



SHANGHAI HERON CABLE COMPANY



CONNECT WITH CONFIDENCE
FLEX WITH EASE

A GLOBAL INNOVATOR IN
INDUSTRIAL CONNECTIVITY SOLUTIONS

SINCE 1997

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QUALIFICATION & HONOR



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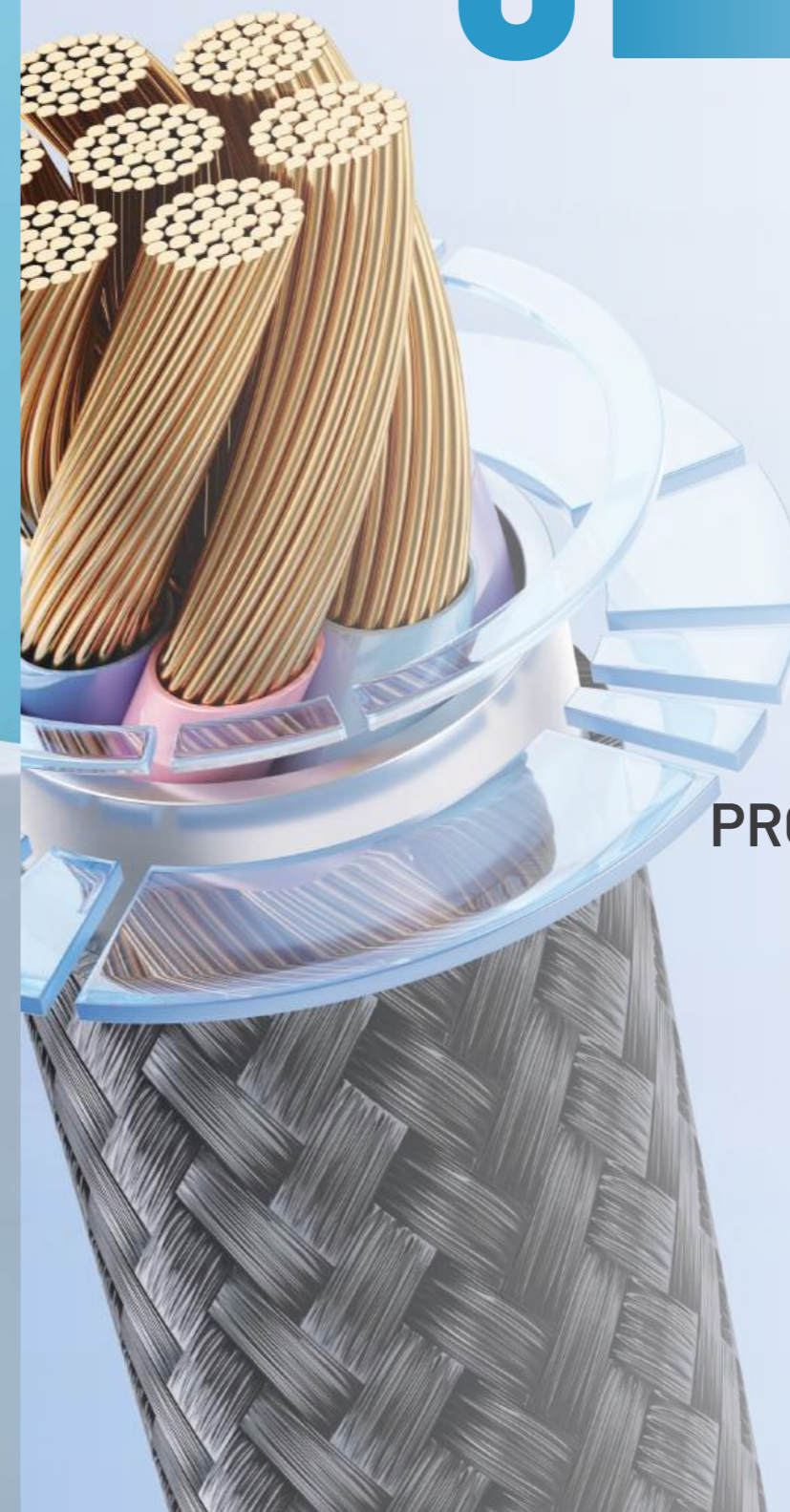
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01. ABOUT US

Shanghai Heron Company--we have a manufacturing factory was founded in 1997. With deep roots in the manufacturing sector through our family-owned production facility, we bridge the gap between "Factory-Direct Pricing" and "World-Class Export Service." has evolved from a regional cable specialist to a global innovator in industrial connectivity solutions...

OUR PRODUCT RANGE

FLEXIBLE AND DURABLE CABLES

COLD FLEX® SERIES: EXTREME-TEMPERATURE RESISTANT CABLES -40°C~105°C

- Flexible bending resistant cables
- Flexible cold-resistant cables
- Flexible flame-retardant and fire-resistant cables
- Building Cable
- Crane Cable
- Elevator Cable
- Power Cable
- High Drag Chain Cable
- Robot Cable

SPECIAL CABLES

- Solar Cable
- Ship Cable
- Welding Cable
- Overhead Cable(Aluminum Alloy Cable)
- Network Cable/Fiber Optic Cable

OUR EXPERTISE AND COMMITMENT TO QUALITY CABLES

At Shanghai Heron Cable Company, we take pride in our expertise and commitment to providing high-quality cables for various industries. Our dedication to innovation, strict quality control measures, and extensive product knowledge have positioned us as a trusted partner for businesses seeking reliable and efficient cable solutions.

PROFESSIONAL, CUSTOMER-CENTRIC SERVICE EXCELLENCE

With a professional and customer-centric approach, we strive to meet and exceed our clients' expectations. Our team of experienced professionals is dedicated to delivering tailored solutions, superior customer service, and timely delivery of products.

TAILORED CABLE SOLUTIONS FOR DIVERSE INDUSTRY NEEDS

Whether you require cables for heavy-duty lifting equipment or complex control systems or robotics-related accessories, Shanghai Heron Cable Company is here to provide you with the best-quality cables and robotics parts that meet your specific requirements. Join us in transforming industries through our reliable and advanced cable solutions.

OUR JOURNEY

ENGINEERING EXCELLENCE
SINCE 1997

1997

FOUNDATION

- Established in Shanghai under ISO 9001 standards
- Launched core product line: Heavy-duty crane cables for port logistics



2015

TECHNOLOGICAL BREAKTHROUGH

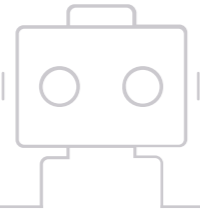
- Developed patented ColdFlex® technology (-40°C to 105°C operational range)
- Expanded to 12 specialized cable categories including offshore wind power cables



2020

ROBOTIC INTEGRATION

- Forged strategic partnerships with 3 industrial robot manufacturers
- Launched robot cable-guide bundle system with 500,000+ bending cycle rating



2018

GLOBAL EXPANSION

- Achieved CE & UL certification for EU/US markets
- Supplied 120KM cables for Singapore PSA port automation upgrade



2022

DIGITAL TRANSFORMATION

- Implemented AI-powered cable life prediction system
- Opened 3D configurator for real-time custom cable simulations



2024

SUSTAINABILITY LEADERSHIP

- Introduced 100% recyclable EcoArmor® halogen-free cables
- Reduced production energy consumption by 37% through solar-powered facility



02. PRODUCT INTRODUCTION

BUILDING CABLE

01 BUILDING CABLE FOR TW/THW/THHN/THWN

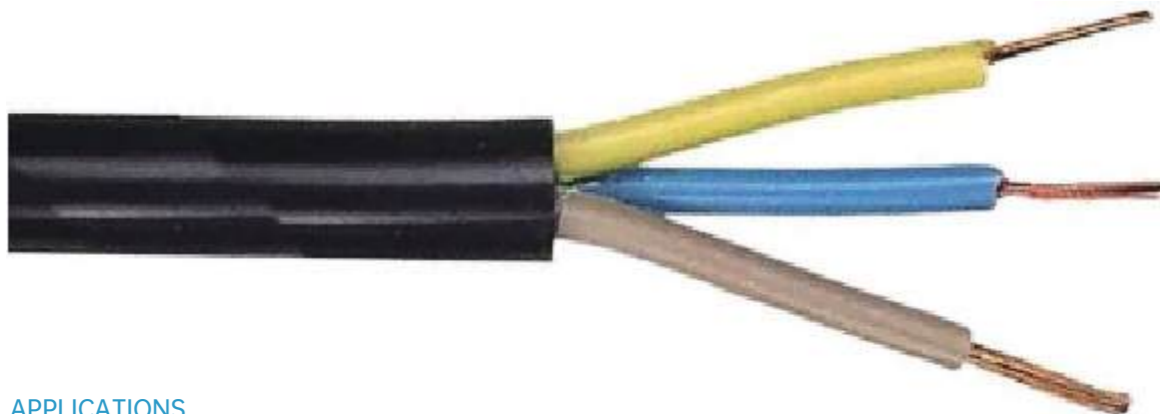


APPLICATIONS

Used as interior house wiring at circuit voltage up to 600 Volts. Suitable for the type of service where conductor temperature does not exceed 75°C in dry or wet location.

CONSTRUCTION	
Standard	UL83/ UL1581
Voltage	600 V
Conductor	Cu/ CCC/ CCA
Material	PVC/ Nylon
Section	20 AWG—1000 AWG

Size	Construction		Conductor Dia.	Insulation Thickness	Approx. Overall Dia.	Approx. Weight	
	No. of Wires	Dia. of Wires				TW	THW
AWG/Kcmil	No.	mm	mm	mm	mm	kg/km	kg/km
14	1	1.63	1.63	0.77	3.17	26.8	26.8
12	1	2.06	2.06	0.77	3.60	38.7	38.7
10	1	2.59	2.59	0.77	4.13	58.1	58.1
8	1	3.27	3.27	1.15	5.57	96.8	96.8
14	7	0.62	1.86	0.77	3.40	28.3	28.3
12	7	0.78	2.34	0.77	3.88	41.7	41.7
10	7	0.98	2.94	0.77	4.48	62.5	62.5
8	7	1.24	3.72	1.15	6.02	102.7	102.7
6	7	1.56	4.68	1.53	7.74	165.2	166.7
4	7	1.96	5.88	1.53	8.94	247.1	248.6
2	7	2.48	7.44	1.53	10.50	375.1	376.6
1/0	19	1.89	9.20	2.04	13.28	589.4	592.3
2/0	19	2.13	10.34	2.04	14.42	732.2	735.2
3/0	19	2.39	11.61	2.04	15.69	904.9	909.3
4/0	19	2.68	13.01	2.04	17.09	1120.7	1123.6
250	37	2.09	14.20	2.42	19.04	1334.9	1339.4

02 BUILDING CABLE FOR H05V-K(RV) / H05V-U(BV) / H05VV-F(RVV) / H05V-R

APPLICATIONS

It is suitable for all types of low voltage industrial-type connections, in urban grids, building installations, etc. Its high flexibility makes the installation process substantially easier and, as a result, is particularly suitable for use in difficult layouts. It can be buried or installed in a tube as well as outdoors without requiring additional protection.

CONSTRUCTION

Standard	BS6500/ IEC60227/VDE0281
Voltage	300/500 V
Conductor	Cu/ CCC/ CCA
Material	PVC/PVC
Section	2*0.5 mm ² —5*6 mm ²

Type	Nominal Cross-sectional	Nominal Diameter	20° Conductor Resistance Max Ω/km	Approximate Weight (kg/km)	
H05V-K	0.5	2.1	2.5	39	10.1
H05V-K	0.75	2.2	2.7	26	12.9
H05V-K	1	2.4	2.8	19.5	16.0
H05V-K	1.5	2.8	3.4	13.3	35.1
H05V-K	2.5	3.4	4.1	7.98	15.9
H05V-K	4	3.9	4.8	4.95	22.8
H05V-K	6	4.4	5.3	3.3	75.3
H05V-K	10	5.7	6.8	1.91	22.5
H05V-K	16	6.7	8.1	1.21	179.9
H05V-K	25	8.4	10.1	0.78	277.4
H05V-K	35	9.7	11.7	0.55	376.4
H05V-K	50	11.5	13.9	0.38	532.5
H05V-K	70	13.2	16.0	0.27	729.9
H05V-K	95	15.1	18.2	0.21	983.9
H05V-K	120	16.7	20.2	0.16	1226.8
H05V-K	150	18.6	22.5	0.13	1531.9
H05V-K	185	20.6	24.9	0.1	1893.4
H05V-K	240	23.5	28.4	0.08	2426.1

Type	Specification Sq*Core	Conductor Structure	Density (Kg/km)	Approximate Diameter
H05VV-F	0.75*2C	30/0.18	45	6.0
H05VV-F	0.75*3C	30/0.18	58	6.3
H05VV-F	0.75*4C	30/0.18	71	6.9
H05VV-F	0.75*5C	30/0.18	85	7.5
H05VV-F	0.75*7C	30/0.18	110	8.1
H05VV-F	0.75*12C	30/0.18	197	11.3
H05VV-F	0.75*16C	30/0.18	248	12.5
H05VV-F	0.75*18C	30/0.18	274	13.1
H05VV-F	0.75*25C	30/0.18	367	15.5
H05VV-F	0.75*30C	30/0.18	441	16.5
H05VV-F	0.75*2C+1*2.0	30/0.18+64/0.2	81	7.1
H05VV-F	0.75*3C+1*2.0	30/0.18+64/0.2	95	7.8
H05VV-F	0.75*4C+1*2.0	30/0.18	107	8.0
H05VV-F	0.75*6C+1*2.0	30/0.18	136	9.4
H05VV-F	0.75*8C+1*2.0	30/0.18	168	10.1
H05VV-F	0.75*12C+1*2.0	30/0.18	222	11.8
H05VV-F	0.75*14C+1*2.0	30/0.18	245	12.2
H05VV-F	0.75*16C+1*2.0	30/0.18	272	13.1
H05VV-F	0.75*18C+1*2.0	30/0.18	299	13.9
H05VV-F	0.75*20C+1*2.0	30/0.18	321	14.0
H05VV-F	0.75*24C+1*2.0	30/0.18	379	14.7
H05VV-F	0.75*30C+1*2.0	30/0.18	466	16.9
H05VV-F	0.75*36C+1*2.0	30/0.18+64/0.2	535	17.6
H05VV-F	0.75*40C+1*2.0	30/0.18+64/0.2	614	20.2

Type	Nominal Cross-sectional	Nominal Diameter		20° Conductor Resistance Max Ω/km	Approximate Weight (kg/km)
H05V-R	2.5	4.1		7.41	35.9
H05V-R	4	4.8		4.61	52.4
H05V-R	6	5.3		3.08	72.2
H05V-R	10	7.3		1.83	124
H05V-R	16	8.6		1.15	180
H05V-R	25	10.2		0.727	275
H05V-R	35	11.7		0.524	379
H05V-R	50	13.9		0.387	537
H05V-R	70	16.0		0.268	735
H05V-U	0.5	1.9	2.3	36.0	9.7
H05V-U	0.75	2.1	2.5	24.5	13.0
H05V-U	1	2.2	2.7	18.1	15.3
H05V-U	1.5	2.6	3.2	12.1	21.9
H05V-U	2.5	3.2	3.9	7.41	34.0
H05V-U	4	3.6	4.4	4.61	49.3
H05V-U	6	4.1	5.0	3.08	69.5
H05V-U	10	5.3	6.4	1.83	117.6
H05V-U	16	6.4	7.8	1.15	174.6
H05V-U	25	8.1	9.7	0.727	276.0
H05V-U	35	9.0	10.9	0.524	367.9
H05V-U	50	10.6	12.8	0.387	525.0
H05V-U	50			0.387	476.3
H05V-U	70	12.1	14.6	0.268	686.3
H05V-U	95	14.1	17.1	0.193	964.4
H05V-U	120	15.6	18.8	0.153	1201.0
H05V-U	150	17.3	20.9	0.124	1478.1

03 BUILDING WIRES FOR TPS CABLE



APPLICATIONS

This cable is suitable for general wiring applications without an outer sheath, enclosed within underground conduits or directly buried in underground conduits. It is intended for residential, commercial, and industrial insulation applications where mechanical damage is not a concern.

CONSTRUCTION

Standard	AS/NZS500.2
Voltage	450/750V
Conductor	Cu/CCC/CCA
Material	V-90 PVC/ 3V-90 PVC
Section	2*1mm ² +E — 2*16 mm ² +E

Nominalss Section mm ²	Cro NO./Diameter of conductor mm	Insulation thickness mm	Sheath thickness mm	Approx Diameter mm	Ref.Weight kg/km
2X1.0+E	1/1.13+7/0.5	0.6	0.9	9.3X4.6	80
2X1.5+E	7/0.5+7/0.5	0.6	0.9	10.1X4.6	91
2X2.5+E	1/1.78+7/0.67	0.7	1	11.9X5.5	140
2X2.5+E	7/0.67+7/0.67	0.7	1	12.4X5.5	144
2X4.0+E	7/0.85+7/0.67	0.8/0.7	1.1	14X6.4	190
2X6.0+E	7/1.04+7/0.67	0.8/0.7	1.1	15.2X7.0	237
2X10.0+E	7/1.35+7/0.85	1.0/0.8	1.2	18.9X8.7	368
2X16.0+E	7/1.7+7/1.04	1.0/0.8	1.3	21.8x10.0	534

04 SPEAKER CABLE

APPLICATIONS

Speaker cables are specifically designed to bridge the gap between power amplifiers (or receivers) and passive loudspeakers. Unlike signal cables (like RCA or XLR), speaker cables are built to carry high-current electrical signals to drive the physical movement of speaker drivers.

CONSTRUCTION

Standard	IEC227-42
Voltage	300/500 V
Conductor	Oxygen-Free Copper (OFC) / Bare Copper (BC) / CCA (Optional)
Material	PVC
Section	2*0.5—2*10 mm ² /2*24 —2*10AWG

Cross Section (mm ²)	Stranding (No. / mm)	Insulation Thickness (mm)	Outer Diameter (±0.2 mm)	Max Resistance (Ω/km)
2 x0.75mm ²	42 / 0.15	0.6	6.0	26.0
2 x1.5mm ²	84 / 0.15	0.7	7.2	13.3
2 x2.5mm ²	140 / 0.15	0.8	9.2	7.98
2 x4mm ²	224 / 0.15	1.0	11.5	4.95

CRANE CABLE
01 FLAT CRANE CABLE

APPLICATIONS

- The connection and control cables of crane conveyors
- Docks and complex environments in ports

STANDARDS

- GB5023.6
- IEC60227-6
- EN50214

TECHNICAL DATA

Rated voltage	≤1.5mm ² 300/500V (H05VVH6-F) , >1.5mm ² 450/750V (H07VVH6-F)
Test voltage	≤1.5mm ² 2500V , >1.5mm ² 3000V
Minimum bending radius	10×outer diameter
Burning vertically test	GB/T1 8383.1-2001, IEC60332-1:1993
Passed standard	GB5023.6, IEC60227-6, EN50214
Working temperature	-15°C ~ +70°C
Temperature of conductor	Used under the normal conditions, lower than 70°C

*Cable are recommender for installations where the suspended length doesn't exceed 80m and the speed of travel doesn't exceed 4m/s. If it more than this, with steel.

CONSTRUCTION

Conductor	Multiple strands of ultra-fine stranded oxygen-free copper wire, VDE0295CLASS 5 compliant
Insulation	Special oil resistance, flame retardant, mixed PVC or others
Inner core Color	Color coding according to IEC60227 Color marking, digital marking can be customized according to customer
Inner liner	Shielded or unshielded (Copper wire or tinned wire)
Sheath	Oil resistant, flame retardant, elastic PVC sheath

Type	No. of cores	Specification	Conductor Structure	Width mm	Thickness mm	Density kg/km
H05VVH6-F(YFFB)	3	0.75	30/0.18	10.4	4.6	94
H05VVH6-F(YFFB)	4	0.75	30/0.18	13.7	4.6	123
H05VVH6-F(YFFB)	5	0.75	30/0.18	17.1	4.6	152
H05VVH6-F(YFFB)	8	0.75	30/0.18	24.1	4.6	219
H05VVH6-F(YFFB)	9	0.75	30/0.18	26.5	4.6	242
H05VVH6-F(YFFB)	10	0.75	30/0.18	28.8	4.6	264
H05VVH6-F(YFFB)	12	0.75	30/0.18	33.5	4.6	309
H05VVH6-F(YFFB)	16	0.75	30/0.18	43.9	4.6	405
H05VVH6-F(YFFB)	18	0.75	30/0.18	49.6	4.6	456
H05VVH6-F(YFFB)	20	0.75	30/0.18	54.3	4.6	501
H05VVH6-F(YFFB)	24	0.75	30/0.18	64.7	4.6	597
H05VVH6-F(YFFB)	3	1	40/0.18	11	4.8	112
H05VVH6-F(YFFB)	4	1	40/0.18	14.5	4.8	145.3
H05VVH6-F(YFFB)	5	1	40/0.18	18.1	4.8	178.7
H05VVH6-F(YFFB)	8	1	40/0.18	25.7	4.8	257.7
H05VVH6-F(YFFB)	9	1	40/0.18	28.3	4.8	284.1
H05VVH6-F(YFFB)	10	1	40/0.18	30.8	4.8	310.4
H05VVH6-F(YFFB)	12	1	40/0.18	35.9	4.8	363.2
H05VVH6-F(YFFB)	16	1	40/0.18	47.1	4.8	475.5
H05VVH6-F(YFFB)	18	1	40/0.18	53.2	4.8	535.2
H05VVH6-F(YFFB)	20	1	40/0.18	58.3	4.8	587.9
H05VVH6-F(YFFB)	24	1	40/0.18	69.5	4.8	700.3
H05VVH6-F(YFFB)	3	1.5	59/0.18	12.3	5.8	151.9
H05VVH6-F(YFFB)	4	1.5	59/0.18	16.3	5.8	198.4
H05VVH6-F(YFFB)	5	1.5	59/0.18	20.3	5.8	244.9
H05VVH6-F(YFFB)	8	1.5	59/0.18	29.3	5.8	358.8
H05VVH6-F(YFFB)	9	1.5	59/0.18	32.3	5.8	396.8
H05VVH6-F(YFFB)	10	1.5	59/0.18	35.3	5.8	434.7
H05VVH6-F(YFFB)	12	1.5	59/0.18	41.3	5.8	510.7
H05VVH6-F(YFFB)	16	1.5	59/0.18	54.3	5.8	671
H05VVH6-F(YFFB)	18	1.5	59/0.18	6.3	5.8	755.5
H05VVH6-F(YFFB)	20	1.5	59/0.18	67.3	5.8	831.4
H05VVH6-F(YFFB)	24	1.5	59/0.18	80.3	5.8	991.8
H07VVH6-F(YFFB)	3	2.5	47/0.26	14.1	6.6	204.5
H07VVH6-F(YFFB)	4	2.5	47/0.26	18.7	6.6	268.4
H07VVH6-F(YFFB)	5	2.5	47/0.26	23.3	6.6	332.3
H07VVH6-F(YFFB)	8	2.5	47/0.26	36	6.6	513.3
H07VVH6-F(YFFB)	9	2.5	47/0.26	37.7	6.6	549.1
H07VVH6-F(YFFB)	10	2.5	47/0.26	41.3	6.6	603.3
H07VVH6-F(YFFB)	12	2.5	47/0.26	48.5	6.6	711.8
H07VVH6-F(YFFB)	16	2.5	47/0.26	63.9	6.6	938.3
H07VVH6-F(YFFB)	18	2.5	47/0.26	72.1	6.6	1056

Type	No. of cores	Specification	Conductor Structure	Width mm	Thickness mm	Density kg/km
H07VVH6-F(YFFB)	20	2.5	47/0.26	79.3	6.6	1165
H07VVH6-F(YFFB)	24	2.5	47/0.26	94.7	6.6	1391
H07VVH6-F(YFFB)	3	4	77/0.25	16.5	7.3	279
H07VVH6-F(YFFB)	4	4	77/0.26	21.9	7.3	367.7
H07VVH6-F(YFFB)	5	4	77/0.26	27.3	7.3	456.3
H07VVH6-F(YFFB)	8	4	77/0.26	40.5	7.3	690
H07VVH6-F(YFFB)	9	4	77/0.26	44.9	7.3	768
H07VVH6-F(YFFB)	10	4	77/0.26	49.3	7.3	845.9
H07VVH6-F(YFFB)	12	4	77/0.26	58.1	7.3	1002
H07VVH6-F(YFFB)	16	4	77/0.26	76.7	7.3	1324
H07VVH6-F(YFFB)	18	4	77/0.26	86.5	7.3	1491
H07VVH6-F(YFFB)	3	6	84/0.3	18.6	8	364.7
H07VVH6-F(YFFB)	4	6	84/0.3	26.9	8	507.6
H07VVH6-F(YFFB)	5	6	84/0.3	32	8	612.9
H07VVH6-F(YFFB)	8	6	84/0.3	48.9	8	947.7
H07VVH6-F(YFFB)	9	6	84/0.3	54	8	1053
H07VVH6-F(YFFB)	10	6	112/0.26	59.1	8	1158
H07VVH6-F(YFFB)	12	6	112/0.26	67.7	8	1350
H07VVH6-F(YFFB)	16	6	112/0.26	89.7	8	1791
H07VVH6-F(YFFB)	3	10	189/0.26	24	9.7	563.9
H07VVH6-F(YFFB)	4	10	189/0.26	34.5	9.7	784.1
H07VVH6-F(YFFB)	5	10	189/0.26	41.4	9.7	953.1
H07VVH6-F(YFFB)	8	10	189/0.26	63.9	9.7	1486
H07VVH6-F(YFFB)	9	10	189/0.26	70.8	9.7	1655
H07VVH6-F(YFFB)	10	10	189/0.26	77.7	9.7	1824
H07VVH6-F(YFFB)	12	10	189/0.26	89.7	9.7	2136
H07VVH6-F(YFFB)	3	16	30/0.26	27	10.7	778.3
H07VVH6-F(YFFB)	4	16	30/0.26	38.5	10.7	1074
H07VVH6-F(YFFB)	5	16	30/0.26	46.4	10.7	1313
H07VVH6-F(YFFB)	8	16	30/0.26	71.9	10.7	2057
H07VVH6-F(YFFB)	9	16	30/0.26	79.8	10.7	2296
H07VVH6-F(YFFB)	10	16	30/0.26	87.7	10.7	2535
H07VVH6-F(YFFB)	3	25	456/0.26	33.2	12.8	1145
H07VVH6-F(YFFB)	4	25	456/0.26	47	12.8	1575
H07VVH6-F(YFFB)	5	25	456/0.26	56.8	12.8	1929
H07VVH6-F(YFFB)	8	25	456/0.26	88.2	12.8	3031
H07VVH6-F(YFFB)	3	35	646/0.26	40.6	15.2	1645
H07VVH6-F(YFFB)	4	35	646/0.26	56.6	15.2	2245
H07VVH6-F(YFFB)	5	35	646/0.26	68.6	15.2	2755
H07VVH6-F(YFFB)	3	50	839/0.268	47	17.4	2360
H07VVH6-F(YFFB)	4	50	839/0.268	60	17.4	3119
H07VVH6-F(YFFB)	5	50	839/0.268	75	17.4	3828

02 PENDANT CABLE

APPLICATIONS

- Special cable lateral suspension strands used to remote control overhead cranes from pushbutton boxes.
- It can be used for installations where the hanging length of cable does not exceed 50m.

TECHNICAL DATA

Minimum bending radius 10×outer diameter

Test voltage 2500V

Working temperature -15°C ~ +70°C

Max. temperature at the conductor in service +90°C , in short circuit +250°C

CONSTRUCTION

Conductor Multiple strands of ultra-fine stranded oxygen-free copper wire, VDE0295CLASS 5 compliant

Inner core Color Color coding according to IEC60227
Color marking, digital marking can be customized according to customer

Insulation XLPE or others

Sheath Environmental protection, flame retardant PVC

Steel wire 1 or 2 steel wires

Inner liner Special non-woven wrap cushioning

Type	No. of cores	Specification	Conductor Structure	Steel wire	Net weight	Approximate Diameter	
RVVG	5c	1.25sq	50/0.18	1	212	15	10.6
RVVG	8c	1.25sq	50/0.18	1	334	19.3	12.6
RVVG	10c	1.25sq	50/0.18	1	426	21.8	15
RVVG	12c	1.25sq	50/0.18	1	472	22.3	15.6
RVVG	14c	1.25sq	50/0.18	1	526	23.2	16.4
RVVG	16c	1.25sq	50/0.18	1	582	24.2	17.4
RVVG	20c	1.25sq	50/0.18	1	689	25.8	19
RVVG	24c	1.25sq	50/0.18	1	831	28.7	21.9
RVVG	30c	1.25sq	50/0.18	1	980	30.2	23.3
RVVG	5c	1.5sq	59/0.18	1	230	15	10.6
RVVG	8c	1.5sq	59/0.18	1	351	19.3	12.6
RVVG	10c	1.5sq	59/0.18	1	450	21.8	15
RVVG	12c	1.5sq	59/0.18	1	498	22.3	15.6
RVVG	14c	1.5sq	59/0.18	1	556	23.2	16.4
RVVG	16c	1.5sq	59/0.18	1	620	24.2	17.4
RVVG	20c	1.5sq	59/0.18	1	736	25.8	19
RVVG	24c	1.5sq	59/0.18	1	912	28.7	21.9
RVVG	30c	1.5sq	59/0.18	1	1070	30.2	23.3
RVV2G	5c	1.25sq	50/0.18	2	248	19.2	10.6
RVV2G	8c	1.25sq	50/0.18	2	346	23.5	12.6
RVV2G	10c	1.25sq	50/0.18	2	439	25.9	15
RVV2G	12c	1.25sq	50/0.18	2	483	26.5	15.6
RVV2G	14c	1.25sq	50/0.18	2	536	27.4	16.4
RVV2G	16c	1.25sq	50/0.18	2	633	30.4	17.4
RVV2G	20c	1.25sq	50/0.18	2	737	32	19
RVV2G	24c	1.25sq	50/0.18	2	895	34.9	21.9
RVV2G	30c	1.25sq	50/0.18	2	1041	36.3	23.3

03 REELING CABLE

APPLICATIONS

- Reeling cable are suitable for winding and moving applications in heavy machinery such as port cranes, tower cranes, and stackers, as well as for frequent power supply and signal transmission in industrial fields such as mining, metallurgy, and shipbuilding.
- They are resistant to bending, pulling, and twisting.

NOTE

The cable is installed with the upper end fixed, hanging freely for a few days to fully remove the internal stress, and then the lower end is fixed.

TECHNICAL DATA

Minimum bending radius	10×outer diameter
Temperature range	Mobile Installation: -20°C----+70°C Fixed Installation: -35°C----+80°C
Test voltage	2000V
Working voltage	300/500V
Test voltage	2500V
Working voltage	450/750V

CONSTRUCTION

Conductor	Multiple strands of ultra-fine stranded oxygen-free copper wire, VDE0295CLASS 5 compliant
Insulation	A special blend of Tin-fine PVC soft insulation, EPR/PCP/PUR
Inner core Color	Color coding according to IEC60227, Color marking, digital marking can be customized according to customer's specific requirements
Inner liner	Special non-woven wrap cushioning
Reinforce	Multi-strand jute rope filling (optional)
Sheath	Special PVC, EPR/PCP/PUR

Type	Specification	Conductor Structure	Density	Approximate Diameter
YVFR	0.5*3C	28/0.15	73	7.1
YVFR	0.5*4C	28/0.15	88	7.7
YVFR	0.5*5C	28/0.15	104	8.3
YVFR	0.5*6C	28/0.15	121	9
YVFR	0.5*8C	28/0.15	178	12.3
YVFR	0.5*9C	28/0.15	188	12.3
YVFR	0.5*10C	28/0.15	205	12.9
YVFR	0.5*11C	28/0.15	224	13.6
YVFR	0.5*12C	28/0.15	234	13.6
YVFR	0.5*14C	28/0.15	271	14.9
YVFR	0.5*16C	28/0.15	295	15.2
YVFR	0.5*30C	28/0.15	520	20.7
YVFR	0.75*3C	30/0.18	89	7.7
YVFR	0.75*4C	30/0.18	109	8.4
YVFR	0.75*5C	30/0.18	129	9.1
YVFR	0.75*6C	30/0.18	151	9.9
YVFR	0.75*8C	30/0.18	222	13.6
YVFR	0.75*9C	30/0.18	235	13.6
YVFR	0.75*10C	30/0.18	257	14.2
YVFR	0.75*11C	30/0.18	281	15.1
YVFR	0.75*12C	30/0.18	295	15.1
YVFR	0.75*14C	30/0.18	342	16.6
YVFR	0.75*16C	30/0.18	374	16.9
YVFR	0.75*20C	30/0.18	458	18.9
YVFR	0.75*36C	30/0.18	632	21.4
YVFR	1.0*2C	40/0.18	137	9.4
YVFR	1.0*3C	40/0.18	164	10.2
YVFR	1.0*4C	40/0.18	191	11.1
YVFR	1.0*5C	40/0.18	282	15.4
YVFR	1.0*6C	40/0.18	299	15.7

Type	Specification	Conductor Structure	Density	Approximate Diameter
YVFR	1.0*7C	40/0.18	326	16.1
YVFR	1.0*10C	40/0.18	358	17
YVFR	1.0*12C	40/0.18	375	17.6
YVFR	1.0*14C	40/0.18	437	18.7
YVFR	1.0*16C	40/0.18	477	19.1
YVFR	1.0*20C	40/0.18	585	21.3
YVFR-NBR	1.5*3C	59/0.18	146	9.8
YVFR-NBR	1.5*4C	59/0.18	181	10.7
YVFR-NBR	1.5*5C	59/0.18	217	11.6
YVFR-NBR	1.5*6C	59/0.18	254	12.7
YVFR-NBR	1.5*8C	59/0.18	376	17.7
YVFR-NBR	1.5*9C	59/0.18	401	17.7
YVFR-NBR	1.5*10C	59/0.18	438	18.6
YVFR-NBR	1.5*11C	59/0.18	482	19.7
YVFR-NBR	1.5*12C	59/0.18	506	19.7
YVFR-NBR	1.5*14C	59/0.18	590	21.7
YVFR-NBR	1.5*16C	59/0.18	647	22.1
YVFR-NBR	1.5*20C	59/0.18	797	24.7
YVFR-NBR	2.5*3C	47/0.26	211	11.6
YVFR-NBR	2.5*4C	47/0.26	264	12.8
YVFR-NBR	2.5*5C	47/0.26	320	14
YVFR-NBR	2.5*8C	47/0.26	558	21.6
YVFR-NBR	2.5*9C	47/0.26	597	21.6
YVFR-NBR	2.5*10C	47/0.26	655	22.7
YVFR-NBR	2.5*11C	47/0.26	722	24.1
YVFR-NBR	2.5*13C	47/0.26	800	24.1
YVFR-NBR	4.0-3C	77/0.26	278	12.9
YVFR-NBR	4.0*4C	77/0.26	351	14.2
YVFR-NBR	4.0*5C	77/0.26	427	15.6
YVFR-NBR	4.0*6C	77/0.26	505	17

ELEVATOR CABLE



APPLICATIONS

The cable is designed with a special structure for long service life, maximizing the operational efficiency of elevator manufacturers. Elevator control cables provide integral electrical control over long suspension lengths while withstanding mechanical stress. Elevator cables can be used in long-distance suspension applications due to the steel wire bearing core.

NOTE

▸ **When the elevator cables are arranged in a single font**

- 1.The free use length is greater than 35m
- 2.Running speed greater than 1.6m/s

It should be considered to add load-bearing elements in the cable, and the load-bearing elements are generally galvanized soft wire rope or fiber rope, such as aramid yarn

▸ **When the elevator cable is arranged in a plum blossom pattern**

- 1.The free suspension length is greater than 80m
- 2.Running speed is 4.0m/s-10m /s

It should be considered to add load-bearing elements in the cable, and the load-bearing elements are generally galvanized soft wire rope.

TECHNICAL DATA

Rated voltage	300/500V
Test voltage	2500V
Minimum bending radius	10×outer diameter
Working temperature	-15°C ~ +70°C
Temperature of conductor	lower than 70°C

*TVVB (pararell) free suspension length must not exceed 35 meters, and the lift speed must not exceed 1.6m/s.

TVVB (interwist) free suspension length must not exceed 80 meters, and the lift speed must not exceed 4 m/s.

STRUCTURE

Conductor	Multiple strands of ultra-fine stranded oxygen-free copper wire, VDE0295CLASS 5 compliant
Inner core Color	Color coding according to IEC60227, Color marking, digital marking can be customized according to customer's specific requirements
Reinforce	Steel rope. (optional)
Sheath	Flexible PVC, cold resistance and flame resistance, grey (RAL71001) or black (RAL9005)
Inner liner	None
Standard	Eu CE certification IEC60227-6; 2001 60227IEC 71F(TVVB) (3-24)X(0.75-1)mm ²

Type	No. of cores	Specification	Conductor Structure	Width mm	Thickness mm	Density kg/km	Shape
TVVB	3	0.75	30/0.18	10.4	4.6	91	Line up
TVVB	4	0.75	30/0.18	13.7	4.6	119	Line up
TVVB	8	0.75	30/0.18	24.1	4.6	212	Line up
TVVB	9	0.75	30/0.18	26.5	4.6	233	Line up
TVVB	10	0.75	30/0.18	28.8	4.6	255	Line up
TVVB	12	0.75	30/0.18	33.5	4.6	299	Line up
TVVB	16	0.75	30/0.18	43.9	4.6	392	Line up
TVVB	18	0.75	30/0.18	49.6	4.6	441	Line up
TVVB	20	0.75	30/0.18	54.3	4.6	485	Line up
TVVB	24	0.75	30/0.18	64.7	4.6	578	Line up
TVVB	28	0.75	30/0.18	31.9	9	505	blossom arrangement
TVVB	30	0.75	30/0.18	40.7	8.3	627	blossom arrangement
TVVB	36	0.75	30/0.18	44.4	9	743	blossom arrangement
TVVB	40	0.75	30/0.18	51.8	8.3	805	blossom arrangement
TVVB	42	0.75	30/0.18	50.6	9	850	blossom arrangement
TVVB	48	0.75	30/0.18	56.7	9	957	blossom arrangement
TVVB	54	0.75	30/0.18	62.9	9	1065	blossom arrangement
TVVB	60	0.75	30/0.18	69	9	1172	blossom arrangement
TVVB	66	0.75	30/0.18	75.2	9	1279	blossom arrangement
TVVB(G)	3	0.75	30/0.18	15.9	4.6	132	Line up (with steel rope)
TVVB(G)	4	0.75	30/0.18	19.2	4.6	158	Line up (with steel rope)
TVVB(G)	8	0.75	30/0.18	29.6	4.6	244	Line up (with steel rope)
TVVB(G)	9	0.75	30/0.18	32	4.6	264	Line up (with steel rope)
TVVB(G)	10	0.75	30/0.18	34.3	4.6	284	Line up (with steel rope)
TVVB(G)	12	0.75	30/0.18	39	4.6	324	Line up (with steel rope)
TVVB(G)	16	0.75	30/0.18	50.1	4.6	418	Line up (with steel rope)
TVVB(G)	18	0.75	30/0.18	55.8	4.6	464	Line up (with steel rope)
TVVB(G)	20	0.75	30/0.18	60.5	4.6	504	Line up (with steel rope)
TVVB(G)	24	0.75	30/0.18	70.9	4.6	591	Line up (with steel rope)
TVVB(G)	28	0.75	30/0.18	40.9	9	651	blossom arrangement (with steel rope)
TVVB(G)	30	0.75	30/0.18	48.9	8.3	756	blossom arrangement (with steel rope)
TVVB(G)	36	0.75	30/0.18	52.6	9	878	blossom arrangement (with steel rope)
TVVB(G)	40	0.75	30/0.18	60	8.3	934	blossom arrangement (with steel rope)
TVVB(G)	42	0.75	30/0.18	59.8	9	1018	blossom arrangement (with steel rope)
TVVB(G)	48	0.75	30/0.18	65.9	9	1125	blossom arrangement (with steel rope)
TVVB(G)	54	0.75	30/0.18	72.1	9	1233	blossom arrangement (with steel rope)
TVVB(G)	60	0.75	30/0.18	78.2	9	1340	blossom arrangement (with steel rope)

SOLAR CABLE



APPLICATIONS

Photovoltaic cables are suitable for DC (e.g. 1.5kV/1.8kV) and AC low voltage transmission scenarios in solar PV power plants (ground/rooftop), distributed PV systems, building-integrated photovoltaic (BIPV), PV agricultural greenhouses and off-grid PV power generation.

TECHNICAL DATA

Minimum bending radius	6-8×outer diameter
Temperature range	-40°C~+120°C
Working voltage	DC 1.5kV / 1.8kV, Partial support for AC 0.6/1kV
Flame retardant	Conforms to IEC 60332-1 (single self-extinguishing) or EN 50618 (low smoke and halogen free flame retardant)Low Smoke Zero Halogen (LSZH) optional

STRUCTURE

Conductor	Prefer tinned copper wire, bare copper for some scenes
Inner core Color	XLPE, Partial use of Low Smoke Zero Halogen (LSZH) materials for special scenarios
Colors	Black or Red

Type	Number and nominal sectional area of conductors(mm ²)	Thickness of insulation(mm)	Thickness of sheath(mm)	Maximum resistance of conductor at 20°C(Ω/km)	Current carrying capacity(A0)
PV1-F (H1Z2Z2-K)	1x1.5	0.7	0.8	13.7	30
PV1-F (H1Z2Z2-K)	1x2.5	0.7	0.8	8.21	41
PV1-F (H1Z2Z2-K)	1x4	0.7	0.8	5.09	55
PV1-F (H1Z2Z2-K)	1x6	0.7	0.8	3.39	70
PV1-F (H1Z2Z2-K)	1x10	0.7	0.8	1.95	98
PV1-F (H1Z2Z2-K)	1x16	0.7	0.9	1.24	132
PV1-F (H1Z2Z2-K)	1x25	0.9	1.0	0.795	176
PV1-F (H1Z2Z2-K)	1x35	0.9	1.1	0.565	218
PV1-F (H1Z2Z2-K)	1x50	1.0	1.2	0.393	276
PV1-F (H1Z2Z2-K)	1x70	1.1	1.2	0.277	347
PV1-F (H1Z2Z2-K)	1x95	1.1	1.3	0.210	416
PV1-F (H1Z2Z2-K)	1x120	1.2	1.3	0.164	488
PV1-F (H1Z2Z2-K)	1x150	1.4	1.4	0.132	566
PV1-F (H1Z2Z2-K)	1x185	1.6	1.6	0.108	644
PV1-F (H1Z2Z2-K)	1x240	1.7	1.7	0.817	775

POWER CABLE

01 EV CHARGING CABLE



APPLICATIONS

EV Charging cables offer electric vehicle owners and charging infrastructure providers the perfect balance of reliability, durability and efficient power transmission.

TECHNICAL DATA

Minimum bending radius	10×outer diameter
Working voltage	<1mm ² 300/500V , ≥1mm ² 450/750V
Testing voltage	2000V , 2500V

CONSTRUCTION

Conductor	Copper (main), Aluminum (optional)
Insulation	Mixed flexible PVC or others
Inner core Color	Color coding according to IEC60227,Color marking, digital marking can be customized according to customer
Inner liner	None or optional
Sheath	Oil resistant, weather resistant elastic PVC special sheath

02 LOW VOLTAGE CABLE



APPLICATIONS

Low-voltage cables are suitable for power transmission and signal control scenarios at lower voltage levels (usually ≤1kV) such as household power supply, commercial building lighting and outlets, small industrial equipment, charging piles (AC slow charging), landscape lighting, and security systems.

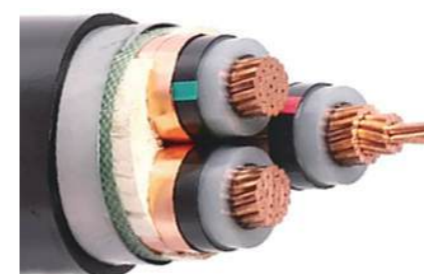
TECHNICAL DATA

Minimum bending radius	10×outer diameter
Working voltage	300-500v,450-750v,0.6-1kv
Temperature range	-40°C~+90°C (common PVC/XLPE), extreme scenario optional -50°C~+125°C (e.g. fluoroplastic insulation)

CONSTRUCTION

Conductor	Copper (main), Aluminum (optional)
Insulation	Mixed flexible PVC or others
Inner core Color	Color coding according to IEC60227,Color marking, digital marking can be customized according to customer
Inner liner	None or optional
Sheath	Oil resistant, weather resistant elastic PVC special sheath

03 MEDIUM VOLTAGE CABLE



APPLICATIONS

Medium voltage cables are suitable for power transmission scenarios of 6kV - 35kV voltage level in urban distribution networks, power supply in industrial parks, power transmission in large commercial building complexes, power systems in mines and factories, and grid connection of new energy power stations (e.g. photovoltaic/wind power).

TECHNICAL DATA

Minimum bending radius	20×outer diameter
Working voltage	6/10kV, 8.7/15kV, 12/20kV, 18/30kV (or 35kV)
Testing voltage	-40°C~+90°C (common PVC/XLPE), extreme scenario optional -50°C~+125°C (e.g. fluoroplastic insulation)

CONSTRUCTION

Conductor	Copper (main), Aluminum (optional)
Insulation	PVC or XLPE
Inner core Color	Color coding according to IEC60227,Color marking digital marking can be customized according to customer
Inner liner	None or optional
Sheath	Conductor shielding (semi-conductive layer, uniform electric field) + insulating shielding (peelable or non-peelable), metal shielding of copper tape/wire (ground fault current export)

■ HIGH DRAG CHAIN CABLE (ROBOT CABLE)



APPLICATIONS

High Drag Chain cables (often referred to as Continuous Flex or Extra-Flexible cables) are specifically engineered for use in constant, high-speed linear motion within cable carrier systems (drag chains). Unlike standard flexible cables, these are designed to withstand millions of bending cycles and extreme mechanical stress.

CORE APPLICATIONS

CNC Machining & Tooling	Ideal for computer-controlled lathes, milling machines, and grinders where the cable must move back and forth rapidly alongside the cutting head.
Automated Production Lines	Extensively used in automotive assembly plants, packaging machinery, and bottling lines that operate 24/7
Robotics & Pick-and-Place	Provides reliable power and signal transmission for multi-axis robotic arms and high-speed sorting systems in logistics centers.
Material Handling	Used in automated storage and retrieval systems (AS/RS), gantry cranes, and conveyor systems that require long travel distances.
Semiconductor Manufacturing	Suitable for cleanroom environments where high-precision motion and low-friction jackets (to prevent dust) are required.

CONSTRUCTION

Conductor	Super-fine Oxygen-Free Copper (OFC) strands Class 6 (VDE 0295 / IEC 60228)
Insulation	High-performance PVC or TPE (Low-capacitance for signal integrity)
Core Identification	Color-coded according to DIN 47100 or black cores with white numbering
Stranding	Optimized short-pitch twisting to minimize internal friction and "corkscrewing"
Wrap	Non-woven fleece or specialized sliding tape to reduce heat build-up
Outer Jacket	Premium PUR (Polyurethane) or High-Grade Oil-Resistant PVC
Jacket Color	Matt Black (RAL 9005) or Grey (RAL 7001)

TECHNICAL DATA

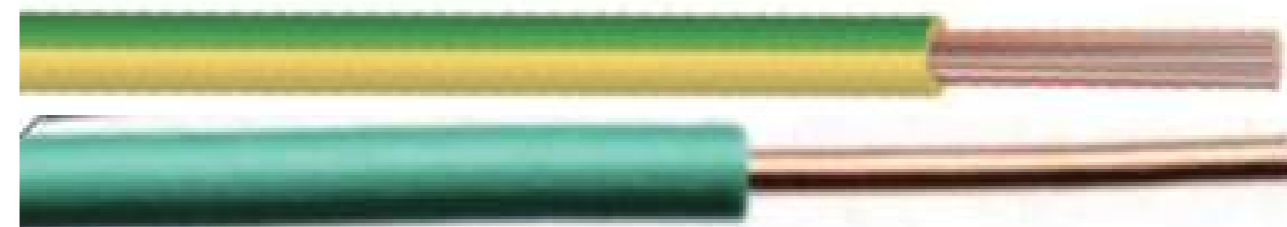
Bending Radius (Flexible)	7.5 x D (Outer Diameter)
Bending Radius (Fixed)	4 x D (Outer Diameter)
Travel Distance	Up to 100m (Horizontal)
Max Speed	Up to 5 m/s (Gliding) / 10 m/s (Unsupported)
Max Acceleration	50 m/s ²
Flexing Cycles	5 Million to 10 Million (Application dependent)

Type	Specification	Density	Approximate Diameter
TRVVP	0.3*30C	241.2	12.4
TRVVP	0.3*36C	284.5	13.4
TRVVP	0.4*2C	35.3	5.5
TRVVP	0.4*3C	44.4	5.8
TRVVP	0.4*4C	54.7	6.2
TRVVP	0.4*5C	65.4	6.8
TRVVP	0.4*6C	76.6	7.3
TRVVP	0.4*7C	87.9	7.9
TRVVP	0.4*10C	120	9.2
TRVVP	0.4*12C	137.1	9.5
TRVVP	0.4*14C	156	10
TRVVP	0.4*19C	202.6	11.1
TRVVP	0.4*24C	257.7	13
TRVVP	0.4*27C	282.9	13.3
TRVVP	0.4*30C	310.3	13.8
TRVVP	0.4*36C	366.9	14.9
TRVVP	0.5*2C	40.9	5.9
TRVVP	0.5*3C	51.7	6.3
TRVVP	0.5*4C	64	6.8
TRVVP	0.5*5C	76.8	7.4
TRVVP	1.0*7C	173	11
TRVVP	1.0*10C	239.9	13
TRVVP	1.0*12C	276.4	13.4
TRVVP	1.0*14C	316.2	14.2
TRVVP	1.0*19C	415.1	15.8
TRVVP	1.0*24C	531.1	18.7
TRVVP	1.0*27C	585.1	19.1
TRVVP	1.0*30C	643.4	19.8
TRVVP	1.0*36C	764	21.5
TRVVP	1.5*2C	83.6	8.4
TRVVP	1.5*3C	109.5	8.9
TRVVP	1.5*4C	138.4	9.8
TRVVP	1.5*5C	168.6	10.8
TRVVP	1.5*6C	199.8	11.8
TRVVP	1.5*7C	231.6	12.8
TRVVP	1.5*10C	322.9	15.1
TRVVP	1.5M2C	372.9	15.6
TRVVP	1.5*14C	427.4	16.5
TRVVP	1.5*19C	562.7	18.5
TRVVP	0.5*6C	90.1	8.1
TRVVP	0.5*7C	103.6	8.7
TRVVP	0.5*10C	142	10.2
TRVVP	0.5*12C	162.5	10.5
TRVVP	0.5*14C	185.1	11.1
TRVVP	0.5*19C	240.9	12.3
TRVVP	0.5*24C	307.2	14.4
TRVVP	0.5*27C	337.4	4.7
TRVVP	0.5*30C	370.2	15.3
TRVVP	0.5*36C	438.1	16.5

Type	Specification	Density	Approximate Diameter
TRVVP	0.75*2C	48.4	6.3
TRVVP	0.75*3C	62.1	6.6
TRVVP	0.75*4C	77.5	7.2
TRVVP	0.75*5C	93.5	7.9
TRVVP	0.75*6C	110	8.6
TRVVP	0.75*7C	126.8	9.3
TRVVP	0.75*10C	174.9	10.9
TRVVP	0.75*12C	201.1	11.2
TRVVP	0.75*14C	229.7	11.8
TRVVP	0.75*19C	300.6	13.2
TRVVP	0.75*24C	383.4	15.5
TRVVP	0.75*27C	422.1	15.8
TRVVP	0.75*30C	463.9	16.4
TRVVP	0.75*36C	550	17.8
TRVVP	1.0*2C	64.1	7.3
TRVVP	1.0*3C	83.1	7.8
TRVVP	1.0MC	104.4	8.5
TRVVP	1.0*5C	126.6	9.3
TRVVP	1.0*6C	149.6	10.2
TRVVP	1.5*24C	721.5	21.8
TRVVP	2.5*2C	138.5	11
TRVVP	2.5*3C	184	11.7
TRVVP	2.5*4C	234.7	12.9
TRVVP	2.5*5C	287.6	14.3
TRVVP	2.5*6C	342.3	15.7
TRVVP	2.5*7C	398.2	17.1
TRVVP	2.5*10C	559.3	20.3
TRVVP	2.5*12C	647.6	21
TRVVP	2.5*14C	744	22.2
TRVVP	2.5*19C	983.7	25
TRVVP	4.0*2C	193.3	12.8
TRVVP	4.0*3C	259.9	13.6
TRVVP	4.0*4C	333.5	15.1
TRVVP	4.0*5C	410.2	16.6
TRVVP	4.0*6C	489.5	18.3
TRVVP	6.0*2C	253.6	14.3
TRVVP	6.0*3C	344.5	15.3
TRVVP	6.0*4C	444.2	16.9
TRVVP	6.0*5C	547.8	18.7
TRVVP	6.0*6C	654.6	20.6
TRVVP	10.0*2C	382.7	17.5
TRVVP	10.0*3C	524.3	18.7
TRVVP	10.0MC	679	20.8
TRVVP	10.0*5C	839.7	23
TRVVP	10.0*6C	1122.5	25.4
TRVVP	16.0*2C	545.4	20.3
TRVVP	16.0*3C	754.4	21.7
TRVVP	16.0MC	981.1	24.2
TRVVP	16.0*5C	1215.8	26.8

LSZH (LOW SMOKE ZERO HALOGEN) CABLE

01 HALOGEN-FREE, FLAME-RETARDANT SINGLE CORE WIRE H05Z-K / H07Z-K & H07Z-R / H07Z-U



APPLICATIONS

Designed for fire-sensitive and high-density environments like subways, airports, data centers, and premium panel building, this LSZH series emits zero toxic halogens and minimal smoke during a fire, ensuring visibility for evacuation and protecting sensitive electronics from acid corrosion. The flexible types (-K) are ideal for intricate internal wiring in control cabinets, while the rigid types (-R/-U) offer excellent shape retention for neat routing in switchboards and permanent conduit installations in public infrastructure.

TECHNICAL DATA

Standard	EN 50525-2-31 / IEC 60227
Temperature Rating	Up to 90°C (compared to 70°C for standard PVC)
Fire & Eco Performance	1. Flame Retardant: Complies with IEC 60332-1-2 2. Halogen-Free: Complies with IEC 60754-1 & 2 (gas release pH \geq 4.3) 3. Low Smoke: Complies with IEC 61034-2 (light transmittance \geq 60%)

STRUCTURE

Conductor	Class 5 Flexible (H05Z-K& H07Z-K) Class 1 Solid Rigid (H07Z-U) Class 2 Stranded Rigid (H07Z-R)
Working voltage	300/500V (H05Z-K); 450/750V (H07Z-K/ H07Z-U/ H07Z-R)
Insulation	LSZH / XLPO

02 LOW-SMOKE, HALOGEN-FREE, FLAME-RETARDANT POWER CABLES N2XH/HSLH



APPLICATIONS

Engineered for fire-sensitive and high-value environments such as public infrastructure and industrial automation, this LSZH series emits zero toxic halogens and minimal smoke during a fire, ensuring safe evacuation and protecting sensitive equipment from acid corrosion. The N2XH Power Cables (0.6/1kV), featuring a 90°C temperature rating and robust electrical stability, are widely used for main power distribution in subways, airports, and data centers. Meanwhile, the HSLH Control Cables (300/500V) offer excellent flexibility and interference resistance, making them ideal for signal transmission and power supply in industrial machinery, automation lines, and switchgear control circuits.

TECHNICAL DATA

Standard	EN 50525-2-31 / IEC 60227
Temperature Rating	Up to 90°C (N2XH); -30 °C - +70 °C(HSLH)
Fire & Eco Performance	1. Flame Retardant: Complies with IEC 60332-1-2 2. Halogen-Free: Complies with IEC 60754-1 & 2 (Halogen acid gas release < 0.5% / 5 mg/g) 3. Low Smoke: Complies with IEC 61034-2 (light transmittance > 60%)

STRUCTURE

Conductor	Class 1 or Class 2 (N2XH) Class 5 or Tin-plated copper (HSLH)
Working voltage	0.6/1 kV (N2XH); 300/500V or 450/750V (HSLH)
Insulation	XLPE (N2XH); LSZH(HSLH)
Outer Sheath	LSZH (N2XH& HSLH)

OVERHEAD CABLE

01 STEEL CORE ALUMINUM ALLOY STRANDED WIRE



APPLICATIONS

Steel core aluminum alloy stranded wire is suitable for large span, high load transmission lines, such as long-distance high-voltage transmission, heavy ice, large gear distance overhead lines and harsh environments (strong wind/corrosion) power transmission, both the high strength of the steel core and aluminum alloy lightweight/corrosion-resistant characteristics.

TECHNICAL DATA

Rated voltage	10kV、35kV、110kV、220kV、500kV
Temperature range	-40°C~ +80°C
Flame retardancy	Aluminum alloy layer has good atmospheric corrosion resistance, steel core galvanized treatment to enhance corrosion resistance

CONSTRUCTION

Conductor	Inner steel core, outer aluminum alloy wire
Stranding process	Steel core and aluminum alloy layer using layered stranding process (e.g., concentric layer stranding for steel core, Z-type or S-type stranding for aluminum alloy)

02 ALL ALUMINUM ALLOY CONDUCTOR (AAAC)



APPLICATIONS

Aluminum alloy conductors(AAAC) are suitable for cost-sensitive, moderate current-carrying requirements and ample installation space, such as factory floors, rural power grids, building power distribution and other low-voltage distribution systems, commonly used in fixed laying of power transmission lines.

TECHNICAL DATA

Rated voltage	0.6/1kV、6/10kV、8.7/15kV
Temperature range	-40°C~+90°C
Flame retardancy	IEC 60332-1 (single self-extinguishing) or better

CONSTRUCTION

Conductor Aluminum or aluminum alloy

Monofilament form Multiple fine monofilament strands

Stranding process Tightly pressed (increase fill factor, reduce outer diameter) and non-tightly pressed (superior flexibility)

Special design shielding layer (e.g. anti-interference) or water-blocking layer (e.g. wet environment) added to some scenarios

03 OVERHEAD INSULATED CABLE

APPLICATIONS

Overhead insulated cables are suitable for use in densely populated areas such as town streets, residential areas, parks, etc., as well as in special areas crossing highways, railroads, rivers, etc., and are used for low-voltage or medium-voltage distribution lines of 1kV and below or 10kV and below, with the flexibility of both insulation protection and overhead laying.

TECHNICAL DATA

Rated voltage 0.6/1kv, 10kv, 20kv

Temperature range -40°C to +70°C (PVC) or +90°C (XLPE)

Flame retardancy According to IEC 60332 - 1 (single self-extinguishing) or better (e.g. low-smoke halogen-free flame retardant LSZH)

CONSTRUCTION

Conductor Mainly hard/soft copper (T2/TU1) or aluminum (L2/LY9)

Monofilament form Multiple fine monofilament strands

Stranding process Layered stranding (center mono + multilayer monofilament)

Out jacket PVC, XLPE, LSZH, PE

NETWORK CABLE
01 HIGH SPEED SHIELDED NETWORK CABLE—CAT5/CAT6/CAT7

APPLICATIONS

Shielded network cable is suitable for industrial environments with strong electromagnetic interference, server room networks with high confidentiality requirements, medical equipment networking and audio/video transmission scenarios, etc. It effectively resists external electromagnetic interference through the metal shielding layer and guarantees high-speed and stable data transmission.

TECHNICAL DATA

Attenuation < 20dB/100m (100MHz, Super Category 5), < 15dB/100m (100MHz, Category 6)

Temperature range -20°C~ +70°C (conventional), -40°C~ +80°C

CONSTRUCTION

Conductor High-purity oxygen-free copper as the main, some low-cost scenes with copper-clad aluminum

Monofilament form Mostly single solid copper wire (e.g. 24AWG/23AWG common specifications) or fine copper wire stranded (e.g. multi-stranded soft copper to enhance flexibility)

Stranding process Pairs of wires (e.g., 4 pairs of twisted wires) are stranded using precision spiral stranding

Sheath Conductor stranded and wrapped with insulation, then combined with a shield (e.g. aluminum foil + woven mesh)

02 HIGH SPEED UNSHIELDED NETWORK CABLE—CAT5/CAT6/CAT7

APPLICATIONS

Unshielded network cable is suitable for simple electromagnetic environment, cost-sensitive and moderate transmission rate requirements, such as ordinary home networks, small offices, school classrooms and conventional indoor wiring, to meet the needs of 100 Gigabit to Gigabit basic network communications.

TECHNICAL DATA

Attenuation < 20dB/100m (100MHz, Super Category 5), < 15dB/100m (100MHz, Category 6)

Temperature range -20°C~ +70°C (conventional), -40°C~ +80°C (industrial grade)

Flame retardancy Conforms to IEC 60332 - 1 (self-extinguishing single vertical flame) or better (e.g., low-smoke, halogen-free flame retardant)

CONSTRUCTION

Conductor High-purity oxygen-free copper as the main, some low-cost scenes with copper-clad aluminum

Monofilament form Mostly single solid copper wire (e.g. 24AWG/23AWG common specifications) or fine copper wire stranded (e.g. multi-stranded soft copper to enhance flexibility)

Stranding process Pairs of wires (e.g., 4 pairs of twisted wires) are stranded using precision spiral stranding

Shield None