifications

XFPC系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆的绝缘分单层绝缘结构和双层绝缘结构。单层绝缘结构最适用于需要节约空间和减轻重量的地方；双层绝缘结构是为了符合其强度的要求以防止在安装时机械磨损引起的损坏而设计的，内层绝缘与外层绝缘优先用不同的颜色区分。

The insulation of XFPC series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables can be divided into single-layer insulation structure and double-layer insulation structure. Single layer insulation structure is most suitable for areas that require space conservation and weight reduction; The double-layer insulation structure is designed to meet its strength requirements to prevent damage caused by mechanical wear during installation. The inner insulation and outer insulation are distinguished by different colors in priority.

型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFPC482*-32-★/★-★	0.035	7/0.08	2.08	4.47
XFPC482*-30-★/★-★	0.06	7/0.102 (7/0.10)	2.20	5.19
XFPC482*-28-★/★-★	0.08	7/0.127 (7/0.12)	2.32	6.08
XFPC482*-26-★/★-★	0.14	19/0.102 (19/0.10)	2.58	8.05
XFPC482*-24-★/★-★	0.20	19/0.127 (19/0.12)	2.82	10.17
XFPC482*-22-★/★-★	0.35	19/0.16	3.14	13.32
XFPC482*-20-★/★-★	0.50	19/0.203(19/0.20)	3.56	18.42
XFPC482*-19-★/★-★	0.75	19/0.227(19/0.23)	4.00	24.25
XFPC482*-18-★/★-★	1.00	19/0.254(19/0.26)	4.14	26.63
XFPC482*-16-★/★-★	1.20	19/0.287(19/0.28)	4.62	33.55
XFPC482*-15-★/★-★	1.50	19/0.32	5.12	44.25
XFPC482*-14-★/★-★	2.00	19/0.361(19/0.36)	5.44	49.28
XFPC482*-13-★/★-★	2.50	37/0.30	6.20	69.02
XFPC482*-12-★/★-★	3.00	37/0.32	6.50	74.68
XFPC482*-11-★/★-★	4.00	37/0.37	7.22	100.78
XFPC482*-10-★/★-★	5.00	37/0.404 (37/0.40)	7.68	111.06



产品型号规格命名方法

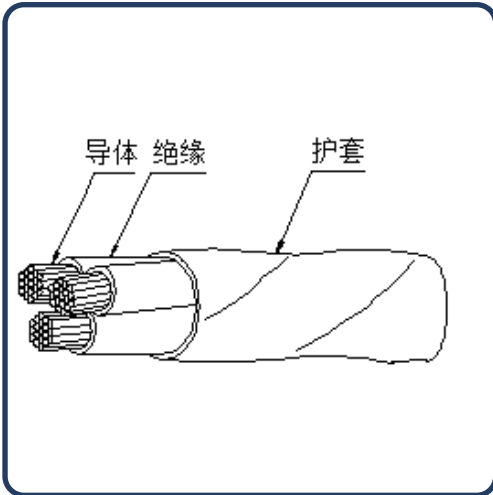
Naming method for product models and specifications

XFPC系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆的绝缘分单层绝缘结构和双层绝缘结构。单层绝缘结构最适用于需要节约空间和减轻重量的地方；双层绝缘结构是为了符合其强度的要求以防止在安装时机械磨损引起的损坏而设计的，内层绝缘与外层绝缘优先用不同的颜色区分。

The insulation of XFPC series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables can be divided into single-layer insulation structure and double-layer insulation structure. Single layer insulation structure is most suitable for areas that require space conservation and weight reduction; The double-layer insulation structure is designed to meet its strength requirements to prevent damage caused by mechanical wear during installation. The inner insulation and outer insulation are distinguished by different colors in priority.

型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFPC4131	XFPC4831	镀锡 Tin-plating
XFPC4132	XFPC4832	镀银 Silver plating
XFPC4133	XFPC4833	镀镍 Nickel Plating
XFPC4134	XFPC4834	镀银铜合金 Silver plated copper alloy
XFPC4135	XFPC4835	镀镍铜合金 Nickel plated copper alloy

型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFPC413*-32-★/★/★-★	0.035	7/0.08	1.79	4.25
XFPC413*-30-★/★/★-★	0.06	7/0.102 (7/0.10)	1.92	5.16
XFPC413*-28-★/★/★-★	0.08	7/0.127 (7/0.12)	2.10	6.53
XFPC413*-26-★/★/★-★	0.14	19/0.102 (19/0.10)	2.29	8.84
XFPC413*-24-★/★/★-★	0.20	19/0.127(19/0.12)	2.57	11.91
XFPC413*-22-★/★/★-★	0.35	19/0.16	2.90	16.27
XFPC413*-20-★/★/★-★	0.50	19/0.203(19/0.20)	3.35	23.61
XFPC413*-19-★/★/★-★	0.75	19/0.227(19/0.23)	3.74	30.84
XFPC413*-18-★/★/★-★	1.00	19/0.254(19/0.26)	3.87	34.41
XFPC413*-16-★/★/★-★	1.20	19/0.287(19/0.28)	4.28	43.13
XFPC413*-15-★/★/★-★	1.50	19/0.32	4.98	56.57
XFPC413*-14-★/★/★-★	2.00	19/0.361(19/0.36)	5.22	66.00
XFPC413*-13-★/★/★-★	2.50	37/0.30	6.08	94.24
XFPC413*-12-★/★/★-★	3.00	37/0.32	6.38	100.92
XFPC413*-10-★/★/★-★	5.00	37/0.404(37/0.40)	7.80	158.30



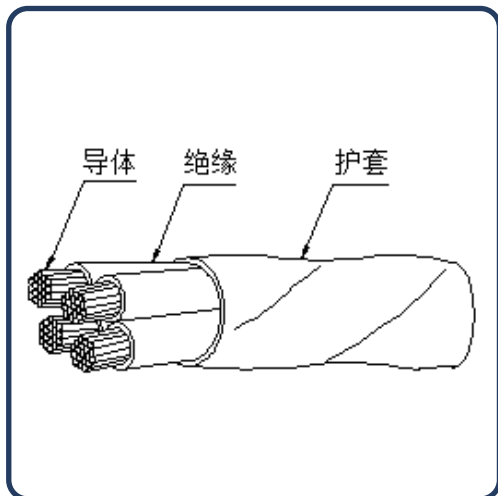
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型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFPC483*-32-★/★/★-★	0.035	7/0.08	2.20	5.88
XFPC483*-30-★/★/★-★	0.06	7/0.102 (7/0.10)	2.33	6.91
XFPC483*-28-★/★/★-★	0.08	7/0.127 (7/0.12)	2.46	8.19
XFPC483*-26-★/★/★-★	0.14	19/0.102 (19/0.10)	2.74	11.04
XFPC483*-24-★/★/★-★	0.20	19/0.127 (19/0.12)	3.00	14.12
XFPC483*-22-★/★/★-★	0.35	19/0.16	3.35	18.71
XFPC483*-20-★/★/★-★	0.50	19/0.203(19/0.20)	3.80	26.18
XFPC483*-19-★/★/★-★	0.75	19/0.227(19/0.23)	4.28	34.75
XFPC483*-18-★/★/★-★	1.00	19/0.254(19/0.26)	4.51	39.19
XFPC483*-16-★/★/★-★	1.20	19/0.287(19/0.28)	4.94	48.15
XFPC483*-15-★/★/★-★	1.50	19/0.32	5.48	63.96
XFPC483*-14-★/★/★-★	2.00	19/0.361(19/0.36)	5.95	73.19
XFPC483*-13-★/★/★-★	2.50	37/0.30	6.64	100.03
XFPC483*-12-★/★/★-★	3.00	37/0.32	6.96	108.35
XFPC483*-11-★/★/★-★	4.00	37/0.37	7.74	147.07
XFPC483*-10-★/★/★-★	5.00	37/0.404 (37/0.40)	8.24	162.23



产品型号规格命名方法

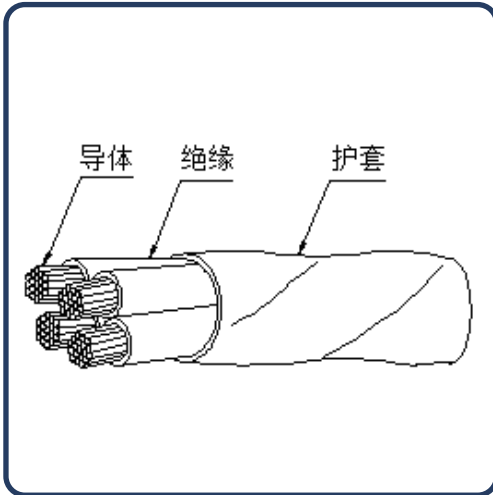
Naming method for product models and specifications

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The insulation of XFPC series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables can be divided into single-layer insulation structure and double-layer insulation structure. Single layer insulation structure is most suitable for areas that require space conservation and weight reduction; The double-layer insulation structure is designed to meet its strength requirements to prevent damage caused by mechanical wear during installation. The inner insulation and outer insulation are distinguished by different colors in priority.

型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFPC4141	XFPC4841	镀锡 Tin-plating
XFPC4142	XFPC4842	镀银 Silver plating
XFPC4143	XFPC4843	镀镍 Nickel Plating
XFPC4144	XFPC4844	镀银铜合金 Silver plated copper alloy
XFPC4145	XFPC4845	镀镍铜合金 Nickel plated copper alloy

型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFPC414*-32-★/★/★/★-★	0.035	7/0.08	2.13	5.22
XFPC414*-30-★/★/★/★-★	0.06	7/0.102 (7/0.10)	2.29	6.40
XFPC414*-28-★/★/★/★-★	0.08	7/0.127 (7/0.12)	2.51	8.18
XFPC414*-26-★/★/★/★-★	0.14	19/0.102 (19/0.10)	2.76	11.21
XFPC414*-24-★/★/★/★-★	0.20	19/0.127(19/0.12)	3.11	15.23
XFPC414*-22-★/★/★/★-★	0.35	19/0.16	3.52	20.96
XFPC414*-20-★/★/★/★-★	0.50	19/0.203(19/0.20)	4.10	30.63
XFPC414*-19-★/★/★/★-★	0.75	19/0.227(19/0.23)	4.67	41.05
XFPC414*-18-★/★/★/★-★	1.00	19/0.254(19/0.26)	4.83	45.81
XFPC414*-16-★/★/★/★-★	1.20	19/0.287(19/0.28)	5.35	57.43
XFPC414*-15-★/★/★/★-★	1.50	19/0.32	6.26	75.74
XFPC414*-14-★/★/★/★-★	2.00	19/0.361(19/0.36)	6.56	88.33
XFPC414*-13-★/★/★/★-★	2.50	37/0.30	7.49	123.51
XFPC414*-12-★/★/★/★-★	3.00	37/0.32	7.87	132.32
XFPC414*-10-★/★/★/★-★	5.00	37/0.404(37/0.40)	9.75	210.16



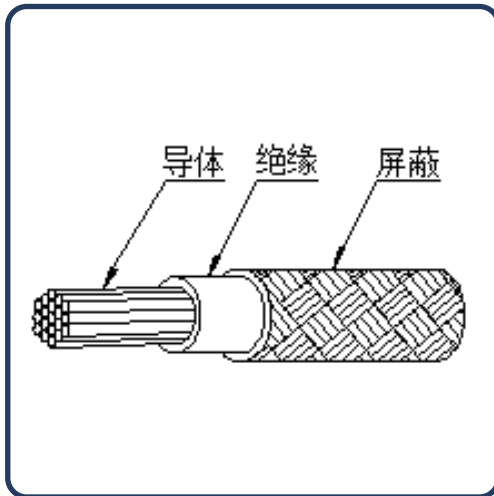
产品型号规格命名方法

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型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFPC484*-32-★/★/★/★-★	0.035	7/0.08	2.65	7.28
XFPC484*-30-★/★/★/★-★	0.06	7/0.102 (7/0.10)	2.81	8.63
XFPC484*-28-★/★/★/★-★	0.08	7/0.127 (7/0.12)	2.98	10.29
XFPC484*-26-★/★/★/★-★	0.14	19/0.102 (19/0.10)	3.33	14.03
XFPC484*-24-★/★/★/★-★	0.20	19/0.127 (19/0.12)	3.66	18.06
XFPC484*-22-★/★/★/★-★	0.35	19/0.16	4.10	24.10
XFPC484*-20-★/★/★/★-★	0.50	19/0.203(19/0.20)	4.75	34.84
XFPC484*-19-★/★/★/★-★	0.75	19/0.227(19/0.23)	5.35	46.25
XFPC484*-18-★/★/★/★-★	1.00	19/0.254(19/0.26)	5.54	50.93
XFPC484*-16-★/★/★/★-★	1.20	19/0.287(19/0.28)	6.21	64.51
XFPC484*-15-★/★/★/★-★	1.50	19/0.32	6.89	85.62
XFPC484*-14-★/★/★/★-★	2.00	19/0.361(19/0.36)	7.33	95.49
XFPC484*-13-★/★/★/★-★	2.50	37/0.30	8.20	131.04
XFPC484*-12-★/★/★/★-★	3.00	37/0.32	8.69	143.65
XFPC484*-11-★/★/★/★-★	4.00	37/0.37	9.67	195.19
XFPC484*-10-★/★/★/★-★	5.00	37/0.404 (37/0.40)	10.3	215.34



产品型号规格命名方法

Naming method for product models and specifications

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The insulation of XFPC series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables can be divided into single-layer insulation structure and double-layer insulation structure. Single layer insulation structure is most suitable for areas that require space conservation and weight reduction; The double-layer insulation structure is designed to meet its strength requirements to prevent damage caused by mechanical wear during installation. The inner insulation and outer insulation are distinguished by different colors in priority.

型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFPC4141	XFPC4841	镀锡 Tin-plating
XFPC4142	XFPC4842	镀银 Silver plating
XFPC4143	XFPC4843	镀镍 Nickel Plating
XFPC4144	XFPC4844	镀银铜合金 Silver plated copper alloy
XFPC4145	XFPC4845	镀镍铜合金 Nickel plated copper alloy

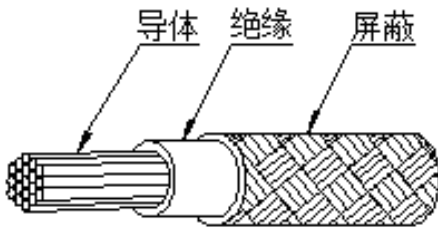
型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFPC311*-32-★	0.035	7/0.08	1.04	3.10
XFPC311*-30-★	0.06	7/0.102 (7/0.10)	1.10	3.52
XFPC311*-28-★	0.08	7/0.127 (7/0.12)	1.18	4.13
XFPC311*-26-★	0.14	19/0.102 (19/0.10)	1.27	5.06
XFPC311*-24-★	0.20	19/0.127(19/0.12)	1.40	6.32
XFPC311*-22-★	0.35	19/0.16	1.55	8.05
XFPC311*-20-★	0.50	19/0.203(19/0.20)	1.76	10.86
XFPC311*-19-★	0.75	19/0.227(19/0.23)	1.94	13.58
XFPC311*-18-★	1.00	19/0.254(19/0.26)	2.00	14.87
XFPC311*-16-★	1.20	19/0.287(19/0.28)	2.19	18.10
XFPC311*-15-★	1.50	19/0.32	2.48	22.73
XFPC311*-14-★	2.00	19/0.361(19/0.36)	2.59	26.02
XFPC311*-13-★	2.50	37/0.30	2.93	35.26
XFPC311*-12-★	3.00	37/0.32	3.07	37.67
XFPC311*-10-★	5.00	37/0.404(37/0.40)	3.73	57.50

产品型号规格命名方法

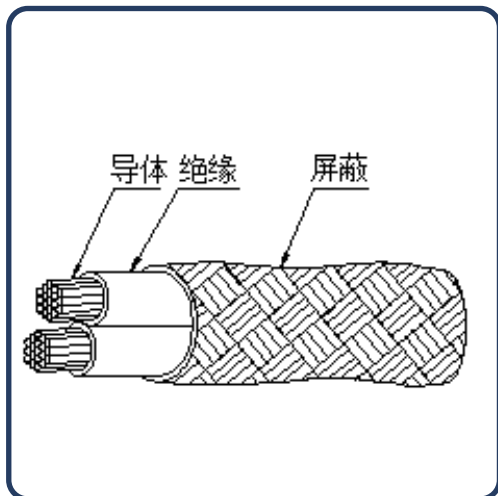
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型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFPC381*-32-★	0.035	7/0.08	1.23	4.01
XFPC381*-30-★	0.06	7/0.102 (7/0.10)	1.29	4.47
XFPC381*-28-★	0.08	7/0.127 (7/0.12)	1.35	5.01
XFPC381*-26-★	0.14	19/0.102 (19/0.10)	1.48	6.20
XFPC381*-24-★	0.20	19/0.127 (19/0.12)	1.60	7.44
XFPC381*-22-★	0.35	19/0.16	1.76	9.26
XFPC381*-20-★	0.50	19/0.203(19/0.20)	1.97	12.12
XFPC381*-19-★	0.75	19/0.227(19/0.23)	2.19	15.36
XFPC381*-18-★	1.00	19/0.254(19/0.26)	2.26	16.65
XFPC381*-16-★	1.20	19/0.287(19/0.28)	2.46	19.95
XFPC381*-15-★	1.50	19/0.32	2.71	25.57
XFPC381*-14-★	2.00	19/0.361(19/0.36)	2.87	28.28
XFPC381*-13-★	2.50	37/0.30	3.19	37.58
XFPC381*-12-★	3.00	37/0.32	3.34	40.54
XFPC381*-11-★	4.00	37/0.37	3.70	53.78
XFPC381*-10-★	5.00	37/0.404 (37/0.40)	3.93	59.10



产品型号规格命名方法

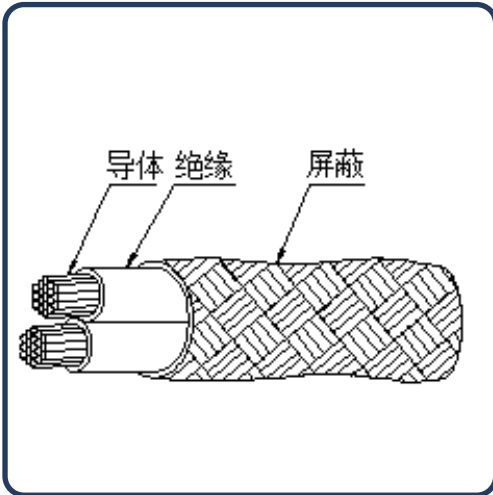
Naming method for product models and specifications

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The insulation of XFPC series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables can be divided into single-layer insulation structure and double-layer insulation structure. Single layer insulation structure is most suitable for areas that require space conservation and weight reduction; The double-layer insulation structure is designed to meet its strength requirements to prevent damage caused by mechanical wear during installation. The inner insulation and outer insulation are distinguished by different colors in priority.

型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFPC3121	XFPC3821	镀锡 Tin-plating
XFPC3122	XFPC3822	镀银 Silver plating
XFPC3123	XFPC3823	镀镍 Nickel Plating
XFPC3124	XFPC3824	镀银铜合金 Silver plated copper alloy
XFPC3125	XFPC3825	镀镍铜合金 Nickel plated copper alloy

型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFPC312*-32-★/★	0.035	7/0.08	1.63	5.23
XFPC312*-30-★/★	0.06	7/0.102 (7/0.10)	1.75	6.04
XFPC312*-28-★/★	0.08	7/0.127 (7/0.12)	1.91	7.22
XFPC312*-26-★/★	0.14	19/0.102 (19/0.10)	2.09	9.06
XFPC312*-24-★/★	0.20	19/0.127(19/0.12)	2.35	11.55
XFPC312*-22-★/★	0.35	19/0.16	2.65	14.95
XFPC312*-20-★/★	0.50	19/0.203(19/0.20)	3.07	20.55
XFPC312*-19-★/★	0.75	19/0.227(19/0.23)	3.43	25.98
XFPC312*-18-★/★	1.00	19/0.254(19/0.26)	3.55	28.56
XFPC312*-16-★/★	1.20	19/0.287(19/0.28)	3.93	35.01
XFPC312*-15-★/★	1.50	19/0.32	4.51	44.26
XFPC312*-14-★/★	2.00	19/0.361(19/0.36)	4.73	50.88
XFPC312*-13-★/★	2.50	37/0.30	5.41	69.49
XFPC312*-12-★/★	3.00	37/0.32	5.69	74.32
XFPC312*-10-★/★	5.00	37/0.404(37/0.40)	7.01	114.29



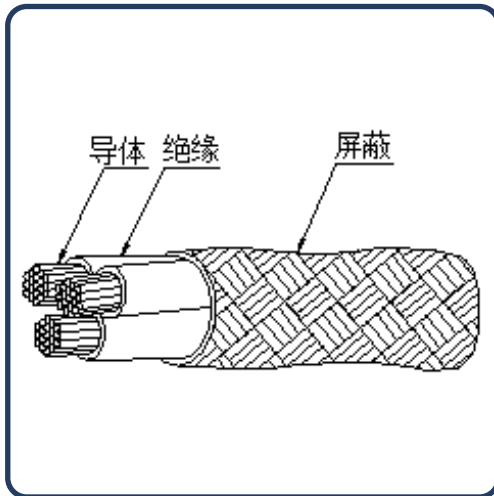
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型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFPC382*-32-★/★	0.035	7/0.08	2.01	6.95
XFPC382*-30-★/★	0.06	7/0.102 (7/0.10)	2.13	7.84
XFPC382*-28-★/★	0.08	7/0.127 (7/0.12)	2.25	8.90
XFPC382*-26-★/★	0.14	19/0.102 (19/0.10)	2.51	11.24
XFPC382*-24-★/★	0.20	19/0.127 (19/0.12)	2.75	13.69
XFPC382*-22-★/★	0.35	19/0.16	3.07	17.29
XFPC382*-20-★/★	0.50	19/0.203(19/0.20)	3.49	22.97
XFPC382*-19-★/★	0.75	19/0.227(19/0.23)	3.93	29.42
XFPC382*-18-★/★	1.00	19/0.254(19/0.26)	4.07	32.00
XFPC382*-16-★/★	1.20	19/0.287(19/0.28)	4.47	38.59
XFPC382*-15-★/★	1.50	19/0.32	4.97	49.89
XFPC382*-14-★/★	2.00	19/0.361(19/0.36)	5.29	55.30
XFPC382*-13-★/★	2.50	37/0.30	5.93	74.03
XFPC382*-12-★/★	3.00	37/0.32	6.23	79.97
XFPC382*-11-★/★	4.00	37/0.37	6.95	106.73
XFPC382*-10-★/★	5.00	37/0.404 (37/0.40)	7.41	117.43



产品型号规格命名方法

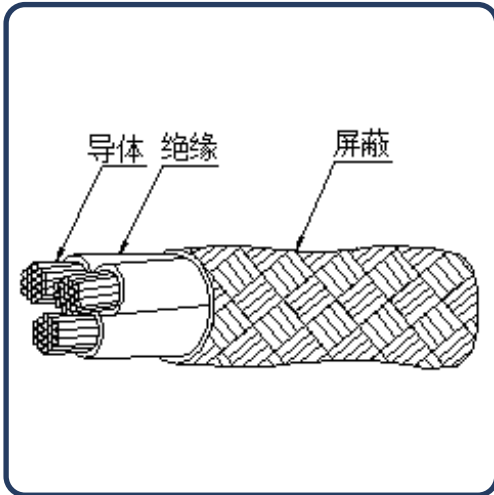
Naming method for product models and specifications

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The insulation of XFPC series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables can be divided into single-layer insulation structure and double-layer insulation structure. Single layer insulation structure is most suitable for areas that require space conservation and weight reduction; The double-layer insulation structure is designed to meet its strength requirements to prevent damage caused by mechanical wear during installation. The inner insulation and outer insulation are distinguished by different colors in priority.

型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFPC3131	XFPC3831	镀锡 Tin-plating
XFPC3132	XFPC3832	镀银 Silver plating
XFPC3133	XFPC3833	镀镍 Nickel Plating
XFPC3134	XFPC3834	镀银铜合金 Silver plated copper alloy
XFPC3135	XFPC3835	镀镍铜合金 Nickel plated copper alloy

型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFPC313*-32-★/★/★	0.035	7/0.08	1.72	6.48
XFPC313*-30-★/★/★	0.06	7/0.102 (7/0.10)	1.85	7.58
XFPC313*-28-★/★/★	0.08	7/0.127 (7/0.12)	2.02	9.21
XFPC313*-26-★/★/★	0.14	19/0.102 (19/0.10)	2.22	11.82
XFPC313*-24-★/★/★	0.20	19/0.127(19/0.12)	2.50	15.31
XFPC313*-22-★/★/★	0.35	19/0.16	2.82	20.16
XFPC313*-20-★/★/★	0.50	19/0.203(19/0.20)	3.27	28.19
XFPC313*-19-★/★/★	0.75	19/0.227(19/0.23)	3.66	36.00
XFPC313*-18-★/★/★	1.00	19/0.254(19/0.26)	3.79	39.77
XFPC313*-16-★/★/★	1.20	19/0.287(19/0.28)	4.20	49.12
XFPC313*-15-★/★/★	1.50	19/0.32	4.83	62.48
XFPC313*-14-★/★/★	2.00	19/0.361(19/0.36)	5.07	72.21
XFPC313*-13-★/★/★	2.50	37/0.30	5.80	99.53
XFPC313*-12-★/★/★	3.00	37/0.32	6.10	106.52
XFPC313*-10-★/★/★	5.00	37/0.404(37/0.40)	7.53	165.31



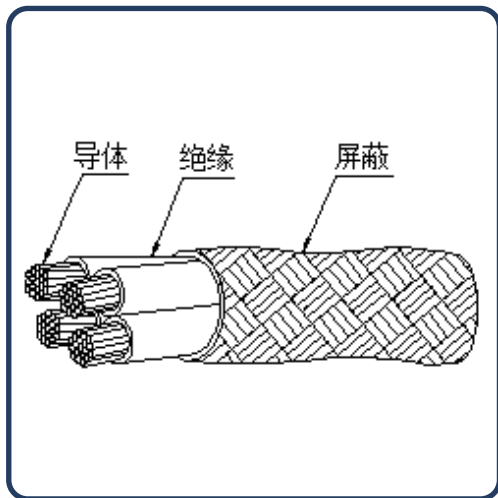
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型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFPC383*-32-★/★/★	0.035	7/0.08	2.13	8.72
XFPC383*-30-★/★/★	0.06	7/0.102 (7/0.10)	2.26	9.95
XFPC383*-28-★/★/★	0.08	7/0.127 (7/0.12)	2.39	11.42
XFPC383*-26-★/★/★	0.14	19/0.102 (19/0.10)	2.67	14.71
XFPC383*-24-★/★/★	0.20	19/0.127 (19/0.12)	2.93	18.17
XFPC383*-22-★/★/★	0.35	19/0.16	3.27	23.29
XFPC383*-20-★/★/★	0.50	19/0.203(19/0.20)	3.73	31.45
XFPC383*-19-★/★/★	0.75	19/0.227(19/0.23)	4.20	40.73
XFPC383*-18-★/★/★	1.00	19/0.254(19/0.26)	4.35	44.47
XFPC383*-16-★/★/★	1.20	19/0.287(19/0.28)	4.79	54.00
XFPC383*-15-★/★/★	1.50	19/0.32	5.33	70.51
XFPC383*-14-★/★/★	2.00	19/0.361(19/0.36)	5.67	78.35
XFPC383*-13-★/★/★	2.50	37/0.30	6.36	105.88
XFPC383*-12-★/★/★	3.00	37/0.32	6.69	114.52
XFPC383*-11-★/★/★	4.00	37/0.37	7.47	154.02
XFPC383*-10-★/★/★	5.00	37/0.404 (37/0.40)	8.05	174.26



产品型号规格命名方法

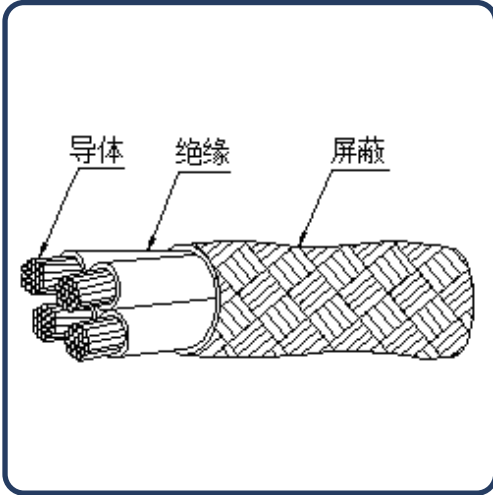
Naming method for product models and specifications

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The insulation of XFPC series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables can be divided into single-layer insulation structure and double-layer insulation structure. Single layer insulation structure is most suitable for areas that require space conservation and weight reduction; The double-layer insulation structure is designed to meet its strength requirements to prevent damage caused by mechanical wear during installation. The inner insulation and outer insulation are distinguished by different colors in priority.

型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFPC3141	XFPC3841	镀锡 Tin-plating
XFPC3142	XFPC3842	镀银 Silver plating
XFPC3143	XFPC3843	镀镍 Nickel Plating
XFPC3144	XFPC3844	镀银铜合金 Silver plated copper alloy
XFPC3145	XFPC3845	镀镍铜合金 Nickel plated copper alloy

型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFPC314*-32-★/★/★/★	0.035	7/0.08	2.06	7.72
XFPC314*-30-★/★/★/★	0.06	7/0.102 (7/0.10)	2.22	9.13
XFPC314*-28-★/★/★/★	0.08	7/0.127 (7/0.12)	2.44	11.20
XFPC314*-26-★/★/★/★	0.14	19/0.102 (19/0.10)	2.68	14.57
XFPC314*-24-★/★/★/★	0.20	19/0.127(19/0.12)	3.04	19.08
XFPC314*-22-★/★/★/★	0.35	19/0.16	3.45	25.36
XFPC314*-20-★/★/★/★	0.50	19/0.203(19/0.20)	4.02	35.82
XFPC314*-19-★/★/★/★	0.75	19/0.227(19/0.23)	4.51	46.03
XFPC314*-18-★/★/★/★	1.00	19/0.254(19/0.26)	4.68	50.98
XFPC314*-16-★/★/★/★	1.20	19/0.287(19/0.28)	5.20	63.22
XFPC314*-15-★/★/★/★	1.50	19/0.32	5.99	80.69
XFPC314*-14-★/★/★/★	2.00	19/0.361(19/0.36)	6.29	93.55
XFPC314*-13-★/★/★/★	2.50	37/0.30	7.22	129.57
XFPC314*-12-★/★/★/★	3.00	37/0.32	7.60	138.72
XFPC314*-10-★/★/★/★	5.00	37/0.404(37/0.40)	9.49	221.26



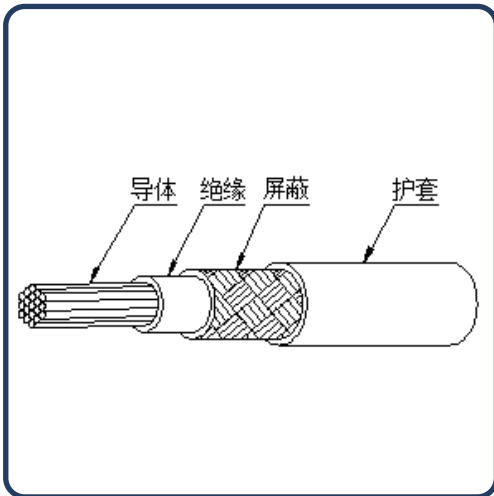
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型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFPC384*-32-★/★/★/★	0.035	7/0.08	2.57	10.49
XFPC384*-30-★/★/★/★	0.06	7/0.102 (7/0.10)	2.74	12.06
XFPC384*-28-★/★/★/★	0.08	7/0.127 (7/0.12)	2.90	13.95
XFPC384*-26-★/★/★/★	0.14	19/0.102 (19/0.10)	3.26	18.18
XFPC384*-24-★/★/★/★	0.20	19/0.127 (19/0.12)	3.58	22.66
XFPC384*-22-★/★/★/★	0.35	19/0.16	4.02	29.30
XFPC384*-20-★/★/★/★	0.50	19/0.203(19/0.20)	4.59	39.92
XFPC384*-19-★/★/★/★	0.75	19/0.227(19/0.23)	5.20	52.04
XFPC384*-18-★/★/★/★	1.00	19/0.254(19/0.26)	5.39	56.94
XFPC384*-16-★/★/★/★	1.20	19/0.287(19/0.28)	5.93	69.41
XFPC384*-15-★/★/★/★	1.50	19/0.32	6.61	91.13
XFPC384*-14-★/★/★/★	2.00	19/0.361(19/0.36)	7.05	101.40
XFPC384*-13-★/★/★/★	2.50	37/0.30	7.93	137.73
XFPC384*-12-★/★/★/★	3.00	37/0.32	8.42	153.45
XFPC384*-11-★/★/★/★	4.00	37/0.37	9.41	206.19
XFPC384*-10-★/★/★/★	5.00	37/0.404 (37/0.40)	10.03	227.12



产品型号规格命名方法

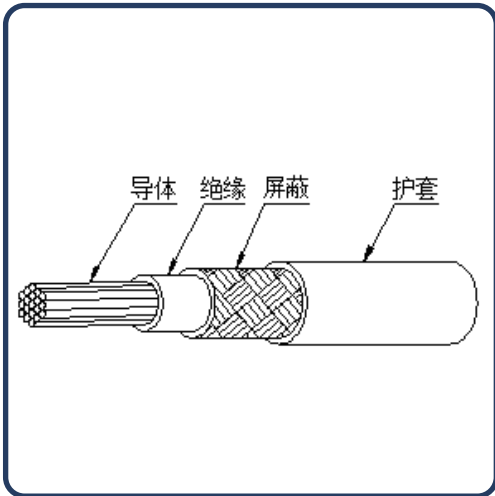
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型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFPC1111	XFPC1811	镀锡 Tin-plating
XFPC1112	XFPC1812	镀银 Silver plating
XFPC1113	XFPC1813	镀镍 Nickel Plating
XFPC1114	XFPC1814	镀银铜合金 Silver plated copper alloy
XFPC1115	XFPC1815	镀镍铜合金 Nickel plated copper alloy

型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFPC111*-32-★-★	0.035	7/0.08	1.56	4.90
XFPC111*-30-★-★	0.06	7/0.102 (7/0.10)	1.62	5.40
XFPC111*-28-★-★	0.08	7/0.127 (7/0.12)	1.70	6.12
XFPC111*-26-★-★	0.14	19/0.102 (19/0.10)	1.79	7.18
XFPC111*-24-★-★	0.20	19/0.127(19/0.12)	1.92	8.62
XFPC111*-22-★-★	0.35	19/0.16	2.07	10.55
XFPC111*-20-★-★	0.50	19/0.203(19/0.20)	2.28	13.66
XFPC111*-19-★-★	0.75	19/0.227(19/0.23)	2.46	16.63
XFPC111*-18-★-★	1.00	19/0.254(19/0.26)	2.52	18.00
XFPC111*-16-★-★	1.20	19/0.287(19/0.28)	2.71	21.49
XFPC111*-15-★-★	1.50	19/0.32	3.00	26.53
XFPC111*-14-★-★	2.00	19/0.361(19/0.36)	3.11	29.97
XFPC111*-13-★-★	2.50	37/0.30	3.45	39.68
XFPC111*-12-★-★	3.00	37/0.32	3.59	42.29
XFPC111*-10-★-★	5.00	37/0.404(37/0.40)	4.25	63.03



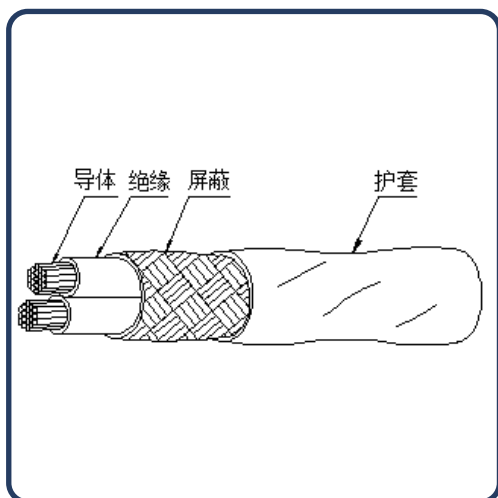
产品型号规格命名方法

Naming method for product models and specifications

XFPC系列航空航天用交联乙烯-四氟乙烯共聚物绝缘电线电缆的绝缘分单层绝缘结构和双层绝缘结构。单层绝缘结构最适用于需要节约空间和减轻重量的地方；双层绝缘结构是为了符合其强度的要求以防止在安装时机械磨损引起的损坏而设计的，内层绝缘与外层绝缘优先用不同的颜色区分。

The insulation of XFPC series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables can be divided into single-layer insulation structure and double-layer insulation structure. Single layer insulation structure is most suitable for areas that require space conservation and weight reduction; The double-layer insulation structure is designed to meet its strength requirements to prevent damage caused by mechanical wear during installation. The inner insulation and outer insulation are distinguished by different colors in priority.

型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值 Finished product outer diameter value (mm)	最大重量 Maximum Weight (kg/km)
XFPC181*-32-★-★	0.035	7/0.08	1.75	6.07
XFPC181*-30-★-★	0.06	7/0.102 (7/0.10)	1.81	6.61
XFPC181*-28-★-★	0.08	7/0.127 (7/0.12)	1.87	7.23
XFPC181*-26-★-★	0.14	19/0.102 (19/0.10)	2.00	8.61
XFPC181*-24-★-★	0.20	19/0.127 (19/0.12)	2.12	10.02
XFPC181*-22-★-★	0.35	19/0.16	2.28	12.06
XFPC181*-20-★-★	0.50	19/0.203(19/0.20)	2.49	15.21
XFPC181*-19-★-★	0.75	19/0.227(19/0.23)	2.71	18.75
XFPC181*-18-★-★	1.00	19/0.254(19/0.26)	2.78	20.14
XFPC181*-16-★-★	1.20	19/0.287(19/0.28)	2.98	23.71
XFPC181*-15-★-★	1.50	19/0.32	3.23	29.69
XFPC181*-14-★-★	2.00	19/0.361(19/0.36)	3.39	32.62
XFPC181*-13-★-★	2.50	37/0.30	3.71	42.36
XFPC181*-12-★-★	3.00	37/0.32	3.86	45.53
XFPC181*-11-★-★	4.00	37/0.37	4.22	59.27
XFPC181*-10-★-★	5.00	37/0.404 (37/0.40)	4.53	65.87



产品型号规格命名方法

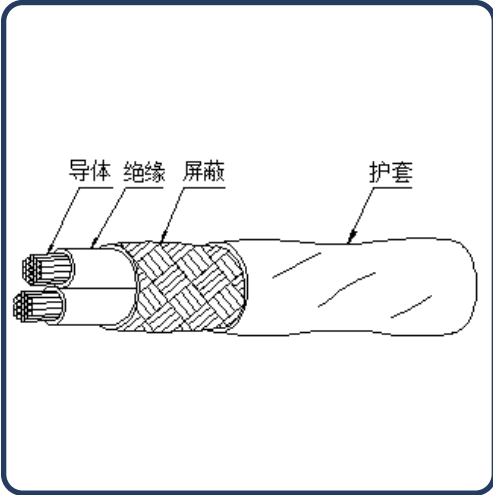
Naming method for product models and specifications

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The insulation of XFPC series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables can be divided into single-layer insulation structure and double-layer insulation structure. Single layer insulation structure is most suitable for areas that require space conservation and weight reduction; The double-layer insulation structure is designed to meet its strength requirements to prevent damage caused by mechanical wear during installation. The inner insulation and outer insulation are distinguished by different colors in priority.

型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFPC1121	XFPC1821	镀锡 Tin-plating
XFPC1122	XFPC1822	镀银 Silver plating
XFPC1123	XFPC1823	镀镍 Nickel Plating
XFPC1124	XFPC1824	镀银铜合金 Silver plated copper alloy
XFPC1125	XFPC1825	镀镍铜合金 Nickel plated copper alloy

型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFPC112*-32-★/★-★	0.035	7/0.08	2.15	7.68
XFPC112*-30-★/★-★	0.06	7/0.102 (7/0.10)	2.27	8.64
XFPC112*-28-★/★-★	0.08	7/0.127 (7/0.12)	2.43	10.02
XFPC112*-26-★/★-★	0.14	19/0.102 (19/0.10)	2.61	12.09
XFPC112*-24-★/★-★	0.20	19/0.127(19/0.12)	2.87	14.90
XFPC112*-22-★/★-★	0.35	19/0.16	3.17	18.68
XFPC112*-20-★/★-★	0.50	19/0.203(19/0.20)	3.59	24.81
XFPC112*-19-★/★-★	0.75	19/0.227(19/0.23)	3.95	30.68
XFPC112*-18-★/★-★	1.00	19/0.254(19/0.26)	4.07	33.41
XFPC112*-16-★/★-★	1.20	19/0.287(19/0.28)	4.53	41.22
XFPC112*-15-★/★-★	1.50	19/0.32	5.11	51.31
XFPC112*-14-★/★-★	2.00	19/0.361(19/0.36)	5.33	58.24
XFPC112*-13-★/★-★	2.50	37/0.30	6.13	79.62
XFPC112*-12-★/★-★	3.00	37/0.32	6.41	84.93
XFPC112*-10-★/★-★	5.00	37/0.404(37/0.40)	7.73	127.18



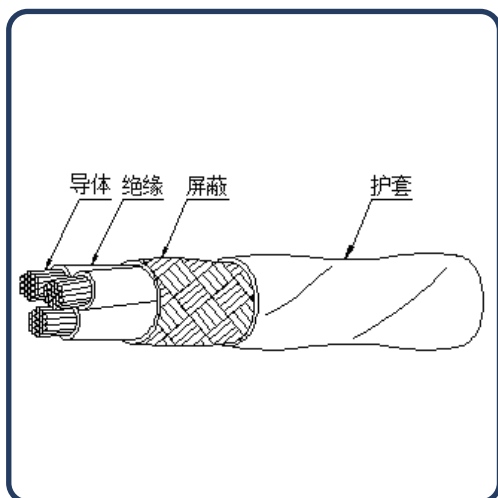
产品型号规格命名方法

Naming method for product models and specifications

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型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFPC182*-32-★/★-★	0.035	7/0.08	2.53	9.88
XFPC182*-30-★/★-★	0.06	7/0.102 (7/0.10)	2.65	10.92
XFPC182*-28-★/★-★	0.08	7/0.127 (7/0.12)	2.77	12.12
XFPC182*-26-★/★-★	0.14	19/0.102 (19/0.10)	3.03	14.79
XFPC182*-24-★/★-★	0.20	19/0.127 (19/0.12)	3.27	17.54
XFPC182*-22-★/★-★	0.35	19/0.16	3.59	21.54
XFPC182*-20-★/★-★	0.50	19/0.203(19/0.20)	4.01	27.75
XFPC182*-19-★/★-★	0.75	19/0.227(19/0.23)	4.53	35.63
XFPC182*-18-★/★-★	1.00	19/0.254(19/0.26)	4.67	38.41
XFPC182*-16-★/★-★	1.20	19/0.287(19/0.28)	5.07	45.57
XFPC182*-15-★/★-★	1.50	19/0.32	5.57	57.59
XFPC182*-14-★/★-★	2.00	19/0.361(19/0.36)	6.01	65.22
XFPC182*-13-★/★-★	2.50	37/0.30	6.65	85.06
XFPC182*-12-★/★-★	3.00	37/0.32	6.95	91.51
XFPC182*-11-★/★-★	4.00	37/0.37	7.67	119.51
XFPC182*-10-★/★-★	5.00	37/0.404 (37/0.40)	8.13	131.02



产品型号规格命名方法

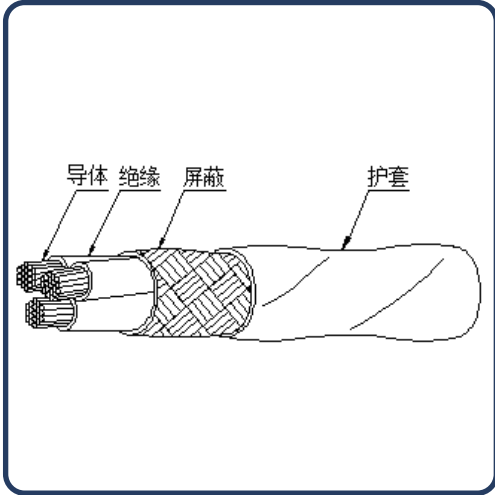
Naming method for product models and specifications

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The insulation of XFPC series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables can be divided into single-layer insulation structure and double-layer insulation structure. Single layer insulation structure is most suitable for areas that require space conservation and weight reduction; The double-layer insulation structure is designed to meet its strength requirements to prevent damage caused by mechanical wear during installation. The inner insulation and outer insulation are distinguished by different colors in priority.

型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFPC1131	XFPC1831	镀锡 Tin-plating
XFPC1132	XFPC1832	镀银 Silver plating
XFPC1133	XFPC1833	镀镍 Nickel Plating
XFPC1134	XFPC1834	镀银铜合金 Silver plated copper alloy
XFPC1135	XFPC1835	镀镍铜合金 Nickel plated copper alloy

型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFPC113*-32-★/★/★-★	0.035	7/0.08	2.24	9.18
XFPC113*-30-★/★/★-★	0.06	7/0.102 (7/0.10)	2.37	10.46
XFPC113*-28-★/★/★-★	0.08	7/0.127 (7/0.12)	2.54	12.32
XFPC113*-26-★/★/★-★	0.14	19/0.102 (19/0.10)	2.74	15.19
XFPC113*-24-★/★/★-★	0.20	19/0.127(19/0.12)	3.02	19.06
XFPC113*-22-★/★/★-★	0.35	19/0.16	3.34	24.34
XFPC113*-20-★/★/★-★	0.50	19/0.203(19/0.20)	3.79	32.99
XFPC113*-19-★/★/★-★	0.75	19/0.227(19/0.23)	4.18	41.32
XFPC113*-18-★/★/★-★	1.00	19/0.254(19/0.26)	4.31	45.27
XFPC113*-16-★/★/★-★	1.20	19/0.287(19/0.28)	4.80	56.16
XFPC113*-15-★/★/★-★	1.50	19/0.32	5.43	70.50
XFPC113*-14-★/★/★-★	2.00	19/0.361(19/0.36)	5.79	82.40
XFPC113*-13-★/★/★-★	2.50	37/0.30	6.52	111.09
XFPC113*-12-★/★/★-★	3.00	37/0.32	6.82	118.64
XFPC113*-10-★/★/★-★	5.00	37/0.404(37/0.40)	8.33	181.82



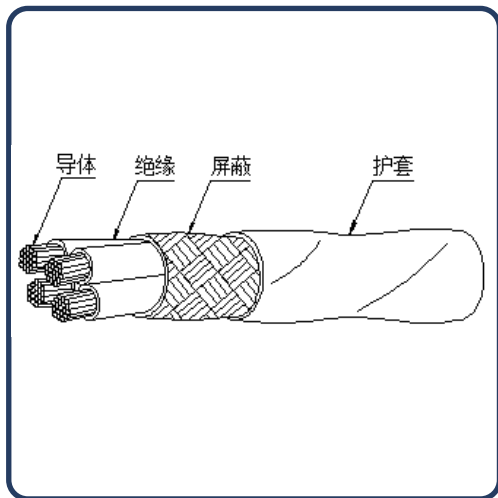
产品型号规格命名方法

Naming method for product models and specifications

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型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFPC183*-32-★/★/★-★	0.035	7/0.08	2.65	11.98
XFPC183*-30-★/★/★-★	0.06	7/0.102 (7/0.10)	2.78	13.38
XFPC183*-28-★/★/★-★	0.08	7/0.127 (7/0.12)	2.91	15.03
XFPC183*-26-★/★/★-★	0.14	19/0.102 (19/0.10)	3.19	18.69
XFPC183*-24-★/★/★-★	0.20	19/0.127 (19/0.12)	3.45	22.50
XFPC183*-22-★/★/★-★	0.35	19/0.16	3.79	28.09
XFPC183*-20-★/★/★-★	0.50	19/0.203(19/0.20)	4.25	36.85
XFPC183*-19-★/★/★-★	0.75	19/0.227(19/0.23)	4.80	47.78
XFPC183*-18-★/★/★-★	1.00	19/0.254(19/0.26)	4.95	51.75
XFPC183*-16-★/★/★-★	1.20	19/0.287(19/0.28)	5.39	61.95
XFPC183*-15-★/★/★-★	1.50	19/0.32	6.05	81.18
XFPC183*-14-★/★/★-★	2.00	19/0.361(19/0.36)	6.39	89.67
XFPC183*-13-★/★/★-★	2.50	37/0.30	7.08	118.49
XFPC183*-12-★/★/★-★	3.00	37/0.32	7.41	127.73
XFPC183*-11-★/★/★-★	4.00	37/0.37	8.19	168.68
XFPC183*-10-★/★/★-★	5.00	37/0.404 (37/0.40)	8.85	191.86



产品型号规格命名方法

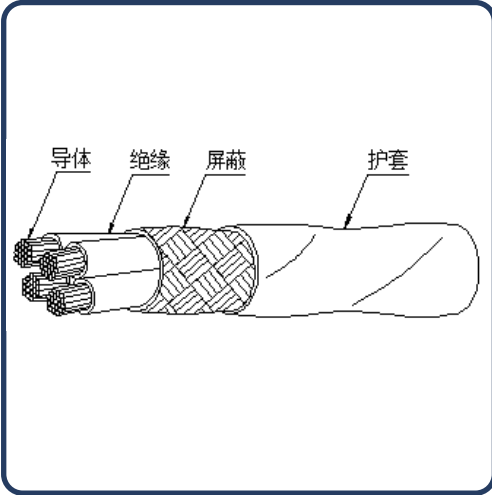
Naming method for product models and specifications

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The insulation of XFPC series aerospace cross-linked ethylene tetrafluoroethylene copolymer insulated wires and cables can be divided into single-layer insulation structure and double-layer insulation structure. Single layer insulation structure is most suitable for areas that require space conservation and weight reduction; The double-layer insulation structure is designed to meet its strength requirements to prevent damage caused by mechanical wear during installation. The inner insulation and outer insulation are distinguished by different colors in priority.

型号 Model		导体种类 Type of conductor
单层绝缘 Single layer insulation	双层绝缘 Double Insulation	
XFPC1141	XFPC1841	镀锡 Tin-plating
XFPC1142	XFPC1842	镀银 Silver plating
XFPC1143	XFPC1843	镀镍 Nickel Plating
XFPC1144	XFPC1844	镀银铜合金 Silver plated copper alloy
XFPC1145	XFPC1845	镀镍铜合金 Nickel plated copper alloy

型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFPC114*-32-★/★/★/★-★	0.035	7/0.08	2.58	10.67
XFPC114*-30-★/★/★/★-★	0.06	7/0.102 (7/0.10)	2.74	12.27
XFPC114*-28-★/★/★/★-★	0.08	7/0.127 (7/0.12)	2.96	14.61
XFPC114*-26-★/★/★/★-★	0.14	19/0.102 (19/0.10)	3.20	18.28
XFPC114*-24-★/★/★/★-★	0.20	19/0.127(19/0.12)	3.56	23.22
XFPC114*-22-★/★/★/★-★	0.35	19/0.16	3.97	30.01
XFPC114*-20-★/★/★/★-★	0.50	19/0.203(19/0.20)	4.62	42.05
XFPC114*-19-★/★/★/★-★	0.75	19/0.227(19/0.23)	5.11	52.95
XFPC114*-18-★/★/★/★-★	1.00	19/0.254(19/0.26)	5.28	58.13
XFPC114*-16-★/★/★/★-★	1.20	19/0.287(19/0.28)	5.92	72.79
XFPC114*-15-★/★/★/★-★	1.50	19/0.32	6.71	91.60
XFPC114*-14-★/★/★/★-★	2.00	19/0.361(19/0.36)	7.01	104.96
XFPC114*-13-★/★/★/★-★	2.50	37/0.30	7.94	142.55
XFPC114*-12-★/★/★/★-★	3.00	37/0.32	8.40	153.95
XFPC114*-10-★/★/★/★-★	5.00	37/0.404(37/0.40)	10.29	240.06



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型号 Model	标称截面 Nominal cross-section (mm ²)	导体结构根数/直径 Number of conductor structures/diameter (mm)	成品外径值✧ Finished product outer diameter value✧ (mm)	最大重量 Maximum Weight (kg/km)
XFPC184*-32-★/★/★/★-★	0.035	7/0.08	3.09	14.07
XFPC184*-30-★/★/★/★-★	0.06	7/0.102 (7/0.10)	3.26	15.84
XFPC184*-28-★/★/★/★-★	0.08	7/0.127 (7/0.12)	3.42	17.93
XFPC184*-26-★/★/★/★-★	0.14	19/0.102 (19/0.10)	3.78	22.59
XFPC184*-24-★/★/★/★-★	0.20	19/0.127 (19/0.12)	4.10	27.47
XFPC184*-22-★/★/★/★-★	0.35	19/0.16	4.62	35.52
XFPC184*-20-★/★/★/★-★	0.50	19/0.203(19/0.20)	5.19	46.95
XFPC184*-19-★/★/★/★-★	0.75	19/0.227(19/0.23)	5.92	61.61
XFPC184*-18-★/★/★/★-★	1.00	19/0.254(19/0.26)	6.11	66.84
XFPC184*-16-★/★/★/★-★	1.20	19/0.287(19/0.28)	6.65	80.23
XFPC184*-15-★/★/★/★-★	1.50	19/0.32	7.33	103.10
XFPC184*-14-★/★/★/★-★	2.00	19/0.361(19/0.36)	7.77	114.11
XFPC184*-13-★/★/★/★-★	2.50	37/0.30	8.73	153.57
XFPC184*-12-★/★/★/★-★	3.00	37/0.32	9.22	170.25
XFPC184*-11-★/★/★/★-★	4.00	37/0.37	10.21	224.84
XFPC184*-10-★/★/★/★-★	5.00	37/0.404 (37/0.40)	10.83	246.94

导体结构及直流电阻 Conductor structure and DC resistance

标称截面 Nominal cross-section (mm ²)	线规号 Wire gauge number (AWG)	导体根数 / 标称直径 Number of conductors / Nominal diameter (mm)	导体绞合节径比 (最外层) Diameter ratio of conductor stranding (outermost layer)	导体外径 Conductor Outside Diameter (mm)					20℃ 时导体直流电阻最大值 Maximum DC resistance of conductor at 20 °C (Ω/km)				
				最小 Minimum	最大 Maximum				SCC ^a	NCC ^c	TCC ^b	SCA ^d	NCA ^e
					SCC ^a	TCC ^b 、NCC ^c	SCA ^d	NCA ^e					
0.035	32	7/0.08	8~16	0.23	0.25	0.25	0.25	0.25	525	560	568	653	681
0.06	30	7/0.102	8~16	0.27	0.31	0.34	0.31	0.34	330.4	363.2	355.6	385.2	425.2
0.08	28	7/0.127	8~16	0.35	0.39	0.41	0.39	0.41	209.3	222.8	225.1	244.1	259.2
		(7/0.12)											
0.14	26	19/0.102	8~16	0.45	0.49	0.51	0.51	0.51	126.0	138.5	135.5	147.0	162.1
		(19/0.10)											
0.20	24	19/0.127	8~16	0.58	0.62	0.62	0.62	0.64	79.7	85.0	86.0	93.2	98.8
		(19/0.12)											
0.35	22	19/0.16	8~16	0.73	0.77	0.79	0.79	0.79	49.5	52.5	53.1	57.4	61.0
0.50	20	19/0.203	8~16	0.93	0.97	1.00	1.00	1.00	30.2	32.1	32.4	35.1	37.4
		(19/0.20)											
0.75	19	19/0.227	8~16	1.07	1.11	1.11	1.11	1.11	22.7	24.3	24.6	26.6	28.5
		(19/0.23)											
1.00	18	19/0.254	8~16	1.16	1.23	1.25	1.25	1.25	19.0	20.0	20.4	21.1	22.3
		(19/0.26)											
1.20	16	19/0.287	8~16	1.31	1.38	1.41	1.41	1.41	14.8	15.6	15.8	16.1	16.9
		(19/0.28)											
1.50	15	19/0.32	8~16	1.50	1.56	1.56	-	-	11.7	12.6	12.7	-	-
2.00	14	19/0.361	8~16	1.64	1.74	1.76	-	-	9.45	9.84	10.0	-	-
		(19/0.36)											
2.50	13	37/0.30	8~16	1.99	2.09	2.09	-	-	6.86	7.37	7.43	-	-
3.00	12	37/0.32	8~16	2.13	2.22	2.27	-	-	6.23	6.5	6.63	-	-
4.00	11	37/0.37	8~16	2.44	2.54	2.54	-	-	4.51	4.83	4.88	-	-
5.00	10	37/0.404	8~16	2.70	2.79	2.84	-	-	3.90	4.07	4.13	-	-
		(37/0.40)											

导体结构及直流电阻 Conductor structure and DC resistance

标称截面 Nominal cross-section (mm ²)	线规号 Wire gauge number (AWG)	导体根数 / 标称直径 Number of conductors / Nominal diameter (mm)	导体绞合节径比 (最外层) Diameter ratio of conductor stranding (outermost layer)	导体外径 Conductor Outside Diameter (mm)					20℃ 时导体直流电阻最大值 Maximum DC resistance of conductor at 20 °C (Ω/km)				
				最小 Minimum	最大 Maximum				SCC ^a	NCC ^c	TCC ^b	SCA ^d	NCA ^e
					SCC ^a	TCC ^b 、NCC ^c	SCA ^d	NCA ^e					
6.00	9	37/0.455	8~16	3.02	3.12	3.12	-	-	3.05	3.26	3.3	-	-
		37/0.45											
8.00	8	133/0.287	8~16	4.01	4.22	4.29	-	-	2.16	2.28	2.3	-	-
		(133/0.29)											
10.00	7	133/0.32	8~16	4.55	4.80	4.80	-	-	1.68	1.8	1.82	-	-
13.00	6	133/0.361	8~16	5.03	5.28	5.38	-	-	1.37	1.43	1.46	-	-
		(133/0.36)											
16.00	5	133/0.39	8~16	5.45	5.85	5.85	-	-	1.13	1.21	1.22	-	-
20.00	4	133/0.455	8~16	6.35	6.68	6.81	-	-	0.866	0.902	0.919	-	-
		(133/0.45)											
33.00	2	665/0.254	8~16	8.13	8.64	8.64	-	-	0.558	0.581	0.6	-	-
45.00	1	817/0.254	8~16	9.14	9.65	9.65	-	-	0.456	0.472	0.489	-	-
55.00	0	1045/0.254	8~16	10.00	10.80	10.80	-	-	0.354	0.371	0.381	-	-
70.00	0	1330/0.254	8~16	11.20	12.10	12.10	-	-	0.279	0.292	0.299	-	-

注：SCC^a代表镀银铜绞线，TCC^b代表镀锡铜绞线，NCC^c代表镀镍铜绞线，SCA^d代表镀银高强度铜合金线，NCA^e代表镀镍高强度铜合金线。

P.S: SCC^a represents silver plated copper stranded wire, TCC^b represents tin plated copper stranded wire, NCC^c represents nickel plated copper stranded wire, SCA^d represents silver plated high-strength copper alloy wire, and NCA^e represents nickel plated high-strength copper alloy wire.

注：多芯电缆的导体直流电阻应是相应规格电线的1.05倍。

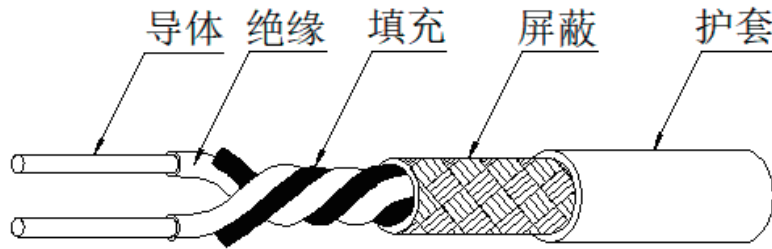
The DC resistance of the conductor of a multi-core cable should be 1.05 times that of the corresponding specification wire.

航空用1553B数据总线电缆 1553B data bus cable for aviation

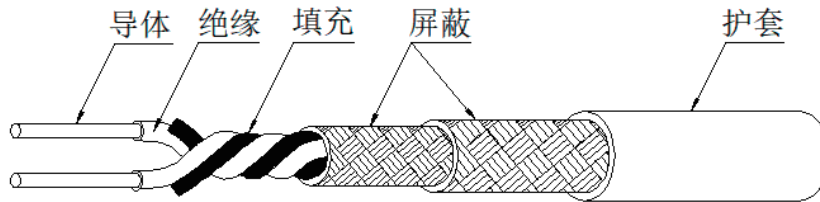
总线电缆采用了辐照交联料绝缘及护套，具有耐高低温、耐老化、抗辐照、抗腐蚀、阻燃、外径小、重量轻和卓越的机械韧性等特点，产品电气性能可靠，符合美军标MIL-STD-1553B数据总线的性能要求。可在恶劣的环境中提供高可靠性传输，特别适用于航空、电子等领域的苛刻环境下的信号传输用线。

The bus cable adopts radiation cross-linked material insulation and sheath, which has characteristics such as high and low temperature resistance, aging resistance, radiation resistance, corrosion resistance, flame retardancy, small outer diameter, light weight, and excellent mechanical toughness. The product has reliable electrical performance and meets the performance requirements of the US military standard MIL-STD-1553B data bus. It can provide high reliability transmission in harsh environments, especially suitable for signal transmission lines in harsh environments such as aviation and electronics.

产品主要性能 Main performance



1553B-1 镀银圆铜线单层编织屏蔽1553B数据总线电缆
1553B-1 Silver Plated Round Copper Wire Single Layer
Braided Shielded 1553B Data Bus Cable



1553B-2 镀银圆铜线双层编织屏蔽1553B数据总线电缆
1553B-2 Silver Plated Round Copper Wire Double Layer
Braided Shielded 1553B Data Bus Cable

绝缘、护套强度/Insulation and sheath strength: ◆
电缆绝缘及护套抗张强度应不小于 34.5N/mm^2
The tensile strength of cable insulation and sheath should not be less than 34.5N/mm^2

绝缘、护套断裂伸长率/Elongation at break of insulation and sheath: ◆
电缆绝缘断裂伸长率应不小于75%;
电缆护套断裂伸长率应不小于50%。
The elongation at break of cable insulation should not be less than 75%;
The elongation at break of the cable sheath should not be less than 50%.

低温弯曲/Minimum bend radius ◆
电缆护套应经受 $(-65\pm 5)^\circ\text{C}$, 4h试验后应不开裂
, 浸水电压 1.0kV/lmin 试验不击穿。
The cable sheath should withstand $(-65 \pm 5)^\circ\text{C}$,
and after 4 hours of testing, it should not crack.
The immersion voltage of 1.0kV/min test should not cause breakdown.

电缆交联程度验证/Verification of cable cross-linking degree ◆
成品电缆应进行交联程度验证, $(300\pm 5)^\circ\text{C}$,
6h试验后应不开裂, 浸水电压 1.0kV/lmin 试验不击穿。
The finished cable should undergo cross-linking degree verification,
and after 6 hours of testing at $(300 \pm 5)^\circ\text{C}$, it should not crack.
The immersion voltage of 1.0kV/min test should not cause breakdown.

电气性能及使用说明

Electrical performance and instructions for use

序号/NO.	项目/Project	1553B-1	1553B-2
1	连续工作电压/Continuous operating voltage(V)	600	600
2	额定温度/Rated temperature (°C)	-65~200	-65~200
3	最小弯曲半径/Minimum bend radius (mm)	20	20
4	绝缘电阻/Insulation resistance (MΩ·km)	≥1500	≥1500
5	耐电压 (芯与芯、芯与屏)/Dielectric (V/s)	2500	2500
6	标称传输速率/Nominal transmission rate (%)	61	61
7	电容 (1MHz下) Capacitance (@1MHz) (pF/m)	98	98
8	标称特性阻抗 (1MHz下) / Nominal characteristic impedance (@1MHz) (Ω)	77±5	77±5
9	衰减 (1MHz下) /Attenuation (@ 1MHz) (dB/100m)	≤4.59	≤4.59
10	转移阻抗 (1MHz下) / Transfer impedance (@ 1MHz) (mΩ/m)	≤100	≤100

产品结构尺寸

Product structural dimensions

序号/NO.	型号/Model	产品外径/ Outside diameter (mm)	产品最大重量/ Maximum weight of product (g/m)
1	1553B-1	3.30±0.18	24
2	1553B-2	3.73±0.18	39

颜色识别：默认绝缘颜色为白色/蓝色，护套颜色为白色。

可根据客户不同要求更换颜色

Color recognition: The default insulation color is white/blue, and the sheath color is white.

Colors can be changed according to different customer requirements

附录：载流量选型

导线的选取主要考虑导线在一定的环境下的最大载流量，影响导线载流量的因素很多，归类起来主要分为：导线本身品质因素，导线所处的周围环境因素二大方面，其中导线的品质因素包括：导线系统种类、导线额定工作温度、导线系统结构；导线的环境因素包括：导线周围环境温度，导线周围的散热状况，导线所处的高度等等，因此，精确确定导线在某一环境下的最大载流量是一个比较复杂的过程。这里在参照美标AS50881 Revision E有关技术指标的基础上，以导体平衡温度为200℃进行计算，列出以下三个表，按表后举例的方法进行选取，以供参考。表1单根导线在自由空气中载流量随温度升高而减小的变化表。表2导线线束或电缆的载流量随导线根数的增加而减小的衰减系数表。表3导线或电缆载流量随导线高度的增加而减小的衰减系数表。载流量计算示例：

4根AWG20电线组成的线束，环境温度为60℃，高度为15240米，线束总电流为所有电线额定电流之和的60%，求每根电线的额定电流和线束总电流。

1.从载流量表中查出单根AWG20电线在60℃环境温度下额定电流为21.5A；

2.4根电线的线束在60%的电流负载下，所对应的衰减系数为0.760，每根电线容许的电流为 $21.5A \times 0.760 = 16.3A$ 。3.电线在高度为15240米时的衰减系数为0.818，每根电线额定电流为 $16.3A \times 0.818 = 13.3A$ 。4.整根线束在60%负载下的总电流为： $4 \times 13.3A \times 60\% = 31.9A$ 。

Appendix: Selection of Current Carrying Capacity

The selection of wires mainly considers the maximum current carrying capacity of the wire in a certain environment. There are many factors that affect the current carrying capacity of the wire, which can be classified into two aspects: the quality of the wire itself and the surrounding environmental factors of the wire. The quality factors of the wire include: the type of wire system, the rated working temperature of the wire, and the structure of the wire system; The environmental factors of a wire include: the ambient temperature around the wire, the heat dissipation condition around the wire, the height of the wire, etc. Therefore, accurately determining the maximum current carrying capacity of the wire in a certain environment is a relatively complex process. On the basis of referring to the relevant technical indicators of the American standard AS50881 Revision E, the following three tables are listed based on the conductor equilibrium temperature of 200 °C, and selected according to the example method at the end of the table for reference. Table 1 shows the variation of the current carrying capacity of a single wire in free air as the temperature increases. Table 2 shows the attenuation coefficient of the current carrying capacity of wire harnesses or cables that decreases with the increase of the number of wires. Table 3 shows the attenuation coefficient of the current carrying capacity of a wire or cable that decreases with the increase of wire height Example of current carrying capacity calculation:

A wiring harness composed of 4 AWG20 wires, with an ambient temperature of 60 °C and a height of 15240 meters. The total current of the wiring harness is 60% of the sum of the rated currents of all wires. Calculate the rated current of each wire and the total current of the wiring harness.

1. From the current carrying capacity meter, it is found that the rated current of a single AWG20 wire is 21.5A at an ambient temperature of 60 °C;

The wiring harness of 2.4 wires has a corresponding attenuation coefficient of 0.760 under 60% current load, and the allowable current for each wire is $21.5A \times 0.760 = 16.3A$. 3. The attenuation coefficient of the wire at a height of 15240 meters is 0.818, and the rated current of each wire is $16.3A \times 0.818 = 13.3A$. 4. The total current of the entire harness under 60% load is: $4 \times 13.3A \times 60\% = 31.9A$.

线规 guade	导线所处的环境温度/The ambient temperature at which the wire is located (°C)									
	-50	-30	-10	0	10	20	30	40	50	60
	连续负载最大载流量 Maximum continuous load carrying capacity (A)									
32	6.3	6.1	5.8	5.7	5.6	5.4	5.2	5.1	4.9	4.8
30	8.8	8.5	8.2	8.0	7.8	7.5	7.3	7.1	6.9	6.7
28	9.8	9.5	9.1	8.8	8.6	8.5	8.1	7.9	7.7	7.4
26	12.0	11.6	11.1	11.0	10.7	10.5	10.2	10.0	9.5	9.3
24	16.0	15.5	15.0	14.5	14.2	14.0	13.5	13.2	13.0	12.4
22	21.0	20.2	19.3	19.0	18.5	18.0	17.8	17.2	16.8	16.2
20	28.0	27.0	25.8	25.1	24.8	24.0	23.4	23.0	22.1	21.5
19	36.0	35.0	34.0	33.5	32.0	31.5	30.0	29.0	28.0	27.0
18	38.0	36.2	35.0	34.0	33.0	32.2	31.2	30.5	29.9	29.0
16	44.0	42.5	40.5	40.0	39.0	38.0	37.0	36.0	35.0	33.5
15	56.0	55.0	54.0	53.0	51.0	49.0	47.0	45.0	43.0	41.5
14	60.0	59.0	55.0	54.0	52.0	51.6	49.5	49.0	47.0	45.5
13	77.0	74.0	72.0	70.0	67.0	64.0	62.5	60.5	58.0	56.6
12	80.0	77.5	74.0	72.0	70.0	68.2	66.2	64.2	63.0	61.0
11	100.0	98.0	94.0	92.0	90.0	87.0	83.5	80.5	77.0	75.5
10	105.0	100.0	96.0	94.0	92.0	90.0	87.9	84.0	83.0	80.0
9	137.0	132.0	126.0	123.0	119.0	115.0	112.0	109.0	106.0	102.5
8	160.0	153.0	148.0	145.0	140.0	138.0	133.0	130.0	125.0	121.0
6	220.0	210.0	200.0	196.0	191.0	189.0	180.0	178.0	171.0	166.0
4	300.0	290.0	275.0	270.0	260.0	253.0	248.0	240.0	232.0	225.0
2	400.0	390.0	373.0	362.0	352.0	345.0	333.0	325.0	315.0	305.0
1	470.0	460.0	435.0	420.0	410.0	400.0	392.0	381.0	370.0	360.0
0	550.0	520.0	500.0	490.0	480.0	470.0	456.0	445.0	430.0	415.0
0	640.0	618.0	591.0	578.0	560.0	540.0	535.0	520.0	500.0	480.0
0	760.0	720.0	700.0	680.0	660.0	643.0	635.0	610.0	590.0	570.0
0	900.0	870.0	820.0	800.0	782.0	760.0	750.0	720.0	700.0	680.0

单根导线在自由空气中额定载流量随温度升高而减小的变化表

Table of changes in the rated current carrying capacity of a single wire in free air as it decreases with increasing temperature

线规 wire guade	导线所处的环境温度/The ambient temperature at which the wire is located (°C)									
	70	80	90	100	120	140	150	160	170	180
	连续负载最大载流量 Maximum continuous load carrying capacity(A)									
32	4.6	4.4	4.3	4.1	3.6	3.1	2.9	2.6	2.3	1.9
30	6.4	6.2	6.0	5.7	5.0	4.4	4.0	3.6	3.2	2.6
28	7.1	6.9	6.6	6.2	5.6	4.9	4.5	4.0	3.5	2.8
26	9.0	8.6	8.3	8.0	7.2	6.3	5.8	5.2	4.6	3.7
24	12.0	11.6	11.2	10.6	9.7	8.5	7.8	7.0	6.2	5.0
22	15.8	15.1	14.6	14.0	12.8	11.0	10.1	9.2	8.0	6.5
20	20.9	20.0	19.0	18.3	16.7	14.6	13.4	12.0	10.5	8.2
19	26.0	25.0	24.0	23.0	21.5	18.5	16.8	15.0	13.0	9.5
18	27.9	27.0	25.8	24.4	22.1	19.2	17.7	16.0	13.8	10.9
16	32.3	31.1	30.0	28.8	26.0	22.5	20.8	19.5	16.2	12.7
15	40.5	39.0	37.5	36.0	34.0	28.5	26.0	23.0	19.8	16.5
14	44.0	42.0	40.2	38.2	35.0	30.1	27.5	24.5	21.5	18.5
13	55.5	54.0	52.5	51.0	46.0	39.5	36.0	31.0	27.5	22.5
12	58.6	56.4	54.0	52.0	46.5	40.5	37.0	33.0	29.0	24.0
11	74.5	72.0	68.5	66.0	60.0	51.5	48.5	42.0	37.0	30.0
10	77.0	74.0	70.3	68.0	61.0	53.0	49.5	43.5	38.0	32.5
9	99.5	96.0	92.0	88.0	78.0	68.0	62.0	55.0	47.5	42.0
8	117.0	112.0	108.0	103.0	92.0	80.0	73.5	66.0	57.5	48.0
6	160.0	153.0	147.0	140.0	125.0	108.0	99.0	88.0	76.0	63.0
4	219.0	210.0	200.0	190.0	170.0	146.0	132.0	119.0	102.0	83.0
2	295.0	285.0	272.0	260.0	235.0	203.0	185.0	167.0	145.0	120.0
1	345.0	330.0	320.0	305.0	272.0	240.0	219.0	195.0	170.0	140.0
0	400.0	385.0	370.0	350.0	315.0	275.0	250.0	225.0	195.0	165.0
0	460.0	442.0	425.0	409.0	365.0	315.0	290.0	258.0	225.0	190.0
0	550.0	526.0	505.0	480.0	430.0	370.0	340.0	300.0	260.0	220.0
0	655.0	630.0	600.0	570.0	520.0	440.0	400.0	360.0	310.0	250.0
单根导线在自由空气中额定载流量随温度升高而减小的变化表 Table of changes in the rated current carrying capacity of a single wire in free air as it decreases with increasing temperature										

总电流占 总容量的 百分比 Total current to capacity	导线线束或线缆根数 Number of wire harnesses or cables													
	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	衰减系数 Attenuation coefficient													
20%	0.965	0.930	0.900	0.872	0.845	0.820	0.800	0.775	0.750	0.730	0.718	0.700	0.682	0.670
40%	0.925	0.860	0.813	0.770	0.730	0.695	0.670	0.645	0.620	0.600	0.585	0.570	0.550	0.540
60%	0.900	0.820	0.760	0.700	0.660	0.625	0.590	0.570	0.550	0.525	0.515	0.500	0.480	0.472
80%	0.860	0.775	0.710	0.650	0.610	0.575	0.550	0.520	0.500	0.480	0.470	0.450	0.435	0.423
100%	0.825	0.740	0.670	0.620	0.575	0.545	0.515	0.485	0.465	0.450	0.425	0.420	0.400	0.390

总电流占 总容量的 百分比 Total current to capacity	导线线束或线缆根数 Number of wire harnesses or cables													
	16	17	18	19	20	21	22	23	24	25	26	27	28	29
	衰减系数 Attenuation coefficient													
20%	0.665	0.645	0.638	0.625	0.618	0.608	0.600	0.590	0.580	0.575	0.570	0.565	0.560	0.550
40%	0.530	0.520	0.515	0.500	0.490	0.478	0.470	0.465	0.455	0.450	0.445	0.440	0.435	0.425
60%	0.460	0.445	0.435	0.425	0.420	0.410	0.400	0.390	0.385	0.380	0.375	0.370	0.360	0.355
80%	0.415	0.400	0.385	0.380	0.375	0.370	0.367	0.355	0.350	0.340	0.335	0.330	0.325	0.317
100%	0.375	0.370	0.360	0.350	0.340	0.330	0.325	0.320	0.310	0.300	0.295	0.290	0.280	0.277

总电流占 总容量的 百分比 Total current to capacity	导线线束或线缆根数 Number of wire harnesses or cables													
	30	31	32	33	34	35	36	37	38	39	40	41	42	43
	衰减系数 Attenuation coefficient													
20%	0.545	0.540	0.535	0.530	0.525	0.523	0.521	0.520	0.518	0.516	0.515	0.514	0.513	0.511
40%	0.420	0.415	0.410	0.405	0.400	0.395	0.392	0.390	0.387	0.386	0.385	0.384	0.383	0.381
60%	0.350	0.348	0.345	0.340	0.335	0.330	0.328	0.327	0.326	0.325	0.324	0.323	0.321	0.319
80%	0.314	0.310	0.305	0.300	0.295	0.293	0.290	0.288	0.285	0.283	0.281	0.278	0.276	0.274
100%	0.275	0.273	0.270	0.265	0.263	0.262	0.261	0.260	0.259	0.258	0.257	0.256	0.255	0.253

导线线束或线缆的载流量随导线根数的增加而减小的衰减系数表
Table of attenuation coefficients for the current carrying capacity of wire harnesses or cables decreasing with the increase of the number of wires

高度/Height(m)	衰减系数/ attenuation coefficient	高度/Height(m)	衰减系数/ attenuation coefficient	高度/Height(m)	衰减系数/ attenuation coefficient
762	0.987	11430	0.852	22098	0.763
1524	0.975	12192	0.848	22860	0.758
2286	0.962	12954	0.838	23622	0.752
3048	0.95	13716	0.823	24384	0.748
3810	0.937	14478	0.825	24146	0.74
4572	0.925	15240	0.818	25908	0.735
5334	0.915	16002	0.812	26670	0.73
6096	0.908	16764	0.806	27432	0.725
6858	0.898	17526	0.8	28194	0.718
7620	0.888	18288	0.793	28956	0.713
8382	0.881	19050	0.786	29718	0.705
9114	0.875	19812	0.779	30408	0.700
9906	0.868	20574	0.775	-	-
10668	0.86	21336	0.77	-	-

导线或电缆载流量随导线高度的增加而减小的衰减系数表

Table of Attenuation Coefficients for the Current Carrying Capacity of a Wire or Cable to Decrease with the Increase of Wire Height



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