



**CABLE
MANUFACTURER**
工业高柔性电缆制造商



东莞市特普伦实业有限公司

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公司简介 COMPANY PROFILE

特普伦成立于2017年，配合中国国内机器换人，工业自动化高速发展的需求，组建高柔性电线电缆生产工厂。创始团队汇集原日企专业团队，凭借丰富技术背景和开拓创新精神，成功在东莞落地。

至今发展有10条生产线，年产电线5000万米，打造了一个提供高性能、高品质的电线电缆产品生产能力、服务网络遍及全国。

特普伦自成立以来，不断完善服务项目，源于生产，深入现场，贴近应用，快速切入，为客户提供全方位的电线电缆以及线束解决方案。

Topilen was founded in 2017, with the needs of China's domestic machine replacement, the rapid development of industrial automation, the establishment of high flexible wire and cable production factory. The founding team brought together the original professional team of Japanese enterprises, with rich technical background and pioneering and innovative spirit, and successfully landed in Dongguan.

So far, it has developed 10 production lines with an annual output of 50 million meters of wire, creating a high-performance, high-quality electricity Wire and cable product production capacity, service network throughout the country.

Since its establishment, Topilen has continuously improved service projects, originating from production, in-depth site, close to application, and fast cutting in, to provide customers with a full range of wire and cable and wire harness solutions.

CATALOGUE

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As always, we adhere to the business philosophy of "integrity, quality and efficiency" and take "full participation, continuous improvement, pursuit of Excellence and customer satisfaction" as our quality policy.

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公司视图 Company view



集团视图 Group view

东坑总部工厂已于2023年建成 东坑工厂: 23000m² —— 作为制造中心



集团视图 Group view

长安新工厂预计将于2024年底完工 长安工厂: 20000m²



韶关工厂已于2019年建成投产 韶关工厂: 33000m² —— 作为制造中心





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控制电缆



— 六大优势 —

安全用电 用芯制造



环保安全



颜色齐全



柔软耐折



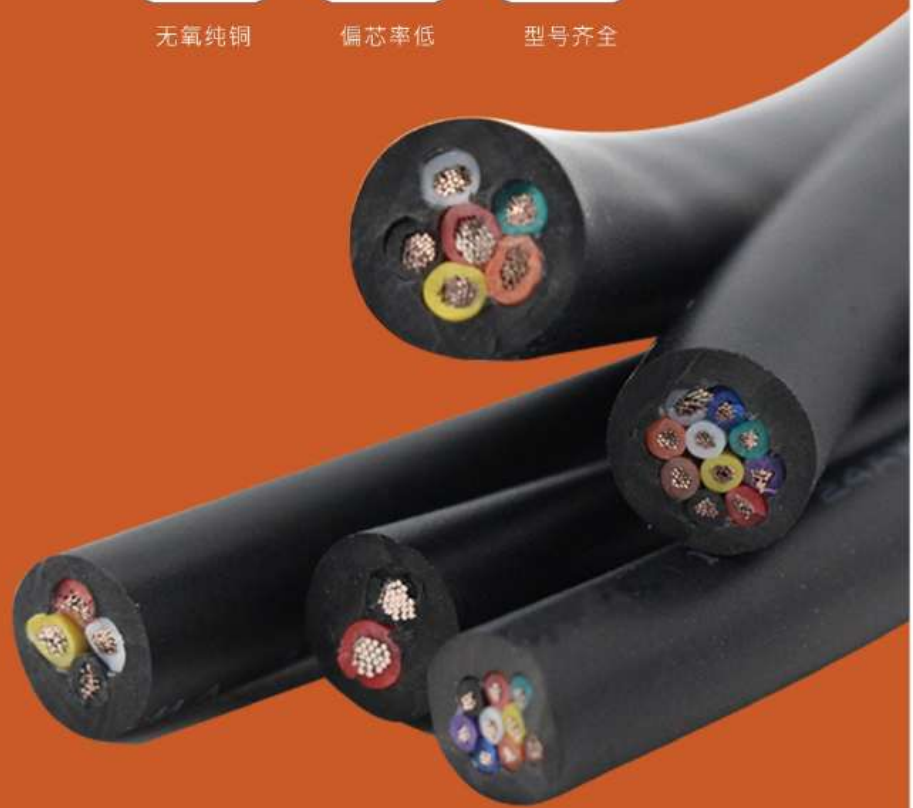
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偏芯率低



型号齐全



TPL-GK2 | PVC绝缘·PVC护套固定控制电缆

TPL-GK2 | PVC insulation, PVC sheath fixed control cable



UL fixed wiring power cord RoHS

控制电缆



Long towing distance	耐长拖链距离	
Plasticity	柔软性	★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★
Life test of electric towing chain	电拖链寿命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 采用5、6类绞合导体
- 适合于非运动场合的电线布线场合
- Rohs环保对应

◆ 电缆结构

- 采用5、6类多股绞合导体
- PVC阻燃绝缘
- 芯线以短节距绞合在一起
- 无纺布绕包
- 黑色PVC阻燃护套

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标or UL
- UL文件No.：2464
- 额定电压：300/500V
- 耐燃性：FT2/VW-1

◆ 移动参数

- 使用温度范围：-15 ~ +80
- 拖链次数（万次）：200
- 拖链最小弯曲半径：-
- 固定敷设最小弯曲半径：4D
- 最大架空速度：0
- 最大加速度：0

◆ key property

- Obtain UL758 certification in the United States.
- Class 5 and 6 stranded conductors are used.
- Suitable for wire wiring in non-sports situations.
- Rohs environmental protection correspondence.

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- PVC flame retardant insulation.
- The core wires are twisted together at a short pitch.
- Nonwoven fabric wrapping.
- Black PVC flame retardant sheath.

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard or UL
- UL file No.: 2464
- Rated voltage: 300/500V
- Flame resistance: FT2/VW-1

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 200
- Minimum bending radius of towing chain: -
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 0
- Maximum acceleration: 0

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
GK001	2c	4.5	27	6.6	54.6
GK002	3c	4.7	33	5.5	54.6
GK003	4c	5.1	40	5.0	54.6
GK004	5c	5.5	47	4.6	54.6
GK005	6c	6.0	56	4.4	54.6
GK006	8c	6.4	69	3.9	54.6
GK007	10c	7.5	89	3.8	54.6
GK008	12c	7.8	100	3.5	54.6
GK009	16c	8.5	125	3.2	54.6
GK010	20c	9.5	156	3.0	54.6
GK011	25c	10.4	189	2.8	54.6
GK012	2c	5.1	35	8.6	35.7
GK013	3c	5.3	44	7.2	35.7
GK014	4c	5.9	55	6.5	35.7
GK015	5c	6.3	66	6.1	35.7
GK016	6c	6.8	76	5.7	35.7
GK017	8c	7.5	98	5.2	35.7
GK018	10c	8.7	122	4.9	35.7
GK019	12c	8.9	138	4.6	35.7
GK020	16c	10.0	180	4.2	35.7
GK021	20c	11.0	218	3.9	35.7
GK022	25c	12.2	271	3.6	35.7
GK023	2c	5.5	43	11.0	23.8
GK024	3c	5.9	57	9.2	23.8
GK025	4c	6.4	70	8.3	23.8
GK026	5c	6.9	84	7.7	23.8
GK027	6c	7.7	101	7.4	23.8
GK028	8c	8.2	126	6.6	23.8
GK029	10c	9.7	162	6.3	23.8
GK030	12c	10.0	185	5.9	23.8
GK031	16c	11.0	235	5.3	23.8
GK032	20c	12.3	292	5.0	23.8
GK033	25c	13.9	369	4.6	23.8

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
GK034	2c	6.1	55	13.1	18.2
GK035	3c	6.5	70	11.0	18.2
GK036	4c	7.0	87	9.9	18.2
GK037	5c	7.8	108	9.3	18.2
GK038	6c	8.5	126	8.8	18.2
GK039	8c	9.3	162	7.9	18.2
GK040	10c	10.8	203	7.5	18.2
GK041	12c	11.1	233	7.0	18.2
GK042	16c	12.5	303	6.3	18.2
GK043	20c	14.1	384	5.9	18.2
GK044	25c	15.5	467	5.5	18.2
GK045	2c	6.9	72	16.8	12.3
GK046	3c	7.5	97	14.2	12.3
GK047	4c	8.2	121	12.8	12.3
GK048	5c	8.9	146	11.9	12.3
GK049	6c	9.8	176	11.3	12.3
GK050	8c	10.6	221	10.1	12.3
GK051	10c	12.5	284	9.7	12.3
GK052	12c	12.9	326	9.0	12.3
GK053	16c	14.7	431	8.1	12.3
GK054	20c	16.4	536	7.6	12.3
GK055	25c	18.0	654	7.1	12.3
GK056	2c	8.2	107	23.2	7.4
GK057	3c	8.7	141	19.5	7.4
GK058	4c	9.7	183	17.7	7.4
GK059	5c	10.6	221	16.4	7.4
GK060	6c	11.7	267	15.6	7.4
GK061	8c	12.7	337	14.0	7.4
GK062	10c	15.2	438	13.3	7.4
GK063	12c	15.7	505	12.4	7.4
GK064	16c	17.5	658	11.2	7.4
GK065	20c	19.4	808	10.4	7.4
GK066	25c	21.3	991	9.7	7.4

1. 以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2. 以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-GK2 | PVC绝缘 · PVC护套固定控制电缆

TPL-GK2 | PVC insulation, PVC sheath fixed control cable



UL fixed wiring power cord shield RoHS



Long towing distance	耐长拖链距离	
Plasticity	柔软性	★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★
Life test of electric towing chain	电拖链寿命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 采用5、6类绞合导体
- 适合于非运动场合的电线布线场合
- 带屏蔽，抗干扰性能优越（-SB使用）
- Rohs环保对应

◆ key property

- Obtain UL758 certification in the United States.
- Class 5 and 6 stranded conductors are used.
- Suitable for wire wiring in non-sports situations.
- With shielding, excellent anti-interference performance (-SB use).
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用5、6类多股绞合导体
- PVC阻燃绝缘
- 芯线以短节距绞合在一起
- 无纺布绕包
- 镀锡铜编织屏蔽，屏蔽率≥85%（-SB使用）
- 黑色PVC阻燃护套
- Class 5 and 6 stranded conductors are used.
- PVC flame retardant insulation.
- The core wires are twisted together at a short pitch.
- Nonwoven fabric wrapping.
- Tinned copper braided shield, shielding rate ≥ 85% (for -SB use).
- Black PVC flame retardant sheath.

◆ Construction of cable

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标or UL
- UL文件No.：2464
- 额定电压：300/500V
- 耐燃性：FT2/VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard or UL
- UL file No.: 2464
- Rated voltage: 300/500V
- Flame resistance: FT2/VW-1

◆ 移动参数

- 使用温度范围：-15 ~ +80
- 拖链次数（万次）：200
- 拖链最小弯曲半径：-
- 固定敷设最小弯曲半径：4D
- 最大架空速度：0
- 最大加速度：0

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 200
- Minimum bending radius of towing chain: -
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 0
- Maximum acceleration: 0

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
GK067	2c	4.9	40	6.8	54.6
GK068	3c	5.1	47	5.7	54.6
GK069	4c	5.5	55	5.1	54.6
GK070	5c	6.0	64	4.8	54.6
GK071	6c	6.4	73	4.5	54.6
GK072	8c	6.8	89	4.0	54.6
GK073	10c	7.9	111	3.8	54.6
GK074	12c	8.2	123	3.6	54.6
GK075	16c	8.9	150	3.2	54.6
GK076	20c	9.9	185	3.0	54.6
GK077	25c	10.8	220	2.8	54.6
GK078	2c	5.5	51	8.9	35.7
GK079	3c	5.8	61	7.5	35.7
GK080	4c	6.3	73	6.7	35.7
GK081	5c	6.7	84	6.2	35.7
GK082	6c	7.2	97	5.9	35.7
GK083	8c	7.9	122	5.3	35.7
GK084	10c	9.3	153	5.0	35.7
GK085	12c	9.5	170	4.7	35.7
GK086	16c	10.4	209	4.2	35.7
GK087	20c	11.6	258	3.9	35.7
GK088	25c	12.6	309	3.7	35.7
GK089	2c	6.0	63	11.3	23.8
GK090	3c	6.3	75	9.5	23.8
GK091	4c	6.8	90	8.5	23.8
GK092	5c	7.5	107	8.0	23.8
GK093	6c	8.1	124	7.5	23.8
GK094	8c	8.6	154	6.7	23.8
GK095	10c	10.1	193	6.4	23.8
GK096	12c	10.4	215	5.9	23.8
GK097	16c	11.6	273	5.4	23.8
GK098	20c	12.7	331	5.0	23.8
GK099	25c	14.3	412	4.7	23.8

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
GK100	2c	6.5	75	13.4	18.2
GK101	3c	6.9	91	11.3	18.2
GK102	4c	7.6	113	10.2	18.2
GK103	5c	8.2	131	9.4	18.2
GK104	6c	8.9	153	8.9	18.2
GK105	8c	9.7	195	8.0	18.2
GK106	10c	11.2	238	7.6	18.2
GK107	12c	11.7	273	7.1	18.2
GK108	16c	12.9	341	6.4	18.2
GK109	20c	14.5	428	6.0	18.2
GK110	25c	16.1	524	5.6	18.2
GK111	2c	7.5	100	17.2	12.3
GK112	3c	7.9	122	14.5	12.3
GK113	4c	8.6	149	13.0	12.3
GK114	5c	9.5	178	12.1	12.3
GK115	6c	10.2	208	11.5	12.3
GK116	8c	11.0	261	10.3	12.3
GK117	10c	12.9	325	9.8	12.3
GK118	12c	13.3	369	9.1	12.3
GK119	16c	15.1	477	8.2	12.3
GK120	20c	16.8	589	7.7	12.3
GK121	25c	18.4	713	7.1	12.3
GK122	2c	8.6	138	23.7	7.4
GK123	3c	9.3	176	20.0	7.4
GK124	4c	10.1	218	17.9	7.4
GK125	5c	11.0	255	16.7	7.4
GK126	6c	12.1	306	15.8	7.4
GK127	8c	13.1	386	14.1	7.4
GK128	10c	15.6	491	13.5	7.4
GK129	12c	16.3	565	12.5	7.4
GK130	16c	17.9	713	11.3	7.4
GK131	20c	19.8	875	10.5	7.4
GK132	25c	21.7	1065	9.8	7.4

1.以上表格只列出一部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-YK2 | PVC绝缘·PVC耐油护套固定控制电缆

TPL-YK2 | PVC insulated, PVC oil-resistant sheath fixed control cable



UL fixed wiring oil proof power cord RoHS

控制电缆
control cable



Long towing distance	耐长拖链距离	
Plasticity	柔软性	★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★
Life test of electric towing chain	电拖链寿命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 采用5、6类绞合导体
- 适合于非运动场合的电线布线场合
- 适合机床等油污腐蚀严重的环境
- Rohs环保对应

◆ 电缆结构

- 采用5、6类多股绞合导体
- PVC阻燃绝缘
- 芯线以短节距绞合在一起
- 无纺布绕包
- 耐油PVC阻燃护套

◆ 规格参数

- 护套颜色：黑、灰、橙、绿
- 获得标准：非标或UL
- UL文件No.：2464
- 额定电压：300/500V
- 耐燃性：FT2/VW-1

◆ 移动参数

- 使用温度范围：-15 ~ +80
- 拖链次数（万次）：200
- 拖链最小弯曲半径：-
- 固定敷设最小弯曲半径：4D
- 最大架空速度：0
- 最大加速度：0

◆ key property

- Obtain UL758 certification in the United States.
- Class 5 and 6 stranded conductors are used.
- Suitable for wire wiring in non-sports situations.
- Suitable for machine tools and other environments with serious oil pollution and corrosion.
- Rohs environmental protection correspondence.

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- PVC flame retardant insulation.
- The core wires are twisted together at a short pitch.
- Nonwoven fabric wrapping.
- Oil-resistant PVC flame retardant sheath.

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard or UL
- UL file No.: 2464
- Rated voltage: 300/500V
- Flame resistance: FT2/VW-1

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 200
- Minimum bending radius of towing chain: -
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 0
- Maximum acceleration: 0

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
YK001	2c	4.5	29	6.6	54.6
YK002	3c	4.7	34	5.5	54.6
YK003	4c	5.1	41	5.0	54.6
YK004	5c	5.5	48	4.6	54.6
YK005	6c	6.0	57	4.4	54.6
YK006	8c	6.4	71	3.9	54.6
YK007	10c	7.5	90	3.8	54.6
YK008	12c	7.8	101	3.5	54.6
YK009	16c	8.5	126	3.2	54.6
YK010	20c	9.5	158	3.0	54.6
YK011	25c	10.4	190	2.8	54.6
YK012	2c	5.1	37	8.6	35.7
YK013	3c	5.3	46	7.2	35.7
YK014	4c	5.9	57	6.5	35.7
YK015	5c	6.3	66	6.1	35.7
YK016	6c	6.8	78	5.7	35.7
YK017	8c	7.5	101	5.2	35.7
YK018	10c	8.7	124	4.9	35.7
YK019	12c	8.9	140	4.6	35.7
YK020	16c	10.0	180	4.2	35.7
YK021	20c	11.0	221	3.9	35.7
YK022	25c	12.2	273	3.6	35.7
YK023	2c	5.5	46	11.0	23.8
YK024	3c	5.9	59	9.2	23.8
YK025	4c	6.4	72	8.3	23.8
YK026	5c	6.9	85	7.7	23.8
YK027	6c	7.7	103	7.4	23.8
YK028	8c	8.2	130	6.6	23.8
YK029	10c	9.7	165	6.3	23.8
YK030	12c	10.0	187	5.9	23.8
YK031	16c	11.0	236	5.3	23.8
YK032	20c	12.3	295	5.0	23.8
YK033	25c	13.9	371	4.6	23.8

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
YK034	2c	6.1	58	13.1	18.2
YK035	3c	6.5	73	11.0	18.2
YK036	4c	7.0	90	9.9	18.2
YK037	5c	7.8	109	9.3	18.2
YK038	6c	8.5	129	8.8	18.2
YK039	8c	9.3	168	7.9	18.2
YK040	10c	10.8	207	7.5	18.2
YK041	12c	11.1	235	7.0	18.2
YK042	16c	12.5	304	6.3	18.2
YK043	20c	14.1	387	5.9	18.2
YK044	25c	15.5	470	5.5	18.2
YK045	2c	6.9	77	16.8	12.3
YK046	3c	7.5	101	14.2	12.3
YK047	4c	8.2	126	12.8	12.3
YK048	5c	8.9	148	11.9	12.3
YK049	6c	9.8	180	11.3	12.3
YK050	8c	10.6	229	10.1	12.3
YK051	10c	12.5	289	9.7	12.3
YK052	12c	12.9	330	9.0	12.3
YK053	16c	14.7	433	8.1	12.3
YK054	20c	16.4	541	7.6	12.3
YK055	25c	18.0	659	7.1	12.3
YK056	2c	8.2	114	23.2	7.4
YK057	3c	8.7	147	19.5	7.4
YK058	4c	9.7	190	17.7	7.4
YK059	5c	10.6	224	16.4	7.4
YK060	6c	11.7	272	15.6	7.4
YK061	8c	12.7	349	14.0	7.4
YK062	10c	15.2	446	13.3	7.4
YK063	12c	15.7	511	12.4	7.4
YK064	16c	17.5	660	11.2	7.4
YK065	20c	19.4	816	10.4	7.4
YK066	25c	21.3	999	9.7	7.4

1.以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-YK2 | PVC绝缘·PVC耐油护套固定控制电缆

TPL-YK2 | PVC insulated, PVC oil-resistant sheath fixed control cable



UL Fixed wiring oil proof power cord shield RoHS

控制电缆



Long towing distance	耐长拖链距离	
Plasticity	柔软性	★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★
Life test of electric towing chain	电拖链寿命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 采用5、6类绞合导体
- 适合于非运动场合的电线电缆场合
- 适合机床油污腐蚀严重的环境
- 带屏蔽，抗干扰性能优越（-SB使用）
- Rohs环保对应

◆ key property

- Obtain UL758 certification in the United States.
- Class 5 and 6 stranded conductors are used.
- Suitable for wire wiring in non-sports situations.
- Suitable for machine tools and other environments with serious oil pollution and corrosion.
- With shielding, excellent anti-interference performance (-SB use).
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用5、6类多股绞合导体
- PVC阻燃绝缘
- 芯线以短节距绞合在一起
- 无纺布绕包
- 镀锡铜编织屏蔽，屏蔽率≥85%（-SB使用）
- 耐油PVC阻燃护套
- Class 5 and 6 stranded conductors are used.
- PVC flame retardant insulation.
- The core wires are twisted together at a short pitch.
- Nonwoven fabric wrapping.
- Tinned copper braided shield, shielding rate ≥ 85% (for -SB use).
- Oil-resistant PVC flame retardant sheath.

◆ 规格参数

- 护套颜色：黑、灰、橙、绿
- 获得标准：非标或 UL
- UL文件No.：2464
- 额定电压：300/500V
- 耐燃性：FT2/VW-1

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard or UL
- UL file No.: 2464
- Rated voltage: 300/500V
- Flame resistance: FT2/VW-1

◆ 移动参数

- 使用温度范围：-15 ~ +80
- 拖链次数（万次）：200
- 拖链最小弯曲半径：-
- 固定敷设最小弯曲半径：4D
- 最大架空速度：0
- 最大加速度：0

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 200
- Minimum bending radius of towing chain: -
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 0
- Maximum acceleration: 0

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
YK067	2c	4.9	40	6.8	54.6
YK068	3c	5.1	47	5.7	54.6
YK069	4c	5.5	55	5.1	54.6
YK070	5c	6.0	64	4.8	54.6
YK071	6c	6.4	73	4.5	54.6
YK072	8c	6.8	89	4.0	54.6
YK073	10c	7.9	111	3.8	54.6
YK074	12c	8.2	123	3.6	54.6
YK075	16c	8.9	150	3.2	54.6
YK076	20c	9.9	185	3.0	54.6
YK077	25c	10.8	220	2.8	54.6
YK078	2c	5.5	51	8.9	35.7
YK079	3c	5.8	61	7.5	35.7
YK080	4c	6.3	73	6.7	35.7
YK081	5c	6.7	84	6.2	35.7
YK082	6c	7.2	97	5.9	35.7
YK083	8c	7.9	122	5.3	35.7
YK084	10c	9.3	153	5.0	35.7
YK085	12c	9.5	170	4.7	35.7
YK086	16c	10.4	209	4.2	35.7
YK087	20c	11.6	258	3.9	35.7
YK088	25c	12.6	309	3.7	35.7
YK089	2c	6.0	63	11.3	23.8
YK090	3c	6.3	75	9.5	23.8
YK091	4c	6.8	90	8.5	23.8
YK092	5c	7.5	107	8.0	23.8
YK093	6c	8.1	124	7.5	23.8
YK094	8c	8.6	154	6.7	23.8
YK095	10c	10.1	193	6.4	23.8
YK096	12c	10.4	215	5.9	23.8
YK097	16c	11.6	273	5.4	23.8
YK098	20c	12.7	331	5.0	23.8
YK099	25c	14.3	412	4.7	23.8

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
YK100	2c	6.5	75	13.4	18.2
YK101	3c	6.9	91	11.3	18.2
YK102	4c	7.6	113	10.2	18.2
YK103	5c	8.2	131	9.4	18.2
YK104	6c	8.9	153	8.9	18.2
YK105	8c	9.7	195	8.0	18.2
YK106	10c	11.2	238	7.6	18.2
YK107	12c	11.7	273	7.1	18.2
YK108	16c	12.9	341	6.4	18.2
YK109	20c	14.5	428	6.0	18.2
YK110	25c	16.1	524	5.6	18.2
YK111	2c	7.5	100	17.2	12.3
YK112	3c	7.9	122	14.5	12.3
YK113	4c	8.6	149	13.0	12.3
YK114	5c	9.5	178	12.1	12.3
YK115	6c	10.2	208	11.5	12.3
YK116	8c	11.0	261	10.3	12.3
YK117	10c	12.9	325	9.8	12.3
YK118	12c	13.3	369	9.1	12.3
YK119	16c	15.1	477	8.2	12.3
YK120	20c	16.8	589	7.7	12.3
YK121	25c	18.4	713	7.1	12.3
YK122	2c	8.6	138	23.7	7.4
YK123	3c	9.3	176	20.0	7.4
YK124	4c	10.1	218	17.9	7.4
YK125	5c	11.0	255	16.7	7.4
YK126	6c	12.1	306	15.8	7.4
YK127	8c	13.1	386	14.1	7.4
YK128	10c	15.6	491	13.5	7.4
YK129	12c	16.3	565	12.5	7.4
YK130	16c	17.9	713	11.3	7.4
YK131	20c	19.8	875	10.5	7.4
YK132	25c	21.7	1065	9.8	7.4

1.以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数据仅供参考，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-RK2 | PVC绝缘·PVC护套弱移动控制电缆

TPL-RK2 | PVC insulated and PVC sheathed weak mobile control cable



UL medium-low power cord speed motion RoHS



Long towing distance	耐长拖链距离	★
Plasticity	柔软性	★★★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★★
Life test of electric towing chain	电拖链寿命测试	★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 绝缘护套采用超柔软的PVC材料
- 适合于中低速运动场合的电线布线场合
- Rohs环保对应

◆ key property

- Obtained the US UL758 certification.
- The insulating sheath is made of ultra-soft PVC material.
- Suitable for low-speed sports occasions of wiring occasions.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用6类多股绞合导体，柔韧性好
- 柔软PVC阻燃绝缘
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 柔软PVC阻燃护套

◆ Construction of cable

- Adopt 6 kinds of multi-stranded conductor, good flexibility.
- Soft PVC flame retardant insulation.
- The core wires are twisted together to optimize the short pitch.
- Nonwoven fabric wrapping.
- Soft PVC flame retardant sheath.

◆ 规格参数

- 护套颜色：黑、灰、橙、绿
- 获得标准：非标or UL
- UL文件No.：2464
- 额定电压：300/500V
- 耐燃性：FT2/VW-1

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard or UL
- UL file No.: 2464
- Rated voltage: 300/500V
- Flame resistance: FT2/VW-1

◆ 移动参数

- 使用温度范围：-15 ~ +80
- 拖链次数（万次）：500
- 拖链最小弯曲半径：10D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：2
- 最大加速度：20

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 500
- Minimum bending radius of towing chain: 10D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 2
- Maximum acceleration: 20

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
RK001	2c	4.5	29	6.6	55.0
RK002	3c	4.7	34	5.5	55.0
RK003	4c	5.1	41	5.0	55.0
RK004	5c	5.5	48	4.6	55.0
RK005	6c	6.0	57	4.4	55.0
RK006	8c	6.8	74	4.0	55.0
RK007	10c	7.5	90	3.7	55.0
RK008	12c	7.7	101	3.5	55.0
RK009	16c	8.5	125	3.1	55.0
RK010	20c	9.5	157	2.9	55.0
RK011	25c	10.5	190	2.8	55.0
RK012	2c	5.1	37	8.6	35.9
RK013	3c	5.3	46	7.2	35.9
RK014	4c	5.9	57	6.5	35.9
RK015	5c	6.3	66	6.0	35.9
RK016	6c	6.8	77	5.7	35.9
RK017	8c	8.0	105	5.3	35.9
RK018	10c	8.7	124	4.9	35.9
RK019	12c	8.9	140	4.6	35.9
RK020	16c	10.0	180	4.1	35.9
RK021	20c	11.0	220	3.9	35.9
RK022	25c	12.3	274	3.6	35.9
RK023	2c	5.5	46	10.9	23.9
RK024	3c	5.9	59	9.2	23.9
RK025	4c	6.4	72	8.3	23.9
RK026	5c	6.9	84	7.7	23.9
RK027	6c	7.7	103	7.3	23.9
RK028	8c	8.8	135	6.8	23.9
RK029	10c	9.7	164	6.3	23.9
RK030	12c	10.0	186	5.8	23.9
RK031	16c	11.0	235	5.3	23.9
RK032	20c	12.3	294	4.9	23.9
RK033	25c	14.0	372	4.6	23.9

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
RK034	2c	6.6	63	13.5	18.1
RK035	3c	6.9	78	11.4	18.1
RK036	4c	7.7	100	10.3	18.1
RK037	5c	8.4	117	9.6	18.1
RK038	6c	9.3	142	9.1	18.1
RK039	8c	10.7	187	8.4	18.1
RK040	10c	11.8	226	7.8	18.1
RK041	12c	12.2	257	7.2	18.1
RK042	16c	13.8	336	6.6	18.1
RK043	20c	15.2	413	6.1	18.1
RK044	25c	17.1	511	5.7	18.1
RK045	2c	7.7	88	17.9	11.8
RK046	3c	8.1	111	15.0	11.8
RK047	4c	8.8	138	13.5	11.8
RK048	5c	9.8	166	12.6	11.8
RK049	6c	10.7	197	11.9	11.8
RK050	8c	12.6	267	11.0	11.8
RK051	10c	14.1	329	10.3	11.8
RK052	12c	14.5	374	9.5	11.8
RK053	16c	16.2	480	8.6	11.8
RK054	20c	17.9	591	8.0	11.8
RK055	25c	19.9	723	7.5	11.8
RK056	2c	8.9	123	24.1	7.4
RK057	3c	9.6	162	20.3	7.4
RK058	4c	10.5	202	18.3	7.4
RK059	5c	11.7	243	17.0	7.4
RK060	6c	12.7	289	16.1	7.4
RK061	8c	15.2	399	14.9	7.4
RK062	10c	16.7	482	13.8	7.4
RK063	12c	17.2	550	12.8	7.4
RK064	16c	19.1	699	11.6	7.4
RK065	20c	21.1	864	10.8	7.4
RK066	25c	23.5	1062	10.0	7.4

1.以上表格只列出部分产品，需要更多规格请联系我们。(C=芯数 P=对绞)

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-RK2 | PVC绝缘·PVC护套弱移动控制电缆

TPL-RK2 | PVC insulated and PVC sheathed weak mobile control cable



UL medium-low power cord shield RoHS

控制电缆
control cable



Long towing distance	耐长拖链距离	★
Plasticity	柔软性	★★★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★★
Life test of electric towing chain	电拖链寿命测试	★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 绝缘护套采用超柔软的PVC材料
- 适合于中低速运动场合的电线布线场合
- 带屏蔽·抗干扰性能优越 (-SB使用)
- Rohs环保对应

◆ 电缆结构

- 采用6类多股绞合导体·柔韧性好
- 柔软PVC阻燃绝缘
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 镀锡铜编织屏蔽·屏蔽率≥85% (-SB使用)
- 柔软PVC阻燃护套

◆ 规格参数

- 护套颜色: 黑·灰·橙·绿
- 获得标准: 非标 or UL
- UL文件No.: 2464
- 额定电压: 300/500V
- 耐燃性: FT2/VW-1

◆ 移动参数

- 使用温度范围: -15 ~ +80
- 拖链次数 (万次): 500
- 拖链最小弯曲半径: 10D
- 固定敷设最小弯曲半径: 4D
- 最大架空速度: 2
- 最大加速度: 20

◆ key property

- Obtained the US UL758 certification.
- The insulating sheath is made of ultra-soft PVC material.
- Suitable for low-speed sports occasions of wiring occasions.
- With shielding, excellent anti-interference performance (-SB use).
- Rohs environmental protection correspondence.

◆ Construction of cable

- Adopt 6 kinds of multi-stranded conductor, good flexibility.
- Soft PVC flame retardant insulation.
- The core wires are twisted together to optimize the short pitch.
- Nonwoven fabric wrapping.
- Tinned copper braided shield, shielding rate ≥ 85% (for-SB use).
- Soft PVC flame retardant sheath.

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard or UL
- UL file No.: 2464
- Rated voltage: 300/500V
- Flame resistance: FT2/VW-1

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 500
- Minimum bending radius of towing chain: 10D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 2
- Maximum acceleration: 20

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
RK067	2c	4.9	40	6.8	55.0
RK068	3c	5.1	47	5.7	55.0
RK069	4c	5.5	55	5.1	55.0
RK070	5c	6.0	64	4.8	55.0
RK071	6c	6.4	73	4.5	55.0
RK072	8c	7.2	92	4.1	55.0
RK073	10c	7.9	111	3.8	55.0
RK074	12c	8.1	123	3.5	55.0
RK075	16c	8.9	150	3.2	55.0
RK076	20c	9.9	184	3.0	55.0
RK077	25c	10.9	220	2.8	55.0
RK078	2c	5.5	51	8.8	35.9
RK079	3c	5.8	61	7.5	35.9
RK080	4c	6.3	73	6.7	35.9
RK081	5c	6.7	84	6.2	35.9
RK082	6c	7.2	97	5.9	35.9
RK083	8c	8.4	127	5.4	35.9
RK084	10c	9.3	153	5.0	35.9
RK085	12c	9.5	170	4.7	35.9
RK086	16c	10.4	209	4.2	35.9
RK087	20c	11.6	258	3.9	35.9
RK088	25c	12.7	310	3.7	35.9
RK089	2c	6.0	63	11.3	23.9
RK090	3c	6.3	75	9.5	23.9
RK091	4c	6.8	90	8.5	23.9
RK092	5c	7.3	104	7.9	23.9
RK093	6c	8.1	125	7.5	23.9
RK094	8c	9.4	164	6.9	23.9
RK095	10c	10.1	192	6.4	23.9
RK096	12c	10.4	215	5.9	23.9
RK097	16c	11.6	272	5.4	23.9
RK098	20c	12.7	331	5.0	23.9
RK099	25c	14.4	413	4.7	23.9

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
RK100	2c	7.0	81	13.9	18.1
RK101	3c	7.5	101	11.7	18.1
RK102	4c	8.1	122	10.5	18.1
RK103	5c	8.8	140	9.7	18.1
RK104	6c	9.7	168	9.2	18.1
RK105	8c	11.1	219	8.5	18.1
RK106	10c	12.2	261	7.9	18.1
RK107	12c	12.6	292	7.3	18.1
RK108	16c	14.2	377	6.6	18.1
RK109	20c	15.6	459	6.2	18.1
RK110	25c	17.5	562	5.8	18.1
RK111	2c	8.1	110	18.2	11.8
RK112	3c	8.5	134	15.3	11.8
RK113	4c	9.4	168	13.8	11.8
RK114	5c	10.2	195	12.8	11.8
RK115	6c	11.1	228	12.1	11.8
RK116	8c	13.0	305	11.2	11.8
RK117	10c	14.5	370	10.4	11.8
RK118	12c	14.9	416	9.6	11.8
RK119	16c	16.7	538	8.7	11.8
RK120	20c	18.4	656	8.1	11.8
RK121	25c	20.3	794	7.6	11.8
RK122	2c	9.5	154	24.6	7.4
RK123	3c	10.0	189	20.6	7.4
RK124	4c	10.9	233	18.5	7.4
RK125	5c	12.1	278	17.2	7.4
RK126	6c	13.1	327	16.3	7.4
RK127	8c	15.6	454	15.0	7.4
RK128	10c	17.2	541	13.9	7.4
RK129	12c	17.7	612	12.9	7.4
RK130	16c	19.5	767	11.7	7.4
RK131	20c	21.6	943	10.9	7.4
RK132	25c	24.0	1148	10.1	7.4

1.以上表格只列出一部分产品, 需要更多规格请联系我们。(C=芯数 P=对绞)

The above table only lists some products. Please contact us if you need more specifications. (C=core number P=Pair of twisted)

2.以上数字仅为参考值, 数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-TK2 | PVC绝缘·PVC护套中高速控制电缆

TPL-TK2 | PVC insulated and PVC sheathed high-speed control cable



UL medium-high powercord speed motion RoHS



Long towing distance	耐长拖链距离	★★
Plasticity	柔软性	★★★★
Weather ability	耐候性	★★★★
Oil resistivity	耐油性	★★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 适合小弯曲半径布线
- 中高速首选
- 阻燃性能优
- Rohs环保对应

◆ key property

- Obtained the US UL758 certification.
- Suitable for wiring with small bending radius.
- First choice for medium and high speed.
- Excellent flame retardant performance.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- 耐热柔软PVC阻燃绝缘
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 耐热柔软PVC阻燃护套

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- Heat-resistant soft PVC flame-retardant insulation.
- The core wires are twisted together to optimize the short pitch.
- Nonwoven fabric wrapping.
- Heat-resistant soft PVC flame retardant sheath.

◆ 规格参数

- 护套颜色：黑、灰、橙、绿
- 获得标准：非标or UL
- UL文件No.：2464/2517
- 额定电压：300/500V
- 阻燃性：VW-1

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard or UL
- UL file No.: 2464/2517
- Rated voltage: 300/500V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-20~+105
- 拖链次数（万次）：1000
- 拖链最小弯曲半径：8D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：20

◆ Moving parameter

- Operating temperature range: -20~+105
- Number of drag chains (one million time): 1000
- Minimum bending radius of towing chain: 8D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 20

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
TK001	2c	4.5	28	6.4	58.3
TK002	3c	4.7	34	5.3	58.3
TK003	4c	5.0	41	4.8	58.3
TK004	5c	5.4	47	4.4	58.3
TK005	6c	5.9	56	4.2	58.3
TK006	8c	6.8	72	3.9	58.3
TK007	10c	7.3	84	3.6	58.3
TK008	12c	7.7	99	3.4	58.3
TK009	16c	8.4	123	3.0	58.3
TK010	20c	9.4	154	2.9	58.3
TK011	25c	10.4	186	2.7	58.3
TK012	2c	5.1	38	8.7	35.1
TK013	3c	5.4	47	7.3	35.1
TK014	4c	5.9	58	6.6	35.1
TK015	5c	6.4	68	6.1	35.1
TK016	6c	6.9	79	5.8	35.1
TK017	8c	8.1	108	5.4	35.1
TK018	10c	8.7	127	5.0	35.1
TK019	12c	9.0	143	4.6	35.1
TK020	16c	10.1	185	4.2	35.1
TK021	20c	11.1	226	3.9	35.1
TK022	25c	12.5	281	3.7	35.1
TK023	2c	5.6	48	11.2	23.1
TK024	3c	6.0	61	9.4	23.1
TK025	4c	6.4	75	8.5	23.1
TK026	5c	7.0	87	7.9	23.1
TK027	6c	7.7	107	7.5	23.1
TK028	8c	8.9	140	6.9	23.1
TK029	10c	9.8	170	6.4	23.1
TK030	12c	10.1	193	6.0	23.1
TK031	16c	11.2	244	5.4	23.1
TK032	20c	12.5	306	5.1	23.1
TK033	25c	14.2	386	4.7	23.1

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
TK034	2c	6.6	63	13.7	17.9
TK035	3c	6.9	79	11.5	17.9
TK036	4c	7.7	101	10.4	17.9
TK037	5c	8.4	118	9.7	17.9
TK038	6c	9.3	143	9.2	17.9
TK039	8c	10.7	189	8.5	17.9
TK040	10c	11.9	229	7.9	17.9
TK041	12c	12.2	259	7.3	17.9
TK042	16c	13.9	340	6.6	17.9
TK043	20c	15.3	417	6.2	17.9
TK044	25c	17.1	516	5.8	17.9
TK045	2c	7.6	87	17.6	12.1
TK046	3c	8.1	109	14.8	12.1
TK047	4c	8.8	135	13.3	12.1
TK048	5c	9.8	163	12.4	12.1
TK049	6c	10.6	193	11.7	12.1
TK050	8c	12.5	262	10.8	12.1
TK051	10c	14.0	323	10.1	12.1
TK052	12c	14.4	367	9.3	12.1
TK053	16c	16.1	471	8.5	12.1
TK054	20c	17.8	580	7.9	12.1
TK055	25c	19.7	708	7.4	12.1
TK056	2c	8.9	123	24.0	7.4
TK057	3c	9.6	161	20.3	7.4
TK058	4c	10.5	202	18.3	7.4
TK059	5c	11.7	243	17.0	7.4
TK060	6c	12.7	289	16.1	7.4
TK061	8c	15.2	399	14.8	7.4
TK062	10c	16.7	482	13.8	7.4
TK063	12c	17.2	549	12.8	7.4
TK064	16c	19.1	698	11.6	7.4
TK065	20c	21.1	863	10.8	7.4
TK066	25c	23.5	1060	10.0	7.4

1.以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-TK2 | PVC绝缘·PVC护套中高速控制电缆

TPL-TK2 | PVC insulated and PVC sheathed high-speed control cable



UL medium-high power cord shield RoHS

控制电缆



Long towing distance	耐长拖链距离	★★
Plasticity	柔软性	★★★★
Weather ability	耐候性	★★★
Oil resistivity	耐油性	★★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 适合小弯曲半径布线
- 中高速首选
- 阻燃性能优
- 带屏蔽、抗干扰性能优越 (-SB使用)
- Rohs环保对应

◆ key property

- Obtained the US UL758 certification.
- Suitable for wiring with small bending radius.
- First choice for medium and high speed.
- Excellent flame retardant performance.
- With shielding, excellent anti-interference performance (-SB use).
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- 耐热柔软PVC阻燃绝缘
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 镀锡铜编织屏蔽，屏蔽率≥85% (-SB使用)
- 耐热柔软PVC阻燃护套

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- Heat-resistant soft PVC flame-retardant insulation.
- The core wires are twisted together to optimize the short pitch.
- Nonwoven fabric wrapping.
- Tinned copper braided shield, shielding rate ≥ 85% (for-SB use).
- Heat-resistant soft PVC flame retardant sheath.

◆ 规格参数

- 护套颜色：黑、灰、橙、绿
- 获得标准：非标or UL
- UL文件No.: 2464/2517
- 额定电压：300/500V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard or UL
- UL file No.: 2464/2517
- Rated voltage: 300/500V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-20~+105
- 拖链次数（万次）：1000
- 拖链最小弯曲半径：8D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：20

◆ Moving parameter

- Operating temperature range: -20~+105
- Number of drag chains (one million time): 1000
- Minimum bending radius of towing chain: 8D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 20

◆ 规格

产品编号 Product number	规格 (mm ²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
TK067	2c	4.9	40	6.6	58.3
TK068	3c	5.1	46	5.5	58.3
TK069	4c	5.4	54	5.0	58.3
TK070	5c	5.9	63	4.6	58.3
TK071	6c	6.3	72	4.3	58.3
TK072	8c	7.2	91	4.0	58.3
TK073	10c	7.9	109	3.7	58.3
TK074	12c	8.1	120	3.4	58.3
TK075	16c	8.8	147	3.1	58.3
TK076	20c	9.8	181	2.9	58.3
TK077	25c	10.8	216	2.7	58.3
TK078	2c	5.5	52	9.0	35.1
TK079	3c	5.9	63	7.6	35.1
TK080	4c	6.3	74	6.8	35.1
TK081	5c	6.8	85	6.3	35.1
TK082	6c	7.3	99	5.9	35.1
TK083	8c	8.5	131	5.5	35.1
TK084	10c	9.3	156	5.1	35.1
TK085	12c	9.6	174	4.7	35.1
TK086	16c	10.5	215	4.3	35.1
TK087	20c	11.7	264	4.0	35.1
TK088	25c	12.9	319	3.7	35.1
TK089	2c	6.1	64	11.5	23.1
TK090	3c	6.4	77	9.7	23.1
TK091	4c	6.8	93	8.7	23.1
TK092	5c	7.6	111	8.1	23.1
TK093	6c	8.1	129	7.7	23.1
TK094	8c	9.5	170	7.1	23.1
TK095	10c	10.2	199	6.5	23.1
TK096	12c	10.5	223	6.1	23.1
TK097	16c	11.8	283	5.5	23.1
TK098	20c	12.9	343	5.1	23.1
TK099	25c	14.6	428	4.8	23.1

◆ Specifications

产品编号 Product number	规格 (mm ²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
TK100	2c	7.0	82	14.0	17.9
TK101	3c	7.5	102	11.8	17.9
TK102	4c	8.1	123	10.6	17.9
TK103	5c	8.8	142	9.8	17.9
TK104	6c	9.7	171	9.3	17.9
TK105	8c	11.1	220	8.6	17.9
TK106	10c	12.3	263	8.0	17.9
TK107	12c	12.6	295	7.4	17.9
TK108	16c	14.3	380	6.7	17.9
TK109	20c	15.7	463	6.2	17.9
TK110	25c	17.5	567	5.8	17.9
TK111	2c	8.0	108	17.9	12.1
TK112	3c	8.5	132	15.0	12.1
TK113	4c	9.4	165	13.6	12.1
TK114	5c	10.2	191	12.6	12.1
TK115	6c	11.0	224	11.9	12.1
TK116	8c	12.9	300	11.0	12.1
TK117	10c	14.4	364	10.2	12.1
TK118	12c	14.8	409	9.4	12.1
TK119	16c	16.5	519	8.5	12.1
TK120	20c	18.2	633	8.0	12.1
TK121	25c	20.1	770	7.4	12.1
TK122	2c	9.5	153	24.5	7.4
TK123	3c	10.0	189	20.6	7.4
TK124	4c	10.9	233	18.5	7.4
TK125	5c	12.1	277	17.2	7.4
TK126	6c	13.1	327	16.3	7.4
TK127	8c	15.6	445	15.0	7.4
TK128	10c	17.1	531	13.9	7.4
TK129	12c	17.6	601	12.9	7.4
TK130	16c	19.5	755	11.6	7.4
TK131	20c	21.5	929	10.8	7.4
TK132	25c	23.9	1134	10.1	7.4

1.以上表格只列出部分产品，需要更多规格请联系我们。(C=芯数 P=对绞)

The above table only lists some products. Please contact us if you need more specifications. (C = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-HK2 | PVC绝缘 · PVC耐油护套高速控制电缆

TPL-HK2 | PVC insulated, PVC oil resistant sheathed high-speed control cable



控制电缆
control cable



Long towing distance	耐长拖链距离	★★★★
Plasticity	柔软性	★★★★★
Weather ability	耐候性	★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★★
Swing resistance	耐摇摆性	★★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 护套采用日本柔软改性PVC护套，耐油、耐磨
- 适合机床等油污腐蚀严重的环境
- 中高速首选
- 阻燃性能优
- Rohs环保对应
- Obtained the US UL758 certification.
- The sheath adopts Japanese soft modified PVC sheath, which is oil-resistant and wear-resistant.
- Suitable for machine tools and other environments with serious oil pollution and corrosion.
- First choice for medium and high speed.
- Excellent flame retardant performance.
- Rohs environmental protection correspondence.

◆ key property

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- 耐热柔软PVC阻燃绝缘
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 改性PVC阻燃护套
- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- Heat-resistant soft PVC flame-retardant insulation.
- The core wires are twisted together to optimize the short pitch.
- Nonwoven fabric wrapping.
- Modified PVC flame retardant sheath.

◆ Construction of cable

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标or UL
- UL文件No.：2464/2517
- 额定电压：300/500V
- 耐燃性：VW-1
- Sheath color: black
- Acquisition criteria: non-standard or UL
- UL file No.: 2464/2517
- Rated voltage: 300/500V
- Flame resistance: VW-1

◆ Specification parameter

◆ 移动参数

- 使用温度范围：-20 ~ +105
- 拖链次数（万次）：1000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：30
- Operating temperature range: -20 ~ +105
- Number of drag chains (one million time): 1000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 30

◆ Moving parameter

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
HK001	2c	4.5	28	6.4	58.3
HK002	3c	4.7	34	5.3	58.3
HK003	4c	5.0	41	4.8	58.3
HK004	5c	5.4	47	4.4	58.3
HK005	6c	5.9	56	4.2	58.3
HK006	8c	6.8	72	3.9	58.3
HK007	10c	7.3	84	3.6	58.3
HK008	12c	7.7	99	3.4	58.3
HK009	16c	8.4	123	3.0	58.3
HK010	20c	9.4	154	2.9	58.3
HK011	25c	10.4	186	2.7	58.3
HK012	2c	5.1	38	8.7	35.1
HK013	3c	5.4	47	7.3	35.1
HK014	4c	5.9	58	6.6	35.1
HK015	5c	6.4	68	6.1	35.1
HK016	6c	6.9	79	5.8	35.1
HK017	8c	8.1	108	5.4	35.1
HK018	10c	8.7	127	5.0	35.1
HK019	12c	9.0	143	4.6	35.1
HK020	16c	10.1	185	4.2	35.1
HK021	20c	11.1	226	3.9	35.1
HK022	25c	12.5	281	3.7	35.1
HK023	2c	6.0	52	11.5	23.5
HK024	3c	6.3	64	9.6	23.5
HK025	4c	6.9	79	8.7	23.5
HK026	5c	7.6	95	8.1	23.5
HK027	6c	8.3	112	7.7	23.5
HK028	8c	9.7	152	7.1	23.5
HK029	10c	10.5	179	6.6	23.5
HK030	12c	10.8	203	6.1	23.5
HK031	16c	12.2	261	5.5	23.5
HK032	20c	13.4	321	5.2	23.5
HK033	25c	15.2	405	4.8	23.5

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
HK034	2c	6.6	63	13.7	17.9
HK035	3c	6.9	79	11.5	17.9
HK036	4c	7.7	101	10.4	17.9
HK037	5c	8.4	118	9.7	17.9
HK038	6c	9.3	143	9.2	17.9
HK039	8c	10.7	189	8.5	17.9
HK040	10c	11.9	229	7.9	17.9
HK041	12c	12.2	259	7.3	17.9
HK042	16c	13.9	340	6.6	17.9
HK043	20c	15.3	417	6.2	17.9
HK044	25c	17.1	516	5.8	17.9
HK045	2c	7.6	87	17.6	12.1
HK046	3c	8.1	109	14.8	12.1
HK047	4c	8.8	135	13.3	12.1
HK048	5c	9.8	163	12.4	12.1
HK049	6c	10.6	193	11.7	12.1
HK050	8c	12.5	262	10.8	12.1
HK051	10c	14.0	323	10.1	12.1
HK052	12c	14.4	367	9.3	12.1
HK053	16c	16.1	471	8.5	12.1
HK054	20c	17.8	580	7.9	12.1
HK055	25c	19.7	708	7.4	12.1
HK056	2c	8.9	123	24.0	7.4
HK057	3c	9.6	161	20.3	7.4
HK058	4c	10.5	202	18.3	7.4
HK059	5c	11.7	243	17.0	7.4
HK060	6c	12.7	289	16.1	7.4
HK061	8c	15.2	399	14.8	7.4
HK062	10c	16.7	482	13.8	7.4
HK063	12c	17.2	549	12.8	7.4
HK064	16c	19.1	698	11.6	7.4
HK065	20c	21.1	863	10.8	7.4
HK066	25c	23.5	1060	10.0	7.4

1.以上表格只列出部分产品，需要更多规格请联系我们。(C=芯数 P=对绞)

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-HK2 | PVC绝缘 · PVC耐油护套高速控制电缆

TPL-HK2 | PVC insulated, PVC oil resistant sheathed high-speed control cable



UL highspeed oilproof powercord shield RoHS

控制电缆



Long towing distance	耐长拖链距离	★★★★
Plasticity	柔软性	★★★★
Weather ability	耐候性	★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 护套采用日本柔软改性PVC护套，耐油、耐磨
- 适合机床等油污腐蚀严重的环境
- 中高速首选
- 阻燃性能优
- 带屏蔽，抗干扰性能优越（-SB使用）
- Rohs环保对应

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- 耐热柔软PVC阻燃绝缘
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 镀锡铜编织屏蔽，屏蔽率≥85%（-SB使用）
- 改性PVC阻燃护套

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标或UL
- UL文件No.：2464/2517
- 额定电压：300/500V
- 耐燃性：VW-1

◆ 移动参数

- 使用温度范围：-20~+105
- 拖链次数（万次）：1000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：30

◆ key property

- Obtained the US UL758 certification.
- The sheath adopts Japanese soft modified PVC sheath, which is oil-resistant and wear-resistant.
- Suitable for machine tools and other environments with serious oil pollution and corrosion.
- First choice for medium and high speed.
- Excellent flame retardant performance.
- With shielding, excellent anti-interference performance (-SB use).
- Rohs environmental protection correspondence.

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- Heat-resistant soft PVC flame-retardant insulation.
- The core wires are twisted together at an optimized short pitch.
- Nonwoven fabric wrapping.
- Tinned copper braided shield, shielding rate ≥ 85% (for-SB use).
- Modified PVC flame retardant sheath.

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard or UL
- UL file No.: 2464/2517
- Rated voltage: 300/500V
- Flame resistance: VW-1

◆ Moving parameter

- Operating temperature range: -20~+105
- Number of drag chains (one million time): 1000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 30

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
HK067	2c	4.9	40	6.6	58.3
HK068	3c	5.1	46	5.5	58.3
HK069	4c	5.4	54	5.0	58.3
HK070	5c	5.9	63	4.6	58.3
HK071	6c	6.3	72	4.3	58.3
HK072	8c	7.2	91	4.0	58.3
HK073	10c	7.9	109	3.7	58.3
HK074	12c	8.1	120	3.4	58.3
HK075	16c	8.8	147	3.1	58.3
HK076	20c	9.8	181	2.9	58.3
HK077	25c	10.8	216	2.7	58.3
HK078	2c	5.5	52	9.0	35.1
HK079	3c	5.9	63	7.6	35.1
HK080	4c	6.3	75	6.8	35.1
HK081	5c	6.8	85	6.3	35.1
HK082	6c	7.3	99	5.9	35.1
HK083	8c	8.5	131	5.5	35.1
HK084	10c	9.3	156	5.1	35.1
HK085	12c	9.6	174	4.7	35.1
HK086	16c	10.5	215	4.3	35.1
HK087	20c	11.7	264	4.0	35.1
HK088	25c	12.9	319	3.7	35.1
HK089	2c	6.4	69	11.8	23.5
HK090	3c	6.7	82	9.9	23.5
HK091	4c	7.3	99	8.9	23.5
HK092	5c	8.0	117	8.3	23.5
HK093	6c	8.7	136	7.8	23.5
HK094	8c	10.1	180	7.2	23.5
HK095	10c	10.9	210	6.7	23.5
HK096	12c	11.4	241	6.2	23.5
HK097	16c	12.6	297	5.6	23.5
HK098	20c	14.2	375	5.2	23.5
HK099	25c	15.6	451	4.9	23.5

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
HK100	2c	7.0	82	14.0	17.9
HK101	3c	7.5	102	11.8	17.9
HK102	4c	8.1	123	10.6	17.9
HK103	5c	8.8	142	9.8	17.9
HK104	6c	9.7	171	9.3	17.9
HK105	8c	11.1	220	8.6	17.9
HK106	10c	12.3	263	8.0	17.9
HK107	12c	12.6	295	7.4	17.9
HK108	16c	14.3	380	6.7	17.9
HK109	20c	15.7	463	6.2	17.9
HK110	25c	17.5	567	5.8	17.9
HK111	2c	8.0	108	17.9	12.1
HK112	3c	8.5	132	15.0	12.1
HK113	4c	9.4	165	13.6	12.1
HK114	5c	10.2	191	12.6	12.1
HK115	6c	11.0	224	11.9	12.1
HK116	8c	12.9	300	11.0	12.1
HK117	10c	14.4	364	10.2	12.1
HK118	12c	14.8	409	9.4	12.1
HK119	16c	16.5	519	8.5	12.1
HK120	20c	18.2	633	8.0	12.1
HK121	25c	20.1	770	7.4	12.1
HK122	2c	9.5	153	24.5	7.4
HK123	3c	10.0	189	20.6	7.4
HK124	4c	10.9	233	18.5	7.4
HK125	5c	12.1	277	17.2	7.4
HK126	6c	13.1	327	16.3	7.4
HK127	8c	15.6	445	15.0	7.4
HK128	10c	17.1	531	13.9	7.4
HK129	12c	17.6	601	12.9	7.4
HK130	16c	19.5	755	11.6	7.4
HK131	20c	21.5	929	10.8	7.4
HK132	25c	23.9	1134	10.1	7.4

1.以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-MK2 | PVC绝缘·TPU护套高速控制电缆

TPL-MK2 | PVC insulated and TPU sheathed high-speed control cable



hypervelocity motion oil proof abrasion resistant power cord RoHS



Long towing distance	耐长拖链距离	★★★★
Plasticity	柔软性	★★★
Weather ability	耐候性	★★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 环保TPU护套·抗拉、耐油、耐磨、耐气候、抗水解和微生物
- 适合于高速、长拖链运动场合的电缆布线场合
- Rohs环保对应

◆ key property

- Environmentally friendly TPU sheath, tensile, oil resistant, wear-resistant, weather resistant, hydrolysis resistant, and microbial resistant.
- Suitable for wire routing in high-speed and long drag chain sports situations.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体·柔韧性好
- 耐热柔软PVC阻燃绝缘
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 耐油、耐磨TPU阻燃护套

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- Heat-resistant soft PVC flame-retardant insulation.
- The core wires are twisted together at an optimized short pitch.
- Nonwoven fabric wrapping.
- Oil-resistant and wear-resistant TPU flame retardant sheath.

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标
- UL文件No.：-
- GB编号：-
- 额定电压：300/500V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard
- UL file No.: -
- GB number: -
- Rated voltage: 300/500V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-40 ~ +80
- 拖链次数（万次）：2000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：30

◆ Moving parameter

- Operating temperature range: -40 ~ +80
- Number of drag chains (one million time): 2000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 30

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
MK001	2c	4.9	30	6.9	54.1
MK002	3c	5.1	36	5.8	54.1
MK003	4c	5.5	43	5.2	54.1
MK004	5c	6.0	51	4.8	54.1
MK005	6c	6.5	60	4.6	54.1
MK006	8c	7.6	81	4.2	54.1
MK007	10c	8.2	94	3.9	54.1
MK008	12c	8.4	106	3.6	54.1
MK009	16c	9.4	136	3.3	54.1
MK010	20c	10.3	166	3.1	54.1
MK011	25c	11.6	206	2.9	54.1
MK012	2c	5.5	39	8.9	36.1
MK013	3c	5.9	49	7.5	36.1
MK014	4c	6.3	59	6.7	36.1
MK015	5c	6.8	69	6.2	36.1
MK016	6c	7.6	84	5.9	36.1
MK017	8c	8.7	110	5.5	36.1
MK018	10c	9.6	133	5.1	36.1
MK019	12c	9.9	150	4.7	36.1
MK020	16c	10.8	187	4.3	36.1
MK021	20c	12.1	235	4.0	36.1
MK022	25c	13.4	285	3.7	36.1
MK023	2c	6.1	50	11.5	23.5
MK024	3c	6.4	62	9.7	23.5
MK025	4c	7.0	77	8.7	23.5
MK026	5c	7.7	92	8.1	23.5
MK027	6c	8.4	109	7.7	23.5
MK028	8c	9.8	147	7.1	23.5
MK029	10c	10.6	174	6.6	23.5
MK030	12c	10.9	197	6.1	23.5
MK031	16c	12.3	254	5.5	23.5
MK032	20c	13.9	323	5.2	23.5
MK033	25c	15.3	394	4.8	23.5

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
MK034	2c	6.7	61	13.7	18.0
MK035	3c	7.1	77	11.5	18.0
MK036	4c	7.9	99	10.4	18.0
MK037	5c	8.5	115	9.7	18.0
MK038	6c	9.4	140	9.2	18.0
MK039	8c	10.9	185	8.5	18.0
MK040	10c	12.0	223	7.9	18.0
MK041	12c	12.3	254	7.3	18.0
MK042	16c	14.0	332	6.6	18.0
MK043	20c	15.4	408	6.2	18.0
MK044	25c	17.3	505	5.7	18.0
MK045	2c	7.7	83	17.3	12.6
MK046	3c	8.1	104	14.5	12.6
MK047	4c	8.8	130	13.1	12.6
MK048	5c	9.8	156	12.2	12.6
MK049	6c	10.7	185	11.5	12.6
MK050	8c	12.5	251	10.7	12.6
MK051	10c	14.0	309	9.9	12.6
MK052	12c	14.4	352	9.2	12.6
MK053	16c	16.1	452	8.3	12.6
MK054	20c	17.8	557	7.7	12.6
MK055	25c	19.7	682	7.2	12.6
MK056	2c	9.0	118	23.7	7.6
MK057	3c	9.7	155	20.0	7.6
MK058	4c	10.6	195	18.0	7.6
MK059	5c	11.7	234	16.8	7.6
MK060	6c	12.7	278	15.8	7.6
MK061	8c	15.2	384	14.6	7.6
MK062	10c	16.7	463	13.6	7.6
MK063	12c	17.2	530	12.6	7.6
MK064	16c	19.1	675	11.4	7.6
MK065	20c	21.1	835	10.6	7.6
MK066	25c	23.5	1026	9.9	7.6

1.以上表格只列出部分产品，需要更多规格请联系我们。(C=芯数 P=对绞)

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-MK2 | PVC绝缘·TPU护套高速控制电缆

TPL-MK2 | PVC insulated and TPU sheathed high-speed control cable



hypervelocity oilproof abrasion powercord shield RoHS

控制电缆
control cable



Long towing distance	耐长拖链距离	★★★★
Plasticity	柔软性	★★★
Weather ability	耐候性	★★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 环保TPU护套·抗拉、耐油、耐磨、耐气候、抗水解和微生物
- 适合于高速、长拖链运动场合的电线布线场合
- 带屏蔽·抗干扰性能优越 (-SB使用)
- Rohs环保对应

◆ key property

- Environmentally friendly TPU sheath, tensile, oil resistant, wear-resistant, weather resistant, hydrolysis resistant, and microbial resistant.
- Suitable for wire routing in high-speed and long drag chain sports situations.
- With shielding, excellent anti-interference performance (-SB use).
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体·柔韧性良好
- 耐热柔软PVC阻燃绝缘
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 镀锡铜编织屏蔽·屏蔽率≥85% (-SB使用)
- 耐油、耐磨TPU阻燃护套

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- Heat-resistant soft PVC flame-retardant insulation.
- The core wires are twisted together at an optimized short pitch.
- Nonwoven fabric wrapping.
- Tinned copper braided shield, shielding rate ≥ 85% (for-SB use).
- Oil-resistant and wear-resistant TPU flame retardant sheath.

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标
- UL文件No.：-
- 额定电压：300/500V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard
- UL file No.: -
- Rated voltage: 300/500V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-40~+80
- 拖链次数 (万次)：2000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：30

◆ Moving parameter

- Operating temperature range: -40~+80
- Number of drag chains (one million time): 2000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 30

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
MK067	2c	5.3	43	7.1	54.1
MK068	3c	5.5	49	6.0	54.1
MK069	4c	6.0	59	5.4	54.1
MK070	5c	6.4	67	5.0	54.1
MK071	6c	6.9	77	4.7	54.1
MK072	8c	8.0	102	4.3	54.1
MK073	10c	8.6	117	4.0	54.1
MK074	12c	8.8	129	3.7	54.1
MK075	16c	9.8	163	3.4	54.1
MK076	20c	10.7	195	3.1	54.1
MK077	25c	12.0	239	2.9	54.1
MK078	2c	6.0	55	9.2	36.1
MK079	3c	6.3	64	7.7	36.1
MK080	4c	6.7	76	6.9	36.1
MK081	5c	7.2	88	6.4	36.1
MK082	6c	8.0	105	6.1	36.1
MK083	8c	9.3	138	5.6	36.1
MK084	10c	10.0	160	5.2	36.1
MK085	12c	10.3	177	4.8	36.1
MK086	16c	11.4	223	4.3	36.1
MK087	20c	12.5	269	4.0	36.1
MK088	25c	14.2	336	3.8	36.1
MK089	2c	6.5	66	11.8	23.5
MK090	3c	6.8	79	9.9	23.5
MK091	4c	7.6	99	9.0	23.5
MK092	5c	8.1	114	8.3	23.5
MK093	6c	8.8	132	7.8	23.5
MK094	8c	10.2	175	7.2	23.5
MK095	10c	11.0	204	6.7	23.5
MK096	12c	11.5	233	6.2	23.5
MK097	16c	12.7	289	5.6	23.5
MK098	20c	14.3	363	5.2	23.5
MK099	25c	15.7	439	4.9	23.5

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
MK100	2c	7.1	79	14.0	18.0
MK101	3c	7.7	99	11.8	18.0
MK102	4c	8.3	120	10.6	18.0
MK103	5c	8.9	139	9.8	18.0
MK104	6c	9.8	167	9.3	18.0
MK105	8c	11.5	221	8.6	18.0
MK106	10c	12.4	258	8.0	18.0
MK107	12c	12.7	289	7.4	18.0
MK108	16c	14.4	372	6.7	18.0
MK109	20c	16.0	461	6.2	18.0
MK110	25c	17.7	556	5.8	18.0
MK111	2c	8.1	104	17.6	12.6
MK112	3c	8.5	127	14.8	12.6
MK113	4c	9.4	159	13.4	12.6
MK114	5c	10.2	184	12.4	12.6
MK115	6c	11.1	216	11.7	12.6
MK116	8c	12.9	287	10.8	12.6
MK117	10c	14.4	350	10.0	12.6
MK118	12c	14.8	393	9.3	12.6
MK119	16c	16.5	500	8.4	12.6
MK120	20c	18.2	609	7.8	12.6
MK121	25c	20.1	742	7.3	12.6
MK122	2c	9.6	147	24.2	7.6
MK123	3c	10.1	183	20.3	7.6
MK124	4c	11.0	225	18.3	7.6
MK125	5c	12.1	268	17.0	7.6
MK126	6c	13.1	316	16.0	7.6
MK127	8c	15.6	429	14.8	7.6
MK128	10c	17.1	512	13.7	7.6
MK129	12c	17.6	581	12.7	7.6
MK130	16c	19.5	730	11.5	7.6
MK131	20c	21.5	900	10.7	7.6
MK132	25c	23.9	1098	9.9	7.6

1.以上表格只列出部分产品·需要更多规格请联系我们。(C=芯数 P=对绞)
The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值·数字以最终规格书为准。
The above figures are for reference only, and the figures are subject to the final specification.

TPL-MXK2 | TPE绝缘·TPU护套超长、超高速控制电缆

TPL-MXK2 | TPE insulated, TPU sheathed ultra long, ultra high speed control cable



overlength
hypervelocity
motion oil proof
abrasion
resistant power cord RoHS

控制电缆
control cable



Long towing distance	耐长拖链距离	★★★★★
Plasticity	柔软性	★★
Weather ability	耐候性	★★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★★★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链测试	★★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 绝缘采用弹性XLPE材料，抗拉
- 环保TPU护套，抗拉、耐油、耐磨、耐气候、抗水解和微生物
- 适合于高速、长拖链运动场合的电线布线场合
- Rohs环保对应

◆ key property

- The insulation is made of elastic XLPE material and tensile.
- Environmentally friendly TPU sheath, tensile, oil resistant, wear-resistant, weather resistant, hydrolysis resistant, and microbial resistant.
- Suitable for wire routing in high-speed and long drag chain sports situations.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- 绝缘采用弹性XLPE材料，抗拉
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 环保TPU阻燃护套

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- The insulation is made of elastic XLPE material and tensile.
- The core wires are twisted together at an optimized short pitch.
- Nonwoven fabric wrapping.
- Environment-friendly TPU flame-retardant sheath.

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标
- UL文件No.：-
- 额定电压：300/500V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard
- UL file No.: -
- Rated voltage: 300/500V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-40~+80
- 拖链次数（万次）：5000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：10
- 最大加速度：80

◆ Moving parameter

- Operating temperature range: -40~+80
- Number of drag chains (one million time): 5000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 10
- Maximum acceleration: 80

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30℃) Carrying capacity	导体电阻 Ω/km(20℃) Conductor resistance
MXK001	2c	4.9	30	6.9	54.1
MXK002	3c	5.1	36	5.8	54.1
MXK003	4c	5.5	43	5.2	54.1
MXK004	5c	6.0	51	4.8	54.1
MXK005	6c	6.5	60	4.6	54.1
MXK006	8c	7.6	81	4.2	54.1
MXK007	10c	8.2	94	3.9	54.1
MXK008	12c	8.4	106	3.6	54.1
MXK009	16c	9.4	136	3.3	54.1
MXK010	20c	10.3	166	3.1	54.1
MXK011	25c	11.6	206	2.9	54.1
MXK012	2c	5.5	39	8.9	36.1
MXK013	3c	5.9	49	7.5	36.1
MXK014	4c	6.3	59	6.7	36.1
MXK015	5c	6.8	69	6.2	36.1
MXK016	6c	7.6	84	5.9	36.1
MXK017	8c	8.7	110	5.5	36.1
MXK018	10c	9.6	133	5.1	36.1
MXK019	12c	9.9	150	4.7	36.1
MXK020	16c	10.8	187	4.3	36.1
MXK021	20c	12.1	235	4.0	36.1
MXK022	25c	13.4	285	3.7	36.1
MXK023	2c	6.1	50	11.5	23.5
MXK024	3c	6.4	62	9.7	23.5
MXK025	4c	7.0	77	8.7	23.5
MXK026	5c	7.7	92	8.1	23.5
MXK027	6c	8.4	109	7.7	23.5
MXK028	8c	9.8	147	7.1	23.5
MXK029	10c	10.6	174	6.6	23.5
MXK030	12c	10.9	197	6.1	23.5
MXK031	16c	12.3	254	5.5	23.5
MXK032	20c	13.9	323	5.2	23.5
MXK033	25c	15.3	394	4.8	23.5

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30℃) Carrying capacity	导体电阻 Ω/km(20℃) Conductor resistance
MXK034	2c	6.7	61	13.7	18.0
MXK035	3c	7.1	77	11.5	18.0
MXK036	4c	7.9	99	10.4	18.0
MXK037	5c	8.5	115	9.7	18.0
MXK038	6c	9.4	140	9.2	18.0
MXK039	8c	10.9	185	8.5	18.0
MXK040	10c	12.0	223	7.9	18.0
MXK041	12c	12.3	254	7.3	18.0
MXK042	16c	14.0	332	6.6	18.0
MXK043	20c	15.4	408	6.2	18.0
MXK044	25c	17.3	505	5.7	18.0
MXK045	2c	7.7	83	17.3	12.6
MXK046	3c	8.1	104	14.5	12.6
MXK047	4c	8.8	130	13.1	12.6
MXK048	5c	9.8	156	12.2	12.6
MXK049	6c	10.7	185	11.5	12.6
MXK050	8c	12.5	251	10.7	12.6
MXK051	10c	14.0	309	9.9	12.6
MXK052	12c	14.4	352	9.2	12.6
MXK053	16c	16.1	452	8.3	12.6
MXK054	20c	17.8	557	7.7	12.6
MXK055	25c	19.7	682	7.2	12.6
MXK056	2c	9.0	118	23.7	7.6
MXK057	3c	9.7	155	20.0	7.6
MXK058	4c	10.6	195	18.0	7.6
MXK059	5c	11.7	234	16.8	7.6
MXK060	6c	12.7	278	15.8	7.6
MXK061	8c	15.2	384	14.6	7.6
MXK062	10c	16.7	463	13.6	7.6
MXK063	12c	17.2	530	12.6	7.6
MXK064	16c	19.1	675	11.4	7.6
MXK065	20c	21.1	835	10.6	7.6
MXK066	25c	23.5	1026	9.9	7.6

1.以上表格只列出一部分产品，需要更多规格请联系我们。(C=芯数 P=对绞)

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-MXK2 | TPE绝缘·TPU护套超长、超高速控制电缆

TPL-MXK2 | TPE insulated, TPU sheathed ultra long, ultra high speed control cable



overlength hypervelocity motion oilproof abrasion resistant powercord shield RoHS

控制电缆
control cable



Long towing distance	耐长拖链距离	★★★★★
Plasticity	柔软性	★★
Weather ability	耐候性	★★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★★★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 绝缘采用弹性XLPE材料，抗拉
- 环保TPU护套，抗拉、耐油、耐磨、耐气候、抗水解和微生物
- 适合于高速、长拖链运动场合的电缆布线场合
- 带屏蔽，抗干扰性能优越（-SB使用）
- Rohs环保对应

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- 绝缘采用弹性XLPE材料，抗拉
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 镀锡铜编织屏蔽，屏蔽率≥85%（-SB使用）
- 环保TPU阻燃护套

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标
- UL文件No.：-
- 额定电压：300/500V
- 耐燃性：VW-1

◆ 移动参数

- 使用温度范围：-40~+80
- 拖链次数（万次）：5000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：10
- 最大加速度：80

◆ key property

- The insulation is made of elastic XLPE material and tensile.
- Environmentally friendly TPU sheath, tensile, oil resistant, wear-resistant, weather resistant, hydrolysis resistant, and microbial resistant.
- Suitable for wire routing in high-speed and long drag chain sports situations.
- With shielding, excellent anti-interference performance (-SB use).
- Rohs environmental protection correspondence.

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- The insulation is made of elastic XLPE material and tensile.
- The core wires are twisted together at an optimized short pitch.
- Nonwoven fabric wrapping.
- Tinned copper braided shield, shielding rate ≥ 85% (for-SB use).
- Environment-friendly TPU flame-retardant sheath.

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard
- UL file No.:-
- Rated voltage: 300/500V
- Flame resistance: VW-1

◆ Moving parameter

- Operating temperature range: -40~+80
- Number of drag chains (one million time): 5000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 10
- Maximum acceleration: 80

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
MXK067	2c	5.3	43	7.1	54.1
MXK068	3c	5.5	49	6.0	54.1
MXK069	4c	6.0	59	5.4	54.1
MXK070	5c	6.4	67	5.0	54.1
MXK071	6c	6.9	77	4.7	54.1
MXK072	8c	8.0	101	4.3	54.1
MXK073	10c	8.6	117	4.0	54.1
MXK074	12c	8.8	129	3.7	54.1
MXK075	16c	9.8	163	3.4	54.1
MXK076	20c	10.7	196	3.1	54.1
MXK077	25c	12.0	239	2.9	54.1
MXK078	2c	6.0	55	9.2	36.1
MXK079	3c	6.3	65	7.7	36.1
MXK080	4c	6.7	77	6.9	36.1
MXK081	5c	7.2	88	6.4	36.1
MXK082	6c	8.0	105	6.1	36.1
MXK083	8c	9.3	138	5.6	36.1
MXK084	10c	10.0	160	5.2	36.1
MXK085	12c	10.3	177	4.8	36.1
MXK086	16c	11.4	223	4.3	36.1
MXK087	20c	12.5	269	4.0	36.1
MXK088	25c	14.2	336	3.8	36.1
MXK089	2c	6.5	67	11.8	23.5
MXK090	3c	6.8	80	9.9	23.5
MXK091	4c	7.6	99	9.0	23.5
MXK092	5c	8.1	113	8.3	23.5
MXK093	6c	8.8	132	7.8	23.5
MXK094	8c	10.2	175	7.2	23.5
MXK095	10c	11.0	204	6.7	23.5
MXK096	12c	11.5	233	6.2	23.5
MXK097	16c	12.7	289	5.6	23.5
MXK098	20c	14.3	363	5.2	23.5
MXK099	25c	15.7	439	4.9	23.5

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
MXK100	2c	7.1	80	14.0	18.0
MXK101	3c	7.7	99	11.8	18.0
MXK102	4c	8.3	120	10.6	18.0
MXK103	5c	8.9	139	9.8	18.0
MXK104	6c	9.8	167	9.3	18.0
MXK105	8c	11.5	221	8.6	18.0
MXK106	10c	12.4	258	8.0	18.0
MXK107	12c	12.7	289	7.4	18.0
MXK108	16c	14.4	372	6.7	18.0
MXK109	20c	16.0	461	6.2	18.0
MXK110	25c	17.7	556	5.8	18.0
MXK111	2c	8.1	104	17.6	12.6
MXK112	3c	8.5	127	14.8	12.6
MXK113	4c	9.4	159	13.4	12.6
MXK114	5c	10.2	184	12.4	12.6
MXK115	6c	11.1	216	11.7	12.6
MXK116	8c	12.9	287	10.8	12.6
MXK117	10c	14.4	350	10.0	12.6
MXK118	12c	14.8	393	9.3	12.6
MXK119	16c	16.5	500	8.4	12.6
MXK120	20c	18.2	609	7.8	12.6
MXK121	25c	20.1	742	7.3	12.6
MXK122	2c	9.6	147	24.2	7.6
MXK123	3c	10.1	183	20.3	7.6
MXK124	4c	11.0	225	18.3	7.6
MXK125	5c	12.1	268	17.0	7.6
MXK126	6c	13.1	316	16.0	7.6
MXK127	8c	15.6	429	14.8	7.6
MXK128	10c	17.1	512	13.7	7.6
MXK129	12c	17.6	581	12.7	7.6
MXK130	16c	19.5	730	11.5	7.6
MXK131	20c	21.5	900	10.7	7.6
MXK132	25c	23.9	1098	9.9	7.6

1.以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

数据传输电缆



双层密集屏蔽



阻燃耐磨材质



绞线工艺

TPL-GE1 | PVC绝缘·PVC护套固定数据传输电缆

TPL-GE1 | PVC insulated and PVC sheathed fixed data transmission cable



UL fixed wiring signal line RoHS

数据传输电缆



Long towing distance	耐长拖链距离	★
Plasticity	柔软性	★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★
Life test of electric towing chain	电拖链寿命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 采用5·6类绞合导体
- 适合于非运动场合的电线布线场合
- Rohs环保对应

◆ key property

- Obtain UL758 certification in the United States.
- Class 5 and 6 stranded conductors are used.
- Suitable for wire wiring in non-sports situations.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用5·6类多股绞合导体
- PVC阻燃绝缘
- 每两根芯线以短节距对绞，再将所有对绞线以短节距围绕高强度中心线绞合在一起
- 无纺布绕包
- 黑色PVC阻燃护套
- Class 5 and 6 stranded conductors are used.
- PVC flame retardant insulation.
- Every two core wires are twisted in a short pitch, and then all the twisted wires are twisted together around the high-strength center line in a short pitch.
- Nonwoven fabric wrapping.
- Black PVC flame retardant sheath.

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标or UL
- UL文件No.：20276
- 额定电压：30V
- 耐燃性：FT2/VW-1

◆ Specification parameter

- Sheath color: black.
- Acquisition criteria: non-standard or UL
- UL file No.: 20276
- Rated voltage: 30V
- Flame resistance: FT2/VW-1

◆ 移动参数

- 使用温度范围：-15 ~ +80
- 拖链次数（万次）：200
- 拖链最小弯曲半径：-
- 固定敷设最小弯曲半径：4D
- 最大架空速度：0
- 最大加速度：0

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 200
- Minimum bending radius of towing chain: -
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 0
- Maximum acceleration: 0

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
GE001	2c	3.0	12	3.6	132.6
GE002	3c	3.2	15	3.0	132.6
GE003	4c	3.4	19	2.7	132.6
GE004	5c	3.7	21	2.5	132.6
GE005	6c	4.0	25	2.4	132.6
GE006	8c	4.2	31	2.1	132.6
GE007	10c	5.0	38	2.1	132.6
GE008	12c	5.3	45	1.9	132.6
GE009	20c	6.5	71	1.6	132.6
GE010	25c	7.1	85	1.5	132.6
GE011	2c	3.3	16	4.7	84.4
GE012	3c	3.5	19	4.0	84.4
GE013	4c	3.7	23	3.6	84.4
GE014	5c	4.0	27	3.3	84.4
GE015	6c	4.3	32	3.1	84.4

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
GE016	8c	4.7	41	2.8	84.4
GE017	10c	5.7	53	2.7	84.4
GE018	12c	6.0	62	2.5	84.4
GE019	20c	7.2	93	2.1	84.4
GE020	25c	7.3	104	2.0	84.4
GE021	2c	3.4	17	5.2	71.4
GE022	3c	3.6	21	4.4	71.4
GE023	4c	3.9	26	3.9	71.4
GE024	5c	4.2	30	3.7	71.4
GE025	6c	4.6	36	3.5	71.4
GE026	8c	5.1	48	3.2	71.4
GE027	10c	6.1	61	3.0	71.4
GE028	12c	6.2	69	2.8	71.4
GE029	20c	7.5	104	2.4	71.4
GE030	25c	8.1	126	2.2	71.4

1.以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-GE1 | PVC绝缘·PVC护套固定数据传输电缆

TPL-GE1 | PVC insulated and PVC sheathed fixed data transmission cable



数据传输电缆



Long towing distance	耐长拖链距离	★
Plasticity	柔软性	★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★
Life test of electric towing chain	电拖链寿命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 采用5、6类绞合导体
- 适合于非运动场合的电线布线场合
- 带屏蔽，抗干扰性能优越（-SB使用）
- Rohs环保对应

◆ key property

- Obtain UL758 certification in the United States.
- Class 5 and 6 stranded conductors are used.
- Suitable for wire wiring in non-sports situations.
- With shielding, excellent anti-interference performance (-SB use).
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用5、6类多股绞合导体
- PVC阻燃绝缘
- 每两根芯线以短节距对绞，再将所有对绞线以短节距围绕高强度中心线绞合在一起
- 无纺布绕包
- 镀锡铜编织屏蔽，屏蔽率≥85%（-SB使用）
- 黑色PVC阻燃护套
- Class 5 and 6 stranded conductors are used.
- PVC flame retardant insulation.
- Every two core wires are twisted in a short pitch, and then all the twisted wires are twisted together around the high-strength center line in a short pitch.
- Nonwoven fabric wrapping.
- Tinned copper braided shield, shielding rate ≥ 85% (for-SB use).
- Black PVC flame retardant sheath.

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标or UL
- UL文件No.：20276
- 额定电压：30V
- 耐燃性：FT2/VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard or UL
- UL file No.: 20276
- Rated voltage: 30V
- Flame resistance: FT2/VW-1

◆ 移动参数

- 使用温度范围：-15 ~ +80
- 拖链次数（万次）：200
- 拖链最小弯曲半径：-
- 固定敷设最小弯曲半径：4D
- 最大架空速度：0
- 最大加速度：0
- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 200
- Minimum bending radius of towing chain: -
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 0
- Maximum acceleration: 0

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 200
- Minimum bending radius of towing chain: -
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 0
- Maximum acceleration: 0

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
GE031	2C	3.4	20	3.8	132.6
GE032	3C	3.6	24	3.2	132.6
GE033	4C	3.8	28	2.9	132.6
GE034	5C	4.1	31	2.7	132.6
GE035	6C	4.4	36	2.5	132.6
GE036	8C	4.6	42	2.2	132.6
GE037	10C	5.4	52	2.1	132.6
GE038	12C	5.7	60	2.0	132.6
GE039	20C	6.9	89	1.7	132.6
GE040	25C	7.5	105	1.6	132.6
GE041	2C	3.7	25	5.0	84.4
GE042	3C	3.9	29	4.2	84.4
GE043	4C	4.1	34	3.7	84.4
GE044	5C	4.4	38	3.5	84.4
GE045	6C	4.7	44	3.3	84.4
GE046	8C	5.1	54	2.9	84.4
GE047	10C	6.1	68	2.8	84.4
GE048	12C	6.4	79	2.6	84.4
GE049	20C	7.6	114	2.2	84.4
GE050	25C	7.7	125	2.0	84.4
GE051	2C	3.8	27	5.5	71.4
GE052	3C	4.0	31	4.6	71.4
GE053	4C	4.3	37	4.1	71.4
GE054	5C	4.6	42	3.8	71.4
GE055	6C	5.0	49	3.6	71.4
GE056	8C	5.5	62	3.3	71.4
GE057	10C	6.5	78	3.1	71.4
GE058	12C	6.6	86	2.9	71.4
GE059	20C	7.9	126	2.4	71.4
GE060	25C	8.5	149	2.3	71.4

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
GE061	2P	4.7	36	3.1	132.6
GE062	3P	5.0	42	2.6	132.6
GE063	4P	5.4	51	2.4	132.6
GE064	5P	5.9	57	2.2	132.6
GE065	6P	6.4	67	2.1	132.6
GE066	8P	7.1	86	1.9	132.6
GE067	10P	8.1	103	1.8	132.6

◆ Specifications

GE068	12P	0.14	8.4	115	1.7	132.6
GE069	14P	0.14	8.8	128	1.6	132.6
GE070	20P	0.14	10.3	172	1.4	132.6
GE071	2P	0.2	5.1	44	4.1	84.4
GE072	3P	0.2	5.4	51	3.4	84.4
GE073	4P	0.2	5.9	63	3.1	84.4
GE074	5P	0.2	6.4	72	2.9	84.4
GE075	6P	0.2	7.0	84	2.7	84.4
GE076	8P	0.2	7.8	108	2.5	84.4
GE077	10P	0.2	8.9	130	2.3	84.4
GE078	12P	0.2	9.2	146	2.2	84.4
GE079	14P	0.2	9.7	163	2.1	84.4
GE080	20P	0.2	11.4	223	1.8	84.4
GE081	2P	0.25	5.4	49	4.5	71.4
GE082	3P	0.25	5.7	57	3.8	71.4
GE083	4P	0.25	6.1	68	3.4	71.4
GE084	5P	0.25	6.7	78	3.2	71.4
GE085	6P	0.25	7.3	92	3.0	71.4
GE086	8P	0.25	8.0	117	2.7	71.4
GE087	10P	0.25	9.2	143	2.6	71.4
GE088	12P	0.25	9.6	161	2.4	71.4
GE089	14P	0.25	10.1	180	2.3	71.4
GE090	20P	0.25	11.8	246	2.0	71.4
GE091	2P	0.3	5.7	55	5.3	54.6
GE092	3P	0.3	6.0	66	4.5	54.6
GE093	4P	0.3	6.5	79	4.0	54.6
GE094	5P	0.3	7.1	91	3.7	54.6
GE095	6P	0.3	7.8	108	3.6	54.6
GE096	8P	0.3	8.6	139	3.2	54.6
GE097	10P	0.3	10.0	170	3.1	54.6
GE098	12P	0.3	10.5	195	2.8	54.6
GE099	14P	0.3	11.0	218	2.7	54.6
GE100	20P	0.3	12.9	298	2.4	54.6
GE101	2P	0.5	6.3	69	6.9	35.7
GE102	3P	0.5	6.7	84	5.8	35.7
GE103	4P	0.5	7.3	104	5.2	35.7
GE104	5P	0.5	8.0	120	4.9	35.7
GE105	6P	0.5	8.9	147	4.6	35.7
GE106	8P	0.5	9.6	182	4.2	35.7
GE107	10P	0.5	11.4	229	4.0	35.7
GE108	12P	0.5	11.9	262	3.7	35.7
GE109	14P	0.5	12.5	296	3.5	35.7
GE110	20P	0.5	14.6	404	3.1	35.7

1.以上表格只列出一部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (C = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-YE1 | PVC绝缘·PVC耐油护套固定数据传输电缆

TPL-YE1 | PVC insulated, PVC oil-resistant sheath fixed data transmission cable



UL fixed wiring oil proof signal line RoHS



Long towing distance	耐长拖链距离	★
Plasticity	柔软性	★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★
Life test of electric towing chain	电拖链寿命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 采用5、6类绞合导体
- 适合于非运动场合的电缆布线场合
- 适合机床等油污腐蚀严重的环境
- RoHS环保对应

◆ key property

- Obtained the US UL758 certification.
- Class 5 and 6 stranded conductors are used.
- Suitable for wire wiring in non-sports situations.
- Suitable for machine tools and other environments with serious oil pollution and corrosion.
- RoHS environmental protection correspondence.

◆ 电缆结构

- 采用5、6类多股绞合导体
- PVC阻燃绝缘
- 每两根芯线以短节距绞合，再将所有对绞线以短节距围绕高强度中心线绞合在一起
- 无纺布绕包
- 耐油PVC阻燃护套

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- PVC flame retardant insulation.
- Every two core wires are twisted in a short pitch, and then all the twisted wires are twisted together around the high-strength center line in a short pitch.
- Nonwoven fabric wrapping.
- Oil-resistant PVC flame retardant sheath.

◆ 规格参数

- 护套颜色：黑、灰、橙、绿
- 获得标准：非标或UL
- UL文件No.：20276
- 额定电压：30V
- 耐燃性：FT2/VW-1

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard or UL
- UL file No.: 20276
- Rated voltage: 30V
- Flame resistance: FT2/VW-1

◆ 移动参数

- 使用温度范围：-15 ~ +80
- 拖链次数（万次）：200
- 拖链最小弯曲半径：-
- 固定敷设最小弯曲半径：4D
- 最大架空速度：0
- 最大加速度：0

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 200
- Minimum bending radius of towing chain: -
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 0
- Maximum acceleration: 0

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
YE001	2c	3.0	12	3.6	132.6
YE002	3c	3.2	15	3.0	132.6
YE003	4c	3.4	19	2.7	132.6
YE004	5c	3.7	21	2.5	132.6
YE005	6c	4.0	25	2.4	132.6
YE006	8c	4.2	31	2.1	132.6
YE007	10c	5.0	38	2.1	132.6
YE008	12c	5.3	45	1.9	132.6
YE009	20c	6.5	71	1.6	132.6
YE010	25c	7.1	85	1.5	132.6
YE011	2c	3.3	16	4.7	84.4
YE012	3c	3.5	19	4.0	84.4
YE013	4c	3.7	23	3.6	84.4
YE014	5c	4.0	27	3.3	84.4
YE015	6c	4.3	32	3.1	84.4

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
YE016	8c	4.7	41	2.8	84.4
YE017	10c	5.7	53	2.7	84.4
YE018	12c	6.0	62	2.5	84.4
YE019	20c	7.2	93	2.1	84.4
YE020	25c	7.3	104	2.0	84.4
YE021	2c	3.4	17	5.2	71.4
YE022	3c	3.6	21	4.4	71.4
YE023	4c	3.9	26	3.9	71.4
YE024	5c	4.2	30	3.7	71.4
YE025	6c	4.6	36	3.5	71.4
YE026	8c	5.1	48	3.2	71.4
YE027	10c	6.1	61	3.0	71.4
YE028	12c	6.2	69	2.8	71.4
YE029	20c	7.5	104	2.4	71.4
YE030	25c	8.1	126	2.2	71.4

1.以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-YE1 | PVC绝缘·PVC耐油护套固定数据传输电缆

TPL-YE1 | PVC insulated, PVC oil-resistant sheath fixed data transmission cable



UL fixed wiring oil proof signal line shield RoHS

数据传输电缆



Long towing distance	耐长拖链距离	★
Plasticity	柔软性	★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★
Life test of electric towing chain	电拖链寿命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 采用5、6类绞合导体
- 适合于非运动场合的电缆布线场合
- 适合机床等油污腐蚀严重的环境
- 带屏蔽、抗干扰性能优越 (-SB使用)
- Rohs环保对应

◆ 电缆结构

- 采用5、6类多股绞合导体
- PVC阻燃绝缘
- 每两根芯线以短节距绞合，再将所有对绞线以短节距围绕高强度中心线绞合在一起
- 无纺布绕包
- 镀锡铜编织屏蔽，屏蔽率≥85% (-SB使用)
- 耐油PVC阻燃护套

◆ 规格参数

- 护套颜色：黑、灰、橙、绿
- 获得标准：非标或 UL
- UL文件No.：20276
- 额定电压：30V
- 耐燃性：FT2/VW-1

◆ 移动参数

- 使用温度范围：-15 ~ +80
- 拖链次数（万次）：200
- 拖链最小弯曲半径：-
- 固定敷设最小弯曲半径：4D
- 最大架空速度：0
- 最大加速度：0

◆ key property

- Obtained the US UL758 certification.
- Class 5 and 6 stranded conductors are used.
- Suitable for wire wiring in non-sports situations.
- Suitable for machine tools and other environments with serious oil pollution and corrosion.
- With shielding, excellent anti-interference performance (-SB use).
- Rohs environmental protection correspondence.

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- PVC flame retardant insulation.
- Every two core wires are twisted in a short pitch, and then all the twisted wires are twisted together around the high-strength center line in a short pitch.
- Nonwoven fabric wrapping.
- Tinned copper braided shield, shielding rate ≥ 85% (for -SB use).
- Oil-resistant PVC flame retardant sheath.

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard or UL
- UL file No.: 20276
- Rated voltage: 30V
- Flame resistance: FT2/VW-1

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 200
- Minimum bending radius of towing chain: -
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 0
- Maximum acceleration: 0

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
YE031	2C	3.4	20	3.8	132.6
YE032	3C	3.6	24	3.2	132.6
YE033	4C	3.8	28	2.9	132.6
YE034	5C	4.1	31	2.7	132.6
YE035	6C	4.4	36	2.5	132.6
YE036	8C	4.6	42	2.2	132.6
YE037	10C	5.4	52	2.1	132.6
YE038	12C	5.7	60	2.0	132.6
YE039	20C	6.9	89	1.7	132.6
YE040	25C	7.5	105	1.6	132.6
YE041	2C	3.7	25	5.0	84.4
YE042	3C	3.9	29	4.2	84.4
YE043	4C	4.1	34	3.7	84.4
YE044	5C	4.4	38	3.5	84.4
YE045	6C	4.7	44	3.3	84.4
YE046	8C	5.1	54	2.9	84.4
YE047	10C	6.1	68	2.8	84.4
YE048	12C	6.4	79	2.6	84.4
YE049	20C	7.6	114	2.2	84.4
YE050	25C	7.7	125	2.0	84.4
YE051	2C	3.8	27	5.5	71.4
YE052	3C	4.0	31	4.6	71.4
YE053	4C	4.3	37	4.1	71.4
YE054	5C	4.6	42	3.8	71.4
YE055	6C	5.0	49	3.6	71.4
YE056	8C	5.5	62	3.3	71.4
YE057	10C	6.5	78	3.1	71.4
YE058	12C	6.6	86	2.9	71.4
YE059	20C	7.9	126	2.4	71.4
YE060	25C	8.5	149	2.3	71.4

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
YE061	2P	4.7	36	3.1	132.6
YE062	3P	5.0	42	2.6	132.6
YE063	4P	5.4	51	2.4	132.6
YE064	5P	5.9	57	2.2	132.6
YE065	6P	6.4	67	2.1	132.6
YE066	8P	7.1	86	1.9	132.6
YE067	10P	8.1	103	1.8	132.6

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
YE068	12P	8.4	115	1.7	132.6
YE069	14P	8.8	128	1.6	132.6
YE070	20P	10.3	172	1.4	132.6
YE071	2P	5.1	44	4.1	84.4
YE072	3P	5.4	51	3.4	84.4
YE073	4P	5.9	63	3.1	84.4
YE074	5P	6.4	72	2.9	84.4
YE075	6P	7.0	84	2.7	84.4
YE076	8P	7.8	108	2.5	84.4
YE077	10P	8.9	130	2.3	84.4
YE078	12P	9.2	146	2.2	84.4
YE079	14P	9.7	163	2.1	84.4
YE080	20P	11.4	223	1.8	84.4
YE081	2P	5.4	49	4.5	71.4
YE082	3P	5.7	57	3.8	71.4
YE083	4P	6.1	68	3.4	71.4
YE084	5P	6.7	78	3.2	71.4
YE085	6P	7.3	92	3.0	71.4
YE086	8P	8.0	117	2.7	71.4
YE087	10P	9.2	143	2.6	71.4
YE088	12P	9.6	161	2.4	71.4
YE089	14P	10.1	180	2.3	71.4
YE090	20P	11.8	246	2.0	71.4
YE091	2P	5.7	55	5.3	54.6
YE092	3P	6.0	66	4.5	54.6
YE093	4P	6.5	79	4.0	54.6
YE094	5P	7.1	91	3.7	54.6
YE095	6P	7.8	108	3.6	54.6
YE096	8P	8.6	139	3.2	54.6
YE097	10P	10.0	170	3.1	54.6
YE098	12P	10.5	195	2.8	54.6
YE099	14P	11.0	218	2.7	54.6
YE100	20P	12.9	298	2.4	54.6
YE101	2P	6.3	69	6.9	35.7
YE102	3P	6.7	84	5.8	35.7
YE103	4P	7.3	104	5.2	35.7
YE104	5P	8.0	120	4.9	35.7
YE105	6P	8.9	147	4.6	35.7
YE106	8P	9.6	182	4.2	35.7
YE107	10P	11.4	229	4.0	35.7
YE108	12P	11.9	262	3.7	35.7
YE109	14P	12.5	296	3.5	35.7
YE110	20P	14.6	404	3.1	35.7

1.以上表格只列出一部分产品，需要更多规格请联系我们。(C=芯数 P=对绞)

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-RE1 | PVC绝缘·PVC护套弱移动数据传输电缆

TPL-RE1 | PVC insulated, PVC sheathed weak mobile data transmission cable



UL medium-low signal line RoHS speed/motion



Long towing distance	耐长拖链距离	★
Plasticity	柔软性	★★★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★★
Life test of electric towing chain	电拖链寿命测试	★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 绝缘护套采用超柔软PVC材料
- 适合于中低速运动场合的电线布线场合
- Rohs环保对应

◆ key property

- Obtained the US UL758 certification.
- The insulating sheath is made of ultra-soft PVC material.
- Suitable for low-speed sports occasions of wiring occasions.
- Rohs environmental protection correspondence

◆ 电缆结构

- 采用6类多股绞合导体，柔软性好
- 柔软PVC阻燃绝缘
- 每两根芯线以短节距对绞，再将所有对绞线以短节距围绕高强度中心线绞合在一起
- 无纺布绕包
- 柔软PVC阻燃护套
- Class 5 and 6 stranded conductors are used.
- Soft PVC flame retardant insulation.
- Every two core wires are twisted in a short pitch, and then all the twisted wires are twisted together around the high-strength center line in a short pitch.
- Nonwoven fabric wrapping.
- Soft PVC flame retardant sheath.

◆ 规格参数

- 护套颜色：黑，灰，橙，绿
- 获得标准：非标或UL
- UL文件No.：20276
- 额定电压：30V
- 耐燃性：FT2/VW-1

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard or UL
- UL file No.: 20276
- Rated voltage: 30V
- Flame resistance: FT2/VW-1

◆ 移动参数

- 使用温度范围：-15 ~ +80
- 拖链次数（万次）：500
- 拖链最小弯曲半径：10D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：2
- 最大加速度：20

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 500
- Minimum bending radius of towing chain: 10D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 2
- Maximum acceleration: 20

◆ 规格

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30℃) Carrying capacity	导体电阻 Ω/km(20℃) Conductor resistance
RE001	2c	3.0	13	3.7	126.9
RE002	3c	3.2	16	3.1	126.9
RE003	4c	3.5	19	2.8	126.9
RE004	5c	3.7	22	2.6	126.9
RE005	6c	4.0	25	2.5	126.9
RE006	8c	4.6	33	2.3	126.9
RE007	10c	5.0	39	2.1	126.9
RE008	12c	5.3	47	2.0	126.9
RE009	20c	6.6	73	1.7	126.9
RE010	25c	7.2	88	1.6	126.9
RE011	2c	3.3	16	4.7	86.8
RE012	3c	3.5	19	3.9	86.8
RE013	4c	3.7	23	3.5	86.8
RE014	5c	4.0	27	3.3	86.8
RE015	6c	4.3	31	3.1	86.8

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30℃) Carrying capacity	导体电阻 Ω/km(20℃) Conductor resistance
RE016	8c	5.0	42	2.9	86.8
RE017	10c	5.6	52	2.7	86.8
RE018	12c	6.0	61	2.5	86.8
RE019	20c	7.1	92	2.1	86.8
RE020	25c	7.3	102	1.9	86.8
RE021	2c	3.4	17	5.1	75.0
RE022	3c	3.6	21	4.3	75.0
RE023	4c	3.8	25	3.8	75.0
RE024	5c	4.1	29	3.6	75.0
RE025	6c	4.6	35	3.4	75.0
RE026	8c	5.4	48	3.2	75.0
RE027	10c	6.0	59	2.9	75.0
RE028	12c	6.2	67	2.7	75.0
RE029	20c	7.4	101	2.3	75.0
RE030	25c	8.1	122	2.2	75.0

1. 以上表格只列出部分产品，需要更多规格请联系我们。(C=芯数 P=对绞)

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2. 以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-RE1 | PVC绝缘·PVC护套弱移动数据传输电缆

TPL-RE1 | PVC insulated, PVC sheathed weak mobile data transmission cable



UL medium-low speed motion signal line shield RoHS



Long towing distance	耐长拖链距离	★
Plasticity	柔软性	★★★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★★
Life test of electric towing chain	电拖链寿命测试	★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 绝缘护套采用超柔软的PVC材料
- 适合于中低速运动场合的电线布线场合
- 带屏蔽，抗干扰性能优越（-SB使用）
- Rohs环保对应

◆ 电缆结构

- 采用6类多股绞合导体，柔韧性好
- 柔软PVC阻燃绝缘
- 每两根芯线以短节距对绞，再将所有对绞线以短节距围绕高强度中心线绞合在一起
- 无纺布绕包
- 镀锡铜编织屏蔽，屏蔽率≥85%（-SB使用）
- 柔软PVC阻燃护套

◆ 规格参数

- 护套颜色：黑、灰、橙、绿
- 获得标准：非标或UL
- UL文件No.：20276
- 额定电压：30V
- 耐燃性：FT2/VW-1

◆ 移动参数

- 使用温度范围：-15 ~ +80
- 拖链次数（万次）：500
- 拖链最小弯曲半径：10D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：2
- 最大加速度：20

◆ key property

- Obtained the US UL758 certification.
- The insulating sheath is made of ultra-soft PVC material.
- Suitable for low-speed sports occasions of wiring occasions.
- With shielding, excellent anti-interference performance (-SB use).
- Rohs environmental protection correspondence

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- Soft PVC flame retardant insulation.
- Every two core wires are twisted in a short pitch, and then all the twisted wires are twisted together around the high-strength center line in a short pitch.
- Nonwoven fabric wrapping.
- Tinned copper braided shield, shielding rate ≥ 85% (for-SB use).
- Soft PVC flame retardant sheath.

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard or UL
- UL file No.: 20276
- Rated voltage: 30V
- Flame resistance: FT2/VW-1

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 500
- Minimum bending radius of towing chain: 10D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 2
- Maximum acceleration: 20

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30℃) Carrying capacity	导体电阻 Ω/km(20℃) Conductor resistance
RE031	2C	3.4	21	3.9	126.9
RE032	3C	3.6	24	3.3	126.9
RE033	4C	3.9	28	2.9	126.9
RE034	5C	4.1	32	2.7	126.9
RE035	6C	4.4	36	2.6	126.9
RE036	8C	5.0	46	2.3	126.9
RE037	10C	5.4	54	2.2	126.9
RE038	12C	5.7	61	2.0	126.9
RE039	20C	7.0	92	1.7	126.9
RE040	25C	7.6	109	1.6	126.9
RE041	2C	3.7	25	4.9	86.8
RE042	3C	3.9	29	4.1	86.8
RE043	4C	4.1	34	3.7	86.8
RE044	5C	4.4	38	3.4	86.8
RE045	6C	4.7	44	3.2	86.8
RE046	8C	5.4	56	3.0	86.8
RE047	10C	6.0	68	2.8	86.8
RE048	12C	6.4	78	2.6	86.8
RE049	20C	7.5	112	2.2	86.8
RE050	25C	7.7	125	2.0	86.8
RE051	2C	3.8	26	5.3	75.0
RE052	3C	4.0	30	4.5	75.0
RE053	4C	4.2	36	4.0	75.0
RE054	5C	4.5	41	3.7	75.0
RE055	6C	5.0	48	3.5	75.0
RE056	8C	5.8	64	3.3	75.0
RE057	10C	6.4	76	3.0	75.0
RE058	12C	6.6	84	2.8	75.0
RE059	20C	7.8	122	2.4	75.0
RE060	25C	8.5	146	2.2	75.0

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30℃) Carrying capacity	导体电阻 Ω/km(20℃) Conductor resistance
RE061	2P	4.8	37	3.2	126.9
RE062	3P	5.0	43	2.7	126.9
RE063	4P	5.5	52	2.4	126.9
RE064	5P	5.9	59	2.3	126.9
RE065	6P	6.5	69	2.1	126.9
RE066	8P	7.6	93	2.0	126.9
RE067	10P	8.1	105	1.8	126.9

◆ Specifications

RE068	12P		8.5	118	1.7	126.9
RE069	14P	0.14	8.9	131	1.6	126.9
RE070	20P		10.4	177	1.4	126.9
RE071	2P		5.1	43	4.0	86.8
RE072	3P		5.4	51	3.4	86.8
RE073	4P		5.9	62	3.1	86.8
RE074	5P		6.4	71	2.8	86.8
RE075	6P	0.2	7.0	83	2.7	86.8
RE076	8P		8.3	112	2.5	86.8
RE077	10P		8.8	128	2.3	86.8
RE078	12P		9.2	144	2.1	86.8
RE079	14P		9.6	161	2.0	86.8
RE080	20P		11.3	219	1.8	86.8
RE081	2P		5.4	48	4.4	75.0
RE082	3P		5.6	56	3.7	75.0
RE083	4P		6.1	67	3.3	75.0
RE084	5P		6.6	76	3.1	75.0
RE085	6P	0.25	7.2	90	2.9	75.0
RE086	8P		8.5	120	2.7	75.0
RE087	10P		9.1	139	2.5	75.0
RE088	12P		9.5	157	2.3	75.0
RE089	14P		9.9	175	2.2	75.0
RE090	20P		11.7	239	2.0	75.0
RE091	2P		5.7	54	5.2	56.9
RE092	3P		6.0	64	4.4	56.9
RE093	4P		6.5	77	3.9	56.9
RE094	5P		7.0	89	3.7	56.9
RE095	6P	0.3	7.7	105	3.5	56.9
RE096	8P		9.1	143	3.2	56.9
RE097	10P		9.9	166	3.0	56.9
RE098	12P		10.4	190	2.8	56.9
RE099	14P		10.8	213	2.6	56.9
RE100	20P		12.7	291	2.3	56.9
RE101	2P		6.6	73	6.9	36.7
RE102	3P		7.0	89	5.8	36.7
RE103	4P		7.7	109	5.3	36.7
RE104	5P		8.4	126	4.9	36.7
RE105	6P	0.5	9.4	155	4.6	36.7
RE106	8P		10.8	202	4.3	36.7
RE107	10P		11.9	241	4.0	36.7
RE108	12P		12.5	276	3.7	36.7
RE109	14P		13.1	311	3.5	36.7
RE110	20P		15.4	427	3.1	36.7

1.以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (C = core number P = Pair of twisted)

2.以上数字仅供参考，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-TE1 | PVC绝缘·PVC护套中高速数据传输电缆

TPL-TE1 | PVC insulated, PVC sheathed high speed data transmission cable



UL: medium-high signal line, speed motion RoHS



Long towing distance	耐长拖链距离	★★
Plasticity	柔软性	★★★★
Weather ability	耐候性	★★★
Oil resistivity	耐油性	★★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 适合小弯曲半径布线
- 中高速首选
- 阻燃性能优
- Rohs环保对应

◆ key property

- Obtained the US UL758 certification.
- Suitable for wiring with small bending radius.
- First choice for medium and high speed.
- Excellent flame retardant performance.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- 耐热柔软PVC阻燃绝缘
- 每两根芯线以短节距对绞，再将所有对绞线以短节距围绕高强度中心线绞合在一起
- 无纺布绕包
- 耐热柔软PVC阻燃护套

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- Heat-resistant soft PVC flame-retardant insulation.
- Every two core wires are twisted in a short pitch, and then all the twisted wires are twisted together around the high-strength center line in a short pitch.
- Nonwoven fabric wrapping.
- Heat-resistant soft PVC flame retardant sheath.

◆ 规格参数

- 护套颜色：黑、灰、橙、绿
- 获得标准：非标or UL
- UL文件No.：20276
- 额定电压：30V
- 阻燃性：VW-1

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard or UL
- UL file No.: 20276
- Rated voltage: 30V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-20 ~ +105
- 拖链次数（万次）：1000
- 拖链最小弯曲半径：8D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：20

◆ Moving parameter

- Operating temperature range: -20 ~ +105
- Number of drag chains (one million time): 1000
- Minimum bending radius of towing chain: 8D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 20

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30℃) Carrying capacity	导体电阻 Ω/km(20℃) Conductor resistance
TE001	2c	3.0	13	3.7	126.3
TE002	3c	3.3	16	3.1	126.3
TE003	4c	3.5	19	2.8	126.3
TE004	5c	3.7	22	2.6	126.3
TE005	6c	4.0	26	2.5	126.3
TE006	8c	4.6	33	2.3	126.3
TE007	10c	5.0	40	2.1	126.3
TE008	12c	5.4	47	2.0	126.3
TE009	20c	6.6	74	1.7	126.3
TE010	25c	7.2	89	1.6	126.3
TE011	2c	3.3	15	4.5	92.4
TE012	3c	3.4	19	3.8	92.4
TE013	4c	3.7	23	3.4	92.4
TE014	5c	4.0	26	3.1	92.4
TE015	6c	4.3	31	3.0	92.4

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30℃) Carrying capacity	导体电阻 Ω/km(20℃) Conductor resistance
TE016	8c	5.0	41	2.8	92.4
TE017	10c	5.6	50	2.6	92.4
TE018	12c	5.9	59	2.4	92.4
TE019	20c	7.1	89	2.0	92.4
TE020	25c	7.2	99	1.9	92.4
TE021	2c	3.4	17	5.1	75.8
TE022	3c	3.6	21	4.2	75.8
TE023	4c	3.8	25	3.8	75.8
TE024	5c	4.1	29	3.5	75.8
TE025	6c	4.6	35	3.4	75.8
TE026	8c	5.4	49	3.1	75.8
TE027	10c	6.0	60	2.9	75.8
TE028	12c	6.2	67	2.7	75.8
TE029	20c	7.4	102	2.3	75.8
TE030	25c	8.1	123	2.1	75.8

1.以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对数）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-TE1 | PVC绝缘·PVC护套中高速数据传输电缆

TPL-TE1 | PVC insulated, PVC sheathed high speed data transmission cable



UL medium-high signal line shield RoHS



Long towing distance	耐长拖链距离	★★
Plasticity	柔软性	★★★★
Weather ability	耐候性	★★★
Oil resistivity	耐油性	★★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 适合小弯曲半径布线
- 中高速首选
- 阻燃性能优
- 带屏蔽，抗干扰性能优越（-SB使用）
- Rohs环保对应

◆ key property

- Obtained the US UL758 certification.
- Suitable for wiring with small bending radius.
- First choice for medium and high speed.
- Excellent flame retardant performance.
- With shielding, excellent anti-interference performance (-SB use).
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- 耐热柔软PVC阻燃绝缘
- 每两根芯线以短节距绞合，再将所有对绞线以短节距围绕高强度中心线绞合在一起
- 无纺布绕包
- 镀锡铜编织屏蔽，屏蔽率≥85%（-SB使用）
- 耐热柔软PVC阻燃护套
- Class 5 and 6 stranded conductors are used.
- Heat-resistant soft PVC flame-retardant insulation.
- Every two core wires are twisted in a short pitch, and then all the twisted wires are twisted together around the high-strength center line in a short pitch.
- Nonwoven fabric wrapping.
- Tinned copper braided shield, shielding rate ≥ 85% (for -SB use).
- Heat-resistant soft PVC flame retardant sheath.

◆ 规格参数

- 护套颜色：黑、灰、橙、绿
- 获得标准：非标或UL
- UL文件No.：20276
- 额定电压：30V
- 阻燃性：VW-1

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard or UL
- UL file No.: 20276
- Rated voltage: 30V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-20 ~ +105
- 拖链次数（万次）：1000
- 拖链最小弯曲半径：8D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：20

◆ Moving parameter

- Operating temperature range: -20 ~ +105
- Number of drag chains (one million time): 1000
- Minimum bending radius of towing chain: 8D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 20

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30℃) Carrying capacity	导体电阻 Ω/km(20℃) Conductor resistance
TE031	2C	3.4	21	3.9	126.3
TE032	3C	3.7	25	3.3	126.3
TE033	4C	3.9	29	3.0	126.3
TE034	5C	4.1	32	2.7	126.3
TE035	6C	4.4	37	2.6	126.3
TE036	8C	5.0	46	2.4	126.3
TE037	10C	5.4	54	2.2	126.3
TE038	12C	5.8	62	2.0	126.3
TE039	20C	7.0	93	1.7	126.3
TE040	25C	7.6	110	1.6	126.3
TE041	2C	3.7	25	4.7	92.4
TE042	3C	3.8	28	4.0	92.4
TE043	4C	4.1	33	3.5	92.4
TE044	5C	4.4	37	3.3	92.4
TE045	6C	4.7	43	3.1	92.4
TE046	8C	5.4	55	2.9	92.4
TE047	10C	6.0	66	2.7	92.4
TE048	12C	6.3	76	2.5	92.4
TE049	20C	7.5	110	2.1	92.4
TE050	25C	7.6	122	1.9	92.4
TE051	2C	3.8	27	5.3	75.8
TE052	3C	4.0	31	4.4	75.8
TE053	4C	4.2	36	4.0	75.8
TE054	5C	4.5	41	3.7	75.8
TE055	6C	5.0	49	3.5	75.8
TE056	8C	5.8	64	3.2	75.8
TE057	10C	6.4	77	3.0	75.8
TE058	12C	6.6	85	2.8	75.8
TE059	20C	7.8	123	2.3	75.8
TE060	25C	8.5	147	2.2	75.8

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30℃) Carrying capacity	导体电阻 Ω/km(20℃) Conductor resistance
TE061	2P	4.8	37	3.2	126.3
TE062	3P	5.0	43	2.7	126.3
TE063	4P	5.5	52	2.4	126.3
TE064	5P	5.9	59	2.3	126.3
TE065	6P	6.5	70	2.2	126.3
TE066	8P	7.7	94	2.0	126.3
TE067	10P	8.2	107	1.8	126.3

◆ Specifications

TE068	12P		8.5	119	1.7	126.3
TE069	14P	0.14	8.9	132	1.6	126.3
TE070	20P		10.4	179	1.5	126.3
TE071	2P		5.1	43	3.9	92.4
TE072	3P		5.3	50	3.3	92.4
TE073	4P		5.8	61	2.9	92.4
TE074	5P		6.3	69	2.7	92.4
TE075	6P	0.2	6.9	82	2.6	92.4
TE076	8P		8.2	110	2.4	92.4
TE077	10P		8.7	125	2.2	92.4
TE078	12P		9.1	141	2.1	92.4
TE079	14P		9.5	157	2.0	92.4
TE080	20P		11.2	214	1.7	92.4
TE081	2P		5.4	48	4.4	75.8
TE082	3P		5.6	56	3.7	75.8
TE083	4P		6.1	67	3.3	75.8
TE084	5P		6.6	77	3.1	75.8
TE085	6P	0.25	7.2	91	2.9	75.8
TE086	8P		8.5	121	2.7	75.8
TE087	10P		9.2	140	2.5	75.8
TE088	12P		9.5	158	2.3	75.8
TE089	14P		10.0	176	2.2	75.8
TE090	20P		11.7	240	2.0	75.8
TE091	2P		5.6	52	4.9	63.2
TE092	3P		5.9	62	4.1	63.2
TE093	4P		6.3	74	3.7	63.2
TE094	5P		6.9	85	3.4	63.2
TE095	6P	0.3	7.5	100	3.3	63.2
TE096	8P		9.0	137	3.0	63.2
TE097	10P		9.7	158	2.8	63.2
TE098	12P		10.1	181	2.6	63.2
TE099	14P		10.6	202	2.5	63.2
TE100	20P		12.5	276	2.2	63.2
TE101	2P		6.7	76	7.1	35.1
TE102	3P		7.1	92	6.0	35.1
TE103	4P		7.8	113	5.4	35.1
TE104	5P		8.5	131	5.0	35.1
TE105	6P	0.5	9.5	161	4.8	35.1
TE106	8P		11.0	210	4.4	35.1
TE107	10P		12.1	251	4.1	35.1
TE108	12P		12.7	288	3.8	35.1
TE109	14P		13.3	324	3.6	35.1
TE110	20P		15.7	445	3.2	35.1

1.以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (C = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-HE1 | PVC绝缘·PVC耐油护套高速数据传输电缆

TPL-HE1 | PVC insulated, PVC oil sheathed high speed data transmission cable



Long towing distance	耐长拖链距离	★★★★
Plasticity	柔软性	★★★★★
Weather ability	耐候性	★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★★
Swing resistance	耐摇摆性	★★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★

※ 上图仅作为特性参考使用
※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 护套采用日本柔软改性PVC护套·耐油·耐磨
- 适合机床等油污腐蚀严重的环境
- 中高速首选
- 阻燃性能优
- Rohs环保对应

◆ key property

- Obtain UL758 certification in the United States.
- The sheath adopts Japanese soft modified PVC sheath, which is oil-resistant and wear-resistant.
- Suitable for machine tools and other environments with serious oil pollution and corrosion.
- First choice for medium and high speed.
- Excellent flame retardant performance.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体·柔韧性好
- 耐热柔软PVC阻燃绝缘
- 每两根芯线以短节距对绞·再将所有对绞线以短节距围绕高强度中心线绞合在一起
- 无纺布绕包
- 改性PVC阻燃护套

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- Heat-resistant soft PVC flame-retardant insulation.
- Every two core wires are twisted in a short pitch, and then all the twisted wires are twisted together around the high-strength center line in a short pitch.
- Nonwoven fabric wrapping.
- Modified PVC flame retardant sheath.

◆ 规格参数

- 护套颜色: 黑
- 获得标准: 非标or UL
- UL文件No.: 20276
- 额定电压: 30V
- 阻燃性: VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard or UL
- UL file No.: 20276
- Rated voltage: 30V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围: -20 ~ +105
- 拖链次数 (万次): 1000
- 拖链最小弯曲半径: 6D
- 固定敷设最小弯曲半径: 4D
- 最大架空速度: 3
- 最大加速度: 30

◆ Moving parameter

- Operating temperature range: -20 ~ +105
- Number of drag chains (one million time): 1000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 30

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
HE001	2c	3.0	13	3.7	126.3
HE002	3c	3.3	16	3.1	126.3
HE003	4c	3.5	19	2.8	126.3
HE004	5c	3.7	22	2.6	126.3
HE005	6c	4.0	26	2.5	126.3
HE006	8c	4.6	33	2.3	126.3
HE007	10c	5.0	40	2.1	126.3
HE008	12c	5.4	47	2.0	126.3
HE009	20c	6.6	74	1.7	126.3
HE010	25c	7.2	89	1.6	126.3
HE011	2c	3.3	15	4.5	92.4
HE012	3c	3.4	19	3.8	92.4
HE013	4c	3.7	23	3.4	92.4
HE014	5c	4.0	26	3.1	92.4
HE015	6c	4.3	31	3.0	92.4

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
HE016	8c	5.0	41	2.8	92.4
HE017	10c	5.6	50	2.6	92.4
HE018	12c	5.9	59	2.4	92.4
HE019	20c	7.1	89	2.0	92.4
HE020	25c	7.2	99	1.9	92.4
HE021	2c	3.4	17	5.1	75.8
HE022	3c	3.6	21	4.2	75.8
HE023	4c	3.8	25	3.8	75.8
HE024	5c	4.1	29	3.5	75.8
HE025	6c	4.6	35	3.4	75.8
HE026	8c	5.4	49	3.1	75.8
HE027	10c	6.0	60	2.9	75.8
HE028	12c	6.2	67	2.7	75.8
HE029	20c	7.4	102	2.3	75.8
HE030	25c	8.1	123	2.1	75.8

1.以上表格只列出部分产品·需要更多规格请联系我们。(C=芯数 P=对绞)

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值·数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-HE1 | PVC绝缘·PVC耐油护套高速数据传输电缆

TPL-HE1 | PVC insulated, PVC oil sheathed high speed data transmission cable



UL highspeed oilproof signalline shield RoHS



Long towing distance	耐长拖链距离	★★★★
Plasticity	柔软性	★★★★★
Weather ability	耐候性	★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★★
Torsion resistance	耐扭转性	★★
Swing resistance	耐摇摆性	★★★★★
Life test of electric towing chain	电拖链寿命测试	★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 护套采用日本柔软改性PVC护套，耐油、耐磨
- 适合机床等油污腐蚀严重的环境
- 中高速首选
- 阻燃性能优
- 带屏蔽，抗干扰性能优越（-SB使用）
- Rohs环保对应

◆ key property

- Obtain UL758 certification in the United States.
- The sheath adopts Japanese soft modified PVC sheath, which is oil-resistant and wear-resistant.
- Suitable for machine tools and other environments with serious oil pollution and corrosion.
- First choice for medium and high speed.
- Excellent flame retardant performance.
- With shielding, excellent anti-interference performance (-SB use).
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- 耐热柔软PVC阻燃绝缘
- 每两根芯线以短节距对绞，再将所有对绞线以短节距围绕高强度中心线绞合在一起
- 无纺布绕包
- 镀锡铜编织屏蔽，屏蔽率≥85%（-SB使用）
- 改性PVC阻燃护套

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- Heat-resistant soft PVC flame-retardant insulation.
- Every two core wires are twisted in a short pitch, and then all the twisted wires are twisted together around the high-strength center line in a short pitch.
- Nonwoven fabric wrapping.
- Tinned copper braided shield, shielding rate ≥ 85% (for-SB use).
- Modified PVC flame retardant sheath.

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标or UL
- UL文件No.：20276
- 额定电压：30V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard or UL
- UL file No.: 20276
- Rated voltage: 30V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-20 ~ +105
- 拖链次数（万次）：1000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：30

◆ Moving parameter

- Operating temperature range: -20 ~ +105
- Number of drag chains (one million time): 1000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 30

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
HE031	2C	3.4	21	3.9	126.3
HE032	3C	3.7	25	3.3	126.3
HE033	4C	3.9	29	3.0	126.3
HE034	5C	4.1	32	2.7	126.3
HE035	6C	4.4	37	2.6	126.3
HE036	8C	5.0	46	2.4	126.3
HE037	10C	5.4	54	2.2	126.3
HE038	12C	5.8	62	2.0	126.3
HE039	20C	7.0	93	1.7	126.3
HE040	25C	7.6	110	1.6	126.3
HE041	2C	3.7	25	4.7	92.4
HE042	3C	3.8	28	4.0	92.4
HE043	4C	4.1	33	3.5	92.4
HE044	5C	4.4	37	3.3	92.4
HE045	6C	4.7	43	3.1	92.4
HE046	8C	5.4	55	2.9	92.4
HE047	10C	6.0	66	2.7	92.4
HE048	12C	6.3	76	2.5	92.4
HE049	20C	7.5	110	2.1	92.4
HE050	25C	7.6	122	1.9	92.4
HE051	2C	3.8	27	5.3	75.8
HE052	3C	4.0	31	4.4	75.8
HE053	4C	4.2	36	4.0	75.8
HE054	5C	4.5	41	3.7	75.8
HE055	6C	5.0	49	3.5	75.8
HE056	8C	5.8	64	3.2	75.8
HE057	10C	6.4	77	3.0	75.8
HE058	12C	6.6	85	2.8	75.8
HE059	20C	7.8	123	2.3	75.8
HE060	25C	8.5	147	2.2	75.8

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
HE061	2P	4.8	37	3.2	126.3
HE062	3P	5.0	43	2.7	126.3
HE063	4P	5.5	52	2.4	126.3
HE064	5P	5.9	59	2.3	126.3
HE065	6P	6.5	70	2.2	126.3
HE066	8P	7.7	94	2.0	126.3
HE067	10P	8.2	107	1.8	126.3

◆ Specifications

HE068	12P	0.14	8.5	119	1.7	126.3
HE069	14P		8.9	132	1.6	126.3
HE070	20P		10.4	179	1.5	126.3
HE071	2P	0.2	5.1	43	3.9	92.4
HE072	3P		5.3	50	3.3	92.4
HE073	4P		5.8	61	2.9	92.4
HE074	5P		6.3	69	2.7	92.4
HE075	6P		6.9	82	2.6	92.4
HE076	8P		8.2	110	2.4	92.4
HE077	10P		8.7	125	2.2	92.4
HE078	12P		9.1	141	2.1	92.4
HE079	14P		9.5	157	2.0	92.4
HE080	20P		11.2	214	1.7	92.4
HE081	2P	0.25	5.4	48	4.4	75.8
HE082	3P		5.6	56	3.7	75.8
HE083	4P		6.1	67	3.3	75.8
HE084	5P		6.6	77	3.1	75.8
HE085	6P		7.2	91	2.9	75.8
HE086	8P		8.5	121	2.7	75.8
HE087	10P		9.2	140	2.5	75.8
HE088	12P		9.5	158	2.3	75.8
HE089	14P		10.0	176	2.2	75.8
HE090	20P		11.7	240	2.0	75.8
HE091	2P	0.3	5.6	52	4.9	63.2
HE092	3P		5.9	62	4.1	63.2
HE093	4P		6.3	74	3.7	63.2
HE094	5P		6.9	85	3.4	63.2
HE095	6P		7.5	100	3.3	63.2
HE096	8P		9.0	137	3.0	63.2
HE097	10P		9.7	158	2.8	63.2
HE098	12P		10.1	181	2.6	63.2
HE099	14P		10.6	202	2.5	63.2
HE100	20P		12.5	276	2.2	63.2
HE101	2P	0.5	6.7	76	7.1	35.1
HE102	3P		7.1	92	6.0	35.1
HE103	4P		7.8	113	5.4	35.1
HE104	5P		8.5	131	5.0	35.1
HE105	6P		9.5	161	4.8	35.1
HE106	8P		11.2	215	4.4	35.1
HE107	10P		12.3	257	4.1	35.1
HE108	12P		12.7	288	3.8	35.1
HE109	14P		13.3	324	3.6	35.1
HE110	20P		15.7	445	3.2	35.1

1.以上表格只列出一部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅供参考，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-ME1 | PVC绝缘·TPU护套高速数据传输电缆

TPL-ME1 | PVC insulated, TPU sheathed high speed data transmission cable



type: velocity oil proof abrasion resistant signal line RoHS



Long towing distance	耐长拖链距离	★★★★
Plasticity	柔软性	★★★
Weather ability	耐候性	★★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 环保TPU护套·抗拉、耐油、耐磨、耐气候、抗水解和微生物
- 适合于高速、长拖链运动场合的电线布线场合
- Rohs环保对应

◆ key property

- Environmental protection TPU sheath, tensile, oil-resistant, wear-resistant, weather-resistant, hydrolysis-resistant and microbial-resistant.
- Suitable for high-speed, long chain movement of the wire wiring occasions.
- Rohs environmental protection correspondence

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- 耐热柔软PVC阻燃绝缘
- 每两根芯线以短节距对绞，再将所有对绞线以短节距围绕高强度中心线绞合在一起
- 无纺布绕包
- 耐油、耐磨TPU阻燃护套

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- Heat-resistant soft PVC flame-retardant insulation.
- Every two core wires are twisted in a short pitch, and then all the twisted wires are twisted together around the high-strength center line in a short pitch.
- Nonwoven fabric wrapping.
- Oil-resistant and wear-resistant TPU flame retardant sheath.

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标
- UL文件No.：-
- 额定电压：30V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard
- UL file No.: -
- Rated voltage: 30V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-40 ~ +80
- 拖链次数（万次）：2000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：30

◆ Moving parameter

- Operating temperature range: -40 ~ +80
- Number of drag chains (one million time): 2000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 30

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30℃) Carrying capacity	导体电阻 Ω/km(20℃) Conductor resistance
ME001	2c	3.3	13	3.9	126.3
ME002	3c	3.5	16	3.3	126.3
ME003	4c	3.8	20	2.9	126.3
ME004	5c	4.1	23	2.7	126.3
ME005	6c	4.4	27	2.6	126.3
ME006	8c	5.0	34	2.4	126.3
ME007	10c	5.4	41	2.2	126.3
ME008	12c	5.8	49	2.1	126.3
ME009	20c	7.1	76	1.7	126.3
ME010	25c	7.8	92	1.6	126.3
ME011	2c	3.6	16	4.8	90.2
ME012	3c	3.8	20	4.0	90.2
ME013	4c	4.0	24	3.6	90.2
ME014	5c	4.3	27	3.3	90.2
ME015	6c	4.7	32	3.1	90.2

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30℃) Carrying capacity	导体电阻 Ω/km(20℃) Conductor resistance
ME016	8c	5.4	43	2.9	90.2
ME017	10c	6.1	53	2.7	90.2
ME018	12c	6.4	62	2.5	90.2
ME019	20c	7.7	94	2.1	90.2
ME020	25c	7.9	105	2.0	90.2
ME021	2c	3.7	18	5.2	77.3
ME022	3c	3.9	21	4.4	77.3
ME023	4c	4.2	26	3.9	77.3
ME024	5c	4.5	30	3.6	77.3
ME025	6c	4.9	36	3.5	77.3
ME026	8c	5.8	50	3.2	77.3
ME027	10c	6.5	61	3.0	77.3
ME028	12c	6.7	68	2.8	77.3
ME029	20c	8.0	104	2.3	77.3
ME030	25c	8.8	126	2.2	77.3

1. 以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2. 以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-ME1 | PVC绝缘·TPU护套高速数据传输电缆

TPL-ME1 | PVC insulated, TPU sheathed high speed data transmission cable



Long towing distance	耐长拖链距离	★★★★
Plasticity	柔软性	★★★
Weather ability	耐候性	★★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 环保TPU护套·抗拉、耐油、耐磨、耐气候、抗水解和微生物
- 适合于高速、长拖链运动场合的电线布线场合
- 带屏蔽·抗干扰性能优越 (-SB使用)
- Rohs环保对应

◆ key property

- Environmental protection TPU sheath, tensile, oil-resistant, wear-resistant, weather-resistant, hydrolysis-resistant and microbial-resistant.
- Suitable for high-speed, long chain movement of the wire wiring occasions.
- With shielding, excellent anti-interference performance (-SB use).
- Rohs environmental protection correspondence

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体·柔韧性好
- 耐燃柔软PVC阻燃绝缘
- 每两根芯线以短节距对绞·再将所有对绞线以短节距围绕高强度中心线绞合在一起
- 无纺布绕包
- 镀锡铜编织屏蔽·屏蔽率≥85% (-SB使用)
- 耐油、耐磨TPU阻燃护套

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- Heat-resistant soft PVC flame-retardant insulation.
- Every two core wires are twisted in a short pitch, and then all the twisted wires are twisted together around the high-strength center line in a short pitch.
- Nonwoven fabric wrapping.
- Tinned copper braided shield, shielding rate ≥ 85% (for-SB use).
- Oil-resistant and wear-resistant TPU flame retardant sheath.

◆ 规格参数

- 护套颜色: 黑
- 获得标准: 非标
- UL文件No.: -
- 额定电压: 30V
- 耐燃性: VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard
- UL file No.: -
- Rated voltage: 30V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围: -40 ~ +80
- 拖链次数 (万次): 2000
- 拖链最小弯曲半径: 6D
- 固定敷设最小弯曲半径: 4D
- 最大架空速度: 3
- 最大加速度: 30

◆ Moving parameter

- Operating temperature range: -40 ~ +80
- Number of drag chains (one million time): 2000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 30

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
ME031	2C	3.7	22	4.1	126.3
ME032	3C	3.9	26	3.4	126.3
ME033	4C	4.2	30	3.1	126.3
ME034	5C	4.5	34	2.8	126.3
ME035	6C	4.8	39	2.7	126.3
ME036	8C	5.4	49	2.4	126.3
ME037	10C	5.8	56	2.3	126.3
ME038	12C	6.2	65	2.1	126.3
ME039	20C	7.5	96	1.8	126.3
ME040	25C	8.2	114	1.7	126.3
ME041	2C	4.0	26	5.0	90.2
ME042	3C	4.2	29	4.2	90.2
ME043	4C	4.4	35	3.7	90.2
ME044	5C	4.7	40	3.4	90.2
ME045	6C	5.1	45	3.2	90.2
ME046	8C	5.8	59	3.0	90.2
ME047	10C	6.5	69	2.8	90.2
ME048	12C	6.8	81	2.6	90.2
ME049	20C	8.1	116	2.2	90.2
ME050	25C	8.3	129	2.0	90.2
ME051	2C	4.1	27	5.5	77.3
ME052	3C	4.3	32	4.6	77.3
ME053	4C	4.6	37	4.1	77.3
ME054	5C	4.9	43	3.8	77.3
ME055	6C	5.3	50	3.6	77.3
ME056	8C	6.2	66	3.3	77.3
ME057	10C	6.9	79	3.1	77.3
ME058	12C	7.1	87	2.9	77.3
ME059	20C	8.4	126	2.4	77.3
ME060	25C	9.2	152	2.2	77.3

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
ME061	2P	5.1	39	3.3	126.3
ME062	3P	5.4	45	2.8	126.3
ME063	4P	5.9	54	2.5	126.3
ME064	5P	6.4	62	2.3	126.3
ME065	6P	7.0	73	2.2	126.3
ME066	8P	8.2	98	2.1	126.3
ME067	10P	8.8	111	1.9	126.3

◆ Specifications

ME068	12P	0.14	9.1	124	1.8	126.3
ME069	14P		9.6	137	1.7	126.3
ME070	20P		11.2	187	1.5	126.3
ME071	2P	0.2	5.5	45	4.1	90.2
ME072	3P		5.8	53	3.4	90.2
ME073	4P		6.3	64	3.1	90.2
ME074	5P		6.9	73	2.9	90.2
ME075	6P		7.5	86	2.7	90.2
ME076	8P		8.9	116	2.5	90.2
ME077	10P		9.5	133	2.3	90.2
ME078	12P		10.1	153	2.2	90.2
ME079	14P		10.6	170	2.1	90.2
ME080	20P		12.4	230	1.8	90.2
ME081	2P	0.25	5.8	50	4.5	77.3
ME082	3P		6.1	59	3.8	77.3
ME083	4P		6.6	69	3.4	77.3
ME084	5P		7.1	80	3.2	77.3
ME085	6P		7.8	94	3.0	77.3
ME086	8P		9.1	126	2.8	77.3
ME087	10P		9.9	144	2.6	77.3
ME088	12P		10.5	167	2.4	77.3
ME089	14P		11.0	186	2.3	77.3
ME090	20P		12.8	253	2.0	77.3
ME091	2P	0.3	6.0	55	5.1	63.2
ME092	3P		6.4	65	4.3	63.2
ME093	4P		6.9	78	3.8	63.2
ME094	5P		7.5	89	3.6	63.2
ME095	6P		8.2	105	3.4	63.2
ME096	8P		9.7	144	3.1	63.2
ME097	10P		10.5	165	2.9	63.2
ME098	12P		11.0	188	2.7	63.2
ME099	14P		11.5	211	2.5	63.2
ME100	20P		13.5	287	2.3	63.2
ME101	2P	0.5	7.5	82	7.3	36.1
ME102	3P		7.9	99	6.1	36.1
ME103	4P		8.7	123	5.5	36.1
ME104	5P		9.5	142	5.2	36.1
ME105	6P		10.5	170	4.9	36.1
ME106	8P		12.3	227	4.5	36.1
ME107	10P		13.3	264	4.2	36.1
ME108	12P		13.7	295	3.9	36.1
ME109	14P		14.6	337	3.7	36.1
ME110	20P		16.9	454	3.3	36.1

1. 以上表格只列出一部分产品·需要更多规格请联系我们。(C=芯数 P=对绞)

The above table only lists some products. Please contact us if you need more specifications. (C = core number P = Pair of twisted)

2. 以上数字仅为参考值·数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-MXE1 | TPE绝缘·TPU护套超长、超高速数据传输电缆

TPL-MXE1 | TPE insulated, TPU sheathed ultra long, ultra high speed data transmission cable



overlength oil proof abrasion resistant signal line RoHS

数据传输电缆



Long towing distance	耐长拖链距离	★★★★★
Plasticity	柔软性	★★
Weather ability	耐候性	★★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★★★★★
Swing resistance	耐摇摆性	★★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 绝缘采用弹性XLPE材料，抗拉
- 环保TPU护套，抗拉、耐油、耐磨、耐气候、抗水解和微生物
- 适合于高速、长拖链运动场合的电线布线场合
- Rohs环保对应

◆ key property

- The insulation is made of elastic XLPE material and tensile.
- Environmental protection TPU sheath, tensile, oil-resistant, wear-resistant, weather-resistant, hydrolysis-resistant and microbial-resistant.
- Suitable for high-speed, long chain movement of the wire wiring occasions.
- Rohs environmental protection correspondence

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- 每两根芯线以短节距对绞，再将所有对绞线以短节距围绕高强度中心线绞合在一起
- 无纺布绕包
- 环保TPU阻燃护套

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- Every two core wires are twisted in a short pitch, and then all the twisted wires are twisted together around the high-strength center line in a short pitch.
- Nonwoven fabric wrapping.
- Environment-friendly TPU flame-retardant sheath.

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标
- UL文件No.：-
- 额定电压：30V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard
- UL file No.: -
- Rated voltage: 30V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-40 ~ +80
- 拖链次数（万次）：5000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：10
- 最大加速度：80

◆ Moving parameter

- Operating temperature range: -40 ~ +80
- Number of drag chains (one million time): 5000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 10
- Maximum acceleration: 80

◆ 规格

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance	产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
MXE001	2c	3.3	13	3.9	126.3	MXE016	8c	5.4	43	2.9	90.2
MXE002	3c	3.5	16	3.3	126.3	MXE017	10c	6.1	53	2.7	90.2
MXE003	4c	3.8	20	2.9	126.3	MXE018	12c	6.4	62	2.5	90.2
MXE004	5c	4.1	23	2.7	126.3	MXE019	20c	7.7	94	2.1	90.2
MXE005	6c	4.4	27	2.6	126.3	MXE020	25c	7.9	105	2.0	90.2
MXE006	8c	5.0	34	2.4	126.3	MXE021	2c	3.7	18	5.2	77.3
MXE007	10c	5.4	41	2.2	126.3	MXE022	3c	3.9	21	4.4	77.3
MXE008	12c	5.8	49	2.1	126.3	MXE023	4c	4.2	26	3.9	77.3
MXE009	20c	7.1	76	1.7	126.3	MXE024	5c	4.5	30	3.6	77.3
MXE010	25c	7.8	92	1.6	126.3	MXE025	6c	4.9	36	3.5	77.3
MXE011	2c	3.6	16	4.8	90.2	MXE026	8c	5.8	50	3.2	77.3
MXE012	3c	3.8	20	4.0	90.2	MXE027	10c	6.5	61	3.0	77.3
MXE013	4c	4.0	24	3.6	90.2	MXE028	12c	6.7	68	2.8	77.3
MXE014	5c	4.3	27	3.3	90.2	MXE029	20c	8.0	104	2.3	77.3
MXE015	6c	4.7	32	3.1	90.2	MXE030	25c	8.8	126	2.2	77.3

1. 以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2. 以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-MXE1|TPE绝缘·TPU护套超长、超高速数据传输电缆

TPL-MXE1|TPE insulated, TPU sheathed ultra long, ultra high speed data transmission cable



Long towing distance	耐长拖链距离	★★★★★
Plasticity	柔软性	★★
Weather ability	耐候性	★★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★★
Torsion resistance	耐扭转性	★★★★★
Swing resistance	耐摇摆性	★★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 绝缘采用弹性XLPE材料·抗拉
- 环保TPU护套·抗拉、耐油、耐磨、耐气候、抗水解和微生物
- 适合于高速、长拖链运动场合的电缆布线场合
- 带屏蔽·抗干扰性能优越 (-SB使用)
- Rohs环保对应

◆ key property

- The insulation is made of elastic XLPE material and tensile.
- Environmental protection TPU sheath, tensile, oil-resistant, wear-resistant, weather-resistant, hydrolysis-resistant and microbial-resistant.
- Suitable for high-speed, long chain movement of the wire wiring occasions.
- With shielding, excellent anti-interference performance (-SB use).
- Rohs environmental protection correspondence

◆ 电缆结构

- 采用超细铜丝6类多股胶合导体·柔韧性好
- 每两根芯线以短节距对绞·再将所有对绞线以短节距围绕高强度中心线绞合在一起
- 无纺布绕包
- 镀锡铜编织屏蔽·屏蔽率≥85% (-SB使用)
- 环保TPU阻燃护套
- Class 5 and 6 stranded conductors are used.
- Every two core wires are twisted in a short pitch, and then all the twisted wires are twisted together around the high-strength center line in a short pitch.
- Nonwoven fabric wrapping.
- Tinned copper braided shield, shielding rate ≥ 85% (for-SB use).
- Environment-friendly TPU flame-retardant sheath.

◆ 规格参数

- 护套颜色: 黑
- 获得标准: 非标
- UL文件No.: -
- 额定电压: 30V
- 耐燃性: VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard
- UL file No.: -
- Rated voltage: 30V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围: -40 ~ +80
- 拖链次数 (万次): 5000
- 拖链最小弯曲半径: 6D
- 固定敷设最小弯曲半径: 4D
- 最大架空速度: 10
- 最大加速度: 80

◆ Moving parameter

- Operating temperature range: -40 ~ +80
- Number of drag chains (one million time): 5000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 10
- Maximum acceleration: 80

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
MXE031	2C	3.7	22	4.1	126.3
MXE032	3C	3.9	26	3.4	126.3
MXE033	4C	4.2	30	3.1	126.3
MXE034	5C	4.5	34	2.8	126.3
MXE035	6C	4.8	39	2.7	126.3
MXE036	8C	5.4	49	2.4	126.3
MXE037	10C	5.8	56	2.3	126.3
MXE038	12C	6.2	65	2.1	126.3
MXE039	20C	7.5	96	1.8	126.3
MXE040	25C	8.2	114	1.7	126.3
MXE041	2C	4.0	26	5.0	90.2
MXE042	3C	4.2	29	4.2	90.2
MXE043	4C	4.4	35	3.7	90.2
MXE044	5C	4.7	40	3.4	90.2
MXE045	6C	5.1	45	3.2	90.2
MXE046	8C	5.8	59	3.0	90.2
MXE047	10C	6.5	69	2.8	90.2
MXE048	12C	6.8	81	2.6	90.2
MXE049	20C	8.1	116	2.2	90.2
MXE050	25C	8.3	129	2.0	90.2
MXE051	2C	4.1	27	5.5	77.3
MXE052	3C	4.3	32	4.6	77.3
MXE053	4C	4.6	37	4.1	77.3
MXE054	5C	4.9	43	3.8	77.3
MXE055	6C	5.3	50	3.6	77.3
MXE056	8C	6.2	66	3.3	77.3
MXE057	10C	6.9	79	3.1	77.3
MXE058	12C	7.1	87	2.9	77.3
MXE059	20C	8.4	126	2.4	77.3
MXE060	25C	9.2	152	2.2	77.3

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
MXE061	2P	5.1	39	3.3	126.3
MXE062	3P	5.4	45	2.8	126.3
MXE063	4P	5.9	54	2.5	126.3
MXE064	5P	6.4	62	2.3	126.3
MXE065	6P	7.0	73	2.2	126.3
MXE066	8P	8.2	98	2.1	126.3
MXE067	10P	8.8	111	1.9	126.3

◆ Specifications

MXE068	12P		9.1	124	1.8	126.3
MXE069	14P	0.14	9.6	137	1.7	126.3
MXE070	20P		11.2	187	1.5	126.3
MXE071	2P		5.5	45	4.1	90.2
MXE072	3P		5.8	53	3.4	90.2
MXE073	4P		6.3	64	3.1	90.2
MXE074	5P		6.9	73	2.9	90.2
MXE075	6P	0.2	7.5	86	2.7	90.2
MXE076	8P		8.9	116	2.5	90.2
MXE077	10P		9.5	133	2.3	90.2
MXE078	12P		10.1	153	2.2	90.2
MXE079	14P		10.6	170	2.1	90.2
MXE080	20P		12.4	230	1.8	90.2
MXE081	2P		5.8	50	4.5	77.3
MXE082	3P		6.1	59	3.8	77.3
MXE083	4P		6.6	69	3.4	77.3
MXE084	5P		7.1	80	3.2	77.3
MXE085	6P	0.25	7.8	94	3.0	77.3
MXE086	8P		9.1	126	2.8	77.3
MXE087	10P		9.9	144	2.6	77.3
MXE088	12P		10.5	167	2.4	77.3
MXE089	14P		11.0	186	2.3	77.3
MXE090	20P		12.8	253	2.0	77.3
MXE091	2P		6.0	55	5.1	63.2
MXE092	3P		6.4	65	4.3	63.2
MXE093	4P		6.9	78	3.8	63.2
MXE094	5P		7.5	89	3.6	63.2
MXE095	6P	0.3	8.2	105	3.4	63.2
MXE096	8P		9.7	144	3.1	63.2
MXE097	10P		10.5	165	2.9	63.2
MXE098	12P		11.0	188	2.7	63.2
MXE099	14P		11.5	211	2.5	63.2
MXE100	20P		13.5	287	2.3	63.2
MXE101	2P		7.5	82	7.3	36.1
MXE102	3P		7.9	99	6.1	36.1
MXE103	4P		8.7	123	5.5	36.1
MXE104	5P		9.5	142	5.2	36.1
MXE105	6P	0.5	10.5	170	4.9	36.1
MXE106	8P		12.3	227	4.5	36.1
MXE107	10P		13.3	264	4.2	36.1
MXE108	12P		13.7	295	3.9	36.1
MXE109	14P		14.6	337	3.7	36.1
MXE110	20P		16.9	454	3.3	36.1

1.以上表格只列出一部分产品·需要更多规格请联系我们。(C=芯数 P=对绞)

The above table only lists some products. Please contact us if you need more specifications. (C = core number P = Pair of twisted)

2.以上数字仅为参考值·数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

总线电缆



TPL-GP | PE绝缘·PVC护套固定总线电缆

TPL-GP | PE insulated and PVC sheathed fixed bus cable



UL Fixed wiring signal line shield RoHS



Long towing distance	耐长拖链距离	★
Plasticity	柔软性	★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★
Life test of electric towing chain	电拖链测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 适合于非运动场合的电线电缆场合
- 带屏蔽·抗干扰性能优越
- Rohs环保对应

◆ key property

- Obtain UL758 certification in the United States.
- Suitable for wire wiring in non-sports situations.
- With shielding, excellent anti-interference performance.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用5·6类多股绞合导体
- PP绝缘
- 束绞或对绞形式以短节距绞合在一起
- 铝箔绕包
- 镀锡铜编织屏蔽·屏蔽率≥85%
- 黑色PVC阻燃护套

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- PP insulation.
- Stranded or twisted together in a short pitch.
- Aluminum foil wrapping.
- Tinned copper braided shield, shielding rate ≥85%.
- Black PVC flame retardant sheath.

◆ 规格参数

- 护套颜色: 黑
- 获得标准: 非标或 UL
- UL文件No.: 20276
- 额定电压: 30V
- 耐燃性: FT2/VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard or UL
- UL file No.: 20276
- Rated voltage: 30V
- Flame resistance: FT2/VW-1

◆ 移动参数

- 使用温度范围: -15 ~ +80
- 拖链次数 (万次): 200
- 拖链最小弯曲半径: -
- 固定敷设最小弯曲半径: 4D
- 最大架空速度: 0
- 最大加速度: 0

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 200
- Minimum bending radius of towing chain: -
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 0
- Maximum acceleration: 0

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
GP001	Coaxial/30AWG	3.0	17	2.9	351.5
GP002	Coaxial/26AWG	4.2	29	5.0	146.6
GP003	Coaxial/26AWG	2.8	16	4.8	132.6
GP004	Coaxial/24AWG	5.1	43	6.7	93.1
GP005	Coaxial/22AWG	6.0	60	9.1	56.3
GP006	Coaxial/22AWG	6.1	73	9.2	56.3
GP007	Coaxial/20AWG	7.6	92	12.0	36.4
GP008	Coaxial/20AWG	5.0	47	11.4	35.2
GP009	Coaxial/20AWG	5.0	46	10.9	38.6
GP010	Coaxial/12AWG	10.3	168	34.7	5.9
GP011	Coaxial/26AWG	3.0	18	5.1	125.1
GP012	Coaxial/24AWG	3.5	23	6.6	81.9
GP013	Coaxial/22AWG	4.2	32	8.5	56.6
GP014	Coaxial/20AWG	4.8	42	11.1	36.6
GP015	SPE/1PX26AWG	4.1	27	4.3	115.8
GP016	SPE/1PX24AWG	4.8	36	5.1	93.1
GP017	SPE/1PX22AWG	6.2	58	7.1	55.1
GP018	Profinet/4X0.14mm ²	5.5	56	3.8	133.0
GP019	Profinet/4X0.14mm ²	6	65	5.0	84.9
GP020	Profinet/4X0.38mm ²	6.5	83	6.5	50.2
GP021	CAT.5e/2PX0.14mm ²	5.2	41	3.2	132.6
GP022	CAT.5e/2PX0.2mm ²	5.7	49	4.2	84.4
GP023	CAT.5e/4PX0.14mm ²	6.2	56	2.5	132.6
GP024	CAT.5e/4PX0.14mm ²	6.7	68	3.2	84.4
GP025	USB2.0/1PX30AWG+2X26AWG	4.2	31	4.1	132.6
GP026	USB2.0/1PX28AWG+2X24AWG	4.8	40	5.5	84.4
GP027	USB2.0/1PX26AWG+2X24AWG	5.2	46	5.7	84.4
GP028	USB2.0/1PX24AWG+2X24AWG	5.8	55	5.9	84.4
GP029	USB3.0/2Px28AWG+1Px28AWG+2x24AWG	6.8	75	5.3	216/87.6
GP030	USB3.0/2PX28AWG+1PX28AWG+2X28AWG	8	70	4.0	216.0
GP031	USB3.0/2PX30AWG+1PX32AWG+2X24AWG	6.5	59	5.2	559/368/94.2

1.以上表格只列出部分产品,需要更多规格请联系我们。(C=芯数 P=对绞)

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值,数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-YP | PE绝缘·PVC耐油护套固定总线电缆

TPL-YP | PE insulated and PVC oil-resistant sheathed fixed bus cable



Long towing distance	耐长拖链距离	★
Plasticity	柔软性	★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★
Life test of electric towing chain	电拖链寿命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 适合于非运动场合的电线电缆场合
- 适合机床等油污腐蚀严重的环境
- 带屏蔽，抗干扰性能优越
- Rohs环保对应

◆ key property

- Obtained the US UL758 certification.
- Suitable for wire wiring in non-sports situations.
- Suitable for machine tools and other environments with serious oil pollution and corrosion.
- With shielding, excellent anti-interference performance.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用5、6类多股绞合导体
- PP绝缘
- 束绞或对绞形式以短节距绞合在一起
- 铝箔绕包
- 镀锡铜编织屏蔽，屏蔽率≥85%
- 耐油PVC阻燃护套

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- PP insulation.
- Stranded or twisted together in a short pitch.
- Aluminum foil wrapping.
- Tinned copper braided shield, shielding rate ≥ 85%.
- Oil-resistant PVC flame retardant sheath.

◆ 规格参数

- 护套颜色：黑、灰、橙、绿
- 获得标准：非标或 UL
- UL文件No.: 20276
- 额定电压：30V
- 耐燃性：FT2/VW-1

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard or UL
- UL file No.: 20276
- Rated voltage: 30V
- Flame resistance: FT2/VW-1

◆ 移动参数

- 使用温度范围：-15 ~ +80
- 拖链次数（万次）：200
- 拖链最小弯曲半径：-
- 固定敷设最小弯曲半径：4D
- 最大架空速度：0
- 最大加速度：0

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 200
- Minimum bending radius of towing chain: -
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 0
- Maximum acceleration: 0

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
YP001	SPE/1PX26AWG	4.1	27	4.3	115.8
YP002	SPE/1PX24AWG	4.8	36	5.1	93.1
YP003	SPE/1PX22AWG	6.2	58	7.1	55.1
YP004	Profinet/4X0.14mm ²	5.5	56	3.8	133.0
YP005	Profinet/4X0.2mm ²	6	65	5.0	84.9
YP006	Profinet/4X0.38mm ²	6.5	83	6.5	50.2
YP007	CAT.5e/2PX0.14mm ²	5.2	41	3.2	132.6
YP008	CAT.5e/2PX0.2mm ²	5.7	49	4.2	84.4
YP009	CAT.5e/4PX0.14mm ²	6.2	56	2.5	132.6
YP010	CAT.5e/4PX0.20mm ²	6.7	68	3.2	84.4
YP011	USB2.0/1PX30AWG+2X26AWG	4.2	31	4.1	132.6
YP012	USB2.0/1PX28AWG+2X24AWG	4.8	40	5.5	84.4
YP013	USB2.0/1PX26AWG+2X24AWG	5.2	46	5.7	84.4
YP014	USB2.0/1PX24AWG+2X24AWG	5.8	55	5.9	84.4
YP015	USB3.0/2Px28AWG+1Px28AWG+2x24AWG	6.8	75	5.3	216/87.6
YP016	USB3.0/2PX28AWG+1PX28AWG+2X28AWG	8	70	4.0	216.0
YP017	USB3.0/2PX30AWG+1PX32AWG+2X24AWG	6.5	59	5.2	559/368/94.2

1.以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

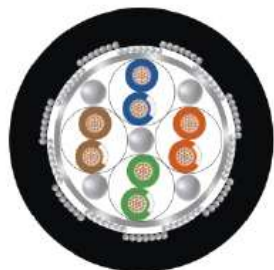
The above figures are for reference only, and the figures are subject to the final specification.

TPL-RP | PE绝缘·PVC护套弱移动总线电缆

TPL-RP | PE insulated and PVC sheathed weak mobile bus cable



UL medium-low speed motion signal line shield RoHS



Long towing distance	耐长拖链距离	★
Plasticity	柔软性	★★★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★★
Life test of electric towing chain	电拖链寿命测试	★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 绝缘护套采用超柔软的PVC材料
- 适合于中低速运动场合的电线布线场合
- 带屏蔽，抗干扰性能优越
- Rohs环保对应

◆ key property

- Obtain UL758 certification in the United States.
- The insulating sheath is made of ultra-soft PVC material.
- Suitable for low-speed sports occasions of wiring occasions.
- With shielding, excellent anti-interference performance.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用6类多股绞合导体，柔韧性良好
- HDPE绝缘
- 束绞或对绞形式以短节距绞合在一起
- 铝箔绕包
- 镀锡铜编织屏蔽，屏蔽率≥85%
- 柔软PVC阻燃护套

◆ Construction of cable

- Adopt 6 kinds of multi-stranded conductor, good flexibility.
- HDPE insulation.
- Stranded or twisted together in a short pitch.
- Aluminum foil wrapping.
- Tinned copper braided shield, shielding rate ≥85%.
- Soft PVC flame retardant sheath.

◆ 规格参数

- 护套颜色：黑、灰、橙、绿
- 获得标准：非标或 UL
- UL文件No.：20276
- 额定电压：30V
- 耐燃性：FT2/VW-1

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard or UL
- UL file No.: 20276
- Rated voltage: 30V
- Flame resistance: FT2/VW-1

◆ 移动参数

- 使用温度范围：-15 ~ +80
- 拖链次数（万次）：500
- 拖链最小弯曲半径：10D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：2
- 最大加速度：20

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 500
- Minimum bending radius of towing chain: 10D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 2
- Maximum acceleration: 20

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
RP001	SPE/1PX26AWG	4.1	27	4.1	126.9
RP002	SPE/1PX24AWG	4.9	37	5.3	86.8
RP003	SPE/1PX22AWG	6.2	58	7.0	56.9
RP004	Profinet/4X0.14mm ²	5.5	56	3.8	133.0
RP005	Profinet/4X0.2mm ²	6	65	5.0	84.9
RP006	Profinet/4X0.38mm ²	6.5	83	6.5	50.2
RP007	CAT.5e/2PX0.14mm ²	5.2	41	3.3	126.9
RP008	CAT.5e/2PX0.2mm ²	5.7	49	4.1	86.8
RP009	CAT.5e/4PX0.14mm ²	6.2	57	2.5	126.9
RP010	CAT.5e/4PX0.20mm ²	6.6	67	3.2	86.8
RP011	USB2.0/1PX30AWG+2X26AWG	4.2	31	4.2	126.9
RP012	USB2.0/1PX28AWG+2X24AWG	4.8	40	5.4	86.8
RP013	USB2.0/1PX26AWG+2X24AWG	5.2	46	5.6	86.8
RP014	USB2.0/1PX24AWG+2X24AWG	5.8	55	5.8	86.8
RP015	USB3.0/2Px28AWG+1Px28AWG+2x24AWG	6.8	75	5.3	216/87.6
RP016	USB3.0/2PX28AWG+1PX28AWG+2X26AWG	8	70	4.0	216.0
RP017	USB3.0/2PX30AWG+1PX32AWG+2X24AWG	6.5	59	5.2	559/368/94.2

1.以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (C = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-TP | PE绝缘·PVC护套中高速总线电缆

TPL-TP | PE insulated and PVC sheathed high-speed bus cable



UL medium-high signal line shield RoHS



Long towing distance	耐长拖链距离	★★
Plasticity	柔软性	★★★★
Weather ability	耐候性	★★★★
Oil resistivity	耐油性	★★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 适合小弯曲半径布线
- 中高速首选
- 阻燃性能优越
- 带屏蔽，抗干扰性能优越
- Rohs环保对应

◆ key property

- Obtained the US UL758 certification.
- Suitable for wiring with small bending radius.
- First choice for medium and high speed.
- Excellent flame retardant performance.
- With shielding, excellent anti-interference performance.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- HDPE绝缘
- 束绞或对绞形式以短节距绞合在一起
- 铝箔绕包
- 镀锡铜编织屏蔽，屏蔽率≥85%
- 耐燃柔软PVC阻燃护套

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- HDPE insulation.
- Stranded or twisted together in a short pitch.
- Aluminum foil wrapping.
- Tinned copper braided shield, shielding rate ≥85%.
- Heat-resistant soft PVC flame retardant sheath.

◆ 规格参数

- 护套颜色：黑、灰、橙、绿
- 获得标准：非标或UL
- UL文件No.：20276
- 额定电压：30V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard or UL
- UL file No.: 20276
- Rated voltage: 30V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-20 ~ +105
- 拖链次数（万次）：1000
- 拖链最小弯曲半径：8D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：20

◆ Moving parameter

- Operating temperature range: -20 ~ +105
- Number of drag chains (one million time): 1000
- Minimum bending radius of towing chain: 8D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 20

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
TP001	SPE/1PX26AWG	4.1	27	4.1	126.9
TP002	SPE/1PX24AWG	4.9	37	5.3	86.8
TP003	SPE/1PX22AWG	6.2	58	7.0	56.9
TP004	Profinet/4X0.14mm ²	5.5	56	3.8	133.0
TP005	Profinet/4X0.2mm ²	6	65	5.0	84.9
TP006	Profinet/4X0.38mm ²	6.5	83	6.5	50.2
TP007	CAT.5e/2PX0.14mm ²	5.2	41	3.3	126.3
TP008	CAT.5e/2PX0.2mm ²	5.7	48	4.0	92.4
TP009	CAT.5e/4PX0.14mm ²	6.2	60	2.5	126.3
TP010	CAT.5e/4PX0.20mm ²	6.6	68	3.0	92.4
TP011	USB2.0/1PX30AWG+2X26AWG	4.2	31	4.2	126.3
TP012	USB2.0/1PX28AWG+2X24AWG	4.8	40	5.2	92.4
TP013	USB2.0/1PX26AWG+2X24AWG	5.2	46	5.4	92.4
TP014	USB2.0/1PX24AWG+2X24AWG	5.8	54	5.6	92.4
TP015	USB3.0/2Px28AWG+1Px28AWG+2x24AWG	6.8	75	5.3	216/87.6
TP016	USB3.0/2PX28AWG+1PX28AWG+2X28AWG	8	70	4.0	216.0
TP017	USB3.0/2PX30AWG+1PX32AWG+2X24AWG	6.5	59	5.2	559/368/94.2

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The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-HP | PE绝缘·PVC耐油护套高速总线电缆

TPL-HP | PE insulated, PVC oil sheathed high speed bus cable



Long towing distance	耐长拖链距离	★★★★
Plasticity	柔软性	★★★★★
Weather ability	耐候性	★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★★
Torsion resistance	耐扭转性	★★
Swing resistance	耐摇摆性	★★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 护套采用日本柔软改性PVC护套，耐油、耐磨
- 适合机床等油污腐蚀严重的环境
- 中高速首选
- 阻燃性能优
- 带屏蔽，抗干扰性能优越
- Rohs环保对应

◆ key property

- Obtain UL758 certification in the United States.
- The sheath adopts Japanese soft modified PVC sheath, which is oil-resistant and wear-resistant.
- Suitable for machine tools and other environments with serious oil pollution and corrosion.
- First choice for medium and high speed.
- Excellent flame retardant performance.
- With shielding, excellent anti-interference performance.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- HDPE绝缘
- 束绞或对绞形式以短节距绞合在一起
- 铝箔绕包
- 镀锡铜编织屏蔽，屏蔽率≥85%
- 改性PVC阻燃护套

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- HDPE insulation.
- Stranded or twisted together in a short pitch.
- Aluminum foil wrapping.
- Tinned copper braided shield, shielding rate ≥85%.
- Modified PVC flame retardant sheath.

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标or UL
- UL文件No.：20276
- 额定电压：30V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard or UL
- UL file No.: 20276
- Rated voltage: 30V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-20 ~ +105
- 拖链次数（万次）：1000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：30

◆ Moving parameter

- Operating temperature range: -20 ~ +105
- Number of drag chains (one million time): 1000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 30

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
HP001	SPE/1PX26AWG	4.1	27	4.1	126.9
HP002	SPE/1PX24AWG	4.9	37	5.3	86.8
HP003	SPE/1PX22AWG	6.2	58	7.0	56.9
HP004	Profinet/4X0.14mm²	5.5	56	3.8	133.0
HP005	Profinet/4X0.2mm²	6	65	5.0	84.9
HP006	Profinet/4X0.38mm²	6.5	83	6.5	50.2
HP007	CAT.5e/2PX0.14mm²	5.5	41	3.3	126.3
HP008	CAT.5e/2PX0.2mm²	5.7	48	4.0	92.4
HP009	CAT.5e/4PX0.14mm²	6.2	60	2.5	126.3
HP010	CAT.5e/4PX0.20mm²	6.6	68	3.0	92.4
HP011	USB2.0/1PX30AWG+2X26AWG	4.2	31	4.2	126.3
HP012	USB2.0/1PX28AWG+2X24AWG	4.8	40	5.2	92.4
HP013	USB2.0/1PX26AWG+2X24AWG	5.2	46	5.4	92.4
HP014	USB2.0/1PX24AWG+2X24AWG	5.8	54	5.6	92.4
HP015	USB3.0/2PX28AWG+1PX28AWG+2x24AWG	6.8	75	5.3	216/87.6
HP016	USB3.0/2PX28AWG+1PX28AWG+2X28AWG	8	70	4.0	215.0
HP017	USB3.0/2PX30AWG+1PX32AWG+2X24AWG	6.5	59	5.2	559/368/94.2

1. 以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

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2. 以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-MP | PE绝缘·TPU护套高速总线电缆

TPL-MP | PE insulated and TPU sheathed high-speed bus cable



Long towing distance	耐长拖链距离	★★★★
Plasticity	柔软性	★★★
Weather ability	耐候性	★★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 环保TPU护套，抗拉、耐油、耐磨、耐气候、抗水解和微生物
- 适合于高速、长拖链运动场合的电线布线场合
- 带屏蔽，抗干扰性能优越
- Rohs环保对应

◆ key property

- Environmental protection TPU sheath, tensile, oil and wear resistance, Weather resistance, hydrolysis resistance and microorganism resistance.
- Suitable for high-speed, long chain movement of the wire wiring occasions.
- With shielding, excellent anti-interference performance.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- HDPE绝缘
- 束绞或绞合形式以短节距绞合在一起
- 铝箔绕包
- 镀锡铜编织屏蔽，屏蔽率≥85%
- 耐油、耐磨TPU阻燃护套

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- HDPE insulation.
- Stranded or twisted together in a short pitch.
- Aluminum foil wrapping.
- Tinned copper braided shield, shielding rate ≥85%.
- Oil-resistant and wear-resistant TPU flame retardant sheath.

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标
- UL文件No.：-
- 额定电压：30V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard
- UL file No.: -
- Rated voltage: 30V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-40 ~ +80
- 拖链次数（万次）：2000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：30

◆ Moving parameter

- Operating temperature range: -40 ~ +80
- Number of drag chains (one million time): 2000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 30

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
MP001	SPE/1PX26AWG	4.2	26	4.1	126.9
MP002	SPE/1PX24AWG	5.0	36	5.3	86.8
MP003	SPE/1PX22AWG	6.3	55	7.1	56.9
MP004	Profinet/4X0.14mm²	5.5	56	3.8	133.0
MP005	Profinet/4X0.2mm²	6	65	5.0	84.9
MP006	Profinet/4X0.38mm²	6.5	83	6.5	50.2
MP007	CAT.5e/2PX0.14mm²	5.3	39	3.3	126.3
MP008	CAT.5e/2PX0.2mm²	5.8	47	4.0	92.4
MP009	CAT.5e/4PX0.14mm²	6.3	58	2.6	126.3
MP010	CAT.5e/4PX0.20mm²	6.7	67	3.1	92.4
MP011	USB2.0/1PX30AWG+2X26AWG	4.3	30	4.3	126.3
MP012	USB2.0/1PX28AWG+2X24AWG	4.9	39	5.3	92.4
MP013	USB2.0/1PX26AWG+2X24AWG	5.3	44	5.4	92.4
MP014	USB2.0/1PX24AWG+2X24AWG	5.9	53	5.6	92.4
MP015	USB3.0/2Px28AWG+1Px28AWG+2x24AWG	6.8	75	5.3	216/87.6
MP016	USB3.0/2PX28AWG+1PX28AWG+2X28AWG	8	70	4.0	215.0
MP017	USB3.0/2PX30AWG+1PX32AWG+2X24AWG	6.5	59	5.2	559/368/94.2

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测量系统电缆



应用领域

- 不受油的影响，耐有机油
- 室内应用及不受阳光直射的室外应用
- 架空滑行行程达到400米以上
- 储存与提取装置适用于高架仓库、机械设备/机床、快速输送系统、无尘室、半导体插入、室内起重机、低温应用

TPL-GM1 | PVC绝缘·PVC护套固定测量系统电缆

TPL-GM1 | PVC insulated and PVC sheathed fixed measuring system cable



UL fixed wiring signal line powercord shield RoHS



Long towing distance	耐长拖链距离	★
Plasticity	柔软性	★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★
Life test of electric towing chain	电拖链寿命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 适合于非运动场合的电线布线场合
- 带屏蔽·抗干扰性能优越
- Rohs环保对应

◆ key property

- Obtain UL758 certification in the United States.
- Suitable for wire wiring in non-sports situations.
- With shielding, excellent anti-interference performance.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用5、6类多股绞合导体
- PVC阻燃绝缘
- 不同物料号采用单独设计方案 (更多细节参见数据规格表)
- 铝箔绕包
- 镀锡铜编织屏蔽·屏蔽率≥85%
- 黑色PVC阻燃护套
- Class 5 and 6 stranded conductors are used.
- PVC flame retardant insulation.
- Different material numbers adopt separate design schemes (see data specification table for more details).
- Aluminum foil wrapping.
- Tinned copper braided shield, shielding rate ≥85%.
- Black PVC flame retardant sheath.

◆ Construction of cable

◆ 规格参数

- 护套颜色: 黑
- 获得标准: 非标or UL
- UL文件No.: 20276
- 额定电压: 30V
- 耐燃性: FT2/VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard or UL
- UL file No.: 20276
- Rated voltage: 30V
- Flame resistance: FT2/VW-1

◆ 移动参数

- 使用温度范围: -15 ~ +80
- 拖链次数 (万次): 200
- 拖链最小弯曲半径: -
- 固定敷设最小弯曲半径: 4D
- 最大架空速度: 0
- 最大加速度: 0

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 200
- Minimum bending radius of towing chain: -
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 0
- Maximum acceleration: 0

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
GM001	3X(1PX0.14mm ² -AB)+3X0.14mm ² -AB	7.7	71	1.9	133.0
GM002	4X(1PX0.14mm ² -AB)+2X1.0mm ²	9.2	113	14.0	133/18.1
GM003	5PX0.25mm ²	7.7	74	4.3	74.3
GM004	6PX0.25mm ²	8.2	86	4.0	74.3
GM005	3PX0.14mm ² +2X0.34mm ²	7.2	66	6.0	133//52.6
GM006	4X(1PX0.14mm ² -AB)+2X0.5mm ²	9.7	125	10.0	133/34.6

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TPL-YM1 | PVC绝缘·PVC耐油护套固定测量系统电缆

TPL-YM1 | PVC insulated and PVC oil-resistant sheath fixed measuring system cable



Long towing distance	耐长拖链距离	★
Plasticity	柔软性	★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★
Life test of electric towing chain	电拖链寿命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★

※ 上图仅作为特性参考使用
※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 适合于非运动场合的电线布线场合
- 适合机床等油污腐蚀严重的环境
- 带屏蔽·抗干扰性能优越
- Rohs环保对应

◆ key property

- Obtain UL758 certification in the United States.
- Suitable for wire wiring in non-sports situations.
- Suitable for machine tools and other environments with serious oil pollution and corrosion.
- With shielding, excellent anti-interference performance.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用5、6类多股绞合导体
- PVC阻燃绝缘
- 不同物料号采用单独设计方案 (更多细节参见数据规格表)
- 铝箔绕包
- 镀锡铜编织屏蔽·屏蔽率≥85%
- 耐油PVC阻燃护套

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- PVC flame retardant insulation.
- Different material numbers adopt separate design schemes (see data specification table for more details).
- Aluminum foil wrapping.
- Tinned copper braided shield, shielding rate ≥85%.
- Oil-resistant PVC flame retardant sheath.

◆ 规格参数

- 护套颜色: 黑·灰·橙·绿
- 获得标准: 非标或 UL
- UL文件No.: 20276
- 额定电压: 30V
- 耐燃性: FT2/VW-1

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard or UL
- UL file No.: 20276
- Rated voltage: 30V
- Flame resistance: FT2/VW-1

◆ 移动参数

- 使用温度范围: -15 ~ +80
- 拖链次数 (万次): 200
- 拖链最小弯曲半径: -
- 固定敷设最小弯曲半径: 4D
- 最大架空速度: 0
- 最大加速度: 0

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 200
- Minimum bending radius of towing chain: -
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 0
- Maximum acceleration: 0

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
YM001	3X(1PX0.14mm ² -AB)+3X0.14mm ² -AB	7.7	71	1.9	133.0
YM002	4X(1PX0.14mm ² -AB)+2X1.0mm ²	9.2	113	14.0	133/18.1
YM003	5PX0.25mm ²	7.7	74	4.3	74.3
YM004	6PX0.25mm ²	8.2	86	4.0	74.3
YM005	3PX0.14mm ² +2X0.34mm ²	7.2	66	6.0	133//52.6
YM006	4X(1PX0.14mm ² -AB)+2X0.5mm ²	9.7	125	10.0	133/34.6

- 以上表格只列出一部分产品·需要更多规格请联系我们·(C=芯数 P=对绞)
The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)
- 以上数字仅为参考值·数字以最终规格书为准·
The above figures are for reference only, and the figures are subject to the final specification.

TPL-RM1 | PE绝缘·PVC护套弱移动测量系统电缆

TPL-RM1 | PE insulated and PVC sheathed weak mobile measurement system cable



Long towing distance	耐长拖链距离	★
Plasticity	柔软性	★★★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★

※ 上图仅作为特性参考使用
※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 绝缘护套采用超柔软的PVC材料
- 适合于中低速运动场合的电线布线场合
- 带屏蔽，抗干扰性能优越
- Rohs环保对应

◆ key property

- Obtained the US UL758 certification.
- The insulating sheath is made of ultra-soft PVC material.
- Suitable for low-speed sports occasions of wiring occasions.
- With shielding, excellent anti-interference performance.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用6类多股绞合导体，柔韧性好
- 柔软PVC阻燃绝缘
- 不同物料号采用单独设计方案（更多细节参见数据规格表）
- 铝箔绕包
- 镀锡铜编织屏蔽，屏蔽率≥85%
- 柔软PVC阻燃护套

◆ Construction of cable

- Adopt 6 kinds of multi-stranded conductor, good flexibility.
- Soft PVC flame retardant insulation
- Different material numbers adopt separate design schemes (see data specification table for more details).
- Aluminum foil wrapping.
- Tinned copper braided shield, shielding rate ≥85%.
- Soft PVC flame retardant sheath.

◆ 规格参数

- 护套颜色：黑、灰、橙、绿
- 获得标准：非标或 UL
- UL文件No.：20276
- 额定电压：30V
- 耐燃性：FT2/VW-1

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard or UL
- UL file No.: 20276
- Rated voltage: 30V
- Flame resistance: FT2/VW-1

◆ 移动参数

- 使用温度范围：-15 ~ +80
- 拖链次数（万次）：500
- 拖链最小弯曲半径：10D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：2
- 最大加速度：20

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 500
- Minimum bending radius of towing chain: 10D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 2
- Maximum acceleration: 20

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
RM001	3X(1PX0.14mm ² -AB)+3X0.14mm ² -AB	7.7	71	1.9	133.0
RM002	4X(1PX0.14mm ² -AB)+2X1.0mm ²	9.2	113	14.0	133/18.1
RM003	5PX0.25mm ²	7.7	74	4.3	74.3
RM004	6PX0.25mm ²	8.2	86	4.0	74.3
RM005	3PX0.14mm ² +2X0.34mm ²	7.2	66	6.0	133/52.6
RM006	4X(1PX0.14mm ² -AB)+2X0.5mm ²	9.7	125	10.0	133/34.6

- 以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）
The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)
- 以上数字仅为参考值，数字以最终规格书为准。
The above figures are for reference only, and the figures are subject to the final specification.

TPL-TM1 | PVC绝缘 · PVC护套中高速测量系统电缆

TPL-TM1 | PVC insulated, PVC sheathed high speed measurement system cable



Long towing distance	耐长拖链距离	★★
Plasticity	柔软性	★★★★
Weather ability	耐候性	★★★
Oil resistivity	耐油性	★★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★

※ 上图仅作为特性参考使用
※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 适合小弯曲半径布线
- 中高速首选
- 阻燃性能优
- 带屏蔽，抗干扰性能优越
- Rohs环保对应

◆ key property

- Obtained the US UL758 certification.
- Suitable for wiring with small bending radius.
- First choice for medium and high speed.
- Excellent flame retardant performance.
- With shielding, excellent anti-interference performance.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- 耐热柔软PVC阻燃绝缘
- 不同物料号采用单独设计方案（更多细节参见数据规格表）
- 铝箔烧包
- 镀锡铜编织屏蔽，屏蔽率≥85%
- 耐热柔软PVC阻燃护套

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- Heat-resistant soft PVC flame-retardant insulation.
- Different material numbers adopt separate design schemes (see data specification table for more details).
- Aluminum foil wrapping.
- Tinned copper braided shield, shielding rate ≥85%.
- Heat-resistant soft PVC flame retardant sheath.

◆ 规格参数

- 护套颜色：黑、灰、橙、绿
- 获得标准：非标or UL
- UL文件No.：20276
- 额定电压：30V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard or UL
- UL file No.: 20276
- Rated voltage: 30V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-20 ~ +105
- 拖链次数（万次）：1000
- 拖链最小弯曲半径：8D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：20

◆ Moving parameter

- Operating temperature range: -20 ~ +105
- Number of drag chains (one million time): 1000
- Minimum bending radius of towing chain: 8D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 20

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
TM001	3X(1PX0.14mm ² -AB)+3X0.14mm ² -AB	7.7	71	1.9	133.0
TM002	4X(1PX0.14mm ² -AB)+2X1.0mm ²	9.2	113	14.0	133/18.1
TM003	5PX0.25mm ²	7.7	74	4.3	74.3
TM004	6PX0.25mm ²	8.2	86	4.0	74.3
TM005	3PX0.14mm ² +2X0.34mm ²	7.2	66	6.0	133//52.6
TM006	4X(1PX0.14mm ² -AB)+2X0.5mm ²	9.7	125	10.0	133/34.6

- 1.以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）
The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)
- 2.以上数字仅为参考值，数字以最终规格书为准。
The above figures are for reference only, and the figures are subject to the final specification.

TPL-HM1 | PVC绝缘·PVC耐油护套高速测量系统电缆

TPL-HM1 | PVC insulated, PVC oil resistant sheathed high-speed measurement system cable



UL high speed oil proof signal line power cord shield RoHS



Long towing distance	耐长拖链距离	★★★★
Plasticity	柔软性	★★★★★
Weather ability	耐候性	★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★★
Torsion resistance	耐扭转性	★★
Swing resistance	耐摇摆性	★★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 护套采用日本柔软改性PVC护套，耐油、耐磨
- 适合机床等油污腐蚀严重的环境
- 中高速首选
- 阻燃性能优
- 带屏蔽，抗干扰性能优越
- Rohs环保对应

◆ key property

- Obtained the US UL758 certification.
- The sheath adopts Japanese soft modified PVC sheath, which is oil-resistant and wear-resistant.
- Suitable for machine tools and other environments with serious oil pollution and corrosion.
- First choice for medium and high speed.
- Excellent flame retardant performance.
- With shielding, excellent anti-interference performance.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- 耐热柔软PVC阻燃绝缘
- 不同物料号采用单独设计方案（更多细节参见数据规格表）
- 铝箔烧包
- 镀锡铜编织屏蔽，屏蔽率≥85%
- 改性PVC阻燃护套

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- Heat-resistant soft PVC flame-retardant insulation
- Different material numbers adopt separate design schemes (see data specification table for more details).
- Aluminum foil wrapping
- Tinned copper braided shield, shielding rate ≥85%
- Modified PVC flame retardant sheath

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标or UL
- UL文件No.：20276
- 额定电压：30V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard or UL
- UL file No.: 20276
- Rated voltage: 30V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-20 ~ +105
- 拖链次数（万次）：1000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：30

◆ Moving parameter

- Operating temperature range: -20 ~ +105
- Number of drag chains (one million time): 1000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 30

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
HM001	3X(1PX0.14mm ² -AB)+3X0.14mm ² -AB	7.7	71	1.9	133.0
HM002	4X(1PX0.14mm ² -AB)+2X1.0mm ²	9.2	113	14.0	133/18.1
HM003	5PX0.25mm ²	7.7	74	4.3	74.3
HM004	6PX0.25mm ²	8.2	86	4.0	74.3
HM005	3PX0.14mm ² +2X0.34mm ²	7.2	66	6.0	133//52.6
HM006	4X(1PX0.14mm ² -AB)+2X0.5mm ²	9.7	125	10.0	133/34.6

1.以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (C = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-MM1 | PVC绝缘·TPU护套高速测量系统电缆

TPL-MM1 | PVC insulated, TPU sheathed high speed measurement system cable



Long towing distance	耐长拖链距离	★★★★
Plasticity	柔软性	★★★
Weather ability	耐候性	★★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 环保TPU护套·抗拉·耐油·耐磨·耐气候·抗水解和微生物
- 适合于高速、长拖链运动场合的电线布线场合
- 带屏蔽·抗干扰性能优越
- Rohs环保对应

◆ key property

- Environmentally friendly TPU sheath, tensile, oil resistant, wear-resistant, weather resistant, hydrolysis resistant, and microbial resistant.
- Suitable for high-speed, long chain movement of the wire wiring occasions.
- With shielding, superior anti-interference performance.
- Rohs Environmental Protection Correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体·柔韧性好
- 耐热柔软PVC阻燃绝缘
- 不同物料号采用单独设计方案 (更多细节参见数据规格表)
- 铝箔绕包
- 镀锡铜编织屏蔽·屏蔽率≥85%
- 耐油·耐磨TPU阻燃护套

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- Heat-resistant soft PVC flame-retardant insulation.
- Different material numbers adopt separate design schemes (see data specification table for more details).
- Aluminum foil wrapping.
- Tinned copper braided shield, shielding rate ≥85%.
- Oil-resistant and wear-resistant TPU flame retardant sheath.

◆ 规格参数

- 护套颜色: 黑
- 获得标准: 非标
- UL文件No.: -
- 额定电压: 30V
- 耐燃性: VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard
- UL file No.: -
- Rated voltage: 30V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围: -40 ~ +80
- 拖链次数 (万次): 2000
- 拖链最小弯曲半径: 6D
- 固定敷设最小弯曲半径: 4D
- 最大架空速度: 3
- 最大加速度: 30

◆ Moving parameter

- Operating temperature range: -40 ~ +80
- Number of drag chains (one million time): 2000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 30

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
MM001	3X(1PX0.14mm ² -AB)+3X0.14mm ² -AB	7.7	71	1.9	133.0
MM002	4X(1PX0.14mm ² -AB)+2X1.0mm ²	9.2	113	14.0	133/18.1
MM003	5PX0.25mm ²	7.7	74	4.3	74.3
MM004	6PX0.25mm ²	8.2	86	4.0	74.3
MM005	3PX0.14mm ² +2X0.34mm ²	7.2	66	6.0	133//52.6
MM006	4X(1PX0.14mm ² -AB)+2X0.5mm ²	9.7	125	10.0	133/34.6

1. 以上表格只列出部分产品, 需要更多规格请联系我们. (C=芯数 P=对绞)

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2. 以上数字仅为参考值, 数字以最终规格书为准.

The above figures are for reference only, and the figures are subject to the final specification.

TPL-MXM1 | TPE绝缘·TPU护套超长、超高速测量电缆

TPL-MXM1 | TPE insulated, TPU sheathed ultra long, ultra high speed measurement cable

超长超高速运动 耐油 耐磨 信号线 电源线 屏蔽 RoHS

overlength hypervelocity motion oil proof abrasion resistant signal line power cord shield RoHS



Long towing distance	耐长拖链距离	★★★★★
Plasticity	柔软性	★★
Weather ability	耐候性	★★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★★
Torsion resistance	耐扭转性	★★★★★
Swing resistance	耐摇摆性	★★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★★

※ 上图仅作为特性参考使用
※ The above picture is only used as a characteristic reference

◆ 主要特性

- 环保TPU护套，抗拉、耐油、耐磨、耐气候、抗水解和微生物
- 适合于高速、长拖链运动场合的电线布线场合
- 带屏蔽，抗干扰性能优越
- Rohs环保对应

◆ key property

- Environmentally friendly TPU sheath, tensile, oil resistant, wear-resistant, weather resistant, hydrolysis resistant, and microbial resistant.
- Suitable for high-speed, long chain movement of the wire wiring occasions.
- With shielding, superior anti-interference performance.
- Rohs Environmental Protection Correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- 绝缘采用弹性XLPE材料，抗拉
- 不同物料号采用单独设计方案（更多细节参见数据规格表）
- 铝箔绕包
- 镀锡铜编织屏蔽，屏蔽率≥85%
- 环保TPU阻燃护套

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- The insulation is made of elastic XLPE material and tensile.
- Different material numbers adopt separate design schemes (see data specification table for more details).
- Aluminum foil wrapping.
- Tinned copper braided shield, shielding rate ≥85%.
- Environment-friendly TPU flame-retardant sheath.

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标
- UL文件No.：-
- 额定电压：30V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard
- UL file No.: -
- Rated voltage: 30V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-40 ~ +80
- 拖链次数（万次）：5000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：10
- 最大加速度：80

◆ Moving parameter

- Operating temperature range: -40 ~ +80
- Number of drag chains (one million time): 5000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 10
- Maximum acceleration: 80

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
MXM001	3X(1PX0.14mm ² -AB)+3X0.14mm ² -AB	7.7	71	1.9	133.0
MXM002	4X(1PX0.14mm ² -AB)+2X1.0mm ²	9.2	113	14.0	133/18.1
MXM003	5PX0.25mm ²	7.7	74	4.3	74.3
MXM004	6PX0.25mm ²	8.2	86	4.0	74.3
MXM005	3PX0.14mm ² +2X0.34mm ²	7.2	66	6.0	133//52.6
MXM006	4X(1PX0.14mm ² -AB)+2X0.5mm ²	9.7	125	10.0	133/34.6

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The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。
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伺服电缆



TPL-GS3 | PVC绝缘 · PVC护套固定伺服电缆

TPL-GS3 | PVC insulation, PVC sheath fixed Servo Cable



fixed wiring power cord shield RoHS



Long towing distance	耐长拖链距离	★
Plasticity	柔软性	★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★
Life test of electric towing chain	电拖链测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 采用5、6类绞合导体
- 适合于非运动场合的电线布线场合
- 带屏蔽 · 抗干扰性能优越
- Rohs环保对应

◆ key property

- Class 5 and 6 stranded conductors are used.
- Suitable for wire wiring in non-sports situations.
- With shielding, excellent anti-interference performance.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用5、6类多股绞合导体
- PVC阻燃绝缘
- 不同物料号采用单独设计方案 (更多细节参见数据规格表)
- 铝箔绕包
- 镀锡铜编织屏蔽 · 屏蔽率 ≥ 85%
- 黑色PVC阻燃护套

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- PVC flame retardant insulation.
- Different material numbers adopt separate design schemes (see data specification table for more details).
- Aluminum foil wrapping.
- Tinned copper braided shield, shielding rate ≥ 85%.
- Black PVC flame retardant sheath.

◆ 规格参数

- 护套颜色: 黑
- 获得标准: 非标
- UL文件No.: -
- 额定电压: 600/1000V
- 耐燃性: FT2/VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard
- UL file No.: -
- Rated voltage: 600/1000V
- Flame resistance: FT2/VW-1

◆ 移动参数

- 使用温度范围: -15 ~ +80
- 拖链次数 (万次): 200
- 拖链最小弯曲半径: -
- 固定敷设最小弯曲半径: 4D
- 最大架空速度: 0
- 最大加速度: 0

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 200
- Minimum bending radius of towing chain: -
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 0
- Maximum acceleration: 0

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
GS001	4GX0.75mm ² +2X0.34mm ² -AB+2X0.3mm ² -AB	11.7	221	9.0	55.4/24.4
GS002	4GX1.0mm ² +2X0.75mm ² -AB+2X0.3mm ² -AB	12.2	257	10.6	24.4/18.1
GS003	4GX1.5mm ² +2X0.75mm ² -AB+2X0.4mm ² -AB	13.2	294	13.3	24.4/12.2
GS004	4GX2.5mm ² +2X1.0mm ² -AB+2X0.5mm ² -AB	14.5	362	18.3	34.6/18.1/7.6

1.以上表格只列出一部分产品 · 需要更多规格请联系我们 · (C=芯数 P=对绞)

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值 · 数字以最终规格书为准 ·

The above figures are for reference only, and the figures are subject to the final specification.

伺服电缆

控制电缆
数据传输电缆
总线电缆
测量系统电缆
动力电缆
机器人可扭转电缆
新能源交流充电桩线
汽车线薄壁
无尘线缆
国标电线
耐高温电缆
拖链排线
日系PSE认证电缆

TPL-YS3 | PVC绝缘 · PVC耐油护套固定伺服电缆

TPL-YS3 | PVC insulation, PVC oil-resistant sheath fixed Servo Cable

固定布线

电源线

屏蔽

RoHS

fixed wiring power cord shield RoHS



Long towing distance	耐长拖链距离	★
Plasticity	柔软性	★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★
Life test of electric towing chain	电拖链寿命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★

※ 上图仅作为特性参考使用
※ The above picture is only used as a characteristic reference

◆ 主要特性

- 采用5、6类绞合导体
- 适合于非运动场合的电线布线场合
- 适合机床等油污腐蚀严重的环境
- 带屏蔽，抗干扰性能优越
- Rohs环保对应

◆ 电缆结构

- 采用5、6类多股绞合导体
- PVC阻燃绝缘
- 不同物料号采用单独设计方案 (更多细节参见数据规格表)
- 铝箔绕包
- 镀锡铜编织屏蔽，屏蔽率≥85%
- 耐油PVC阻燃护套

◆ 规格参数

- 护套颜色：黑、灰、橙、绿
- 获得标准：非标
- UL文件No.：-
- 额定电压：600/1000V
- 耐燃性：FT2/VW-1

◆ 移动参数

- 使用温度范围：-15 ~ +80
- 拖链次数（万次）：200
- 拖链最小弯曲半径：-
- 固定敷设最小弯曲半径：4D
- 最大架空速度：0
- 最大加速度：0

◆ key property

- Class 5 and 6 stranded conductors are used.
- Suitable for wire wiring in non-sports situations.
- Suitable for machine tools and other environments with serious oil pollution and corrosion.
- With shielding, excellent anti-interference performance.
- Rohs environmental protection correspondence.

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- PVC flame retardant insulation.
- Different material numbers adopt separate design schemes (see data specification table for more details).
- Aluminum foil wrapping.
- Tinned copper braided shield, shielding rate ≥85%.
- Oil-resistant PVC flame retardant sheath.

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard
- UL file No.: -
- Rated voltage: 600/1000V
- Flame resistance: FT2/VW-1

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 200
- Minimum bending radius of towing chain: -
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 0
- Maximum acceleration: 0

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
YS001	4GX0.75mm ² +2X0.34mm ² -AB+2X0.3mm ² -AB	11.7	221	9.0	55.4/24.4
YS002	4GX1.0mm ² +2X0.75mm ² -AB+2X0.3mm ² -AB	12.2	257	10.6	24.4/18.1
YS003	4GX1.5mm ² +2X0.75mm ² -AB+2X0.4mm ² -AB	13.2	294	13.3	24.4/12.2
YS004	4GX2.5mm ² +2X1.0mm ² -AB+2X0.5mm ² -AB	14.5	362	18.3	34.6/18.1/7.6

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The above table only lists some products. Please contact us if you need more specifications. (C= core number P= Pair of twisted)
2.以上数字仅为参考值，数字以最终规格书为准。
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TPL-RS3 | PE绝缘 · PVC护套弱移动伺服电缆

TPL-RS3 | PE insulation, PVC sheath weak mobile Servo Cable



medium-low power/cord shield RoHS



Long towing distance	耐长拖链距离	★
Plasticity	柔软性	★★★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★★
Life test of electric towing chain	电拖链寿命测试	★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 绝缘护套采用超柔软的PVC材料
- 适合于中低速运动场合的电线电缆场合
- 带屏蔽 · 抗干扰性能优越
- Rohs环保对应

◆ 电缆结构

- 采用6类多股绞合导体 · 柔韧性好
- 柔软PVC阻燃绝缘
- 不同物料号采用单独设计方案 (更多细节参见数据规格表)
- 铝箔绕包
- 镀锡铜编织屏蔽 · 屏蔽率 ≥ 85%
- 柔软PVC阻燃护套

◆ 规格参数

- 护套颜色: 黑 · 灰 · 橙 · 绿
- 获得标准: 非标
- UL文件No.: -
- 额定电压: 600/1000V
- 耐燃性: FT2/VW-1

◆ 移动参数

- 使用温度范围: -15 ~ +80
- 拖链次数 (万次): 500
- 拖链最小弯曲半径: 10D
- 固定敷设最小弯曲半径: 4D
- 最大架空速度: 2
- 最大加速度: 20

◆ key property

- The insulating sheath is made of ultra-soft PVC material.
- Suitable for low-speed sports occasions of wiring occasions.
- With shielding, excellent anti-interference performance.
- Rohs environmental protection correspondence.

◆ Construction of cable

- Adopt 6 kinds of multi-stranded conductor, good flexibility.
- Soft PVC flame retardant insulation.
- Different material numbers adopt separate design schemes (see data specification table for more details).
- Aluminum foil wrapping.
- Tinned copper braided shield, shielding rate ≥ 85%.
- Soft PVC flame retardant sheath.

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard
- UL file No.: -
- Rated voltage: 600/1000V
- Flame resistance: FT2/VW-1

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 500
- Minimum bending radius of towing chain: 10D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 2
- Maximum acceleration: 20

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
RS001	4GX0.75mm ² +2X0.34mm ² -AB+2X0.3mm ² -AB	11.7	223	9.0	55.4/24.4
RS002	4GX1.0mm ² +2X0.75mm ² -AB+2X0.3mm ² -AB	12.2	260	10.6	24.4/18.1
RS003	4GX1.5mm ² +2X0.75mm ² -AB+2X0.4mm ² -AB	13.2	295	13.3	24.4/12.2
RS004	4GX2.5mm ² +2X1.0mm ² -AB+2X0.5mm ² -AB	14.5	365	18.3	34.6/18.1/7.6

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The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

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TPL-TS3 | PVC绝缘·PVC护套中高速伺服电缆

TPL-TS3 | PVC insulated and PVC sheathed medium and high speed Servo Cable



Long towing distance	耐长拖链距离	★★
Plasticity	柔软性	★★★★
Weather ability	耐候性	★★★★
Oil resistivity	耐油性	★★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 适合小弯曲半径布线
- 中高速首选
- 阻燃性能优
- 带屏蔽，抗干扰性能优越
- Rohs环保对应

◆ key property

- Obtain UL758 certification in the United States.
- Suitable for wiring with small bending radius.
- First choice for medium and high speed.
- Excellent flame retardant performance.
- With shielding, excellent anti-interference performance.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- 耐热柔软PVC阻燃绝缘
- 不同物料号采用单独设计方案（更多细节参见数据规格表）
- 铝箔绕包
- 镀锡铜编织屏蔽，屏蔽率≥85%
- 耐热柔软PVC阻燃护套

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- Heat-resistant soft PVC flame-retardant insulation.
- Different material numbers adopt separate design schemes (see data specification table for more details).
- Aluminum foil wrapping.
- Tinned copper braided shield, shielding rate ≥85%.
- Heat-resistant soft PVC flame retardant sheath.

◆ 规格参数

- 护套颜色：黑、灰、橙、绿
- 获得标准：非标or UL
- UL文件No.：2501
- 额定电压：600/1000V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard or UL
- UL file No.: 2501
- Rated voltage: 600/1000V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-20 ~ +105
- 拖链次数（万次）：1000
- 拖链最小弯曲半径：8D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：20

◆ Moving parameter

- Operating temperature range: -20 ~ +105
- Number of drag chains (one million time): 1000
- Minimum bending radius of towing chain: 8D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 20

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
TS001	4GX0.75mm ² +2X0.34mm ² -AB+2X0.3mm ² -AB	11.9	225	9.0	55.4/24.4
TS002	4GX1.0mm ² +2X0.75mm ² -AB+2X0.3mm ² -AB	12.4	262	10.6	24.4/18.1
TS003	4GX1.5mm ² +2X0.75mm ² -AB+2X0.4mm ² -AB	13.5	298	13.3	24.4/12.2
TS004	4GX2.5mm ² +2X1.0mm ² -AB+2X0.5mm ² -AB	14.8	370	18.3	34.6/18.1/7.6

1.以上表格只列出一部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

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TPL-HS3 | PVC绝缘·PVC耐油护套高速伺服电缆

TPL-HS3 | PVC insulation, PVC oil-resistant sheath high-speed Servo Cable



Long towing distance	耐长拖链距离	★★★★
Plasticity	柔软性	★★★★
Weather ability	耐候性	★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 护套采用日本柔软改性PVC护套，耐油、耐磨
- 适合机床等油污腐蚀严重的环境
- 中高速首选
- 阻燃性能优
- 带屏蔽，抗干扰性能优越
- Rohs环保对应

◆ key property

- Obtained the US UL758 certification.
- The sheath adopts Japanese soft modified PVC sheath, which is oil-resistant and wear-resistant.
- Suitable for machine tools and other environments with serious oil pollution and corrosion.
- First choice for medium and high speed.
- Excellent flame retardant performance.
- With shielding, excellent anti-interference performance.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- 耐热柔软PVC阻燃绝缘
- 不同物料号采用单独设计方案（更多细节参见数据规格表）
- 铝箔绕包
- 镀锡铜编织屏蔽，屏蔽率>85%
- 改性PVC阻燃护套

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- Heat-resistant soft PVC flame-retardant insulation.
- Different material numbers adopt separate design schemes (see data specification table for more details).
- Aluminum foil wrapping.
- Tinned copper braided shield, shielding rate >85%.
- Modified PVC flame retardant sheath.

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标or UL
- UL文件No.：2501
- 额定电压：600/1000V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard or UL
- UL file No.: 2501
- Rated voltage: 600/1000V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-20 ~ +105
- 拖链次数（万次）：1000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：30

◆ Moving parameter

- Operating temperature range: -20 ~ +105
- Number of drag chains (one million time): 1000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 30

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
HS001	4GX0.75mm ² +2X0.34mm ² -AB+2X0.3mm ² -AB	11.9	225	9.0	55.4/24.4
HS002	4GX1.0mm ² +2X0.75mm ² -AB+2X0.3mm ² -AB	12.4	262	10.6	24.4/18.1
HS003	4GX1.5mm ² +2X0.75mm ² -AB+2X0.4mm ² -AB	13.5	298	13.3	24.4/12.2
HS004	4GX2.5mm ² +2X1.0mm ² -AB+2X0.5mm ² -AB	14.8	370	18.3	34.6/18.1/7.6

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TPL-MS3 | PVC绝缘·TPU护套高速伺服电缆

TPL-MS3 | PVC insulated, TPU sheathed high-speed Servo Cable



UL hypervelocity oil proof abrasion power cord shield RoHS



Long towing distance	耐长拖链距离	★★★★
Plasticity	柔软性	★★★
Weather ability	耐候性	★★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 环保TPU护套，抗拉、耐油、耐磨、耐气候、抗水解和微生物
- 适合于高速、长拖链运动场合的电线布线场合
- 带屏蔽，抗干扰性能优越
- Rohs环保对应

◆ key property

- Obtained the US UL758 certification.
- Environmental protection TPU sheath, tensile, oil-resistant, wear-resistant, weather-resistant, anti-hydrolysis and micro-organisms.
- Suitable for high-speed, long chain movement of the wire wiring occasions.
- With shielding, excellent anti-interference performance.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- 耐热柔软PVC阻燃绝缘
- 不同物料号采用单独设计方案（更多细节参见数据规格表）
- 铝箔绕包
- 镀锡铜编织屏蔽，屏蔽率>85%
- 耐油，耐磨TPU阻燃护套

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- Heat-resistant soft PVC flame-retardant insulation.
- Different material numbers adopt separate design schemes (see data specification table for more details).
- Aluminum foil wrapping.
- Tinned copper braided shield, shielding rate >85%.
- Oil-resistant and wear-resistant TPU flame retardant sheath.

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标or UL
- UL文件No.：20939
- 额定电压：600/1000V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard or UL
- UL file No.: 20939
- Rated voltage: 600/1000V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-40~+80
- 拖链次数（万次）：2000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：30

◆ Moving parameter

- Operating temperature range: -40~+80
- Number of drag chains (one million time): 2000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 30

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
MS001	4GX0.75mm ² +2X0.34mm ² -AB+2X0.3mm ² -AB	11.9	225	9.0	55.4/24.4
MS002	4GX1.0mm ² +2X0.75mm ² -AB+2X0.3mm ² -AB	12.4	262	10.6	24.4/18.1
MS003	4GX1.5mm ² +2X0.75mm ² -AB+2X0.4mm ² -AB	13.5	298	13.3	24.4/12.2
MS004	4GX2.5mm ² +2X1.0mm ² -AB+2X0.5mm ² -AB	14.8	370	18.3	34.6/18.1/7.6

1.以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-MXS3 | TPE绝缘 · TPU护套超长、超高速伺服电缆

TPL-MXS3 | TPE insulated, TPU sheathed ultra long, ultra high speed servo cable



UL overlength proof hypervelocity motion oil proof abrasion power cord shield RoHS



Long towing distance	耐长拖链距离	★★★★★
Plasticity	柔软性	★★
Weather ability	耐候性	★★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★★
Torsion resistance	耐扭转性	★★★★★
Swing resistance	耐摇摆性	★★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 绝缘采用弹性XLPE材料，抗拉
- 环保TPU护套，抗拉、耐油、耐磨、耐气候、抗水解和微生物
- 适合于高速、长拖链运动场合的电线布线场合
- 带屏蔽，抗干扰性能优越
- Rohs环保对应

◆ key property

- Obtaining US UL758 certification.
- The insulation is made of elastic XLPE material, with tensile strength.
- Environmental protection TPU sheath, tensile, oil-resistant, wear-resistant, weather-resistant, anti-hydrolysis and micro-organisms.
- Suitable for high-speed, long chain movement of the wire wiring occasions.
- With shielding, superior anti-interference performance.
- Rohs Environmental Protection Correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- 绝缘采用弹性XLPE材料，抗拉
- 不同物料号采用单独设计方案（更多细节参见数据规格表）
- 铝箔绕包
- 镀锡铜编织屏蔽，屏蔽率≥85%
- 环保TPU阻燃护套

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- The insulation is made of elastic XLPE material and tensile.
- Different material numbers adopt separate design schemes (see data specification table for more details).
- Aluminum foil wrapping.
- Tinned copper braided shield, shielding rate ≥85%.
- Environment-friendly TPU flame-retardant sheath.

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标or UL
- UL文件No.：20939
- 额定电压：600/1000V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard or UL
- UL file No.: 20939
- Rated voltage: 600/1000V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-40 ~ +80
- 拖链次数（万次）：5000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：10
- 最大加速度：80

◆ Moving parameter

- Operating temperature range: -40 ~ +80
- Number of drag chains (one million time): 5000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 10
- Maximum acceleration: 80

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
MXS001	4GX0.75mm ² +2X0.34mm ² -AB+2X0.3mm ² -AB	11.9	225	9.0	55.4/24.4
MXS002	4GX1.0mm ² +2X0.75mm ² -AB+2X0.3mm ² -AB	12.4	262	10.6	24.4/18.1
MXS003	4GX1.5mm ² +2X0.75mm ² -AB+2X0.4mm ² -AB	13.5	298	13.3	24.4/12.2
MXS004	4GX2.5mm ² +2X1.0mm ² -AB+2X0.5mm ² -AB	14.8	370	18.3	34.6/18.1/7.6

1 以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (C=core number P=Pair of twisted)

2 以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

动力电缆



TPL-GZ2 | PVC绝缘 · PVC护套固定动力电缆

TPL-GZ2 | PVC insulation, PVC sheath fixed power cable



UL fixed wiring power cord RoHS



Long towing distance	耐长拖链距离	
Plasticity	柔软性	★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★
Life test of electric towing chain	电拖链寿命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 采用5、6类绞合导体
- 适合于非运动场合的电线布线场合
- Rohs环保对应

◆ key property

- Obtained the US UL758 certification.
- Class 5 and 6 stranded conductors are used.
- Suitable for wire wiring in non-sports situations.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用5、6类多股绞合导体
- PVC阻燃绝缘
- 芯线以短节距绞合在一起
- 无纺布绕包
- 黑色PVC阻燃护套

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- PVC flame retardant insulation.
- The core wires are twisted together at a short pitch.
- Nonwoven fabric wrapping.
- Black PVC flame retardant sheath.

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标
- UL文件No.：-
- 额定电压：600/1000V
- 耐燃性：FT2/VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard
- UL file No.: -
- Rated voltage: 600/1000V
- Flame resistance: FT2/VW-1

◆ 移动参数

- 使用温度范围：-15 ~ +80
- 拖链次数（万次）：200
- 拖链最小弯曲半径：-
- 固定敷设最小弯曲半径：4D
- 最大架空速度：0
- 最大加速度：0

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 200
- Minimum bending radius of towing chain: -
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 0
- Maximum acceleration: 0

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
GZ001	4c	2.5	9.0	174	17.4
GZ002		4.0	11.0	268	23.7
GZ003		6.0	14.3	412	31.8
GZ004		10.0	18.0	663	44.0
GZ005		16.0	21.3	980	59.3

1.以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-GZ2 | PVC绝缘 · PVC护套固定动力电缆

TPL-GZ2 | PVC insulation, PVC sheath fixed power cable



UL fixed wiring powercord shield RoHS



Long towing distance	耐长拖链距离	
Plasticity	柔软性	★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★
Life test of electric towing chain	电拖链寿命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 采用5、6类绞合导体
- 适合于非运动场合的电线电缆场合
- 带屏蔽，抗干扰性能优越（-SB使用）
- Rohs环保对应

◆ 电缆结构

- 采用5、6类多股绞合导体
- PVC阻燃绝缘
- 芯线以短节距绞合在一起
- 无纺布绕包
- 镀锡铜编织屏蔽，屏蔽率≥85%（-SB使用）
- 黑色PVC阻燃护套

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标
- UL文件No.：-
- 额定电压：600/1000V
- 耐燃性：FT2/VW-1

◆ 移动参数

- 使用温度范围：-15 ~ +80
- 拖链次数（万次）：200
- 拖链最小弯曲半径：-
- 固定敷设最小弯曲半径：4D
- 最大架空速度：0
- 最大加速度：0

◆ key property

- Obtained the US UL758 certification.
- Class 5 and 6 stranded conductors are used.
- Suitable for wire wiring in non-sports situations.
- With shielding, excellent anti-interference performance (-SB use).
- Rohs environmental protection correspondence.

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- PVC flame retardant insulation.
- The core wires are twisted together at a short pitch.
- Nonwoven fabric wrapping.
- Tinned copper braided shield, shielding rate ≥ 85% (for-SB use).
- Black PVC flame retardant sheath.

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard
- UL file No.: -
- Rated voltage: 600/1000V
- Flame resistance: FT2/VW-1

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 200
- Minimum bending radius of towing chain: -
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 0
- Maximum acceleration: 0

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
GZ006	4c	2.5	9.5	205	17.7
GZ007		4.0	11.5	306	24.0
GZ008		6.0	14.8	463	32.2
GZ009		10.0	18.5	729	44.4
GZ010		16.0	21.8	1060	59.8

1.以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-YZ2 | PVC绝缘 · PVC耐油护套固定动力电缆

TPL-YZ2 | PVC insulated, PVC oil-resistant sheath fixed power cable



UL fixed wiring oil proof power cord RoHS



Long towing distance	耐长拖链距离	
Plasticity	柔软性	★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★
Life test of electric towing chain	电拖链寿命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 采用5、6类绞合导体
- 适合于非运动场合的电线电缆场合
- 适合机床等油污腐蚀严重的环境
- Rohs环保对应

◆ key property

- Obtained the US UL758 certification.
- Class 5 and 6 stranded conductors are used.
- Suitable for wire wiring in non-sports situations.
- Suitable for machine tools and other environments with serious oil pollution and corrosion.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用5、6类多股绞合导体
- PVC阻燃绝缘
- 芯线以短节距绞合在一起
- 无纺布绕包
- 耐油PVC阻燃护套

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- PVC flame retardant insulation.
- The core wires are twisted together at a short pitch.
- Nonwoven fabric wrapping.
- Oil-resistant PVC flame retardant sheath.

◆ 规格参数

- 护套颜色: 黑、灰、橙、绿
- 获得标准: 非标
- UL文件No.: -
- 额定电压: 600/1000V
- 耐燃性: FT2/VW-1

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard
- UL file No.: -
- Rated voltage: 600/1000V
- Flame resistance: FT2/VW-1

◆ 移动参数

- 使用温度范围: -15 ~ +80
- 拖链次数 (万次): 200
- 拖链最小弯曲半径: -
- 固定敷设最小弯曲半径: 4D
- 最大架空速度: 0
- 最大加速度: 0

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 200
- Minimum bending radius of towing chain: -
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 0
- Maximum acceleration: 0

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
YZ001	4c	2.5	9.0	17.4	7.4
YZ002		4.0	11.0	26.8	4.6
YZ003		6.0	14.3	41.2	3.1
YZ004		10.0	18.0	66.3	1.9
YZ005		16.0	21.3	98.0	1.2

1. 以上表格只列出部分产品, 需要更多规格请联系我们。(C=芯数 P=对数)

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2. 以上数字仅为参考值, 数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-YZ2 | PVC绝缘·PVC耐油护套固定动力电缆

TPL-YZ2 | PVC insulated, PVC oil-resistant sheath fixed power cable

UL

固定布线

耐油

电源线

屏蔽

RoHS

UL

fixed wiring

oilproof

power cord

shield

RoHS



Long towing distance	耐长拖链距离	
Plasticity	柔软性	★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★
Life test of electric towing chain	电拖链寿命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★

※ 上图仅作为特性参考使用
※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 采用5、6类绞合导体
- 适合于非运动场合的电线布线场合
- 适合机床等油污腐蚀严重的环境
- 带屏蔽，抗干扰性能优越（-SB使用）
- Rohs环保对应

◆ key property

- Obtained the US UL758 certification.
- Class 5 and 6 stranded conductors are used.
- Suitable for wire wiring in non-sports situations.
- Suitable for machine tools and other environments with serious oil pollution and corrosion.
- With shielding, excellent anti-interference performance (-SB use).
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用5、6类多股绞合导体
- PVC阻燃绝缘
- 芯线以短节距绞合在一起
- 无纺布绕包
- 镀锡铜编织屏蔽，屏蔽率≥85%（-SB使用）
- 耐油PVC阻燃护套

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- PVC flame retardant insulation.
- The core wires are twisted together at a short pitch.
- Nonwoven fabric wrapping.
- Tinned copper braided shield, shielding rate ≥ 85% (for-SB use).
- Oil-resistant PVC flame retardant sheath.

◆ 规格参数

- 护套颜色：黑、灰、橙、绿
- 获得标准：非标
- UL文件No.：-
- 额定电压：600/1000V
- 耐燃性：FT2/VW-1

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard
- UL file No.: -
- Rated voltage: 600/1000V
- Flame resistance: FT2/VW-1

◆ 移动参数

- 使用温度范围：-15 ~ +80
- 拖链次数（万次）：200
- 拖链最小弯曲半径：-
- 固定敷设最小弯曲半径：4D
- 最大架空速度：0
- 最大加速度：0

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 200
- Minimum bending radius of towing chain: -
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 0
- Maximum acceleration: 0

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
YZ006	4c	9.5	205	17.7	7.4
YZ007		4.0	306	24.0	4.6
YZ008		6.0	463	32.2	3.1
YZ009		10.0	729	44.4	1.9
YZ010		16.0	1060	59.8	1.2

1.以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）
The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)
2.以上数字仅为参考值，数字以最终规格书为准。
The above figures are for reference only, and the figures are subject to the final specification.

TPL-RZ2 | PVC绝缘·PVC护套弱移动动力电缆

TPL-RZ2 | Weak Mobile Power Cable with PVC Insulation and PVC Sheath

UL

中低速运动

电源线

RoHS

UL medium-low power cord speed/motion RoHS



Long towing distance	耐长拖链距离	★
Plasticity	柔软性	★★★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链命测试	★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★

※ 上图仅作为特性参考使用
※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 绝缘护套采用超柔软的PVC材料
- 适合于中低速运动场合的电线布线场合
- Rohs环保对应

◆ 电缆结构

- 采用6类多股绞合导体，柔韧性好
- 柔软PVC阻燃绝缘
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 柔软PVC阻燃护套

◆ 规格参数

- 护套颜色：黑、灰、橙、绿
- 获得标准：非标
- UL文件No.：-
- 额定电压：600/1000V
- 耐燃性：FT2/VW-1

◆ 移动参数

- 使用温度范围：-15~+80
- 拖链次数（万次）：500
- 拖链最小弯曲半径：10D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：2
- 最大加速度：20

◆ key property

- Obtain UL758 certification in the United States.
- The insulating sheath is made of ultra-soft PVC material.
- Suitable for low-speed sports occasions of wiring occasions.
- Rohs environmental protection correspondence.

◆ Construction of cable

- Adopt 6 kinds of multi-stranded conductor, good flexibility.
- Soft PVC flame retardant insulation.
- The core wires are twisted together to optimize the short pitch.
- Nonwoven fabric wrapping.
- Soft PVC flame retardant sheath.

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard
- UL file No.: -
- Rated voltage: 600/1000V
- Flame resistance: FT2/VW-1

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 500
- Minimum bending radius of towing chain: 10D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 2
- Maximum acceleration: 20

◆ 规格

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
RZ001	4c	2.5	9.8	185	7.4
RZ002		4.0	12.0	284	4.6
RZ003		6.0	14.3	411	3.1
RZ004		10.0	18.0	661	1.9
RZ005		16.0	21.4	988	1.2

- 1.以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）
The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)
- 2.以上数字仅为参考值，数字以最终规格书为准。
The above figures are for reference only, and the figures are subject to the final specification.

◆ Specifications

TPL-RZ2 | PVC绝缘·PVC护套弱移动动力电缆

TPL-RZ2 | Weak Mobile Power Cable with PVC Insulation and PVC Sheath



UL medium-low power cord shield RoHS



Long towing distance	耐长拖链距离	★
Plasticity	柔软性	★★★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 绝缘护套采用超柔软的PVC材料
- 适合于中低速运动场合的电线电缆场合
- 带屏蔽，抗干扰性能优越（-SB使用）
- RoHS环保对应

◆ 电缆结构

- 采用6类多股绞合导体，柔韧性好
- 柔软PVC阻燃绝缘
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 镀锡铜编织屏蔽，屏蔽率≥85%（-SB使用）
- 柔软PVC阻燃护套

◆ 规格参数

- 护套颜色：黑、灰、橙、绿
- 获得标准：非标
- UL文件No.：-
- 额定电压：600/1000V
- 耐燃性：FT2/VW-1

◆ 移动参数

- 使用温度范围：-15 ~ +80
- 拖链次数（万次）：500
- 拖链最小弯曲半径：10D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：2
- 最大加速度：20

◆ key property

- Obtain UL758 certification in the United States.
- The insulating sheath is made of ultra-soft PVC material.
- Suitable for low-speed sports occasions of wiring occasions.
- With shielding, excellent anti-interference performance (-SB use).
- RoHS environmental protection correspondence.

◆ Construction of cable

- Adopt 6 kinds of multi-stranded conductor, good flexibility.
- Soft PVC flame retardant insulation.
- The core wires are twisted together to optimize the short pitch.
- Nonwoven fabric wrapping.
- Tinned copper braided shield, shielding rate ≥ 85% (for -SB use).
- Soft PVC flame retardant sheath.

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard
- UL file No.: -
- Rated voltage: 600/1000V
- Flame resistance: FT2/VW-1

◆ Moving parameter

- Operating temperature range: -15 ~ +80
- Number of drag chains (one million time): 500
- Minimum bending radius of towing chain: 10D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 2
- Maximum acceleration: 20

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
RZ006	4c	10.3	219	18.4	7.4
RZ007		4.0	328	24.9	4.6
RZ008		6.0	462	32.1	3.1
RZ009		10.0	726	44.3	1.9
RZ010		16.0	1068	60.1	1.2

1.以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-TZ2 | PVC绝缘·PVC护套中高速动力电缆

TPL-TZ2 | PVC insulated, PVC sheathed medium to high speed power cable



UL medium-high power cord speed motion RoHS



Long towing distance	耐长拖链距离	★★
Plasticity	柔软性	★★★★
Weather ability	耐候性	★★★★
Oil resistivity	耐油性	★★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 适合小弯曲半径布线
- 中高速首选
- 阻燃性能优
- Rohs环保对应

◆ key property

- Obtained the US UL758 certification.
- Suitable for wiring with small bending radius.
- First choice for medium and high speed.
- Excellent flame retardant performance.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- 耐热柔软PVC阻燃绝缘
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 耐热柔软PVC阻燃护套

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- Heat-resistant soft PVC flame-retardant insulation.
- The core wires are twisted together at an optimized short pitch.
- Nonwoven fabric wrapping.
- Heat-resistant soft PVC flame retardant sheath.

◆ 规格参数

- 护套颜色：黑、灰、橙、绿
- 获得标准：非标or UL
- UL文件No.：2501
- 额定电压：600/1000V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard or UL
- UL file No.: 2501
- Rated voltage: 600/1000V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-20~+105
- 拖链次数（万次）：1000
- 拖链最小弯曲半径：8D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：20

◆ Moving parameter

- Operating temperature range: -20~+105
- Number of drag chains (one million time): 1000
- Minimum bending radius of towing chain: 8D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 20

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
TZ001	4c	2.5	9.8	185	18.0
TZ002		4.0	12.0	283	24.4
TZ003		6.0	14.3	410	31.7
TZ004		10.0	18.1	667	44.2
TZ005		16.0	21.3	981	59.3

1.以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对数）

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2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-TZ2 | PVC绝缘·PVC护套中高速动力电缆

TPL-TZ2 | PVC insulated, PVC sheathed medium to high speed power cable



Long towing distance	耐长拖链距离	★★
Plasticity	柔软性	★★★★
Weather ability	耐候性	★★★★
Oil resistivity	耐油性	★★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★

※ 上图仅作为特性参考使用
※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 适合小弯曲半径布线
- 中高速首选
- 阻燃性能优
- 带屏蔽·抗干扰性能优越 (-SB使用)
- Rohs环保对应

◆ key property

- Obtained the US UL758 certification.
- Suitable for wiring with small bending radius.
- First choice for medium and high speed.
- Excellent flame retardant performance.
- With shielding, excellent anti-interference performance (-SB use).
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体·柔韧性好
- 耐热柔软PVC阻燃绝缘
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 镀锡铜编织屏蔽·屏蔽率≥85% (-SB使用)
- 耐热柔软PVC阻燃护套

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- Heat-resistant soft PVC flame-retardant insulation.
- The core wires are twisted together at an optimized short pitch.
- Nonwoven fabric wrapping.
- Tinned copper braided shield, shielding rate ≥ 85% (for-SB use).
- Heat-resistant soft PVC flame retardant sheath.

◆ 规格参数

- 护套颜色: 黑·灰·橙·绿
- 获得标准: 非标或 UL
- UL文件No.: 2501
- 额定电压: 600/1000V
- 耐燃性: VW-1

◆ Specification parameter

- Sheath color: black, gray, orange, green
- Acquisition criteria: non-standard or UL
- UL file No.: 2501
- Rated voltage: 600/1000V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围: -20 ~ +105
- 拖链次数 (万次): 1000
- 拖链最小弯曲半径: 8D
- 固定敷设最小弯曲半径: 4D
- 最大架空速度: 3
- 最大加速度: 20

◆ Moving parameter

- Operating temperature range: -20 ~ +105
- Number of drag chains (one million time): 1000
- Minimum bending radius of towing chain: 8D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 20

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
TZ006	4c	10.3	219	18.3	7.4
TZ007		12.5	327	24.8	4.7
TZ008		14.8	461	32.1	3.1
TZ009		18.5	733	44.6	1.9
TZ010		21.8	1060	59.8	1.2

- 1.以上表格只列出一部分产品·需要更多规格请联系我们。(C=芯数 P=对绞)
The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)
- 2.以上数字仅为参考值·数字以最终规格书为准。
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TPL-HZ2 | PVC绝缘 · PVC耐油护套高速动力电缆

TPL-HZ2 | PVC insulated, PVC oil resistant sheathed high-speed power cable



UL high speed oil proof power cord RoHS



Long towing distance	耐长拖链距离	★★★★
Plasticity	柔软性	★★★★
Weather ability	耐候性	★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 护套采用日本柔软改性PVC护套，耐油、耐磨
- 适合机床等油污腐蚀严重的环境
- 中高速首选
- 阻燃性能优
- Rohs环保对应
- Obtain UL758 certification in the United States.
- The sheath adopts Japanese soft modified PVC sheath, which is oil-resistant and wear-resistant.
- Suitable for machine tools and other environments with serious oil pollution and corrosion.
- First choice for medium and high speed.
- Excellent flame retardant performance.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- 耐热柔软PVC阻燃绝缘
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 改性PVC阻燃护套
- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- Heat-resistant soft PVC flame-retardant insulation.
- The core wires are twisted together at an optimized short pitch.
- Nonwoven fabric wrapping.
- Modified PVC flame retardant sheath.

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标or UL
- UL文件No.：2501
- 额定电压：600/1000V
- 耐燃性：VW-1
- Sheath color: black
- Acquisition criteria: non-standard or UL
- UL file No.: 2501
- Rated voltage: 600/1000V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-20 ~ +105
- 拖链次数（万次）：1000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：30
- Operating temperature range: -20 ~ +105
- Number of drag chains (one million time): 1000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 30

◆ 规格

◆ Specifications

产品编号 Product number	规格 (mm ²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
HZ001	4c	2.5	9.8	18.5	7.4
HZ002		4.0	12.0	28.3	4.7
HZ003		6.0	14.3	41.0	3.1
HZ004		10.0	18.1	66.7	1.9
HZ005		16.0	21.3	98.1	1.2

1.以上表格只列出一部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

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TPL-HZ2 | PVC绝缘 · PVC耐油护套高速动力电缆

TPL-HZ2 | PVC insulated, PVC oil resistant sheathed high-speed power cable



UL high speed movement oilproof powercord shield RoHS



Long towing distance	耐长拖链距离	★★★★
Plasticity	柔软性	★★★★★
Weather ability	耐候性	★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★★
Torsion resistance	耐扭转性	★★
Swing resistance	耐摇摆性	★★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 取得美国UL758认证
- 护套采用日本柔软改性PVC护套，耐油、耐磨
- 适合机床等油污腐蚀严重的环境
- 中高速首选
- 阻燃性能优
- 带屏蔽，抗干扰性能优越（-SB使用）
- Rohs环保对应

◆ key property

- Obtain UL758 certification in the United States.
- The sheath adopts Japanese soft modified PVC sheath, which is oil-resistant and wear-resistant.
- Suitable for machine tools and other environments with serious oil pollution and corrosion.
- First choice for medium and high speed.
- Excellent flame retardant performance.
- With shielding, excellent anti-interference performance (-SB use).
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股胶合导体，柔韧性好
- 耐热柔软PVC阻燃绝缘
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 镀锡铜编织屏蔽，屏蔽率≥85%（-SB使用）
- 改性PVC阻燃护套

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- Heat-resistant soft PVC flame-retardant insulation.
- The core wires are twisted together at an optimized short pitch.
- Nonwoven fabric wrapping.
- Tinned copper braided shield, shielding rate ≥ 85% (for-SB use).
- Modified PVC flame retardant sheath.

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标or UL
- UL文件No.：2501
- 额定电压：600/1000V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard or UL
- UL file No.: 2501
- Rated voltage: 600/1000V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-20 ~ +105
- 拖链次数（万次）：1000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：30

◆ Moving parameter

- Operating temperature range: -20 ~ +105
- Number of drag chains (one million time): 1000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 30

◆ 规格

◆ Specifications

产品编号 Product number	规格 (mm ²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
HZ006	4c	2.5	10.3	219	18.3
HZ007		4.0	12.5	327	24.8
HZ008		6.0	14.8	461	32.1
HZ009		10.0	18.5	733	44.6
HZ010		16.0	21.8	1060	59.8

1.以上表格只列出一部分产品，需要更多规格请联系我们。（C=芯数 P=对数）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

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TPL-MZ2 | PVC绝缘·TPU护套高速动力电缆

TPL-MZ2 | PVC insulated and TPU sheathed high-speed power cable



hypervelocity motion oilproof abrasion resistant powercord RoHS



Long towing distance	耐长拖链距离	★★★★
Plasticity	柔软性	★★★
Weather ability	耐候性	★★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 环保TPU护套，抗拉、耐油、耐磨、耐气候、抗水解和微生物
- 适合于高速、长拖链运动场合的电线布线场合
- Rohs环保对应

◆ key property

- Environmental protection TPU sheath, tensile, oil-resistant, wear-resistant, weather-resistant, hydrolysis-resistant and microbial-resistant.
- Suitable for high-speed, long chain movement of the wire wiring occasions.
- Rohs environmental protection correspondence

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- 耐热柔软PVC阻燃绝缘
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 耐油、耐磨TPU阻燃护套

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- Heat-resistant soft PVC flame-retardant insulation.
- The core wires are twisted together at an optimized short pitch.
- Nonwoven fabric wrapping.
- Oil-resistant and wear-resistant TPU flame retardant sheath.

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标或 UL
- UL文件No.：20939
- 额定电压：600/1000V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard or UL
- UL file No.: 20939
- Rated voltage: 600/1000V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-40 ~ +80
- 拖链次数（万次）：2000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：30

◆ Moving parameter

- Operating temperature range: -40 ~ +80
- Number of drag chains (one million time): 1000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 30

◆ 规格

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
MZ001	4c	9.8	177	17.7	7.6
MZ002		12.0	276	24.3	4.7
MZ003		14.3	399	31.4	3.2
MZ004		18.1	649	44.2	1.9
MZ005		21.3	957	59.3	1.2

1. 以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2. 以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-MZ2 | PVC绝缘·TPU护套高速动力电缆

TPL-MZ2 | PVC insulated and TPU sheathed high-speed power cable



Long towing distance	耐长拖链距离	★★★★
Plasticity	柔软性	★★★
Weather ability	耐候性	★★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 环保TPU护套，抗拉、耐油、耐磨、耐气候、抗水解和微生物
- 适合于高速、长拖链运动场合的电线电缆场合
- 带屏蔽，抗干扰性能优越（-SB使用）
- Rohs环保对应

◆ key property

- Environmental protection TPU sheath, tensile, oil-resistant, wear-resistant, weather-resistant, hydrolysis-resistant and microbial-resistant.
- Suitable for high-speed, long chain movement of the wire wiring occasions.
- With shielding, excellent anti-interference performance (-SB use).
- Rohs environmental protection correspondence

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- 耐热柔软PVC阻燃绝缘
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 镀锡铜编织屏蔽，屏蔽率≥85%（-SB使用）
- 耐油、耐磨TPU阻燃护套

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- Heat-resistant soft PVC flame-retardant insulation.
- The core wires are twisted together at an optimized short pitch.
- Nonwoven fabric wrapping.
- Tinned copper braided shield, shielding rate ≥ 85% (for -SB use).
- Oil-resistant and wear-resistant TPU flame retardant sheath.

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标或 UL
- UL文件No.：20939
- 额定电压：600/1000V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard or UL
- UL file No.: 20939
- Rated voltage: 600/1000V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-40 ~ +80
- 拖链次数（万次）：2000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：30

◆ Moving parameter

- Operating temperature range: -40 ~ +80
- Number of drag chains (one million time): 1000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 30

◆ 规格

◆ Specifications

产品编号 Product number	规格 (mm ²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
MZ006	4c	2.5	212	18.1	7.6
MZ007		4.0	321	24.7	4.7
MZ008		6.0	452	31.9	3.2
MZ009		10.0	717	44.6	1.9
MZ010		16.0	1039	59.9	1.2

1.以上表格只列一部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-MXZ2 | TPE绝缘、TPU护套超长、超高速动力电缆

TPL-MXZ2 | TPE insulated, TPU sheathed ultra long, ultra high speed power cable



Long towing distance	耐长拖链距离	★★★★★
Plasticity	柔软性	★★
Weather ability	耐候性	★★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★★★★★
Swing resistance	耐摇摆性	★★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 环保TPU护套，抗拉、耐油、耐磨、耐气候、抗水解和微生物
- 适合于高速、长拖链运动场合的电线布线场合
- Rohs环保对应

◆ key property

- Environmental protection TPU sheath, tensile, oil-resistant, wear-resistant, weather-resistant, hydrolysis-resistant and microbial-resistant.
- Suitable for high-speed, long chain movement of the wire wiring occasions.
- Rohs environmental protection correspondence

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性良好
- 绝缘采用弹性XLPE材料，抗拉
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 环保TPU阻燃护套

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- The insulation is made of elastic XLPE material and tensile.
- The core wires are twisted together at an optimized short pitch.
- Nonwoven fabric wrapping.
- Environment-friendly TPU flame-retardant sheath.

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标 or UL
- UL文件No.：20939
- 额定电压：600/1000V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard or UL
- UL file No.: 20939
- Rated voltage: 600/1000V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-40 ~ +80
- 拖链次数（万次）：5000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：10
- 最大加速度：80

◆ Moving parameter

- Operating temperature range: -40 ~ +80
- Number of drag chains (one million time): 5000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 10
- Maximum acceleration: 80

◆ 规格

◆ Specifications

产品编号 Product number	规格 (mm ²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
MXZ001	4c	2.5	9.8	17.7	7.6
MXZ002		4.0	12.0	27.6	4.7
MXZ003		6.0	14.3	39.9	3.2
MXZ004		10.0	18.1	64.9	1.9
MXZ005		16.0	21.3	95.7	1.2

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TPL-MXZ2 | TPE绝缘 · TPU护套超长、超高速动力电缆

TPL-MXZ2 | TPE insulated, TPU sheathed ultra long, ultra high speed power cable



Long towing distance	耐长拖链距离	★★★★★
Plasticity	柔软性	★★
Weather ability	耐候性	★★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★★
Torsion resistance	耐扭转性	★★★★★
Swing resistance	耐摇摆性	★★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 环保TPU护套，抗拉、耐油、耐磨、耐气候、抗水解和微生物
- 适合于高速、长拖链运动场合的电线电缆场合
- 带屏蔽，抗干扰性能优越（-SB使用）
- Rohs环保对应

◆ key property

- Environmental protection TPU sheath, tensile, oil-resistant, wear-resistant, weather-resistant, hydrolysis-resistant and microbial-resistant.
- Suitable for high-speed, long chain movement of the wire wiring occasions.
- With shielding, excellent anti-interference performance (-SB use).
- Rohs environmental protection correspondence

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性良好
- 绝缘采用弹性XLPE材料，抗拉
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 镀锡铜编织屏蔽，屏蔽率≥85%（-SB使用）
- 环保TPU阻燃护套

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- The insulation is made of elastic XLPE material and tensile.
- The core wires are twisted together at an optimized short pitch.
- Nonwoven fabric wrapping.
- Tinned copper braided shield, shielding rate ≥ 85% (for-SB use).
- Environment-friendly TPU flame-retardant sheath.

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标or UL
- UL文件No.：20939
- 额定电压：600/1000V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard or UL
- UL file No.: 20939
- Rated voltage: 600/1000V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-40 ~ +80
- 拖链次数（万次）：5000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：10
- 最大加速度：80

◆ Moving parameter

- Operating temperature range: -40 ~ +80
- Number of drag chains (one million time): 5000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 10
- Maximum acceleration: 80

◆ 规格

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
MXZ006	4c	10.4	212	18.1	7.6
MXZ007		12.6	321	24.7	4.7
MXZ008		14.9	452	31.9	3.2
MXZ009		18.6	717	44.6	1.9
MXZ010		21.9	1039	59.9	1.2

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The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

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The above figures are for reference only, and the figures are subject to the final specification.

机器人可扭转电缆



TPL-HN | 机器人可扭转电缆

TPL-HN | Robot Twistable Cable



Long towing distance	耐长拖链距离	★★★★
Plasticity	柔软性	★★★★★
Weather ability	耐候性	★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★★
Torsion resistance	耐扭转性	★★★★★
Swing resistance	耐摇摆性	★★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 防油污、耐磨损、抗扭转
- 适用于动态的弯曲和扭转运动
- 带屏蔽、抗干扰性能优越
- Rohs环保对应

◆ key property

- Anti oil stains, wear resistance, and torsion resistance.
- Suitable for dynamic bending and twisting movements.
- With shielding, superior anti-interference performance.
- Rohs Environmental Protection Correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股复合绞合导体，柔韧性好
- 绝缘采用弹性ETFE材料，抗扭
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 镀锡铜缠绕屏蔽，屏蔽率≥95%
- 改性PVC护套

◆ Construction of cable

- Adopting ultra-fine copper wire, Class 6 multi-strand composite stranded conductor, with good flexibility.
- Elastic ETFE insulation material, torsion resistance.
- Core wires twisted together for optimized short pitch
- Non woven fabric wrapping
- Tinned copper winding shielding, shielding rate > 95%
- Modified PVC sheath

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标
- UL文件No.：-
- 额定电压：300/500V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard
- UL file No.: -
- Rated voltage: 300/500V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-20~+105
- 拖链次数（万次）：2000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：30

◆ Moving parameter

- Operating temperature range: -20~+105
- Number of drag chains (one million time): 2000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 30

◆ 规格

◆ Specifications

产品编号 Product number	导体面积 Area of conductor		导体结构 (mm) Conductor structure	线芯外径 (mm) Core outside diameter	导体电阻 Ω/km(20℃) Conductor resistance	芯数 Core number	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30℃) Carrying capacity
	AWG	mm ²							
HN001	28	0.1	20/0.08 (0.41)	0.81	214.7以下	2	3.7	20	2.0
HN002						3	3.8	20	2.0
HN003						4	4.1	25	2.0
HN004						6	4.5	30	1.8
HN005						8	5.0	35	1.6
HN006						10	5.5	40	1.5
HN007						12	6.0	50	1.4
HN008						15	5.9	50	1.3
HN009						20	6.4	60	1.1
HN010						25	8.0	80	1.1
HN011	25	0.2	40/0.08 (0.58)	0.98	107.3以下	2	4.1	20	3.1
HN012						3	4.2	25	3.1
HN013						4	4.5	30	3.1
HN014						6	5.0	35	2.7
HN015						8	5.6	45	2.4
HN016						10	6.3	55	2.3
HN017						12	6.9	65	2.2
HN018						15	6.7	70	1.9
HN019						20	7.3	85	1.8
HN020						25	9.3	120	1.8
HN021	23	0.3	3/20/0.08 (0.89)	1.29	71.6以下	2	4.7	30	4.4
HN022						3	4.9	35	4.4
HN023						4	5.2	35	4.1
HN024						6	6.0	50	3.6
HN025						8	6.8	65	3.3
HN026						10	7.6	80	3.1
HN027						12	8.6	95	3.0
HN028						15	8.2	95	2.6
HN029						20	9.1	130	2.4
HN030						25	12.0	180	2.5
HN031	21	0.5	3/33/0.08 (1.14)	1.64	43.4以下	2	5.4	40	6.3
HN032						3	5.6	45	6.3
HN033						4	6.1	55	5.7
HN034						6	7.0	70	5.0
HN035						8	8.0	95	4.6
HN036						10	9.2	120	4.4
HN037						12	10.3	140	4.3
HN038						15	10.0	150	3.8
HN039						20	11.2	190	3.5

1.以上表格只列出部分产品，需要更多规格请联系我们。(C=芯数 P=对绞)

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2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-HD2 | 机器人可扭转电缆

TPL-HD2 | Robot Twistable Cable



Long towing distance	耐长拖链距离	★★★★
Plasticity	柔软性	★★★★★
Weather ability	耐候性	★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★★
Torsion resistance	耐扭转性	★★★★★
Swing resistance	耐摇摆性	★★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 防油污、耐磨损、抗扭转
- 适用于动态的弯曲和扭转运动
- 带屏蔽、抗干扰性能优越
- Rohs环保对应

◆ key property

- Anti oil stains, wear resistance, and torsion resistance.
- Suitable for dynamic bending and twisting movements.
- With shielding, superior anti-interference performance.
- Rohs Environmental Protection Correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股复合绞合导体，柔韧性好
- 绝缘采用弹性TPE材料，抗扭
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 镀锡铜缠绕屏蔽，屏蔽率≥95%
- 改性PVC护套

◆ Construction of cable

- Adopting ultra-fine copper wire, Class 6 multi-strand composite stranded conductor, with good flexibility.
- Elastic TPE insulation material, torsion resistance.
- Core wires twisted together for optimized short pitch.
- Non woven fabric wrapping
- Tinned copper winding shielding, shielding rate ≥ 95%
- Modified PVC sheath

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标
- UL文件No.：-
- 额定电压：300/500V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard
- UL file No.: -
- Rated voltage: 300/500V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-20~+105
- 拖链次数（万次）：2000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：30

◆ Moving parameter

- Operating temperature range: -20~+105
- Number of drag chains (one million time): 2000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 30

◆ 规格

◆ Specifications

产品编号 Product number	导体面积 Area of conductor		导体结构 (mm) Conductor structure	线芯外径 (mm) Core outside diameter	导体电阻 Ω/km(20℃) Conductor resistance	芯数 Core number	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30℃) Carrying capacity
	AWG	mm²							
HD001	28	0.1	20/0.08 (0.41)	0.81	203.7以下	2	3.4	15	1.7
HD002						3	3.5	15	1.7
HD003						4	3.8	20	1.7
HD004						5	4.0	20	1.5
HD005						6	4.2	25	1.4
HD006						8	4.7	30	1.3
HD007						10	5.2	35	1.2
HD008						12	5.7	40	1.2
HD009						15	5.6	40	1.0
HD010						20	6.1	50	0.9
HD011	25	0.2	40/0.08 (0.58)	0.98	101.9以下	2	3.8	20	2.6
HD012						3	3.9	20	2.6
HD013						4	4.2	25	2.5
HD014						5	4.4	30	2.3
HD015						6	4.7	35	2.2
HD016						8	5.3	40	2.0
HD017						10	6.0	50	1.9
HD018						12	6.6	60	1.8
HD019						15	6.4	60	1.6
HD020						20	7.0	75	1.4
HD021	23	0.3	60/0.08 (0.72)	1.12	67.9以下	2	4.0	20	3.5
HD022						3	4.2	25	3.5
HD023						4	4.5	30	3.2
HD024						5	4.8	35	3.0
HD025						6	5.2	40	2.8
HD026						8	5.8	50	2.6
HD027						10	6.5	65	2.4
HD028						12	7.2	75	2.3
HD029						15	7.1	80	2.1
HD030						20	7.7	100	1.9
HD031	15	2	7/57/0.08 (2.00)	2.4	10.2以下	2	6.6	70	12.9
HD032						3	7.0	90	12
HD033						4	7.6	120	10.8
HD034						6	9.0	170	9.6
HD035						8	10.6	220	9.1
HD036						10	12.1	270	8.6

1.以上表格只列出部分产品，需要更多规格请联系我们。(C=芯数 P=对绞)

The above table only lists some products. Please contact us if you need more specifications. (c=core number P=Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-HX | 机器人可扭转电缆

TPL-HX | Robot Twistable Cable



Long towing distance	耐长拖链距离	★★★★
Plasticity	柔软性	★★★★★
Weather ability	耐候性	★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★★
Torsion resistance	耐扭转性	★★★★★
Swing resistance	耐摇摆性	★★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 防油污、耐磨损、抗扭转
- 适用于动态的弯曲和扭转运动
- 带屏蔽、抗干扰性能优越
- Rohs环保对应

◆ key property

- Anti oil stains, wear resistance, and torsion resistance.
- Suitable for dynamic bending and twisting movements.
- With shielding, superior anti-interference performance.
- Rohs Environmental Protection Correspondence.

◆ 电缆结构

- 采用超细铜丝6类多股复合绞合导体，柔韧性好
- 绝缘采用弹性XLPE材料，抗扭
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 镀锡铜缠绕屏蔽，屏蔽率≥95%
- 改性PVC护套

◆ Construction of cable

- Adopting ultra-fine copper wire, Class 6 multi-strand composite stranded conductor, with good flexibility.
- Elastic XLPE insulation material, torsion resistance
- Core wires twisted together for optimized short pitch
- Non woven fabric wrapping
- Tinned copper winding shielding, shielding rate ≥ 95%
- Modified PVC sheath

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标
- UL文件No.：-
- 额定电压：300/500V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard
- UL file No.: -
- Rated voltage: 300/500V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-20~+105
- 拖链次数（万次）：2000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：30

◆ Moving parameter

- Operating temperature range: -20~+105
- Number of drag chains (one million time): 2000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 30

◆ 规格

◆ Specifications

产品编号 Product number	导体面积 (mm ²) Area of conductor	导体结构 (mm) Conductor structure	线芯外径 (mm) Core outside diameter	导体电阻 Ω/km(20℃) Conductor resistance	芯数 Core number	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30℃) Carrying capacity
HX001	0.2	40/0.08 (0.58)	0.98	101.9以下	2	4.1	20	2.4
HX002					3	4.2	25	2.4
HX003					4	4.5	30	2.3
HX004					6	5.0	35	2.0
HX005					8	5.6	45	1.8
HX006					10	6.3	55	1.7
HX007					12	6.9	60	1.7
HX008					15	6.7	65	1.4
HX009					20	7.3	80	1.3
HX010	0.3	3/20/0.08 (0.89)	1.29	67.9以下	2	4.7	30	3.3
HX011					3	4.9	30	3.3
HX012					4	5.2	35	3.1
HX013					6	6.0	50	2.7
HX014					8	6.8	60	2.5
HX015	0.5	3/33/0.08 (1.14)	1.74	41.2以下	10	7.6	75	2.3
HX016					2	5.6	40	4.9
HX017					3	5.8	45	4.9
HX018					4	6.3	55	4.4
HX019	0.75	7/20/0.08 (1.24)	2.04	29.1以下	6	7.3	70	3.8
HX020					2	6.2	50	6.3
HX021					3	6.5	55	6.1
HX022	1.25	7/33/0.08 (1.59)	2.59	17.6以下	4	7.0	70	5.5
HX023					2	7.3	65	9.0
HX024					3	7.7	80	8.6
HX025	0.2	40/0.08(0.58)	0.98	101.9以下	25	9.3	120	1.3
HX026	0.3	3/20/0.08 (0.89)	1.29	67.9以下	12	8.6	90	2.3
HX027					15	8.2	90	2.0
HX028					20	9.1	120	1.8
HX029					25	12.0	180	1.9
HX030	0.5	3/33/0.08 (1.14)	1.74	41.2以下	8	8.6	95	3.6
HX031					10	9.7	120	3.4
HX032					12	10.8	130	3.3
HX033					15	10.5	150	2.9
HX034					20	11.7	190	2.6
HX035					25	15.4	270	2.7

1.以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对数）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

新能源充电桩线



充电桩线缆——

耐油·耐热·耐寒·防水·防晒·阻燃

电动汽车充电电缆用于连接电动汽车充电装置与充电基础设施，从而对电动汽车进行电力传输，并配备一定数量的信号线、控制线、电源辅助线等来确保整个充电过程控制准确、操作安全无误。充电电缆一般使用于充电站、停车场、酒店、小区、车库等区域，便携式充电电缆可放置在车内。



TPL-EV | 新能源交流充电桩线

TPL-EV | New Energy AC charging pile line



Long towing distance	耐长拖链距离	
Plasticity	柔软性	★
Weather ability	耐候性	★★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★
Life test of electric towing chain	电拖链命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 获得欧洲、美洲、日本和中国市场的认证
- 传输超大充电电流
- 适用于市场上所有充电规格
- 耐磨、耐介质、抗水解、无卤
- Rohs环保对应

◆ key property

- Certified in the European, American, Japanese, and Chinese markets.
- Transmit large charging current.
- Suitable for all charging specifications on the market.
- Wear resistance, medium resistance, hydrolysis resistance, halogen-free.
- Rohs Environmental Protection Correspondence.

◆ 电缆结构

- 采用5类多股绞合导体
- 绝缘采用弹性TPE材料
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 改性PVC护套

◆ Construction of cable

- Using Class 5 stranded conductors.
- The insulation is made of elastic TPE material.
- Core wires twisted together for optimized short pitch.
- Non woven fabric wrapping.
- Modified PVC sheath.

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标
- 参考标准：T33594-2017
- 额定电压：600/1000V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard
- Reference standards: T33594-2017
- Rated voltage: 600/1000V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-20~+105
- 拖链次数（万次）：-
- 拖链最小弯曲半径：-
- 固定敷设最小弯曲半径：6D
- 最大架空速度：-
- 最大加速度：-

◆ Moving parameter

- Operating temperature range: -20~+105
- Number of drag chains (one million time): -
- Minimum bending radius of towing chain: -
- Minimum bending radius for fixed laying: 6D
- Maximum overhead speed: -
- Maximum acceleration: -

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
EV001	GB 33594/3X2.5mm ² +1X0.75mm ²	13.0	216	20.3	7.8
EV002	GB 33594/5X2.5mm ² +1X0.75mm ²	15.5	322	17.0	7.8
EV003	GB 33594/3X6.0mm ² +1X0.75mm ²	15.5	371	35.3	3.1
EV004	GB 33594/5X6.0mm ² +1X0.75mm ²	20.0	580	29.5	3.1

1. 以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (C = core number P = Pair of twisted)

2. 以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-EVE/EVJE | 新能源交流充电桩线

TPL-EVE/EVJE | New Energy AC charging line



Long towing distance	耐长拖链距离	
Plasticity	柔软性	★
Weather ability	耐候性	★★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★
Life test of electric towing chain	电拖链寿命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★★

※ 上图仅作为特性参考使用
※ The above picture is only used as a characteristic reference

◆ 主要特性

- 获得欧洲、美洲、日本和中国市场的认证
- 传输超大充电电流
- 适用于市场上所有充电规格
- 耐磨、耐介质、抗水解、无卤
- Rohs环保对应

◆ key property

- Certified in the European, American, Japanese, and Chinese markets.
- Transmit large charging current.
- Suitable for all charging specifications on the market.
- Wear resistance, medium resistance, hydrolysis resistance, halogen-free.
- Rohs Environmental Protection Correspondence.

◆ 电缆结构

- 采用5类多股绞合导体
- 绝缘采用弹性TPE材料
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 改性PVC护套

◆ Construction of cable

- Using Class 5 stranded conductors.
- The insulation is made of elastic TPE material.
- Core wires twisted together for optimized short pitch.
- Non woven fabric wrapping.
- Modified PVC sheath.

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标
- UL文件No.：2263
- 额定电压：600/1000V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard
- UL file No.: 2263
- Rated voltage: 600/1000V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-20~+105
- 拖链次数（万次）：-
- 拖链最小弯曲半径：-
- 固定敷设最小弯曲半径：6D
- 最大架空速度：-
- 最大加速度：-

◆ Moving parameter

- Operating temperature range: -20~+105
- Number of drag chains (one million time): -
- Minimum bending radius of towing chain: -
- Minimum bending radius for fixed laying: 6D
- Maximum overhead speed: -
- Maximum acceleration: -

◆ 规格 ◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
EVE001	UL2263/3X10AWG+18AWG	16.5	386	32.9	3.5
EVE002	UL2263/3X12AWG+18AWG	11.8	213	24.5	5.5
EVE003	UL2263/3X14AWG+18AWG	10.0	149	18.3	8.9
EVE004	UL2263/2X8AWG+10AWG+18AWG	20.5	545	52.1	2.2
EVE005	UL2263/2X7AWG+10AWG+18AWG	22.0	631	59.0	1.8

1.以上表格只列出一部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）
The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)
2.以上数字仅为参考值，数字以最终规格书为准。
The above figures are for reference only, and the figures are subject to the final specification.

TPL-EVC | 新能源交流充电桩线

TPL-EVC | New Energy AC charging pile line



Long towing distance	耐长拖链距离	
Plasticity	柔软性	★
Weather ability	耐候性	★★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★
Life test of electric towing chain	电拖链寿命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 获得欧洲、美洲、日本和中国市场的认证
- 传输超大充电电流
- 适用于市场上所有充电规格
- 耐磨、耐介质、抗水解、无卤
- Rohs环保对应

◆ key property

- Certified in the European, American, Japanese, and Chinese markets.
- Transmit large charging current.
- Suitable for all charging specifications on the market.
- Wear resistance, medium resistance, hydrolysis resistance, halogen-free.
- Rohs Environmental Protection Correspondence.

◆ 电缆结构

- 采用5类多股绞合导体
- 绝缘采用弹性TPE材料
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 改性PVC护套

◆ Construction of cable

- Using Class 5 stranded conductors.
- The insulation is made of elastic TPE material.
- Core wires twisted together for optimized short pitch.
- Non woven fabric wrapping.
- Modified PVC sheath.

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标
- 参考标准：EN/50620-2017
- 额定电压：600/1000V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard
- Reference standards: EN/50620-2017
- Rated voltage: 600/1000V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-20~+105
- 拖链次数（万次）：-
- 拖链最小弯曲半径：-
- 固定敷设最小弯曲半径：6D
- 最大架空速度：-
- 最大加速度：-

◆ Moving parameter

- Operating temperature range: -20~+105
- Number of drag chains (one million time): -
- Minimum bending radius of towing chain: -
- Minimum bending radius for fixed laying: 6D
- Maximum overhead speed: -
- Maximum acceleration: -

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
EVC001	EN 50620/5X2.5mm ² +1X0.5mm ²	12.8	278	16.8	7.8
EVC002	EN 50620/5X6.0mm ² +1X0.5mm ²	16.0	518	28.2	3.2
EVC003	EN 50620/3X2.5mm ² +1X0.5mm ²	10.2	179	19.7	7.8
EVC004	EN 50620/3X6.0mm ² +1X0.5mm ²	12.8	336	34.7	3.0
EVC005	EN 50620/3X6.0mm ² +1X0.75mm ²	12.8	337	34.8	3.0
EVC006	EN 50620/5X6.0mm ² +1X0.75mm ²	16.0	520	28.2	3.2

1.以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

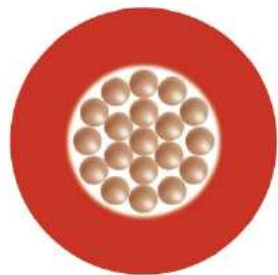
The above figures are for reference only, and the figures are subject to the final specification.

汽车线薄壁



TPL-FLRY | 德标系列 · 汽车线缆

TPL-FLRY | German standard series, automobile cable



Long towing distance	耐长拖链距离	
Plasticity	柔软性	★★
Weather ability	耐候性	★★★
Oil resistivity	耐油性	★★★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★
Life test of electric towing chain	电拖链寿命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 先进汽车专用电缆
- 符合内部线束的国际标准
- Rohs环保对应

◆ key property

- Advanced Automotive Special Cable.
- Comply with international standards for internal wiring harness.
- Rohs Environmental Protection Correspondence.

◆ 电缆结构

- 采用5、6类多股绞合导体
- 汽车专用阻燃绝缘

◆ Construction of cable

- Using Category 5 and 6 stranded conductors.
- Automotive specific flame-retardant insulation.

◆ 规格参数

- 护套颜色：-
- 获得标准：-
- UL文件No.：-
- 额定电压：-
- 耐燃性：-

◆ Specification parameter

- Sheath color：-
- Acquisition criteria：-
- UL file No.：-
- Rated voltage：-
- Flame resistance：-

◆ 移动参数

- 使用温度范围：-
- 拖链次数（万次）：-
- 拖链最小弯曲半径：-
- 固定敷设最小弯曲半径：4D
- 最大架空速度：-
- 最大加速度：-

◆ Moving parameter

- Operating temperature range：-
- Number of drag chains (one million time)：-
- Minimum bending radius of towing chain：-
- Minimum bending radius for fixed laying：4D
- Maximum overhead speed：-
- Maximum acceleration：-

◆ 规格

◆ Specifications

系列 Series	芯数 Core number	导体范围 (mm ²) Conductor range	最大直径 (mm) Maximum diameter	最大外径 (mm) Maximum outside diameter	额定温度 (°C) Rated temperature	绝缘材质 Insulation material	厚度 (mm) Thickness	参考标准 Reference standards
FLY	1	0.5~120	1.00~16.5	2.3~19.7	-25°C ~ +105°C	PVC	0.48~1.6	DIN EN 13602
FLYW	1	0.5~95	1.00~14.8	2.3~18.0	-40°C ~ +125°C	PVC	0.48~1.28	DIN EN 13602
FLYK	1	0.5~25	1.1~8.0	2.3~10.5	-50°C ~ +105°C	PVC	0.6~1.2	DIN EN 13602
FLRY-A	1	0.22~2.5	0.7~2.2	1.2~3.0	-40°C ~ +105°C	PVC	0.2~0.28	DIN EN 13602
FLRY-B	1	0.35~25	0.9~7.8	1.4~9.4	-40°C ~ +105°C	PVC	0.2~0.52	DIN EN 13602
FLR4Y	1	0.35~4.0	0.8~2.75	1.3~3.7	-40°C ~ +105°C	PA	0.2~0.32	DIN EN 13602
FLR9Y	1	0.22~6.0	0.7~3.4	1.1~4.0	-40°C ~ +125°C	PP	0.2~0.32	DIN EN 13602
FLR13Y	1	0.22~2.5	0.7~2.2	1.1~2.7	-40°C ~ +150°C	TPE-E	0.2~0.28	DIN EN 13602
FLRYDY	1	0.75~1.5	1.2~1.7	2.5~3.0	-40°C ~ +105°C	PVC	0.3	DIN EN 13602
FLYY	1	0.5~2.5	1.0~2.2	3.1~4.8	-40°C ~ +105°C	PVC	0.4~0.5	DIN EN 13602
FLRY	1~10	0.35~2.5	1.3~3.0	2.2~13.7	-40 °C ~ +105 °C	PVC	0.4~0.8	DIN EN 13602
FLR13Y11Y	2	0.5~0.75	1.0~1.2	3.85~6.0	-40 °C ~ +125 °C	TPE-E	0.6~1.3	DIN EN 13602
FLYZ	2	0.5~1.5	1.0~1.7	-	-40 °C ~ +105 °C	PVC	0.5~0.6	DIN EN 13602
FLRYB11Y	1~5	0.35~(0.35)	0.8	4.3~5.8	-40 °C ~ +105 °C	PVC	0.25	DIN EN 13602
FLRYCY	5~10	0.08~0.35	0.45~0.8	4.9~6.9	-40 °C ~ +105 °C	PVC	0.2~0.25	DIN EN 13602

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The above figures are for reference only, and the figures are subject to the final specification.

TPL-AVSS | 日标系列 · 汽车线缆

TPL-AVSS | Japanese standard series, automobile cables



Japanese standard fixed wiring power cord RoHS



Long towing distance	耐长拖链距离	
Plasticity	柔软性	★★
Weather ability	耐候性	★★★
Oil resistivity	耐油性	★★★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★
Life test of electric towing chain	电拖链命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 先进汽车专用电缆
- 符合内部线束的国际标准
- Rohs环保对应

◆ key property

- Advanced Automotive Special Cable.
- Comply with international standards for internal wiring harness.
- Rohs Environmental Protection Correspondence.

◆ 电缆结构

- 采用5、6类多股绞合导体
- 汽车专用阻燃绝缘

◆ Construction of cable

- Using Category 5 and 6 stranded conductors.
- Automotive specific flame-retardant insulation.

◆ 规格参数

- 护套颜色：-
- 获得标准：-
- UL文件No.：-
- 额定电压：-
- 耐燃性：-

◆ Specification parameter

- Sheath color：-
- Acquisition criteria：-
- UL file No.：-
- Rated voltage：-
- Flame resistance：-

◆ 移动参数

- 使用温度范围：-
- 拖链次数（万次）：-
- 拖链最小弯曲半径：-
- 固定敷设最小弯曲半径：4D
- 最大架空速度：-
- 最大加速度：-

◆ Moving parameter

- Operating temperature range：-
- Number of drag chains (one million time)：-
- Minimum bending radius of towing chain：-
- Minimum bending radius for fixed laying：4D
- Maximum overhead speed：-
- Maximum acceleration：-

◆ 规格

◆ Specifications

系列 Series	额定温度 (°C) Rated temperature	导体范围 (mm²) Conductor range	芯数 Core number	绝缘材质 Insulation material	外皮材质 Skin material	厚度 (mm) Thickness	参考标准 Reference standards
CIVUS	-40~+85°C	0.35~1.25	1	PVC	-	0.2	ISO 6722
AVSS	80°C	0.3~2f	1	PVC	-	0.3~0.4	JASO D625
AVSSC(f)	80°C	0.3f~1.25f	1	PVC	-	0.3	JASO D625
AVSSB(f)	80°C	0.3f~1.25f	1	PVC	-	0.35~0.4	JASO D625
TVSS	80°C	0.3	1	PVC	-	0.3	JASO D625
TVSSC	80°C	0.3f~0.5f	1	PVC	-	0.3	JASO D625
AVS	80°C	0.3f~5.0	1	PVC	-	0.5~0.7	JASO D625
AVS(f)	80°C	0.5f~2f	1	PVC	-	0.5	JASO D625
AV	80°C	0.5~40/0.5f~3f	1	PVC	-	0.5~0.7	JIS C3406
CAVUS	80°C	0.22~1.25	1	PVC	-	0.2	JASO D611
EB	80°C	5~60	1	PVC	-	0.6	JASO D625
HDEB	80°C	9~40	1	PVC	-	1.0~1.4	JASO D625
IVSSH	-40~+100°C	0.35f~0.75f	1	PVC	-	0.25~0.3	ISO 6722
AVSSH	100°C	0.3f~1.25f	1	PVC	-	0.3	JASO D625
TVSSH	100°C	0.5f	1	PVC	-	0.3	JASO D625
AVSSX	100°C	0.5f~2f	1	XL PVC	-	0.3~0.4	JASO D625
TVSSX	100°C	0.35f~2f	1	XL PVC	-	0.3~0.4	JASO D608
AVX	100°C	0.5f~1.25f/2.0~3.0	1	XL PVC	-	0.5~0.7	JASO D625
AVXTA	100°C	0.5f~1.25f/3.0	1	XL PVC	-	0.5~0.7	JASO D608
SF-VX	100°C	0.15f	1	XL PVC	-	0.27	JASO D625
AESSX	120°C	0.3f~2f	1	XL PE	-	0.3~0.4	JASO D625
TESSX	120°C	0.5f~2f	1	XL PE	-	0.3~0.4	JASO D625
AEX	120°C	0.5f	1	XL PE	-	0.5	JASO D625
LE-SS	80°C	AVSS 0.3~1.25	1~8	-	PVC	0.59~0.91	JASO D625
ASSSH	80°C	AVSS 0.3~2.0	1~8	-	PVC	0.5	JASO D625
LE-SH	100°C	AVSSH 0.5f~1.25f	1~6	-	PVC	0.6~0.75	JASO D625
LE-SX	100°C	AVSSX 0.5f~2f	1~6	-	PVC	0.55~0.82	JASO D625
SH-SH	100°C	AVSSH 0.5f	1~4	-	PVC	0.5	JASO D625
SH-SX	100°C	AVSSX 0.5f	1	-	PVC	0.5	JASO D625
APXHT	100°C	-	1~4	-	PVC	0.4~0.5	-
APEXN	100°C	SHE050	1	-	PVC	0.4	-
TDW	100°C	TVSSC/AVSSC/TA	1~2	-	PVC	0.5~1.0	-

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无尘线缆



TPL-TD2 | 轻量化无尘拖链

TPL-TD2 | Lightweight dust-free towing chain



Long towing distance	耐长拖链距离	★★★★
Plasticity	柔软性	★★★★★
Weather ability	耐候性	★★★★
Oil resistivity	耐油性	★★
Interference resistance	耐干扰性	★★★★★
Torsion resistance	耐扭转性	★★★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 高性能拖链技术
- 特殊设计，重量轻，配合无尘拖链组件使用，不易压垮组件
- 带屏蔽，抗干扰性能优越
- Rohs环保对应

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- 绝缘采用弹性TPE材料
- 芯线以优化短距绞合在一起
- 镀锡铜编织屏蔽，屏蔽率 > 95%
- PTFE绕包
- 改性白色PVC护套

◆ 规格参数

- 护套颜色：白
- 获得标准：非标
- UL文件No.：-
- 额定电压：30V/300V
- 耐燃性：VW-1

◆ 移动参数

- 使用温度范围：-20 ~ +105
- 拖链次数（万次）：2000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：30

◆ key property

- High performance towing chain technology.
- Special design, light weight, used with dust-free towing chain components, not easy to crush components.
- With shielding, excellent anti-interference performance.
- Rohs environmental protection correspondence.

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- Elastic TPE material is used for insulation.
- The core wires are twisted together at an optimized short pitch.
- Tin-plated copper winding shielding, shielding rate > 95%.
- PTFE winding.
- Modified white PVC sheath.

◆ Specification parameter

- Sheath color: white
- Acquisition criteria: non-standard
- UL file No.: -
- Rated voltage: 30V/300V
- Flame resistance: VW-1

◆ Moving parameter

- Operating temperature range: -20 ~ +105
- Number of drag chains (one million time): 2000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 30

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
TD001	2P	4.3	30	3.0	135.4
TD002	3P	4.6	35	2.5	135.4
TD003	4P	4.9	42	2.3	135.4
TD004	5P	5.4	48	2.1	135.4
TD005	6P	5.8	56	2.0	135.4
TD006	8P	6.9	76	1.9	135.4
TD007	10P	7.7	92	1.8	135.4
TD008	2P	4.9	39	4.3	75.8
TD009	3P	5.1	48	3.6	75.8
TD010	4P	5.6	58	3.2	75.8
TD011	5P	6.1	67	3.0	75.8
TD012	6P	6.8	81	2.9	75.8
TD013	2P	5.4	48	5.1	58.3
TD014	3P	5.7	58	4.3	58.3
TD015	4P	6.4	74	3.9	58.3
TD016	5P	7.0	85	3.6	58.3

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications		外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30℃) Carrying capacity	导体电阻 Ω/km(20℃) Conductor resistance
TD017	8c	0.14	4.6	39	2.2	135.4
TD018	3c	0.25	3.7	26	4.3	75.8
TD019	4c		4.2	36	4.5	58.3
TD020	2c	0.34	3.8	26	6.1	58.3
TD021	3c		4.0	32	5.1	58.3
TD022	4c		4.3	38	4.6	58.3
TD023	7c		5.0	56	3.8	58.3
TD024	19c		7.8	128	2.8	58.3
TD025	3c	0.5	4.5	41	6.7	37.9
TD026	4c		4.8	50	6.0	37.9
TD027	6c		5.7	68	5.3	37.9
TD028	12c		7.3	118	4.2	37.9
TD029	3c		0.75	5.3	56	8.8
TD030	4c	5.7		68	7.9	25.8
TD031	3c	1.0	5.8	69	10.7	18.7
TD032	4c		6.5	88	9.8	18.7
TD033	3c	1.5	6.8	95	14.0	12.6
TD034	4c		7.5	120	12.6	12.6
TD035	3c	2.5	8.1	141	19.4	7.6
TD036	4c		8.9	178	17.5	7.6
TD037	2P×0.14mm² +2×0.34mm²		4.7	41	6.7	58.3

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TPL-TDT1 | 轻量化无尘拖链

TPL-TDT1 | Lightweight dust-free towing chain



Long towing distance	耐长拖链距离	★★★★
Plasticity	柔软性	★★★★★
Weather ability	耐候性	★★★★
Oil resistivity	耐油性	★★
Interference resistance	耐干扰性	★★★★★
Torsion resistance	耐扭转性	★★★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 高性能拖链技术
- 特殊设计，重量轻，配合无尘拖链组件使用，不易压垮组件
- 带屏蔽，抗干扰性能优越
- Rohs环保对应

◆ 电缆结构

- 采用超细铜丝6类多股绞合导体，柔韧性好
- 绝缘采用弹性TPE材料
- 芯线以优化短节距绞合在一起
- 镀锡铜编织屏蔽，屏蔽率>95%
- PTFE绕包
- 改性超薄壁白色PVC护套

◆ 规格参数

- 护套颜色：白
- 获得标准：非标
- UL文件No.：-
- 额定电压：30V/300V
- 耐燃性：VW-1

◆ 移动参数

- 使用温度范围：-20~+105
- 拖链次数（万次）：2000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：30

◆ key property

- High performance towing chain technology.
- Special design, light weight, used with dust-free towing chain components, not easy to crush components.
- With shielding, excellent anti-interference performance.
- Rohs environmental protection correspondence.

◆ Construction of cable

- Ultra-fine copper wire is used as 6 kinds of stranded conductor, which has good flexibility.
- Elastic TPE material is used for insulation.
- The core wires are twisted together to optimize the short pitch.
- Tin-plated copper winding shielding, shielding rate >95%.
- PTFE winding.
- Modified ultra-thin wall white PVC sheath.

◆ Specification parameter

- Sheath color: white
- Acquisition criteria: non-standard
- UL file No.: -
- Rated voltage: 30V/300V
- Flame resistance: VW-1

◆ Moving parameter

- Operating temperature range: -20~+105
- Number of drag chains (one million time): 2000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 3
- Maximum acceleration: 30

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
TDT001	2P	3.9	26	2.9	135.4
TDT002	3P	4.2	32	2.5	135.4
TDT003	4P	4.5	38	2.2	135.4
TDT004	5P	5.0	44	2.1	135.4
TDT005	6P	5.4	51	2.0	135.4
TDT006	8P	6.5	70	1.9	135.4
TDT007	10P	7.3	85	1.7	135.4
TDT008	2P	4.5	35	4.2	75.8
TDT009	3P	4.7	43	3.5	75.8
TDT010	4P	5.2	53	3.2	75.8
TDT011	5P	5.7	61	3.0	75.8
TDT012	6P	6.4	75	2.8	75.8
TDT013	2P	5.0	43	5.0	58.3
TDT014	3P	5.3	53	4.2	58.3
TDT015	4P	6.0	68	3.8	58.3
TDT016	5P	6.6	79	3.6	58.3

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications		外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30℃) Carrying capacity	导体电阻 Ω/km(20℃) Conductor resistance
TDT017	8c	0.14	4.2	35	2.2	135.4
TDT018	3c	0.25	3.3	23	4.2	75.8
TDT019	4c		3.8	33	4.4	58.3
TDT020	2c	0.34	3.4	23	5.9	58.3
TDT021	3c		3.6	28	5.0	58.3
TDT022	4c		3.9	34	4.5	58.3
TDT023	7c		4.6	51	3.7	58.3
TDT024	19c		7.8	128	2.8	58.3
TDT025	3c	0.5	4.1	37	6.5	37.9
TDT026	4c		4.4	46	5.9	37.9
TDT027	6c		5.3	63	5.2	37.9
TDT028	12c		7.3	118	4.2	37.9
TDT029	3c	0.75	4.9	51	8.6	25.8
TDT030	4c		5.3	63	7.8	25.8
TDT031	3c	1.0	5.4	64	10.5	18.7
TDT032	4c		6.1	82	9.6	18.7
TDT033	3c	1.5	6.4	89	13.8	12.6
TDT034	4c		7.2	115	12.5	12.6
TDT035	3c	2.5	7.8	135	19.2	7.6
TDT036	4c		8.5	170	17.3	7.6
TDT037	2P×0.14mm² +2x0.34mm²		4.3	37	6.5	58.3

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The above table only lists some products. Please contact us if you need more specifications. (C = core number P = Pair of twisted)

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国标电缆



国标品质电缆
通过国标CCC认证



环保安全



3C认证



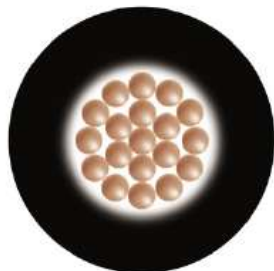
防火阻燃

TPL-RV | 国标电线

TPL-RV | GB wire



CCC fixed wiring power cord RoHS



Long towing distance	耐长拖链距离	
Plasticity	柔软性	★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★
Interference resistance	耐干扰性	★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★
Life test of electric towing chain	电拖链寿命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 国标CCC标准
- 适用于端子台布线场合
- Rohs环保对应

◆ key property

- National standard CCC standard.
- Suitable for terminal station wiring occasions.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用5、6类多股绞合导体
- PVC阻燃绝缘

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- PVC flame retardant insulation.

◆ 规格参数

- 护套颜色: 13色可选
- 获得标准: CCC
- UL文件No.: -
- GB编号: GB/T5023.3-2008
- 额定电压: 450/750V
- 耐燃性: FT2

◆ Specification parameter

- Sheath color: 13 colors optional
- Acquisition criteria: CCC
- UL file No.: -
- GB number: GB/T5023.3-2008
- Rated voltage: 450/750V
- Flame resistance: FT2

◆ 移动参数

- 使用温度范围: -15 ~ +70
- 拖链次数 (万次): -
- 拖链最小弯曲半径: -
- 固定敷设最小弯曲半径: 4D
- 最大架空速度: 0
- 最大加速度: 0

◆ Moving parameter

- Operating temperature range: -15 ~ +70
- Number of drag chains (one million time): -
- Minimum bending radius of towing chain: -
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 0
- Maximum acceleration: 0

◆ 规格

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
RV001	0.5	2.3	10	11	35.7
RV002	1.0	2.6	16	18	18.4
RV003	1.5	3.1	23	24	12.3
RV004	2.5	3.5	33	33	7.4
RV005	4.0	4.2	51	40	4.6
RV006	6.0	5.2	73	54	3.1
RV007	10.0	6.7	122	78	1.8
RV008	16.0	8.0	180	103	1.2
RV009	25.0	9.0	256	137	0.8

1.以上表格只列出部分产品, 需要更多规格请联系我们。(C=芯数 P=对绞)

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值, 数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-AVVR | 国标电线

TPL-AVVR | GB wire



CCC fixed wiring power cord RoHS



Long towing distance	耐长拖链距离	
Plasticity	柔软性	★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★
Life test of electric towing chain	电拖链寿命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 国标CCC标准
- 适用于端子台布线场合
- RoHS环保对应

◆ key property

- National standard CCC standard.
- Suitable for terminal station wiring occasions.
- RoHS environmental protection correspondence.

◆ 电缆结构

- 采用5、6类多股绞合导体
- PVC阻燃绝缘
- 芯线以短节距绞合在一起
- 无纺布绕包
- 黑色PVC阻燃护套

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- PVC flame retardant insulation.
- The core wires are twisted together at a short pitch.
- Nonwoven fabric wrapping.
- Black PVC flame retardant sheath.

◆ 规格参数

- 护套颜色: 黑
- 获得标准: CCC
- UL文件No.: -
- GB编号: GB/T5023.5-2008
- 额定电压: 300/300V
- 耐燃性: FT2

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: CCC
- UL file No.: -
- GB number: GB/T5023.5-2008
- Rated voltage: 300/300V
- Flame resistance: FT2

◆ 移动参数

- 使用温度范围: -15~+70
- 拖链次数(万次): -
- 拖链最小弯曲半径: -
- 固定敷设最小弯曲半径: 4D
- 最大架空速度: 0
- 最大加速度: 0

◆ Moving parameter

- Operating temperature range: -15~+70
- Number of drag chains (one million time): -
- Minimum bending radius of towing chain: -
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 0
- Maximum acceleration: 0

◆ 规格

◆ Specifications

产品编号 Product number	规格 (mm ²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
AVVR001	3c	2.6	10	2.1	235.7
AVVR002	4c	2.8	12	1.9	235.7
AVVR003	6c	3.2	16	1.6	235.7
AVVR004	10c	3.9	23	1.4	235.7
AVVR005	2c	3.2	14	4.5	91.7
AVVR006	3c	3.3	17	3.7	91.7
AVVR007	4c	3.5	21	3.3	91.7
AVVR008	6c	4.1	28	2.9	91.7
AVVR009	8c	4.4	36	2.6	91.7
AVVR010	10c	5.2	46	2.5	91.7
AVVR011	14c	5.6	58	2.2	91.7
AVVR012	2c	3.4	18	5.5	63.5
AVVR013	3c	3.6	22	4.6	63.5
AVVR014	4c	3.8	26	4.2	63.5
AVVR015	5c	4.1	31	3.9	63.5
AVVR016	6c	4.4	36	3.7	63.5
AVVR017	8c	5.0	48	3.3	63.5
AVVR018	12c	5.8	66	2.9	63.5
AVVR019	20c	7.1	102	2.5	63.5

1.以上表格只列出部分产品, 需要更多规格请联系我们。(C=芯数 P=对数)

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值, 数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-TRVV | 国标电线

TPL-TRVV | GB wire



CCC fixed wiring power cord RoHS

国标电缆
GB cable



Long towing distance	耐长拖链距离	
Plasticity	柔软性	★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★
Life test of electric towing chain	电拖链寿命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 国际CCC标准
- 适用于端子台布线场合
- Rohs环保对应

◆ 电缆结构

- 采用5、6类多股绞合导体
- PVC阻燃绝缘
- 芯线以短节距绞合在一起
- 无纺布绕包
- 黑色PVC阻燃护套

◆ 规格参数

- 护套颜色：黑
- 获得标准：CCC
- UL文件No.：-
- GB编号：GB/T5023.5-2008
- 额定电压：300/300V
- 耐燃性：FT2

◆ 移动参数

- 使用温度范围：-15~+70
- 拖链次数（万次）：500
- 拖链最小弯曲半径：10D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：0
- 最大加速度：0

◆ key property

- National standard CCC standard.
- Suitable for terminal station wiring occasions.
- Rohs environmental protection correspondence.

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- PVC flame retardant insulation.
- The core wires are twisted together at a short pitch.
- Nonwoven fabric wrapping.
- Black PVC flame retardant sheath.

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: CCC
- UL file No.: -
- GB number: GB/T5023.5-2008
- Rated voltage: 300/300V
- Flame resistance: FT2

◆ Moving parameter

- Operating temperature range: -15~+70
- Number of drag chains (one million time): 500
- Minimum bending radius of towing chain: 10D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 0
- Maximum acceleration: 0

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
TRVV001	2C	4.3	25	5.1	86.8
TRVV002	3C	4.5	29	4.3	86.8
TRVV003	4C	4.8	34	3.8	86.8
TRVV004	5C	5.2	39	3.5	86.8
TRVV005	6C	5.5	45	3.3	86.8
TRVV006	8C	6.3	58	3.1	86.8
TRVV007	10C	6.7	67	2.8	86.8
TRVV008	12C	6.9	75	2.6	86.8
TRVV009	14C	7.2	85	2.5	86.8
TRVV010	16C	7.6	93	2.4	86.8
TRVV011	18C	7.9	103	2.3	86.8
TRVV012	20C	8.3	113	2.2	86.8
TRVV013	2C	4.4	30	5.0	63.2
TRVV014	3C	4.7	36	4.5	63.2
TRVV015	4C	5.4	48	3.9	63.2
TRVV016	5C	6.3	63	3.6	63.2
TRVV017	6C	6.8	74	3.4	63.2
TRVV018	7C	7.0	83	3.1	63.2
TRVV019	8C	4.8	41	5.2	63.2
TRVV020	9C	5.1	48	4.7	63.2
TRVV021	10C	5.8	62	4.1	63.2
TRVV022	11C	6.7	81	3.7	63.2
TRVV023	12C	7.2	93	3.4	63.2
TRVV024	13C	7.4	102	3.2	63.2
TRVV025	14C	5.2	43	7.2	35.1
TRVV026	15C	5.6	53	6.5	35.1
TRVV027	16C	6.5	72	5.7	35.1
TRVV028	18C	7.5	97	5.3	35.1
TRVV029	20C	8.1	114	4.9	35.1
TRVV030	2C	8.6	133	4.6	35.1
TRVV031	3C	5.6	57	7.4	35.1
TRVV032	4C	6.0	69	6.7	35.1
TRVV033	5C	6.9	91	5.8	35.1
TRVV034	6C	7.9	118	5.4	35.1
TRVV035	7C	8.5	137	5.0	35.1
TRVV036	8C	9.0	157	4.6	35.1

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
TRVV037	9C	6.0	59	9.5	23.5
TRVV038	10C	6.5	73	8.5	23.5
TRVV039	11C	7.7	100	7.5	23.5
TRVV040	12C	9.0	134	6.9	23.5
TRVV041	13C	9.9	163	6.5	23.5
TRVV042	14C	10.4	190	6.0	23.5
TRVV043	15C	6.4	76	9.7	23.5
TRVV044	16C	6.9	91	8.7	23.5
TRVV045	18C	8.1	123	7.7	23.5
TRVV046	20C	9.4	161	7.1	23.5
TRVV047	2C	10.3	193	6.6	23.5
TRVV048	3C	10.8	220	6.1	23.5
TRVV049	4C	7.1	83	8.3	25.4
TRVV050	5C	7.7	97	7.7	25.4
TRVV051	6C	8.3	113	7.3	25.4
TRVV052	8C	9.5	148	6.7	25.4
TRVV053	10C	10.5	179	6.2	25.4
TRVV054	12C	10.8	202	5.8	25.4
TRVV055	2C	6.7	64	13.0	19.6
TRVV056	3C	7.3	82	11.0	19.6
TRVV057	4C	7.9	102	9.9	19.6
TRVV058	5C	8.5	116	9.2	19.6
TRVV059	6C	9.2	137	8.7	19.6
TRVV060	8C	10.8	185	8.0	19.6
TRVV061	10C	11.4	215	7.4	19.6
TRVV062	12C	12.1	250	6.9	19.6
TRVV063	2C	7.5	84	17.2	12.5
TRVV064	3C	7.9	105	14.4	12.5
TRVV065	4C	8.6	131	13.0	12.5
TRVV066	5C	9.6	157	12.1	12.5
TRVV067	6C	10.6	191	11.5	12.5
TRVV068	2C	8.9	121	23.2	7.9
TRVV069	3C	9.4	154	19.5	7.9
TRVV070	4C	10.5	197	17.6	7.9
TRVV071	5C	11.4	231	16.3	7.9
TRVV072	6C	12.4	274	15.5	7.9

1.以上表格只列出一部分产品，需要更多规格请联系我们。(C=芯数 P=对绞)

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-TRVVP | 国标电线

TPL-TRVVP | GB wire



CCC fixed wiring power cord shield RoHS

国标电缆
GB cable



Long towing distance	耐长拖链距离	
Plasticity	柔软性	★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★
Interference resistance	耐干扰性	★★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★
Life test of electric towing chain	电拖链寿命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 国标CCC标准
- 适应于端子台布线场合
- 带屏蔽·抗干扰性能优越
- Rohs环保对应

◆ 电缆结构

- 采用5、6类多股绞合导体
- PVC阻燃绝缘
- 芯线以短节距绞合在一起
- 无纺布绕包
- 镀锡铜编织屏蔽·屏蔽率≥70%
- 黑色PVC阻燃护套

◆ 规格参数

- 护套颜色：黑
- 获得标准：CCC
- UL文件No.：-
- GB编号：GB/T5023.7-2008
- 额定电压：300/500V
- 耐燃性：FT2

◆ 移动参数

- 使用温度范围：-15~+70
- 拖链次数（万次）：500
- 拖链最小弯曲半径：10D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：0
- 最大加速度：0

◆ key property

- National standard CCC standard.
- Suitable for terminal station wiring occasions.
- With shielding, excellent anti-interference performance.
- Rohs environmental protection correspondence.

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- PVC flame retardant insulation.
- The core wires are twisted together at a short pitch.
- Nonwoven fabric wrapping.
- Tinned copper braided shield, shielding rate ≥70%.
- Black PVC flame retardant sheath.

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: CCC
- UL file No.: -
- GB number: GB/T5023.7-2008
- Rated voltage: 300/500V
- Flame resistance: FT2

◆ Moving parameter

- Operating temperature range: -15~+70
- Number of drag chains (one million time): 500
- Minimum bending radius of towing chain: 10D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 0
- Maximum acceleration: 0

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
TRVVP001	1P	3.1	15	3.5	150.0
TRVVP002	2P	4.1	27	2.8	150.0
TRVVP003	3P	4.3	31	2.4	150.0
TRVVP004	4P	4.7	36	2.1	150.0
TRVVP005	7P	5.5	52	1.7	150.0
TRVVP006	10P	7.7	88	1.6	150.0
TRVVP007	1P	3.4	19	4.6	91.7
TRVVP008	2P	4.8	35	3.8	91.7
TRVVP009	3P	5.0	42	3.2	91.7
TRVVP010	4P	5.4	50	2.9	91.7
TRVVP011	5P	5.8	57	2.7	91.7
TRVVP012	10P	8.5	115	2.2	91.7
TRVVP013	1P	3.6	22	5.7	63.5
TRVVP014	2P	5.2	42	4.8	63.5
TRVVP015	3P	5.4	51	4.0	63.5
TRVVP016	4P	6.1	64	3.6	63.5
TRVVP017	10P	9.0	135	2.7	63.5
TRVVP018	3P	6.6	75	5.5	38.4

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
TRVVP019	2C	4.5	30	4.2	126.9
TRVVP020	3C	4.7	34	3.6	126.9
TRVVP021	4C	5.0	39	3.2	126.9
TRVVP022	5C	5.3	44	2.9	126.9
TRVVP023	6C	5.6	49	2.8	126.9
TRVVP024	2C	4.7	33	5.3	86.8
TRVVP025	3C	4.9	38	4.4	86.8
TRVVP026	4C	5.2	44	4.0	86.8
TRVVP027	5C	5.6	50	3.7	86.8
TRVVP028	6C	5.9	57	3.4	86.8
TRVVP029	2C	5.0	38	6.1	68.8
TRVVP030	3C	5.2	44	5.1	68.8
TRVVP031	4C	5.6	51	4.6	68.8
TRVVP032	5C	5.9	58	4.2	68.8
TRVVP033	6C	6.3	67	4.0	68.8
TRVVP034	2C	6.3	59	8.7	39.3
TRVVP035	3C	6.6	69	7.3	39.3
TRVVP036	4C	7.0	82	6.6	39.3
TRVVP037	5C	7.6	93	6.1	39.3
TRVVP038	6C	8.1	108	5.8	39.3

1. 以上表格只列出一部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2. 以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-TRVVPS | 国标电线

TPL-TRVVPS | GB wire



Long towing distance	耐长拖链距离	
Plasticity	柔软性	★★
Weather ability	耐候性	★★
Oil resistivity	耐油性	★
Interference resistance	耐干扰性	★★★
Torsion resistance	耐扭转性	★
Swing resistance	耐摇摆性	★★
Life test of electric towing chain	电拖链寿命测试	★
Acid alkali corrosion resistance	耐酸碱腐蚀	★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 国标CCC标准
- 适用于端子台布线场合
- 带屏蔽，抗干扰性能优越
- Rohs环保对应

◆ 电缆结构

- 采用5、6类多股绞合导体
- PVC阻燃绝缘
- 芯线以短节距绞合在一起
- 无纺布绕包
- 镀锡铜编织屏蔽，屏蔽率>70%
- 黑色PVC阻燃护套

◆ 规格参数

- 护套颜色：黑
- 获得标准：CCC
- UL文件No.：-
- GB编号：GB/T5023.7-2008
- 额定电压：300/500V
- 耐燃性：FT2

◆ 移动参数

- 使用温度范围：-15~+70
- 拖链次数（万次）：500
- 拖链最小弯曲半径：10D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：0
- 最大加速度：0

◆ key property

- National standard CCC standard.
- Suitable for terminal station wiring occasions.
- With shielding, excellent anti-interference performance.
- Rohs environmental protection correspondence.

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- PVC flame retardant insulation.
- The core wires are twisted together at a short pitch.
- Nonwoven fabric wrapping.
- Tinned copper braided shield, shielding rate >70%.
- Black PVC flame retardant sheath.

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: CCC
- UL file No.: -
- GB number: GB/T5023.7-2008
- Rated voltage: 300/500V
- Flame resistance: FT2

◆ Moving parameter

- Operating temperature range: -15~+70
- Number of drag chains (one million time): 500
- Minimum bending radius of towing chain: 10D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 0
- Maximum acceleration: 0

◆ 规格

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
TRVVPS001	1P	4.5	29	4.2	126.9
TRVVPS002	2P	5.6	46	3.4	126.9
TRVVPS003	3P	6.2	56	2.9	126.9
TRVVPS004	4P	6.7	66	2.6	126.9
TRVVPS005	5P	7.2	75	2.4	126.9
TRVVPS006	6P	7.7	87	2.3	126.9
TRVVPS007	7P	8.3	99	2.2	126.9
TRVVPS008	8P	8.9	111	2.1	126.9
TRVVPS009	9P	8.9	118	2.0	126.9
TRVVPS010	10P	8.9	120	1.9	126.9
TRVVPS011	20P	12.5	225	1.5	126.9
TRVVPS012	1P	4.7	32	5.3	86.8
TRVVPS013	2P	5.9	52	4.2	86.8
TRVVPS014	3P	6.6	65	3.6	86.8
TRVVPS015	4P	7.1	77	3.2	86.8
TRVVPS016	5P	7.7	88	3.0	86.8
TRVVPS017	6P	8.3	102	2.8	86.8
TRVVPS018	7P	8.9	116	2.7	86.8
TRVVPS019	8P	9.7	136	2.6	86.8
TRVVPS020	9P	9.7	145	2.5	86.8
TRVVPS021	10P	9.7	148	2.4	86.8
TRVVPS022	20P	13.6	278	1.9	86.8

◆ Specifications

产品编号 Product number	规格 (mm²) Specifications	外径 (mm) Outside diameter	重量 (kg/km) Weight	载流量 A(30°C) Carrying capacity	导体电阻 Ω/km(20°C) Conductor resistance
TRVVPS023	1P	5.0	36	6.1	68.8
TRVVPS024	2P	6.3	60	4.8	68.8
TRVVPS025	3P	7.1	76	4.2	68.8
TRVVPS026	4P	7.7	91	3.8	68.8
TRVVPS027	5P	8.5	107	3.5	68.8
TRVVPS028	6P	9.2	124	3.3	68.8
TRVVPS029	7P	9.9	143	3.2	68.8
TRVVPS030	8P	10.5	162	3.1	68.8
TRVVPS031	9P	10.5	172	2.9	68.8
TRVVPS032	10P	10.5	176	2.8	68.8
TRVVPS033	20P	14.9	332	2.2	68.8
TRVVPS034	1P	5.9	51	8.6	39.3
TRVVPS035	2P	7.9	95	6.9	39.3
TRVVPS036	3P	8.7	115	6.0	39.3
TRVVPS037	4P	9.7	144	5.4	39.3
TRVVPS038	5P	10.5	164	5.0	39.3
TRVVPS039	6P	11.8	203	4.8	39.3
TRVVPS040	7P	12.7	235	4.6	39.3
TRVVPS041	8P	13.9	274	4.4	39.3
TRVVPS042	9P	13.9	293	4.2	39.3
TRVVPS043	10P	13.9	299	4.0	39.3

1.以上表格只列出一部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

耐高温电缆



型号齐全·颜色多选

——为安全用电保驾护航——



TPL-SX | 耐温125℃交联辐照PE电缆

TPL-SX | Heat-resistant 125°C Crosslinked Irradiation PE Cable

耐高温

耐候

高机械强度

信号线

电源线

RoHS

high temperature resistance

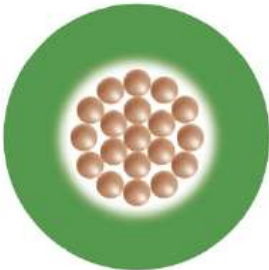
weather resistance

high mechanical strength

signal line

power cord

RoHS



Long towing distance	耐长拖链距离	★★★★
Plasticity	柔软性	★★★★
Weather ability	耐候性	★★★★
Oil resistivity	耐油性	★★★★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★★★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★

※ 上图仅作为特性参考使用
※ The above picture is only used as a characteristic reference

◆ 主要特性

- 无卤控制和连接电缆
- 增强的耐热、耐候性能
- Rohs环保对应

◆ 电缆结构

- 采用5、6类多股绞合导体
- 无卤芯绝缘XLPE

◆ 规格参数

- 护套颜色：13色可选
- 获得标准：非标or UL
- UL文件No.：3266
- 额定电压：300V
- 耐燃性：FT2

◆ 移动参数

- 使用温度范围：-40~+125
- 拖链次数（万次）：2000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：3
- 最大加速度：30

◆ key property

- Halogen-free control and connecting cables.
- Enhanced heat and weather resistance.
- Rohs environmental protection correspondence.

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- Halogen-free core insulation XLPE.

◆ Specification parameter

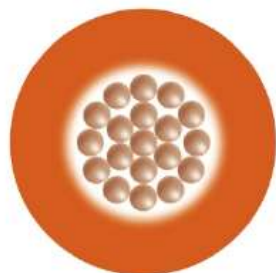
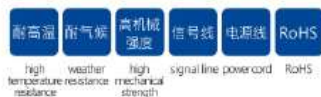
- Sheath color：13 colors optional
- Acquisition criteria：Non-standard or UL
- UL file No.：3266
- Rated voltage：300V
- Flame resistance：FT2

◆ Moving parameter

- Operating temperature range：-40~+125
- Number of drag chains (one million time)：2000
- Minimum bending radius of towing chain：6D
- Minimum bending radius for fixed laying：4D
- Maximum overhead speed：3
- Maximum acceleration：30

TPL-SS | 耐温180°C硅胶电缆

TPL-SS | Heat-resistant 180°C silica gel cable



Long towing distance	耐长拖链距离	★★★★★
Plasticity	柔软性	★★★★★
Weather ability	耐候性	★★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★★★★★
Swing resistance	耐摇摆性	★★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 特种硅橡胶电缆
- 更高的耐热、耐候性能
- Rohs环保对应

◆ 电缆结构

- 采用5、6类多股绞合导体
- 特种硅橡胶芯线绝缘

◆ 规格参数

- 护套颜色：13色可选
- 获得标准：非标 or UL
- UL文件No.：3135
- 额定电压：600V
- 耐燃性：VW-1

◆ 移动参数

- 使用温度范围：-50 ~ +180
- 拖链次数（万次）：5000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：10
- 最大加速度：30

◆ key property

- Special silicone rubber cable.
- Higher heat resistance and weather resistance.
- Rohs environmental protection correspondence.

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- Special silicone rubber core wire insulation.

◆ Specification parameter

- Sheath color: 13 colors optional
- Acquisition criteria: Non-standard or UL
- UL file No.: 3135
- Rated voltage: 600V
- Flame resistance: VW-1

◆ Moving parameter

- Operating temperature range: -50 ~ +180
- Number of drag chains (one million time): 5000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 10
- Maximum acceleration: 30

◆ 规格

◆ Specifications

产品编号 Product number	标称截面 (mm) Nominal section	导体(支数/线径) (No./mm) Conductor (number /wire diameter)	绝缘厚度 (mm) Insulation thickness	外径 (mm) Outside diameter	导体电阻 Ω/km(20°C) Conductor resistance
SS001	0.2	12/0.15	0.60	1.80	95
SS002	0.3	17/0.15	0.60	1.90	71.2
SS003	0.4	23×0.15	0.70	2.20	49.6
SS004	0.5	28×0.15	0.60	2.20	40.1
SS005	0.75	42×0.15	0.70	2.60	26.7
SS006	1.0	32×0.20	0.70	2.80	20.0
SS007	1.5	48×0.20	0.70	3.10	13.7
SS008	2.5	49×0.25	0.80	3.70	8.21
SS009	4.0	56×0.30	0.80	4.30	5.09
SS010	6.0	84×0.30	0.80	5.20	3.39
SS011	10	84×0.40	1.00	6.80	1.95
SS012	16	126×0.40	1.20	8.40	1.24
SS013	25	196×0.40	1.40	10.40	0.795

1. 以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

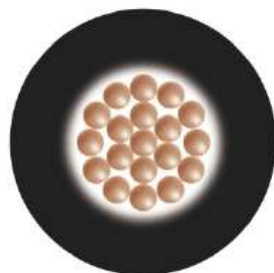
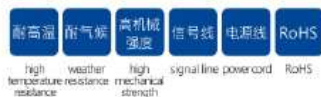
The above table only lists some products. Please contact us if you need more specifications. (C = core number P = Pair of twisted)

2. 以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-SF | 耐温200°C含氟高分子材料电缆

TPL-SF | Temperature-resistant 200°C Fluoropolymer Cable



Long towing distance	耐长拖链距离	★★★★★
Plasticity	柔软性	★★★★★
Weather ability	耐候性	★★★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★
Torsion resistance	耐扭转性	★★★★★
Swing resistance	耐摇摆性	★★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 含氟高分子材料，绝缘电阻佳，低介电损耗
- 具有极高的耐热，耐候性能
- 满足更高的应用要求
- Rohs环保对应

◆ key property

- Fluorine-containing polymer material has good insulation resistance and low dielectric loss.
- It has high heat and weather resistance.
- Meet higher application requirements.
- Rohs environmental protection correspondence.

◆ 电缆结构

- 采用5、6类多股绞合导体
- 铁氟龙芯线绝缘

◆ Construction of cable

- Class 5 and 6 stranded conductors are used.
- Teflon core insulation.

◆ 规格参数

- 护套颜色：13色可选
- 获得标准：非标或 UL
- UL文件No.: 1332
- 额定电压：300V
- 耐燃性：VW-1

◆ Specification parameter

- Sheath color: 13 colors optional
- Acquisition criteria: Non-standard or UL
- UL file No.: 1332
- Rated voltage: 300V
- Flame resistance: VW-1

◆ 移动参数

- 使用温度范围：-60 ~ +200
- 拖链次数（万次）：5000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：10
- 最大加速度：30

◆ Moving parameter

- Operating temperature range: -60 ~ +200
- Number of drag chains (one million time): 5000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 10
- Maximum acceleration: 30

◆ 规格

◆ Specifications

产品编号 Product number	标称截面 (mm) Nominal section	导体(支数/线径) (No./mm) Conductor (number /wire diameter)	绝缘厚度 (mm) Insulation thickness	外径 (mm) Outside diameter	导体电阻 Ω/km(20°C) Conductor resistance
SF001	0.014	7/0.05	0.15	0.45	1343
SF002	0.035	7/0.08	0.15	0.60	525
SF003	0.05	1/0.26(7/0.10)	0.15	0.60	330
SF004	0.07	1/0.30	0.20	0.70	245
SF005	0.08	7/0.12	0.20	0.78	227
SF006	0.12	7/0.15	0.20	0.85	128
SF007	0.20	7/0.20	0.25	1.10	90.4
SF008	0.35	19/0.16	0.25	1.30	49.5
SF009	0.50	19/0.18	0.25	1.40	30.1
SF010	0.75	19/0.23	0.25	1.70	22.7
SF011	1.0	19/0.26	0.25	1.80	17.8
SF012	1.20	19/0.28	0.30	2.0	15.3
SF013	1.50	19/0.32	0.30	2.20	11.7
SF014	2.0	19/0.37	0.30	2.45	8.78
SF015	2.5	19/0.41	0.40	2.95	6.86

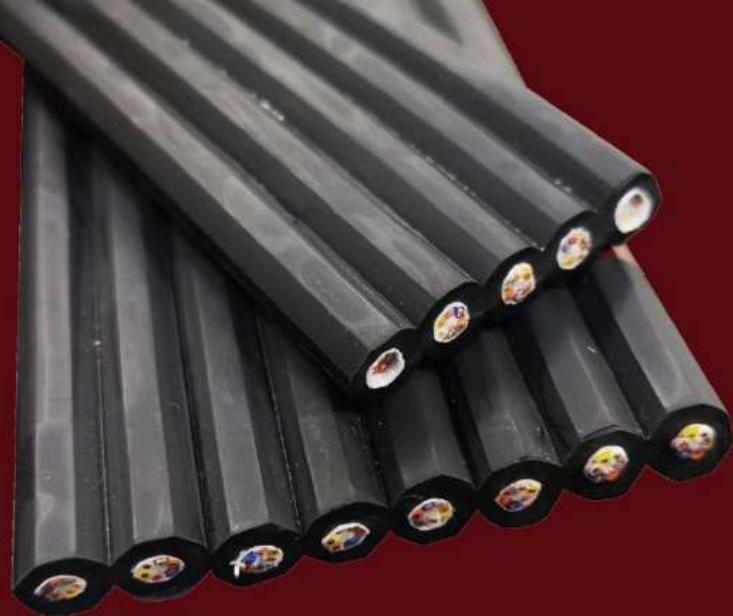
1. 以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

The above table only lists some products. Please contact us if you need more specifications. (C = core number P = Pair of twisted)

2. 以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

拖链排线



拖链排线

可定制线·线序·排列方式·电线规格



TPL-FC | 高性能扁平拖链排线

TPL-FC | High performance flat drag chain cable



Long towing distance	耐长拖链距离	★★★★★
Plasticity	柔软性	★★★★
Weather ability	耐候性	★★★
Oil resistivity	耐油性	★★★★★
Interference resistance	耐干扰性	★★★★
Torsion resistance	耐扭转性	★★★★
Swing resistance	耐摇摆性	★★★★
Life test of electric towing chain	电拖链寿命测试	★★★★
Acid alkali corrosion resistance	耐酸碱腐蚀	★★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 高性能拖链技术，优越的灵活性
- 混合设计，提供无限的选择
- 优化布局
- 带屏蔽，抗干扰性能优越
- Rohs环保对应

◆ 电缆结构

- 采用超细铜丝6类多股复合绞合导体，柔韧性好
- 绝缘采用弹性TPE材料
- 芯线以优化短节距绞合在一起
- 无纺布绕包
- 镀锡铜缠绕屏蔽，屏蔽率≥95%
- 改性PVC护套

◆ 规格参数

- 护套颜色：黑
- 获得标准：非标
- UL文件No.：-
- 额定电压：300/500V
- 耐燃性：VW-1

◆ 移动参数

- 使用温度范围：-20 ~ +105
- 拖链次数（万次）：2000
- 拖链最小弯曲半径：6D
- 固定敷设最小弯曲半径：4D
- 最大架空速度：10
- 最大加速度：80

◆ key property

- High performance drag chain technology, superior flexibility.
- Mixed design, offering unlimited choices.
- Optimize layout.
- With shielding, excellent anti-interference performance.
- Rohs environmental protection correspondence.

◆ Construction of cable

- The ultra-fine copper wire is used as 6 kinds of multi-strand composite stranded conductor, which has good flexibility.
- Elastic TPE material is used for insulation.
- The core wires are twisted together at an optimized short pitch.
- Nonwoven fabric wrapping.
- Tin-plated copper winding shielding, shielding rate ≥95%.
- Modified PVC sheath.

◆ Specification parameter

- Sheath color: black
- Acquisition criteria: non-standard
- UL file No.: -
- Rated voltage: 300/500V
- Flame resistance: VW-1

◆ Moving parameter

- Operating temperature range: -20 ~ +105
- Number of drag chains (one million time): 2000
- Minimum bending radius of towing chain: 6D
- Minimum bending radius for fixed laying: 4D
- Maximum overhead speed: 10
- Maximum acceleration: 80

◆ 规格

◆ Specifications

产品编号 Product number	规格 Specifications	电缆外径 (mm) Weight	参考重量 kg/km Reference weight
FC001	HD2-SB/2PX0.2mm ²	6.0	54
FC002	HD2-SB/3PX0.2mm ²	6.0	61
FC003	HD2-SB/8X0.2mm ²	6.0	63
FC004	CAT.5E -HP1-AB/4PX26AWG	6.0	61
FC005	HDF2/4X0.5mm ²	6.0	58
FC001	HD2-SB/2PX0.2mm ²	6.0	54
FC006	HD2-SB/6X0.2mm ²	6.0	61

产品编号 Product number	规格 Specifications	电缆外径 (mm) Weight	参考重量 kg/km Reference weight
FC007	HD2/2X0.3mm ²	5.8	43
FC008	HD1-SB/2PX0.2mm ²	5.8	54
FC008	HD1-SB/2PX0.2mm ²	5.8	54
FC009	HD1-SB/6X0.2mm ²	5.8	54
FC010	HDF2/4X20AWG	5.8	55
FC010	HDF2/4X20AWG	5.8	55
FC010	HDF2/4X20AWG	5.8	55
FC008	HD1-SB/2PX0.2mm ²	5.8	54
FC011	HD1/4X0.2mm ²	5.8	45

产品编号 Product number	规格 Specifications	电缆外径 (mm) Weight	参考重量 kg/km Reference weight
FC012	CAT.5E -HP1-AB/4PX26AWG	5.8	62
FC010	HDF2/4X20AWG	5.8	55
FC010	HDF2/4X20AWG	5.8	55
FC013	HD1-SB/4PX0.2mm ²	5.8	60
FC013	HD1-SB/4PX0.2mm ²	5.8	60
FC014	HD1/18X0.1mm ² +2X0.5mm ²	6.9	82
FC014	HD1/18X0.1mm ² +2X0.5mm ²	6.9	82
FC015	TUS0805B/外φ8·内φ5	8.0	35

产品编号 Product number	规格 Specifications	电缆外径 (mm) Weight	参考重量 kg/km Reference weight
FC005	HDF2/4X0.5mm ²	6.0	58
FC016	TUS0604B/外φ6·内φ4	6.0	20
FC003	HD2-SB/8X0.2mm ²	6.0	63

1. 以上表格只列出部分产品，需要更多规格请联系我们。（C=芯数 P=对绞）

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2. 以上数字仅为参考值，数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

日系PSE 认证线缆



TPL-VCTF | 300V聚氯乙烯护套电缆

TPL-VCTF | 300V PVC sheathed cable



Heat resistance	耐热性	★
Oil resistance	耐油性	★
Noise tolerance	耐噪声性	★
Fire resistance	阻燃性	★★★
Plasticity	柔软性	★★
Non-mobility	非移动性	★
Moving characteristics	移动特性	★★

※ 上图仅作为特性参考使用
※ The above picture is only used as a characteristic reference

◆ 主要特性

- 日本电气用品安全法对应产品
- 适用规格:日本工业规格 (JIS)c 3306:200
- 对应国际规格:IEC 60227-5:1997
- 通过日本工业规格 (JIS)c 3005的试验

◆ key property

- Japanese electrical products safety law products.
- Applicable specification: Japanese Industrial Standards (JIS) C 3306:200.
- Corresponding international specification: IEC 60227-5:1997.
- By Japanese Industrial Standards (JIS) C 3005.

◆ 用途

- 用于300V以下的小型电气制品

◆ Use

- Used for small electrical products below 300V.

◆ 规格

◆ Specifications

产品编号 Product number	导体结构 Conductor structure	导体外径 (mm) Outside diameter of conductor	绝缘外径 (mm) Insulation diameter	芯数 Core number	外径 (mm) Outside diameter	估算质量 (kg/km) Budget quality	许可电流A Allowable current
VCTF001	0.5mm ²	0.9 (20/0.18)	1.9	2	5.8	45	5
VCTF002				3	6.1	55	5
VCTF003				4	6.6	65	5
VCTF004				5	7.1	75	4
VCTF005				6	7.7	90	4
VCTF006				7	7.7	95	4
VCTF007				8	8.6	100	4
VCTF008				10	9.7	120	3
VCTF009				12	10.0	140	3
VCTF010				14	10.5	155	3
VCTF011				15	11.0	165	3
VCTF012				16	11.0	175	3
VCTF013				20	12.5	210	3
VCTF014				24	14.0	255	2
VCTF015				25	14.0	265	2
VCTF016				26	14.0	275	2
VCTF017				30	14.5	305	2
VCTF018				40	17.0	405	2
VCTF019				50	18.5	490	2
VCTF020				60	20.0	590	1
VCTF021	0.75mm ²	1.1 (30/0.18)	2.3	2	6.6	60	7
VCTF022				3	7.0	70	7
VCTF023				4	7.6	85	7
VCTF024				5	8.2	105	6
VCTF025				6	8.9	120	6
VCTF026				7	8.9	125	5
VCTF027				8	10.0	140	5
VCTF028				10	11.5	170	5
VCTF029				12	11.5	190	4
VCTF030				14	12.5	220	4
VCTF031				15	12.5	235	4
VCTF032				16	13.0	245	4
VCTF033				20	14.5	305	4
VCTF034				24	16.5	365	3
VCTF035				25	16.5	380	3
VCTF036				26	16.5	390	3
VCTF037				30	17.0	435	3
VCTF038				40	20.0	580	3
VCTF039				50	22.0	720	2
VCTF040				60	24.0	850	2
VCTF041				70	26.0	1000	2

1.以上表格只列出部分产品,需要更多规格请联系我们。(C=芯数 P=对绞)
The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值,数字以最终规格书为准。
The above figures are for reference only, and the figures are subject to the final specification.

TPL-VCTF | 300V聚氯乙烯护套电缆

TPL-VCTF | 300V PVC sheathed cable



Heat resistance	耐热性	★
Oil resistance	耐油性	★
Noise tolerance	耐噪声性	★
Fire resistance	阻燃性	★★★
Plasticity	柔软性	★★
Non-mobility	非移动性	★
Moving characteristics	移动特性	★★

※ 上图仅作为特性参考使用
※ The above picture is only used as a characteristic reference

◆ 主要特性

- 日本电气用品安全法对应产品
- 适用规格:日本工业规格 (JIS) c 3306:200
- 对应国际规格:IEC 60227-5:1997
- 通过日本工业规格 (JIS) c 3005的试验

◆ 用途

- 用于300V以下的小型电气制品

◆ key property

- Japanese electrical products safety law products.
- Applicable specification: Japanese Industrial Standards (JIS) C 3306:200.
- Corresponding international specification: IEC 60227-5:1997.
- By Japanese Industrial Standards (JIS) C 3005.

◆ Use

- Used for small electrical products below 300V.

◆ 规格

◆ Specifications

产品编号 Product number	导体结构 Conductor structure	导体外径 (mm) Outside diameter of conductor	绝缘外径 (mm) Insulation diameter	芯数 Core number	不带屏蔽 no-shield		屏蔽 shield		许容电流A Allowable current
					外径 (mm) Outside diameter	估算质量 (kg/km) Budget quality	外径 (mm) Outside diameter	估算质量 (kg/km) Budget quality	
VCTF042	0.3mm ² (23AWG)	0.7 (60/0.08)	1.7	2	5.4	40	6.1	55	4
VCTF043				3	5.7	45	6.4	60	4
VCTF044				4	6.1	50	6.8	65	4
VCTF045				5	6.8	55	7.3	70	4
VCTF046				6	7.3	65	7.8	80	4
VCTF047				7	7.8	75	8.3	90	3
VCTF048				8	8.3	80	8.8	100	3
VCTF049				10	9.4	100	9.9	120	3
VCTF050				12	9.2	105	9.6	125	3
VCTF051				14	9.6	115	10.0	140	3
VCTF052				15	9.8	120	10.5	150	2
VCTF053				16	10.0	130	10.5	155	2
VCTF054				20	11.0	160	11.5	185	2
VCTF055				24	12.5	190	13.0	220	2
VCTF056				25	12.5	195	13.0	240	2
VCTF057	0.5mm ² (20AWG)	0.95 (108/0.08)	1.9	2	5.8	45	6.5	60	6
VCTF058				3	6.1	55	6.8	70	6
VCTF059				4	6.6	65	7.2	80	6
VCTF060				5	7.3	70	7.8	90	5
VCTF061				6	7.9	85	8.4	100	5
VCTF062				7	8.5	95	9.0	115	5
VCTF063				8	9.1	110	9.6	130	4
VCTF064				10	10.5	135	11.0	160	4
VCTF065				12	10.0	140	10.5	160	4
VCTF066				14	10.5	160	11.0	180	4
VCTF067				15	11.0	170	11.5	195	3
VCTF068				16	11.0	180	11.5	205	3
VCTF069				20	12.5	215	13.0	245	3
VCTF070	0.75mm ² (19AWG)	1.1 (67/0.12)	2.3	2	6.6	60	7.3	80	8
VCTF071				3	7.0	70	7.7	90	8
VCTF072				4	7.6	85	8.3	105	8
VCTF073				5	8.4	95	8.9	115	7
VCTF074				6	9.1	110	9.6	130	7
VCTF075				7	9.8	130	10.5	150	6
VCTF076				8	10.5	145	11.0	165	6
VCTF077				10	12.5	185	13.0	210	6
VCTF078				12	12.0	190	12.5	215	5
VCTF079				14	12.5	220	13.0	245	5
VCTF080				15	12.5	230	13.0	260	5
VCTF081				16	13.0	245	13.5	280	5
VCTF082				20	14.5	305	15.0	335	4

- 1.以上表格只列出部分产品 - 需要更多规格请联系我们 - (C=芯数 P=对绞)
The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)
- 2.以上数字仅为参考值 - 数字以最终规格书为准 -
The above figures are for reference only, and the figures are subject to the final specification.

TPL-VCTF | 300V聚氯乙烯护套电缆

TPL-VCTF | 300V PVC sheathed cable



Heat resistance	耐热性	★
Oil resistance	耐油性	★
Noise tolerance	耐噪声性	★
Fire resistance	阻燃性	★★★
Plasticity	柔软性	★★
Non-mobility	非移动性	★
Moving characteristics	移动特性	★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 日本电气用品安全法对应产品
- 适用规格:日本工业规格 (JIS)c 3306:200
- 对应国际规格:IEC 60227-5:1997
- 通过日本工业规格 (JIS)c 3005的试验

◆ 用途

- 用于300V以下的小型电气制品

◆ key property

- Japanese electrical products safety law products.
- Applicable specification: Japanese Industrial Standards (JIS) C 3306:200.
- Corresponding international specification: IEC 60227-5:1997.
- By Japanese Industrial Standards (JIS) C 3005.

◆ Use

- Used for small electrical products below 300V.

◆ 规格

◆ Specifications

产品编号 Product number	导体结构 Conductor structure	导体外径 (mm) Outside diameter of conductor	绝缘外径 (mm) Insulation diameter	芯数 Core number	不带屏蔽 no-shield		屏蔽 shield		许容电流A Allowable current
					外径 (mm) Outside diameter	估算质量 (kg/km) Budget quality	外径 (mm) Outside diameter	估算质量 (kg/km) Budget quality	
VCTF083	0.5mm ²	0.9 (20/0.18)	1.9	2	5.8	45	6.5	65	5
VCTF084				3	6.1	55	6.8	70	5
VCTF085				4	6.6	65	7.3	85	5
VCTF086				5	-	-	7.7	90	4
VCTF087				6	-	-	8.3	105	4
VCTF088				7	-	-	8.3	105	4
VCTF089				8	-	-	9.1	120	4
VCTF090				10	-	-	10.5	150	3
VCTF091				12	-	-	10.5	165	3
VCTF092				14	-	-	11.0	185	3
VCTF093				15	-	-	11.5	195	3
VCTF094				16	-	-	11.5	205	3
VCTF095				20	-	-	13.0	245	3
VCTF096				24	-	-	14.5	295	2
VCTF097				25	-	-	14.5	305	2
VCTF098	0.75mm ²	1.1 (30/0.18)	2.3	2	6.6	60	7.3	80	7
VCTF099				3	7.0	75	7.7	95	7
VCTF100				4	7.6	90	8.3	110	7
VCTF101				5	-	-	8.8	115	6
VCTF102				6	-	-	9.5	135	6
VCTF103				7	-	-	9.5	140	5
VCTF104				8	-	-	10.5	165	5
VCTF105				10	-	-	12.0	205	5
VCTF106				12	-	-	12.0	220	4
VCTF107				14	-	-	13.0	250	4
VCTF108				15	-	-	13.0	270	4
VCTF109				16	-	-	14.0	290	4
VCTF110				20	-	-	15.0	345	4
VCTF111	1.25mm ²	1.5 (50/0.18)	2.7	2	7.4	80	8.1	105	12
VCTF112				3	7.8	100	8.5	120	12
VCTF113				4	8.5	120	9.2	145	12
VCTF114				5	-	-	9.9	155	9
VCTF115				6	-	-	11.0	180	8
VCTF116				7	-	-	11.0	190	7
VCTF117				8	-	-	12.0	220	7
VCTF118				10	-	-	13.5	280	7
VCTF119				12	-	-	14.0	310	6
VCTF120				14	-	-	15.0	355	6
VCTF121				15	-	-	15.0	375	6
VCTF122				16	-	-	15.5	400	6
VCTF123				20	-	-	17.5	485	5

1.以上表格只列出部分产品 - 需要更多规格请联系我们 - (C=芯数 P=对绞)

The above table only lists some products. Please contact us if you need more specifications. (C = core number P = Pair of twisted)

2.以上数字仅为参考值 - 数字以最终规格书为准 -

The above figures are for reference only, and the figures are subject to the final specification.

TPL-VCTF | 300V聚氯乙烯护套电缆

TPL-VCTF | 300V PVC sheathed cable



Heat resistance	耐热性	★
Oil resistance	耐油性	★
Noise tolerance	耐噪声性	★
Fire resistance	阻燃性	★★★
Plasticity	柔软性	★★
Non-mobility	非移动性	★
Moving characteristics	移动特性	★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 日本电气用品安全法对应产品
- 适用规格:日本工业规格 (JIS)C 3306:200
- 对应国际规格:IEC 60227-5:1997
- 通过日本工业规格 (JIS)C 3005的试验

◆ 用途

- 用于300V以下的小型电气制品

◆ key property

- Japanese electrical products safety law products.
- Applicable specification: Japanese Industrial Standards (JIS) C 3306:200.
- Corresponding international specification: IEC 60227-5:1997.
- By Japanese Industrial Standards (JIS) C 3005.

◆ Use

- Used for small electrical products below 300V.

◆ 规格

◆ Specifications

产品编号 Product number	导体结构 Conductor structure	导体外径 (mm) Outside diameter of conductor	绝缘外径 (mm) Insulation diameter	芯数 Core number	外径 (mm) Outside diameter	估算质量 (kg/km) Budget quality	许容电流A Allowable current
VCTF124	0.5mm ² (20AWG)	1.1 (6/18/0.08)	2.35	2	7.2	55	6
VCTF125				3	7.3	65	6
VCTF126				4	8.2	80	6
VCTF127				5	9.0	95	5
VCTF128				6	9.5	110	5
VCTF129				7	10.5	125	5
VCTF130				8	11.5	150	4
VCTF131				10	12.0	165	4
VCTF132				12	12.0	190	4
VCTF133				14	13.0	205	4
VCTF134	0.75mm ² (18AWG)	1.5 (6/28/0.08)	2.7	16	14.0	245	3
VCTF135				2	7.8	70	8
VCTF136				3	8.1	85	8
VCTF137				4	9.0	100	8
VCTF138				5	10.0	120	7
VCTF139				6	10.5	145	7
VCTF140				7	11.5	165	6
VCTF141				8	12.0	185	6
VCTF142				10	13.0	215	6
VCTF143				12	14.0	250	5
VCTF144	1.25mm ² (16AWG)	1.9 (6/47/0.08)	3.1	14	14.5	285	5
VCTF145				16	16.0	345	5
VCTF146				2	8.5	90	14
VCTF147				3	9.0	110	14
VCTF148				4	9.8	135	14
VCTF149				5	11.0	165	11
VCTF150				6	12.0	195	10
VCTF151				7	13.0	225	9
VCTF152				8	14.0	255	9
VCTF153				10	15.0	305	8
VCTF154	2mm ² (14AWG)	2.2 (6/71/0.08)	3.4	12	16.5	380	8
VCTF155				14	17.0	425	7
VCTF156				16	18.0	475	7
VCTF157				2	9.1	110	20
VCTF158				3	9.6	140	20
VCTF159				4	10.5	175	20
VCTF160				5	12.0	210	14
VCTF161				6	12.5	250	13
VCTF162				7	14.0	295	12
VCTF163				8	15.0	335	11
VCTF164				10	17.0	420	11

1.以上表格只列出部分产品,需要更多规格请联系我们。(C=芯数 P=对绞)

The above table only lists some products. Please contact us if you need more specifications. (C = core number P = Pair of twisted)

2.以上数字仅为参考值,数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-VCT | 600V聚氯乙烯绝缘,聚氯乙烯护套移动用电线

TPL-VCT | 600V PVC insulated and PVC sheathed mobile cable



Heat resistance	耐 热 性	★
Oil resistance	耐 油 性	★★★
Noise tolerance	耐 噪 声 性	★
Fire resistance	阻 燃 性	★★★
Plasticity	柔 软 性	★★
Non-mobility	非 移 动 性	★
Moving characteristics	移 动 特 性	★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 日本电气用品安全法对应产品
- 适用规格:日本工业规格 (JIS)c 3312
- 通过日本工业规格 (JIS)c 3005的试验

◆ 用途

- 电气机器的移动布线用电线

◆ key property

- Japanese electrical products safety law products.
- Applicable specification: Japanese Industrial Standards (JIS) c 3312.
- By Japanese Industrial Standards (JIS) C 3005.

◆ Use

- Cable for mobile wiring of electrical machines.

◆ 规格

◆ Specifications

产品编号 Product number	导体结构 Conductor structure	导体外径 (mm) Outside diameter of conductor	绝缘外径 (mm) Insulation diameter	芯数 Core number	外径 (mm) Outside diameter	预算质量 (kg/km) Budget quality	许容电流A Allowable current
VCT001	0.75mm ² (19AWG)	1.1 (67/0.12)	2.7	1	5.7	45	17
VCT002				2	8.8	100	14
VCT003				3	9.2	110	12
VCT004				4	9.9	130	11
VCT005				5	11.0	160	9
VCT006				6	12.0	185	8
VCT007				7	13.0	215	7
VCT008				8	14.0	250	7
VCT009				10	16.0	330	7
VCT010				12	15.5	295	6
VCT011	1.25mm ² (17AWG)	1.5 (112/0.12)	3.1	16	17.5	370	6
VCT012				1	6.1	50	23
VCT013				2	9.6	120	19
VCT014				3	10.0	140	17
VCT015				4	11.0	170	16
VCT016				5	12.5	210	14
VCT017				6	13.0	245	12
VCT018				7	14.5	285	11
VCT019				8	15.5	325	9
VCT020				10	18.0	440	9
VCT021				12	17.5	395	8
VCT022				16	19.5	495	8
VCT023	2mm ² (15AWG)	1.8 (79/0.18)	3.6	1	6.6	65	30
VCT024			3.4	2	10.5	150	27
VCT025				3	11.0	180	23
VCT026				4	12.0	215	20
VCT027				5	13.0	260	19
VCT028				6	14.5	310	16
VCT029				7	15.5	360	14
VCT030				8	16.5	415	13
VCT031				10	19.5	560	13
VCT032				12	18.5	510	12
VCT033				16	21.0	660	11
VCT034	3.5mm ² (12AWG)	2.5 (68/0.26)	4.3	1	7.5	90	60
VCT035			4.1	2	12.0	210	50
VCT036				3	12.5	260	44
VCT037				4	14.0	320	39
VCT038				5	15.0	385	36
VCT039				6	16.5	455	31
VCT040				7	18.0	540	29
VCT041				8	19.5	620	28

1.以上表格只列出部分产品,需要更多规格请联系我们。(C=芯数 P=对绞)

The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)

2.以上数字仅为参考值,数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-VCT | 600V聚氯乙烯绝缘,聚氯乙烯护套移动用电线

TPL-VCT | 600V PVC insulated and PVC sheathed mobile cable



Heat resistance	耐热性	★
Oil resistance	耐油性	★★★
Noise tolerance	耐噪声性	★
Fire resistance	阻燃性	★★★
Plasticity	柔软性	★★
Non-mobility	非移动性	★
Moving characteristics	移动特性	★★

※ 上图仅作为特性参考使用
※ The above picture is only used as a characteristic reference

◆ 主要特性

- 日本电气用品安全法对应产品
- 适用规格:日本工业规格 (JIS)c 3312
- 通过日本工业规格 (JIS)c 3005的试验

◆ 用途

- 电气机器的移动布线用电线

◆ key property

- Japanese electrical products safety law products.
- Applicable specification: Japanese Industrial Standards (JIS) c 3312.
- By Japanese Industrial Standards (JIS) C 3005.

◆ Use

- Cable for mobile wiring of electrical machines.

◆ 规格

◆ Specifications

产品编号 Product number	导体结构 Conductor structure	导体外径 (mm) Outside diameter of conductor	绝缘外径 (mm) Insulation diameter	芯数 Core number	外径 (mm) Outside diameter	预算质量 (kg/km) Budget quality	许容电流A Allowable current
VCT042	3.5mm ²	2.7 (7/45/0.12)	4.3	2	12.5	225	39
VCT043				3	13.0	275	34
VCT044				4	14.5	335	30
VCT045	5.5mm ²	3.3 (7/71/0.12)	5.3	2	14.5	325	50
VCT046				3	15.5	400	44
VCT047				4	17.5	500	39
VCT048	8mm ²	4.0 (7/102/0.12)	6.4	2	17.5	455	62
VCT049				3	18.5	560	53
VCT050				4	20.0	700	47
VCT051	14mm ²	5.75 (7/7/26/0.12)	8.55	2	22.0	760	86
VCT052				3	23.5	950	75
VCT053				4	26.0	1190	67
VCT054	22mm ²	7.25 (7/7/41/0.12)	10.45	2	26.5	1130	116
VCT055				3	28.0	1420	101
VCT056				4	31.5	1800	90
VCT057	38mm ²	10.2 (7/7/71/0.12)	13.8	2	34.0	1870	159
VCT058				3	36.5	2360	134
VCT059				4	40.5	2980	122

1.以上表格只列出部分产品 - 需要更多规格请联系我们 - (C=芯数 P=对绞)
The above table only lists some products. Please contact us if you need more specifications. (c = core number P = Pair of twisted)
2.以上数字仅为参考值 - 数字以最终规格书为准 -
The above figures are for reference only, and the figures are subject to the final specification.

TPL-VCT | 600V聚氯乙烯绝缘,聚氯乙烯护套移动用电线

TPL-VCT | 600V PVC insulated and PVC sheathed mobile cable



Heat resistance	耐 热 性	★
Oil resistance	耐 油 性	★★★
Noise tolerance	耐 噪 声 性	★
Fire resistance	阻 燃 性	★★★
Plasticity	柔 软 性	★★
Non-mobility	非 移 动 性	★
Moving characteristics	移 动 特 性	★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 日本电气用品安全法对应产品
- 适用规格:日本工业规格 (JIS)c 3312
- 通过日本工业规格 (JIS)c 3005的试验

◆ 用途

- 电气机器的移动布线用电线

◆ key property

- Japanese electrical products safety law products.
- Applicable specification: Japanese Industrial Standards (JIS) c 3312.
- By Japanese Industrial Standards (JIS) C 3005.

◆ Use

- Cable for mobile wiring of electrical machines.

◆ 规格

◆ Specifications

产品编号 Product number	导体结构 Conductor structure	导体外径 (mm) Outside diameter of conductor	绝缘外径 (mm) Insulation diameter	芯数 Core number	不带屏蔽 no-shield		屏蔽 shield		许容电流A Allowable current
					外径 (mm) Outside diameter	预算质量 (kg/km) Budget quality	外径 (mm) Outside diameter	预算质量 (kg/km) Budget quality	
VCT060	0.75mm ²	1.6 (96/0.10)	3.2	2	9.6	115	11.0	145	14
VCT061				3	10.5	135	11.5	160	12
VCT062				4	11.5	160	12.5	190	11
VCT063				5	12.5	190	-	-	9
VCT064				6	13.5	220	14.5	230	8
VCT065				7	14.5	255	15.5	270	7
VCT066				8	16.0	290	16.5	300	7
VCT067				10	17.5	320	18.0	355	7
VCT068				12	18.0	355	-	-	6
VCT069				16	20.0	445	20.5	495	6
VCT070				20	22.0	540	23.0	600	5
VCT071				24	25.0	670	-	-	5
VCT072				30	26.0	770	26.5	830	5
VCT073	1.25mm ²	2.2 (112/0.12)	3.6	2	10.5	140	11.5	170	19
VCT074				3	11.5	165	12.5	200	17
VCT075				4	12.5	200	13.5	230	16
VCT076				5	14.0	240	-	-	14
VCT077				6	15.0	275	15.0	275	12
VCT078				7	16.0	320	17.0	340	11
VCT079				8	17.5	365	17.5	365	9
VCT080				10	19.0	390	19.0	430	9
VCT081				12	19.5	445	-	-	8
VCT082				16	21.5	570	22.0	620	8
VCT083				20	24.5	700	25.0	760	7
VCT084				24	26.5	830	-	-	6
VCT085				30	28.5	970	29.0	1050	6
VCT086	2mm ²	2.4 (176/0.12)	4.0	40	34.0	1410	-	-	6
VCT087				2	11.0	170	13.0	210	27
VCT088				3	12.5	210	13.5	250	23
VCT089				4	13.5	250	14.5	285	20
VCT090				5	15.0	305	-	-	19
VCT091				6	16.5	360	17.0	400	16
VCT092				7	17.5	415	18.5	425	14
VCT093				8	19.0	475	19.5	490	13
VCT094				10	21.0	530	21.5	570	13
VCT095				12	21.0	580	-	-	12
VCT096				16	24.5	770	25.0	830	11
VCT097				20	26.5	930	27.0	1000	9
VCT098				24	30.0	1140	-	-	8
VCT099				30	31.5	1340	32.5	1430	8
VCT100	3.5mm ²	3.6(312/0.12)	5.2	4	17.0	395	-	-	30
VCT101	5.5mm ²	4.0(480/0.12)	6.0	4	19.0	540	-	-	39

1.以上表格只列出部分产品, 需要更多规格请联系我们。(C=芯数 P=对绞)

The above table only lists some products. Please contact us if you need more specifications. (C=core number P=Pair of twisted)

2.以上数字仅为参考值, 数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

TPL-VCT | 600V聚氯乙烯绝缘,聚氯乙烯护套移动用电线

TPL-VCT | 600V PVC insulated and PVC sheathed mobile cable



Heat resistance	耐热性	★
Oil resistance	耐油性	★★★
Noise tolerance	耐噪声性	★
Fire resistance	阻燃性	★★★
Plasticity	柔软性	★★
Non-mobility	非移动性	★
Moving characteristics	移动特性	★★

※ 上图仅作为特性参考使用

※ The above picture is only used as a characteristic reference

◆ 主要特性

- 日本电气用品安全法对应产品
- 适用规格:日本工业规格 (JIS) c 3312
- 通过日本工业规格 (JIS) c 3005的试验

◆ 用途

- 电气机器的移动布线用电线

◆ key property

- Japanese electrical products safety law products.
- Applicable specification: Japanese Industrial Standards (JIS) c 3312.
- By Japanese Industrial Standards (JIS) C 3005.

◆ Use

- Cable for mobile wiring of electrical machines.

◆ 规格

◆ Specifications

产品编号 Product number	导体结构 Conductor structure	导体外径 (mm) Outside diameter of conductor	绝缘外径 (mm) Insulation diameter	芯数 Core number	不带屏蔽 no-shield		屏蔽 shield		许容电流A Allowable current
					外径 (mm) Outside diameter	估算质量 (kg/km) Budget quality	外径 (mm) Outside diameter	估算质量 (kg/km) Budget quality	
VCT102	0.75mm ²	1.1 (30/0.18)	2.7	2	8.8	100	9.5	125	12
VCT103				3	9.2	110	9.9	140	10
VCT104				4	9.9	130	11.0	165	9
VCT105				5	11.0	160	11.5	180	8
VCT106				6	12.0	185	12.5	210	7
VCT107				7	13.0	215	13.5	240	6
VCT108				8	14.0	255	14.5	275	6
VCT109				10	16.0	335	17.0	355	6
VCT110				12	15.5	300	16.0	330	5
VCT111				16	17.5	375	18.0	415	5
VCT112	1.25mm ²	1.5 (50/0.18)	3.1	2	9.6	120	10.5	150	16
VCT113				3	10.0	140	11.0	175	14
VCT114				4	11.0	170	12.0	200	13
VCT115				5	12.5	210	13.0	230	12
VCT116				6	13.0	245	14.0	270	10
VCT117				7	14.5	285	15.0	310	9
VCT118				8	15.5	325	16.0	355	8
VCT119				10	18.0	440	19.0	470	8
VCT120				12	17.5	405	18.0	435	7
VCT121				16	19.5	510	20.0	550	7
VCT122	2mm ²	1.8 (137/0.26)	3.4	2	10.5	150	11.0	180	22
VCT123				3	11.0	175	11.5	210	19
VCT124				4	12.0	210	13.0	250	17
VCT125				5	13.0	260	14.0	285	16
VCT126				6	14.5	310	15.0	330	13
VCT127				7	15.5	360	16.0	390	12
VCT128				8	16.5	415	17.5	445	11
VCT129				10	19.5	560	20.5	600	11
VCT130				12	19.0	510	19.5	560	10
VCT131				16	21.0	660	21.5	710	9
VCT132	3.5mm ²	2.5 (45/0.32)	4.1	2	12.0	205	13.0	245	32
VCT133				3	12.5	255	13.5	295	28
VCT134				4	14.0	315	14.5	360	25
VCT135				5	15.0	380	16.0	420	23
VCT136				6	16.5	455	17.5	485	20
VCT137				7	18.0	540	19.0	570	18
VCT138				2	14.5	305	15.0	345	41
VCT139	5.5mm ²	3.1 (70/0.32)	5.1	3	15.0	375	16.0	425	36
VCT140				4	16.5	470	17.5	530	32
VCT141				5	18.5	570	19.5	620	30
VCT142				6	20.0	680	21.0	730	26
VCT143				7	22.0	800	22.5	850	24

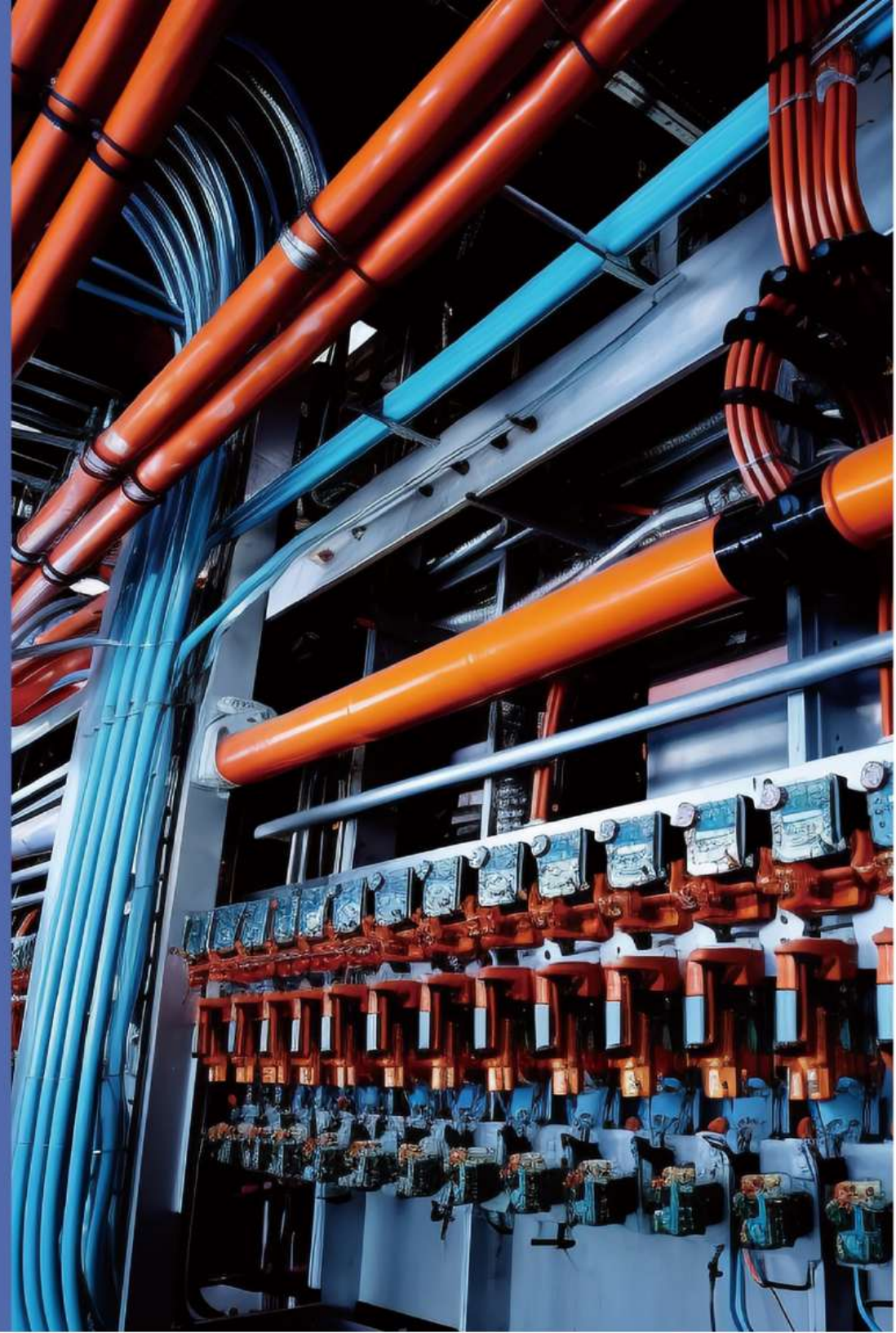
1.以上表格只列出部分产品, 需要更多规格请联系我们。(C=芯数 P=对绞)

The above table only lists some products. Please contact us if you need more specifications. (C=core number P=Pair of twisted)

2.以上数字仅为参考值, 数字以最终规格书为准。

The above figures are for reference only, and the figures are subject to the final specification.

技术数据



阻燃评价试验方法概要

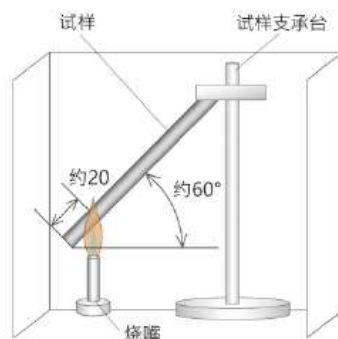
Summary of test methods for flame retardant evaluation

1.60°倾斜试验 (JIS C 3005)

- 试验方法：相对于水平倾斜约60°在所支持的试样上，直到在30秒内燃烧点燃火焰，消除了火焰评价后的燃烧程度
- 判定基准：在60秒以内自然消失

1.60 tilt test (JIS C 3005)

- Test method: on the supported sample, inclined about 60 relative to the horizontal. Until the flame is ignited within 30 seconds, and the flame is eliminated. Degree of combustion after evaluation
- Judgment standard: it disappears naturally within 60 seconds

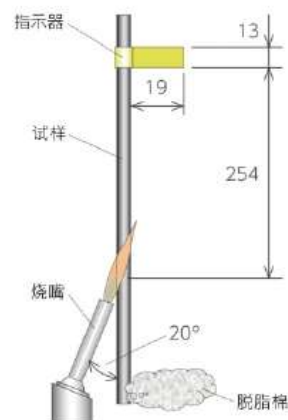


2.垂直试验 (VW-1 UL 1581)

- 试验方法：试样有规定的打开指示器(牛皮纸)安装，垂直固定状态下，点燃火焰15秒~停止15秒的工序重复五次
- 判定基准：以下情况为不合格
燃烧60秒以上25%以上的指示灯
燃烧试样下部铺的棉花因落下物而燃烧

2. Vertical test (VW-1 UL 1581)

- Test method: The sample is installed with the specified opening indicator (kraft paper), and the process of lighting the flame for 15 seconds to stopping it for 15 seconds is repeated five times in the vertical fixed state
- Judgment standard: The following conditions are unqualified
25% or more indicator lights that burn for more than 60 seconds
The cotton spread on the lower part of the burning sample is burned by falling objects

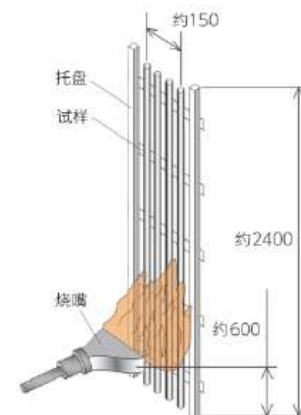


3.垂直托盘 (JIS C 3521)

- 试验方法：将试样放入垂直托盘多条固定，在带状燃烧器上燃烧20分钟试样固定间隔试样外径的1/2
- 判定基准：到试样上端不要火势蔓延

3. Vertical tray (JIS C 3521)

- Test method: put the sample into a vertical tray and fix it in strips. Burning on the burner for 20 minutes, the sample is fixed at intervals of 1/2 of the outer diameter of the sample
- Judgment standard: don't spread the fire to the upper end of the sample

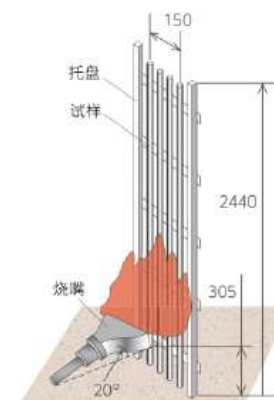


4.垂直托盘 (IEEE 1202)

- 试验方法：将试样放入垂直托盘多条固定，向上20°由于倾斜的带状燃烧器燃烧20分钟，燃烧器输出: 20kW
- 判定基准：试样碳化距离必须在1500mm以下

4. Vertical tray (IEEE 1202)

- Test method: put the sample into a vertical tray and fix it in multiple pieces, and it will be tilted upward by 20 degrees. The ribbon burner burns for 20 minutes, and the burner output is 20kW
- Judgment standard: the carbonization distance of the sample must be below 1500 mm



TOPLLEN拖链电线的安装说明及测试方法

Installation instructions and test methods of TOPLLEN towing wire

由于拖链中的控制电缆承担控制和电力方面的重要任务，必须与电力拖链系统紧密配合。在敷设拖链中的电缆和保护管时必须极为小心谨慎。正确安装电缆可确保有效使用。原则上必须注意下列各项：

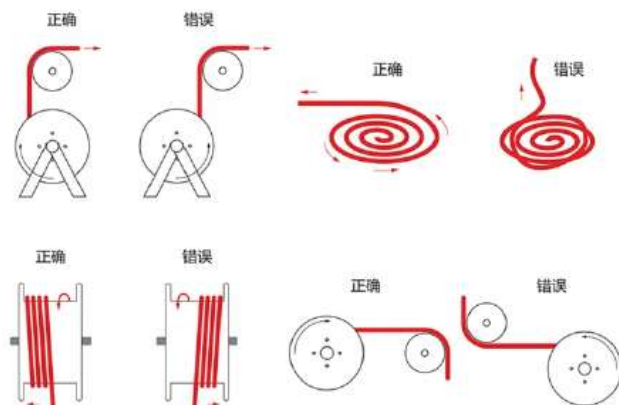
Because the control cable in the towing chain undertakes the important tasks of control and power, it must cooperate closely with the electric towing chain system. Extreme care must be taken when laying cables and protective tubes in towing chains. Proper installation of cables can ensure effective use. In principle, we must pay attention to the following items:

1. 为确保拖链均衡运行，其中的电缆重量分布要尽量均匀，较重的电缆应靠边安放，轻的则应放在中间。所有电缆都必须牢固地固定在拖链一端。由此确保芯线稳固地固在一端，另一端则有足够的空间使其随拖链运动。原则上建议，如果可能的话，不要使用多层芯线结构的电缆，例如>25条芯线，而是将所需的导线数量分为多条电缆。

In order to ensure the balanced operation of the towing chain, the cable weight distribution should be as uniform as possible, and the heavier cable should be placed by the side, while the lighter cable should be placed in the middle. All cables must be firmly fixed at one end of the towing chain. This ensures that the core wire is firmly fixed at one end and there is enough space at the other end to make it move with the towing chain. In principle, it is suggested that cables with multi-layer core structure, such as > 25 cores, should not be used if possible, but the required number of wires should be divided into multiple cables.

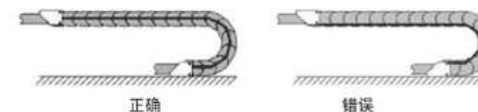
2. 从线盘中或者电缆盘上放出电缆时，电缆必须始终保持无扭曲状态直至绕附上设备卷筒。若形成圆圈状，则应将电缆朝切线方向展开。另外电缆卷绕到设备卷筒上要向左侧偏移。应避免电缆出现S形扭转。（具体参考下图）

When paying out the cable from the coil or the cable reel, the cable must always be kept in a state without twisting until it is wound around the equipment drum. If a circle is formed, the cable should be unfolded in the tangential direction. In addition, when the cable is wound on the equipment drum, it should be offset to the left. S-shaped torsion of cables should be avoided. (Refer to the figure below for details)



3. 拖链电缆，遵循最小弯曲半径尤为重要，否则可能会导致电缆损坏或系统故障。因此必须确保电缆在所需的弯曲半径下沿中心区域运动，同时确认沿着拖链的内径和外径均方向均没有强制性引导，从而使电缆彼此之间以及和拖链之间仍可作相对移动。

It is particularly important to follow the minimum bending radius for towing cables, otherwise it may lead to cable damage or system failure. Therefore, it is necessary to ensure that the cable moves along the central area under the required bending radius. At the same time, it is confirmed that there is no mandatory guidance along the inner diameter and outer diameter of the towing chain, so that the cables can still move relative to each other and to the towing chain (refer to the figure below).

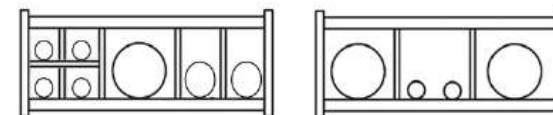


4. 电缆在封闭空间内安装时不允许发生扭曲。安装过程中的扭曲可能导致芯线绞合过早损坏。这种影响在电缆运行中逐渐加强，产生扭结现象，最终导致芯线断裂而发生故障。

The cable is not allowed to be twisted when installed in a closed space. Twisting during installation may lead to premature damage of the core wire. This influence is gradually strengthened in cable operation. The phenomenon of untwisting occurs, which eventually leads to the core wire breaking and failure.

5. 电缆必须松散地相互并排敷设在拖链支架中。应使用隔离片尽可能将电缆分开，电缆和隔离片、分离器或与其相邻的电缆之间的空隙应至少为电缆直径的10%。

Cables must be loosely laid side by side in the towing bracket. Cables should be separated as much as possible with spacers. Between cables and spacers, separators or cables adjacent to them the clearance should be at least 10% of the cable diameter.



6. 如果电缆运行不顺畅，可检查是否在运行中沿纵轴方向发生了扭曲。电缆应该会在某一个固定点慢慢旋转，直至其运行自如。

If the cable does not run smoothly, check whether it is twisted along the longitudinal axis during operation, and the cable should slowly rotate at a fixed point until it runs freely.

7. 发挥最大弯曲寿命的方法(下图仅供参考)

Ways to maximize the bending life (the figure below is for reference only)

内容	○正确示例	×错误示例
请尽量选择较大的弯曲半径 Please try to choose the bending radius of Jiaotong University		
请注意电缆长度，确保弯曲部分的自由度 Please pay attention to the cable length to ensure the freedom of bending part		
请勿捆扎弯曲部的多根电缆 (特别是外径不同的电缆) Do not bundle multiple cables at the bend (especially cables with different outer diameters)		
安装连接器时，请使用套筒等支承 When installing the connector, please use a sleeve and other supports		

移动用电线的实用试验

Practical test of mobile cable

对运动索的运动性能进行评价，可以推测其使用寿命，开发超高性能产品，提高可靠性

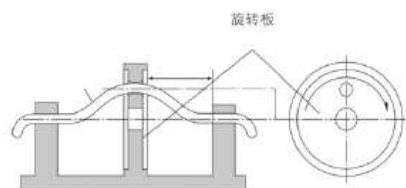
1. 测试项目

- (1) 弯曲试验
- (2) U字型折弯试验
- (3) 90°折弯测试
- (4) 扭转试验
- (5) 移动弯曲试验

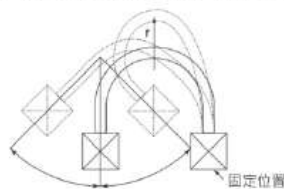
2. 试验方法

(一) 弯曲试验

1. 弯曲试验按照JISC3005[橡胶或塑料绝缘电线和电线的试验方法]第4.27.1节的规定进行。方法如下：
从成品中取出约1.5m的样品，放入FIG的测试设备中，1、固定距离L=300mm，且在弯曲半径r=150mm的尺寸范围内。转子以每分钟约50次的速率旋转规定次数，线路间不发生短路，绝缘表面及外部无裂纹及其它有编号的异常现象。

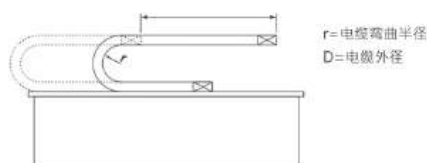


2. 弯曲试验是将电气用品安全法附表一、附表二十四的耐震试验部分变更为本公司规格后进行的。采用以下方法进行。
从成品中取出约0.5m的试样，将其以弯曲半径r=6D的方式安装于图2的弯曲试验装置上，以每分钟约200次的速度使装置弯曲规定次数时，不产生线间短路，且绝缘体及外壳没有裂纹、裂纹或其他异常。



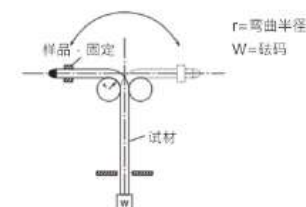
(二) U型拖链折弯试验

- U形拖链折弯试验采用本公司标准的独有方法，电缆承受与电缆轴同样应力的试验方法。采用以下方法进行。从成品中取出约1.5m的试样，将其以弯曲半径r=6D的尺寸安装于图3的U字折返试验装置上，以每分钟约88m的速度进行规定次数试验时，不产生线间短路，且绝缘体及外壳上没有裂纹、裂纹及其他异常。



(三) 90°折弯测试

90°弯曲试验根据JISC30054、28.4项的弯曲，可测试电缆外径较大的电缆，方法如下所示。从成品中取出约1m样品，将其一端固定于图4的90°折弯试验装置上，另外一端吊起表1所示重量的重物，装置以每分钟约40次速度弯曲规定次数时，不产生线间短路，且绝缘体及外壳没有裂纹、开裂、其他异常。



样品	弯曲半径	重量
电源电缆	60mm	1.0kg
信号电缆	40mm	0.5kg

(四) 扭转试验

扭转试验采用本公司标准的独创方法规定(a)直线扭转和(b)弯曲扭转两种方法，并采用以下方法进行。

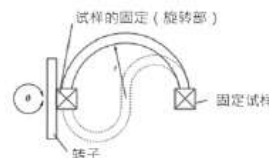
(a) 直线扭转试验

安装在距成品约1m的试样上部的图5-(a)的直线拾取试验装置上，以每分钟约60次的速度旋转规定次数，以达到适当的角度(θ)时，不会产生线间的短路，且绝缘体及外壳上没有裂纹、破裂或其他异常。



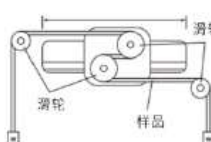
(b) 弯曲扭转试验

从成品中取出约1m样品，将其安装到图5(b)的弯曲扭转试验装置上，使转子成为适当的角度θ，以每分钟约60次的速度扭转规定次数时，不产生线间短路，且绝缘体及外壳没有裂纹、开裂及其他异常。



(五) 移动弯曲试验

移动弯曲试验按照电气用品安全法附表一附表二十六进行，方法如下。从成品中取出约3m的试样，将滑轮计入表2的卷轴种类，具有安装表2的直滑轮的移动台车的图6的移动弯曲以各滑轮间部分为水平方式安装在试验装置上，在其两端悬挂表2所示质量的重物，使移动台车每秒约0.33m以0.5m以上速度向左向右往复距离时，不产生线间短路，且绝缘体及外壳没有裂纹、开裂及其他异常。



样品	重量	滑轮的直径
电源电缆	1.5kg	120mm
信号电缆	1.0kg	80mm

Practical test of mobile cable

Evaluating the motion performance of the motion cable can predict its service life, develop ultra-high performance products and improve its reliability

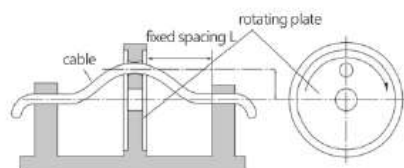
1. Test items

- (1) Bending test
- (2) U-shaped bending test
- (3) 90° bending test
- (4) Torsion test
- (5) Moving bending test

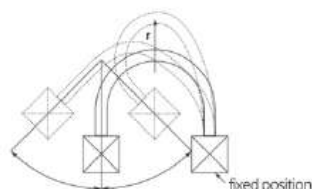
2. Test method

(一) Bending test

1. The bending test shall be conducted in accordance with the provisions of Section 4.27.1 of JISC3005 [Test Methods for Rubber or Plastic Insulated Wires and Cables]. The method is as follows: Take a sample of approximately 1.5m from the finished product and place it in the FIG testing equipment. Fixed distance $L=300\text{mm}$, within the size range of bending radius $r=150\text{mm}$. The rotor rotates at a predetermined rate of approximately 50 times per minute. There is no short circuit between the lines, and there are no cracks or other numbered anomalies on the insulation surface and exterior.

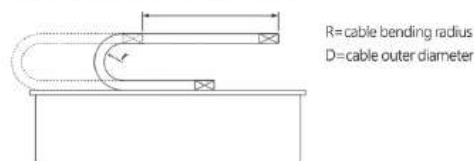


2. The bending test is carried out after changing the seismic resistance test section of Annex 1 and Annex 24 of the Electrical Equipment Safety Law to our company's specifications, using the following method: Take a sample of about 0.5m from the finished product and install it on the bending test device in Figure 2 in a semi bending manner with $r=6D$ each. When the device is bent for the specified number of times at a speed of about 200 times per minute, there is no line to line short circuit, and there are no cracks, cracks, or other abnormalities in the insulation and shell.



(二) U-shaped bending test

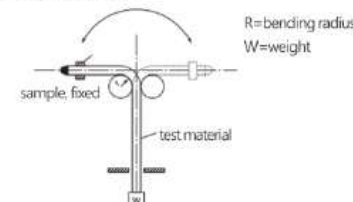
The U-shaped turn back test adopts the unique method of our company's standard, and the test method for the cable to withstand the same stress as the cable bearing is carried out using the following methods. Take a sample of about 1.5m from the finished product and install it on the U-shaped turn back test device in Figure 3 with a bending radius of $r=6D$. When conducting the specified number of tests at a speed of about 88m per minute, there is no line to line short circuit, and there are no cracks, cracks, or other abnormalities on the insulator and shell.



R =cable bending radius
 D =cable outer diameter

(三) 90° bending test

The 90° bending test can be used to test cables with larger outer diameters according to the bending requirements of JISC30054 and 28.4. The method is as follows. Take approximately 1m of the sample from the finished product and fix one end to the 90° bending test device shown in Figure 4. The other end is lifted with a weight as shown in Table 1. When the device is bent at a speed of about 40 times per minute for the specified number of times, there is no line to line short circuit, and there are no cracks, cracks, or other abnormalities in the insulation and shell.



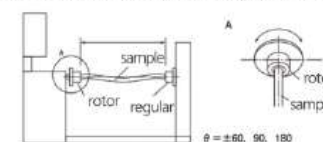
sample	bending radius	weight
power cable	60mm	1.0kg
signal cable	40mm	0.5kg

(四) Torsion test

The torsion test is conducted using our company's standard original method, which specifies two methods: (a) linear torsion and (b) bending torsion, and the following methods are used.

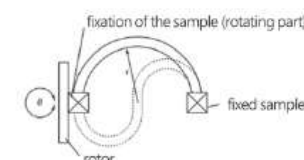
(a) Linear torsion test

Install the linear pickup test device in Figure 5- (a) on the upper part of the sample about 1 meter away from the finished product, and rotate it at a specified speed of about 60 times per minute to reach the appropriate angle (day). Without any short circuit between wires, and without cracks, fractures, or other abnormalities on the insulation and shell.



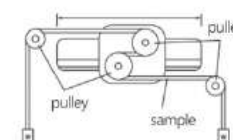
(b) Bending and torsion test

Take approximately 1m of the sample from the finished product and install it on the bending and torsion test device shown in Figure 5 (b), making the rotor at an appropriate angle. When twisting the specified number of times at a speed of about 60 times per minute, there is no line to line short circuit, and there are no cracks, cracks, or other abnormalities in the insulation and casing.



(五) Moving bending test

The mobile bending test shall be carried out in accordance with Appendix 1, Appendix 26 of the Electrical Equipment Safety Law, and the method is as follows. Take a sample of approximately 3m from the finished product and record the slider in the roll of Table 2. The type of shaft is equipped with a mobile trolley equipped with straight pulleys as shown in Table 2. The moving bending of Figure 6 is installed horizontally between the pulleys on the test device, and suspended at both ends. When a heavy object of the mass shown in Table 2 moves the mobile trolley back and forth at a speed of about 0.33m per second and for a distance of more than 0.5m to the left and right, there is no line to line short circuit, and the insulator and shell are not damaged. There are cracks, cracks, and other abnormalities.



sample	weight	diameter of pulley
power cable	1.5kg	120mm
signal cable	1.0kg	80mm

线芯识别表

Wire core identification table

RVV	芯数	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	芯线色	黑	白	赤	绿	蓝	棕	黄	紫	灰	桃	空	白	白	桃	白	白	灰	白	白	黑	绿
	备注	白/赤：指赤色绝缘体上注白色的注条，其他以此类推。																				
RVVP	芯数	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	芯线色	黑	白	赤	绿	蓝	棕	黄	紫	灰	桃	空	白	白	桃	白	白	灰	白	白	黑	绿
	备注	白/赤：指赤色绝缘体上注白色的注条，其他以此类推。																				
RVVPS	对数	1	2	3	4	5	6	7	8	9	10											
	芯线色	赤	白	桃	白	桃	黄	白	黄	棕	白	灰	白	灰	白	黑	白	黑	白	黑	白	黑
	备注	白/赤：指赤色绝缘体上注白色的注条，其他以此类推。																				
XLPE	对数	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	芯线色1	黄	黄	绿	赤	赤	黄	黄	绿	赤	赤	黄	黄	绿	赤	赤	黄	黄	绿	赤	赤	
	备注	白/赤：指赤色绝缘体上注白色的注条，其他以此类推。																				
TPE 束绞型	芯数	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	芯线色	黑	白	赤	绿	蓝	棕	黄	紫	灰	桃	空	白	白	桃	白	白	灰	白	白	黑	绿
	备注	白/赤：指赤色绝缘体上注白色的注条，其他以此类推。																				
TPE 对绞型	对数	1	2	3	4	5	6															
	芯线色1	黄	赤	绿	灰	空	空															
	备注	1~6对																				
TPE 对绞型	对数	7	8	9	10	11	12	13	14	15	16	17	18	19	20							
	芯线色1	白	白	黄	白	白	白	白	白	白	白	黑	黑	黑	黑	黑	黑	黑	黑	黑	黑	黑
	备注	7~25对																				

PVC	对数	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	芯线色	橙	灰	白	黄	桃	橙	灰	白	黄	桃	橙	灰	白	黄	桃	橙	灰	白	黄	桃
	备注	白/赤：指赤色绝缘体上注白色的注条，其他以此类推。																			
PVC	对数	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
	芯线色	橙	灰	白	黄	桃	橙	灰	白	黄	桃	橙	灰	白	黄	桃	橙	灰	白	黄	桃
	备注	白/赤：指赤色绝缘体上注白色的注条，其他以此类推。																			
PVC	对数	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	芯线色	赤	桃	黄	桃	灰	白	黑	赤	绿	赤	空	赤	白	白	桃	白	白	灰	白	白
	备注	白/赤：指赤色绝缘体上注白色的注条，其他以此类推。																			
PE	对数	1	2	3	4																
	芯线色	赤	白	桃	白	桃	绿	白	绿	赤	白										
	备注	白/赤：指赤色绝缘体上注白色的注条，其他以此类推。																			
铁氟龙	芯数																				
	芯线色	黑	白	赤	绿	蓝	棕	黄	紫	灰	桃	空	白								
	备注	各色 (可定制)																			
硅胶	芯数																				
	芯线色	黑	白	赤	绿	蓝	棕	黄	紫	灰	桃	空	白								
	备注	各色 (可定制)																			

※ 芯线颜色为参考色，实物可能存在色差。

※ The color of the core wire is the reference color, and there may be color difference in the object.

点印识别表

Dot printing identification table

对数 logarithm	芯线颜色 Core color	点标记 Point marking	点标记颜色 Point mark color		对数 logarithm	芯线颜色 Core color	点标记 Point marking	点标记颜色 Point mark color	
			第一芯线 First core	第二芯线 Second core				第一芯线 First core	第二芯线 Second core
1P	赤	■	黑	红	26P	赤	■	黑	红
2P	灰	■	黑	红	27P	灰	■	黑	红
3P	白	■	黑	红	28P	白	■	黑	红
4P	黄	■	黑	红	29P	黄	■	黑	红
5P	桃	■	黑	红	30P	桃	■	黑	红
6P	橙	■	黑	红	31P	橙	■	黑	红
7P	灰	■	黑	红	32P	灰	■	黑	红
8P	白	■	黑	红	33P	白	■	黑	红
9P	黄	■	黑	红	34P	黄	■	黑	红
10P	桃	■	黑	红	35P	桃	■	黑	红
11P	橙	■	黑	红	36P	橙	■	黑	红
12P	灰	■	黑	红	37P	灰	■	黑	红
13P	白	■	黑	红	38P	白	■	黑	红
14P	黄	■	黑	红	39P	黄	■	黑	红
15P	桃	■	黑	红	40P	桃	■	黑	红
16P	橙	■	黑	红	41P	橙	■	黑	红
17P	灰	■	黑	红	42P	灰	■	黑	红
18P	白	■	黑	红	43P	白	■	黑	红
19P	黄	■	黑	红	44P	黄	■	黑	红
20P	桃	■	黑	红	45P	桃	■	黑	红
21P	橙	■	黑	红	46P	橙	■	黑	红
22P	灰	■	黑	红	47P	灰	■	黑	红
23P	白	■	黑	红	48P	白	■	黑	红
24P	黄	■	黑	红	49P	黄	■	黑	红
25P	桃	■	黑	红	50P	桃	■	黑	红

※ 芯线颜色为参考色，实物可能会存在色差。

※ The color of the core wire is the reference color, and there may be color difference in the object.

认证证书

Certification certificate

UL

UL是美国保险商实验室 (Underwriters Laboratories Incorporation) 的缩写，它是一个国际认可的安全检验及UL标志的授权机构，对机电包括民用电器类产品颁发安全保证标志。

UL is the abbreviation of Underwriters Laboratories Incorporation, which is internationally recognized. The authorized institution of safety inspection and UL mark issues safety assurance marks to electromechanical products including civil electrical appliances.



CE

在欧洲经济区(欧洲联盟、欧洲自由贸易协会成员国，瑞士除外)市场上销售的商品中，CE标志的使用越来越多，加贴CE标志的商品表示其符合安全、卫生、环保和消费者保护等一系列欧洲指令所要表达的要求。In the European Economic Area (European Union, European Free Trade Association member countries, except Switzerland), the CE mark is used more and more. The products with CE mark indicate that they meet the requirements of a series of European directives, such as safety, hygiene, environmental protection and consumer protection.



ISO 9001

ISO9001质量管理体系认证标准是很多国家，特别是发达国家多年来管理理论与管理实践发展的总结，它体现了一种管理哲学和质量管理体系方法，已被世界上100多个国家和地区采用。ISO9001国际质量管理体系标准是迄今为止世界上最成熟的一套管理体系和标准，是企业发展和成长之根本。

ISO9001 quality management system certification standard is a summary of the development of management theory and management practice in many countries, especially in developed countries over the years, which reflects a management philosophy and quality management methods and models, and has been adopted by more than 100 countries and regions in the world. ISO9001 international quality management system standard is by far the world's most mature set of management systems and standards, is the foundation of enterprise development and growth.



认证证书

Certification certificate

CQC

中国质量认证中心 (CQC) 是国家级认证机构。CQC是中国开展质量认证工作的认证机构, 几十年来积累了丰富的国际质量认证工作经验, 各项业务均成果显著, 认证客户数量居全国认证机构的首位, 全球认证机构的前列。

China Quality Certification Center (CQC) is a national certification body. CQC is a certification body that carries out quality certification work in China, and has accumulated rich experience in international quality certification work for decades, with outstanding results in various businesses. The number of certified customers ranks first among national certification bodies and is recognized globally At the forefront of certification agencies.



TUV

TUV 是德语Technischer Überwachungsverein缩写, 意为德国技术监督协会。TUV 的历史要追溯到1871年成立的德国蒸汽锅炉监督协会, 主要为生产设备提供安全保障, 这个组织就是德国TUV前身。TUV标志是德国TUV专为元器件产品定制的安全认证标志, 得到全球广泛认可。

TUV is an abbreviation of the German Technischer Überwachungsverein, which means the German Technical Supervisory Association. The history of TUV dates back to 1871 when the German Steam Boiler Supervision Association was founded to provide safety protection for production equipment, which was the predecessor of TUV in Germany. The TUV mark is a safety certification mark customized by TUV for component products and is widely recognized around the world.



PSE

PSE认证是日本产品安全标志。日本的DENTORL法 (电器装置和材料控制法) 规定, 498种产品进入日本市场必须通过安全认证。

PSE certification is a Japanese product safety symbol, and Japan's DENTORL law (Electrical Equipment and Material Control Law) stipulates that 498 products must pass safety certification to enter the Japanese market.



RoHS

RoHS 2.0

对人员及环境更安全

RoHS是有害物质限制的缩写, 其规定了电气和电子设备(包括电缆)中所列有害物质的使用限制。遵守这一指令意味着公司证明诸如铅、汞或邻苯二甲酸盐(俗称增塑剂)等问题物质已被禁止在电子垃圾和工作环境中使用。用铅来举例。它会存在于其他部件, 如以焊料的形式出现在电路板上, 电路板再以各种方式安装在复杂的机器系统中。

近年来的材料研究也开发出了新的护套材料, 这些材料不含有害的增塑剂, 在移动应用中表现灵活。到目前为止, 增塑剂主要用于要求塑料必须特别柔韧、柔软和有弹性的工业领域。

Safer for people and the environment

RoHS, short for Restriction of Hazardous Substances, sets limits on the use of hazardous substances listed in electrical and electronic equipment, including cables. Complying with this directive means that companies certify that problematic substances such as lead, mercury or phthalates (commonly known as plasticizers) have been banned from e-waste and work environments. Take lead, for example. It is present in other parts, such as in the form of solder on circuit boards, which are then installed in various ways in complex machine systems.

Material research in recent years has also led to the development of new sheathing materials that do not contain harmful plasticizers and are flexible in mobile applications. Until now, plasticizers have been used mainly in industrial areas where plastics must be particularly flexible, soft and flexible.

Memo
