



博尔特（漳州）电缆有限公司

B&T (ZHANGZHOU) CABLE CO., LTD.

卡博（厦门）工贸有限公司

CB (XIAMEN) INDUSTRIAL CO., LTD.

**ELECTRICAL CABLE
PRODUCT CATALOGUE**

Bort Company Profile

B & T (ZHANGZHOU) CABLE CO., LTD., established in 2009, specialises in high technology and special cables. Located at the Longchi Development Zone in Zhangzhou City, Fujian Province, B & T has invested heavily in research and development as well as in the production and sales of products such as halogen-free, high-temperature, fine, and environmentally-friendly cables.

B & T supplies high-quality cables for OEM in a wide range of industries, used in the manufacture of, among others:

- Home Appliances
- Lighting
- Construction Equipment
- Electrical and Electronic Devices
- Motor Cars & Shipping
- Medical Apparatus
- Multimedia and Networking
- Audio-Visual
- Aviation Aerospace
- Satellite Communications

The company runs six automated production lines in its large ultra modern high tech factory, operated and managed under the ISO9001:2015 standard. B & T produces over 300,000 km of cables every year, more than 90% of which are exported for use by top manufacturers around the world. The company has received UL, VDE, CCC and PSE certification for its products, which are also compliant with ROHS and REACH standards.

With its devotion to finding new materials and harnessing new technology, the company takes pride in developing cables to meet specific customer requirements.

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Factory Facilities



Product Categories

UL 758 AWM Wire

Single-conductor (PVC)

UL-1007	UL-1011	UL-1013	UL-1015	UL-1017	UL-1019	UL-1020	UL-1021	UL-1022	UL-1023
UL-1024	UL-1026	UL-1027	UL-1028	UL-1032	UL-1095	UL-1185	UL-1283	UL-1347	UL-1497
UL-1509	UL-1568	UL-1569	UL-1571	UL-1581	UL-1605	UL-1617	UL-1618	UL-1650	UL-1672
UL-1673	UL-1674	UL-1685	UL-1692	UL-1743	UL-1803	UL-1953	UL-10070		

Single-conductor (SRPVC)

UL-10071	UL-10154	UL-10535	UL-1061	UL-11014	UL-1571
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Multiple-conductor (PVC)

UL-2095	UL-2405	UL-2444	UL-2463	UL-2464	UL-2468	UL-2474	UL-2517	UL-2562	UL-2569
UL-2570	UL-2586	UL-2651	UL-2661	UL-2725	UL-2726	UL-2733	UL-2835	UL-2845	UL-2851
UL-2854	UL-2877	UL-2919	UL-2990	UL-20127	UL-20207	UL-20276	UL-20288	UL-20379	UL-20080

Single-conductor (XLPVC)

UL-1429	UL-1430	UL-1431	UL-3314	UL-3315	UL-3317	UL-3443	UL-3454
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Single-conductor (XLPE)

UL-3173	UL-3265	UL-3266	UL-3271	UL-3289	UL-3302	UL-3321	UL-3385	UL-3386	UL-3398
UL-10368									

Single-conductor (FEP)

UL-1330	UL-1331	UL-1332	UL-1333	UL-1901	UL-1887	UL-1592	UL-10588
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Single-conductor (PFA)

UL-10362	UL-1709	UL-1710	UL-1726	UL-1727
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UL62 Power Cord (PVC)

SVT	SJT	ST
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VDE Flexible Cable

Multiple-conductor (PVC)

H03VV-F 2x0.5mm2	H03VV-F 2x0.75mm2
H03VV-F 3x0.5mm2	H03VV-F 3x0.75mm2
H03VVH2-F 2x0.5mm2	H03VVH2-F 2x0.75mm2
H05VV-F 2x0.75mm2	H05VV-F 2x1.0mm2
H05VV-F 2x1.5mm2	H05VV-F 3x0.75mm2
H05VV-F 3x1.0mm2	H05VV-F 3x1.5mm2
H05VVH2-F 2x0.75mm2	H05VVH2-F 2x1.0mm2

PSE Standard Power Cord

Solid Conductors: VF (2-4 Cores) ×1.0MM	Stranded Conductors: VF (2-4 Cores) ×2.0MM2
Solid Conductors: VF (2-4 Cores) ×1.2MM	Stranded Conductors: VF (2-4 Cores) ×3.5MM2
Solid Conductors: VF (2-4 Cores) ×1.6MM	Stranded Conductors: VF (2-4 Cores) ×5.5MM2
Solid Conductors: VF (2-4 Cores) ×2.0MM	Stranded Conductors: VF (2-4 Cores) ×8.0MM2
Solid Conductors: VF (2-4 Cores) ×2.6MM	
Solid Conductors: VF (2-4 Cores) ×3.2MM	

Automotive Cable

SAE American Standard Automotive Wire

GPT	TWP	SXL	GXL	TXL
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ISO German Standard Automotive Wire

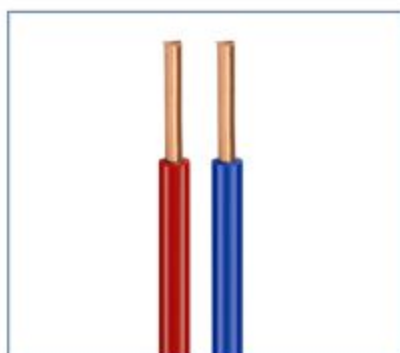
FLY	FLRY-A	FLRY-B	FLRYW-B	FLRX-B
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JASO Japan Standard Automotive Wire

AV	AVS	AVSS	AVX	AEX
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UL1007 | HOOK-UP Wire**PRODUCT DESCRIPTION**

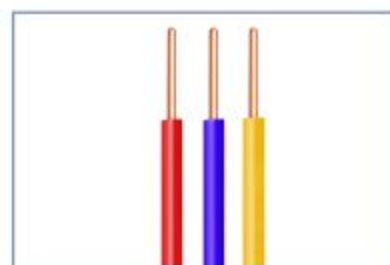
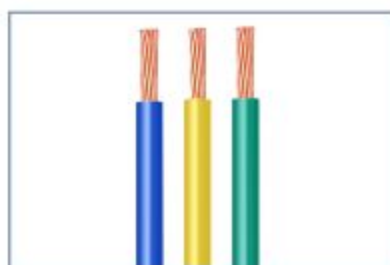
- Rated temperature: 80°C
- Rated voltage: 300V
- According to: UL Subject 758, UL1581, C22.2
- Solid or stranded, tinned or bare copper conductor 32-16AWG
- PVC insulation
- Passes UL VW-1 & CSA FT1 vertical flame test
- Uniform insulation thickness of wire to ensure easy stripping and cutting
- For general purpose internal wiring of appliances



Conductor		Finished Product			Maximum Resistance at 20°C
AWG	No. of Cond No./mm	Insulation Thickness mm	Outside Diameter mm	Packing m/r	
30	7/0.1	0.41	1.10	610	354.33
28	7/0.127	0.41	1.20	610	223.75
26	7/0.16	0.41	1.30	610	139.76
24	11/0.16	0.41	1.40	610	88.36
22	17/0.16	0.41	1.60	610	60.16
20	26/0.16	0.41	1.80	610	38.58
18	41/0.16	0.41	2.10	610	22.98
16	26/0.254	0.41	2.40	610	15.06
28	1/0.320	0.41	1.15	610	227.39
26	1/0.404	0.41	1.25	610	142.79
24	1/0.511	0.41	1.35	610	89.39
22	1/0.643	0.41	1.50	610	54.30
20	1/0.813	0.41	1.65	610	33.90
18	1/1.024	0.41	1.85	610	21.40

UL1015 | HOOK-UP Wire**PRODUCT DESCRIPTION**

- Rated temperature: 105°C
- Rated voltage: 600V
- According to: UL Subject 758, UL1581, C22.2
- Solid or stranded, tinned or bare copper conductor 30-3/0AWG
- PVC insulation
- Passes UL VW-1 & CSA FT1 vertical flame test
- Uniform insulation thickness of wire to ensure easy stripping and cutting
- For general purpose internal wiring of appliances

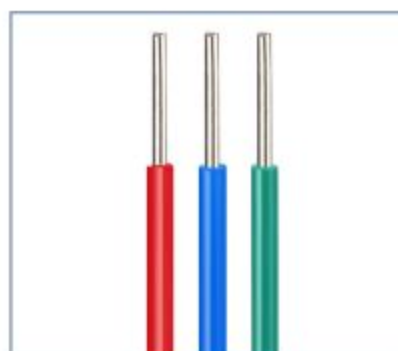
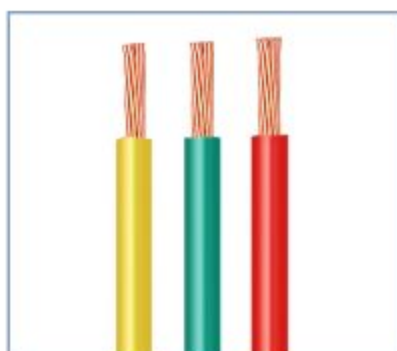


Conductor		Finished Product			Maximum Resistance at 20°C
AWG	No. of Cond	Insulation Thickness	Outside Diameter	Packing	
	No./mm	mm	mm	m/r	Ω/km
30	7/0.1	0.79	1.90	610	354.33
28	7/0.127	0.79	2.00	610	223.75
26	7/0.16	0.79	2.05	610	139.76
24	11/0.16	0.79	2.20	610	88.36
22	17/0.16	0.79	2.40	610	60.16
20	26/0.16	0.79	2.55	610	38.58
18	41/0.16	0.79	2.75	610	22.98
16	26/0.254	0.79	3.10	305	15.06
14	41/0.254	0.79	3.50	305	9.65
12	65/0.254	0.79	3.95	305	6.07
10	65/0.320	0.79	5.00	305	3.73
8	105/0.32	1.20	6.50	305	2.23
26	1/0.404	0.79	2.00	610	142.79
24	1/0.511	0.79	2.10	610	89.39
22	1/0.643	0.79	2.25	610	54.30
20	1/0.813	0.79	2.40	610	33.90
18	1/1.024	0.79	2.65	610	21.40

UL1430 | Irradiated PVC Insulated

PRODUCT DESCRIPTION

- Rated temperature: 105°C
- Rated voltage: 300V
- According to: UL Subject 758, UL1581, C22.2
- Solid or stranded, tinned or bare copper conductor 30-16AWG
- XL-PVC insulation
- Passes UL VW-1 & CSA FT1 vertical flame test
- Uniform insulation thickness of wire to ensure easy stripping and cutting
- For internal wiring of appliances



Conductor		Finished Product			Maximum Resistance at 20°C
AWG	No. of Cond No./mm	Insulation Thickness mm	Outside Diameter mm	Packing m/r	
30	7/0.1	0.41	1.10	610	354.33
28	7/0.127	0.41	1.20	610	223.75
26	7/0.16	0.41	1.30	610	139.76
24	11/0.16	0.41	1.40	610	88.36
22	17/0.16	0.41	1.60	610	60.16
20	26/0.16	0.41	1.80	610	38.58
18	41/0.16	0.41	2.10	610	22.98
16	26/0.254	0.41	2.40	610	15.06
28	1/0.320	0.41	1.15	610	227.39
26	1/0.404	0.41	1.25	610	142.79
24	1/0.511	0.41	1.35	610	89.39
22	1/0.643	0.41	1.50	610	54.30
20	1/0.813	0.41	1.65	610	33.90
18	1/1.024	0.41	1.85	610	21.40

UL1672 | Reinforced Hook-up Wire

PRODUCT DESCRIPTION

- Rated temperature: 105°C
- Rated voltage: 300V
- According to: UL Subject 758, UL1581, C22.2
- Solid or stranded, tinned or bare copper conductor
- PVC insulation
- PVC jacket
- Passes UL VW-1 & CSA FT1 vertical flame test
- Uniform insulation thickness of wire to ensure easy stripping and cutting
- For internal wiring of appliances

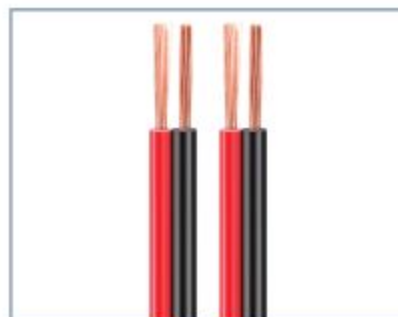


Conductor		Finished Products			Maximum Resistance at 20°C
AWG	No. of Cond No./mm	Insulation Thickness mm	Jacket Thickness mm	Packing m/r	
28	7/0.127	0.45	0.45	2.20	223.75
26	7/0.16	0.45	0.45	2.30	139.76
24	11/0.16	0.45	0.45	2.40	88.36
22	17/0.16	0.45	0.45	2.60	60.16
20	26/0.16	0.45	0.45	2.80	38.58
18	41/0.16	0.45	0.45	3.00	22.98
16	26/0.254	0.45	0.45	3.30	15.06
14	41/0.254	0.45	0.45	3.70	9.65
12	65/0.254	0.45	0.45	4.20	6.07
28	1/0.320	0.45	0.45	2.12	227.39
26	1/0.404	0.45	0.45	2.20	142.79
24	1/0.511	0.45	0.45	2.31	89.39
22	1/0.643	0.45	0.45	2.44	54.30
20	1/0.813	0.45	0.45	2.61	33.90
18	1/1.024	0.45	0.45	2.82	21.40

UL2468 | Flat Ribbon Wire

PRODUCT DESCRIPTION

- Rated temperature: 80°C
- Rated voltage: 300V
- According to: UL Subject 758, UL1581, C22.2
- Solid or stranded, tinned or bare copper conductor 32-16AWG
- PVC insulation
- Passes UL VW-1 & CSA FT1 vertical flame test
- Uniform insulation thickness of wire to ensure easy stripping and cutting
- For general purpose internal wiring of appliance

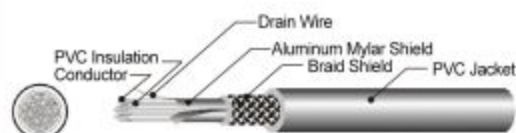


AWG/ NO.OFCOND	No. of Cond No./mm	Finished Products			Maximum Resistance at 20°C Ω/km
		Insulation Thickness mm	Outside Dia. mm	Packing m/r	
30×2C	7/0.1	0.45	1.20×2.50	610	354.33
28×2C	7/0.127	0.45	1.30×2.70	610	223.75
26×2C	7/0.16	0.45	1.40×2.90	610	139.76
24×2C	11/0.16	0.45	1.50×3.10	610	88.36
22×2C	17/0.16	0.45	1.70×3.50	610	60.16
20×2C	26/0.16	0.45	1.90×3.90	305	38.58
18×2C	41/0.16	0.45	2.10×4.30	305	22.98
16×2C	26/0.254	0.45	2.40×4.90	305	15.06

UL2464 | Double Shielded Computer Cable

PRODUCT DESCRIPTION

- Rated temperature: 80°C
- Rated voltage: 300V
- According to: UL Subject 758, UL1581, C22.2
- Stranded, tinned or bare copper conductor
- PVC insulation
- Cores cabled under AL-MYLAR shield
- Tinned or bare stranded copper drain wire
- Tinned or bare stranded copper wire overall more than 80% coverage braided shield
- PVC jacket
- Passes UL VW-1 & CSA FT1 vertical flame test
- Uniform insulation thickness of wire to ensure easy stripping and cutting
- Sound broadcasting, audio, instrumentation & computers

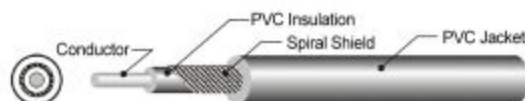


Conductor		Finished Products			
AWG/ NO.OFCOND	No. of Cond No./mm	Insulation Thickness mm	Braid shield m/n/d	Jacket Thickness mm	Outside Diameter Ø/km
24×2C	11/0.16	0.25	16/4/0.10	0.80	4.35
24×3C	11/0.16	0.25	16/4/0.10	0.80	4.50
24×4C	11/0.16	0.25	16/5/0.10	0.80	4.80
24×5C	11/0.16	0.25	16/6/0.10	0.80	5.10
24×6C	11/0.16	0.25	16/6/0.10	0.80	5.45
24×7C	11/0.16	0.25	16/6/0.10	0.80	5.50
22×2C	17/0.16	0.25	16/5/0.10	0.80	4.75
22×3C	17/0.16	0.25	16/6/0.10	0.80	4.95
22×4C	17/0.16	0.25	16/6/0.10	0.80	5.30
22×5C	17/0.16	0.25	16/7/0.10	0.80	5.65
22×6C	17/0.16	0.25	16/8/0.10	0.80	6.05
22×7C	17/0.16	0.25	16/8/0.10	0.80	6.10

UL1185 | Single Conductor Shielded Wire

PRODUCT DESCRIPTION

- Rated temperature: 80°C
- Rated voltage: 300V
- According to: UL Subject 758, UL1581, C22.2
- Solid or stranded, tinned or bare copper conductor
- PVC insulation
- Tinned or bare stranded copper spiral shield
- PVC jacket
- Passes UL VW-1 & CSA FT1 vertical flame test
- Uniform insulation thickness of wire to ensure easy stripping and cutting
- Sound broadcast, audio, instrumentation & computers

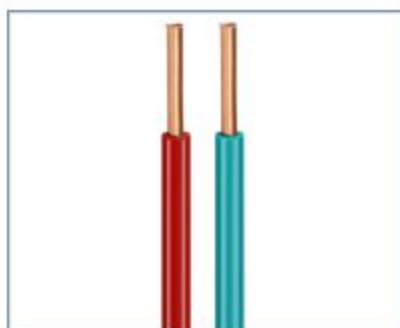


Conductor		Finished Products			
AWG/ NO.OFCOND	No. of Cond No./mm	Insulation Thickness mm	Braid shield m/n/d	Jacket Thickness mm	Outside Diameter mm
30	7/0.1	0.41	32/0.10	0.40	2.10
28	7/0.127	0.41	34/0.10	0.40	2.20
26	7/0.16	0.41	37/0.10	0.40	2.30
24	11/0.16	0.41	40/0.10	0.40	2.40
22	17/0.16	0.41	45/0.10	0.40	2.60
20	26/0.16	0.41	50/0.10	0.40	2.80
18	41/0.16	0.41	58/0.10	0.40	3.10
16	26/0.254	0.41	66/0.10	0.40	3.40
28	1/0.320	0.41	33/0.10	0.40	2.15
26	1/0.404	0.41	36/0.10	0.40	2.25
24	1/0.511	0.41	38/0.10	0.40	2.35
22	1/0.643	0.41	42/0.10	0.40	2.50
20	1/0.813	0.41	46/0.10	0.40	2.65
18	1/1.024	0.41	51/0.10	0.40	2.85

UL10368 | Halogen Free Crosslinked Wire

PRODUCT DESCRIPTION

- Rated temperature: 105°C
- Rated voltage: 300V
- According to: UL Subject 758, UL1581, C22.2
- Solid or stranded, tinned or bare copper conductor 40-10AWG
- XLPE insulation
- Passes UL VW-1 & CSA FT1 vertical flame test
- Uniform insulation thickness of wire to ensure easy stripping and cutting
- For general purpose internal wiring of appliances

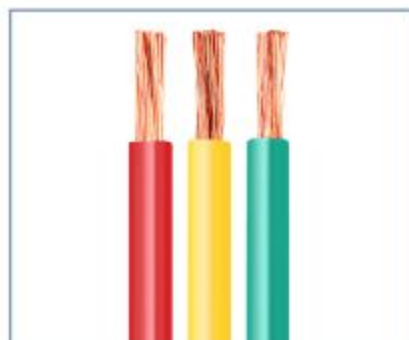
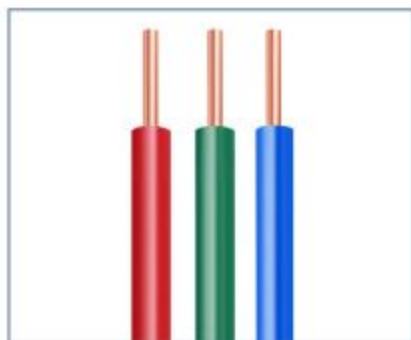


Conductor		Finished Products			Maximum Resistance at 20°C
AWG	No. of Cond No./mm	Insulation Thickness mm	Outside Diameter mm	Packing m/r	
30	7/0.1	0.25	0.80	1220	354.33
28	7/0.127	0.25	0.90	1220	223.75
26	7/0.16	0.25	1.00	1220	139.76
24	11/0.16	0.25	1.10	1220	88.36
22	17/0.16	0.25	1.30	610	60.16
20	26/0.16	0.25	1.50	610	38.58
18	41/0.16	0.25	1.70	610	22.98
16	26/0.254	0.25	2.00	610	15.06
28	1/0.320	0.25	0.85	1220	227.39
26	1/0.404	0.25	0.95	1220	142.79
24	1/0.511	0.25	1.05	1220	89.39
22	1/0.643	0.25	1.15	1220	54.30
20	1/0.813	0.25	1.35	610	33.90
18	1/1.024	0.25	1.55	610	21.40

UL3385 | Halogen Free Crosslinked Wire

PRODUCT DESCRIPTION

- Rated temperature: 105°C
- Rated voltage: 300V
- According to: UL Subject 758, UL1581, C22.2
- Solid or stranded, tinned or bare copper conductor 32-16AWG
- XLPE insulation
- Passes UL VW-1 & CSA FT1 vertical flame test
- Uniform insulation thickness of wire to ensure easy stripping and cutting
- For general purpose internal wiring of appliances



Conductor		Finished Products			Maximum Resistance at 20°C
AWG	No. of Cond No./mm	Insulation Thickness mm	Outside Diameter mm	Packing m/r	
30	7/0.1	0.41	1.10	610	354.33
28	7/0.127	0.41	1.20	610	223.75
26	7/0.16	0.41	1.30	610	139.76
24	11/0.16	0.41	1.40	610	88.36
22	17/0.16	0.41	1.60	610	60.16
20	26/0.16	0.41	1.80	610	38.58
18	41/0.16	0.41	2.10	610	22.98
16	26/0.254	0.41	2.40	610	15.06
28	1/0.320	0.41	1.15	610	227.39
26	1/0.404	0.41	1.25	610	142.79
24	1/0.511	0.41	1.35	610	89.39
22	1/0.643	0.41	1.50	610	54.30
20	1/0.813	0.41	1.65	610	33.90
18	1/1.024	0.41	1.85	610	21.40

UL3266 | Halogen Free Crosslinked Wire

PRODUCT DESCRIPTION

- Rated temperature: 125°C
- Rated voltage: 300V
- According to: UL Subject 758, UL1581, C22.2
- Solid or stranded, tinned or bare copper conductor 32-10AWG
- XLPE insulation
- Passes UL VW-1 & CSA FT1 vertical flame test
- Uniform insulation thickness of wire to ensure easy stripping and cutting
- For general purpose internal wiring of appliances



Conductor		Finished Product			Maximum Resistance at 20°C
AWG	No. of Cond No./mm	Insulation Thickness mm	Outside Diameter mm	Packing m/r	
30	7/0.1	0.41	1.10	610	354.33
28	7/0.127	0.41	1.20	610	223.75
26	7/0.16	0.41	1.30	610	139.76
24	11/0.16	0.41	1.40	610	88.36
22	17/0.16	0.41	1.60	610	60.16
20	26/0.16	0.41	1.80	610	38.58
18	41/0.16	0.41	2.10	610	22.98
16	26/0.254	0.41	2.40	610	15.06
28	1/0.320	0.41	1.15	610	227.39
26	1/0.404	0.41	1.25	610	142.79
24	1/0.511	0.41	1.35	610	89.39
22	1/0.643	0.41	1.50	610	54.30
20	1/0.813	0.41	1.65	610	33.90
18	1/1.024	0.41	1.85	610	21.40

UL3302 | Halogen Free Crosslinked Wire

PRODUCT DESCRIPTION

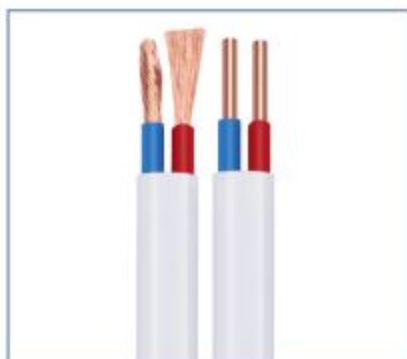
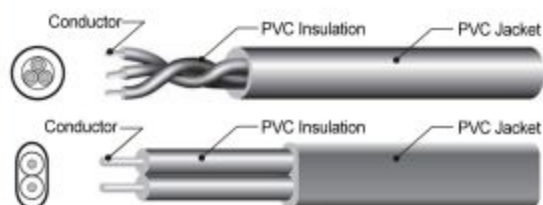
- Rated temperature: 105°C
- Rated voltage: 30V
- According to: UL Subject 758, UL1581, C22.2
- Solid or stranded, tinned or bare copper conductor
- XLPE insulation
- Passes UL VW-1 & CSA FT1 vertical flame test
- Uniform insulation thickness of wire to ensure easy stripping and cutting
- For general purpose internal wiring of appliances



Conductor		Finished Product			Maximum Resistance at 20°C
AWG	No. of Cond No./mm	Insulation Thickness mm	Outside Diameter mm	Packing m/r	
30	7/0.1	0.16	0.56	1220	354.33
28	7/0.127	0.24	0.81	1220	223.75
26	7/0.16	0.30	1.10	610	139.76

H05VVH2-F/H05VV-F | PVC Flexible Power Cords**PRODUCT DESCRIPTION**

- Rated temperature: 70°C
- Rated voltage: 300/500V
- Reference standard: DIN VDE 0281
- Stranded bare copper conductor 0.75~1.5mm²
- PVC insulation ,comply with ROHS environmental standard
- PVC jacket ,comply with ROHS environmental standard
- Passes HD 405.1 flame test
- Uniform insulation thickness to ensure easy stripping and cutting
- For general purpose use for power supply cord

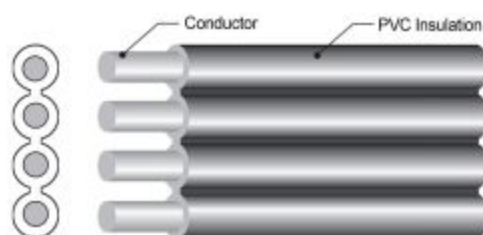


Style	Conductor		Finished Products			
	Cross Section	No.of Cond	Insulation Thickness	Jacket Thickness	O.D.	Maximum Resistance at 20°C
	mm ²	No./mm	mm	mm	mm	Ω/km
H05VVH2-F	0.75X2C	24/0.20	0.61	0.80	3.95X6.30	26.0
	1X2C	32/0.20	0.60	0.80	4.10X6.60	19.5
H05VV-F	0.75X2C 0.75X3C	24/0.20	0.61	0.80	6.30	26.0
			0.60	0.82	6.70	
	1X2C 1X3C	32/0.20	0.60	0.80	6.60	19.5
			0.60	0.86	7.10	
	1.5X2C 1.5X3C	30/0.25	0.61	0.80	7.60	13.3
			0.61	0.92	8.30	

UL2651 | Flat Ribbon Wire

PRODUCT DESCRIPTION

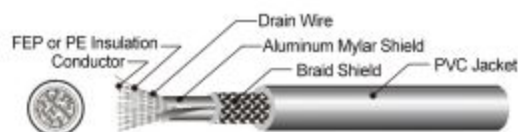
- Rated temperature: 105°C
- Rated voltage: 300V
- According to: UL Subject 758, UL 1581, C22.2
- Stranded bare copper conductor 0.5-0.75mm²
- Solid or standard, tinned or bare copper conductor 36-14AWG
- PVC insulation
- Passes UL VW-1 & CSA FT1 vertical flame test
- Uniform insulation thickness of wire to ensure easy stripping and cutting
- For general purpose internal wiring of appliance



Pitch mm	Conductor					Maximum Resistance at 20°C Ω/km
	Cores	Size	No. of Cond	Insulation Thickness	Outside Diameter	
	No.	awg	No./mm	mm	mm	
1.27	3	26	7/0.16	0.26	1.0x3.81	139.76
	4		7/0.16	0.26	1.0x5.08	
	5		7/0.16	0.26	1.0x6.35	
1.27	3	28	7/0.16	0.26	0.92x3.81	223.75
	4		7/0.16	0.26	0.92x5.08	
	5		7/0.16	0.26	0.92x6.35	

UL 20276 | 36-30AWG Mini HDMI USB3.0 Cable**PRODUCT DESCRIPTION**

- Rated temperature:80°C
- Rated voltage:30V
- Reference standard: UL Subject 758,UL1581,USB3.0 specification
- Stranded bare or tinned copper conductor
- FEP or Foam PE insulation
- Shielded with Al-Myar and braiding
- Lead-free PVC or Frpe jacket
- Flammability grade: UL VW-1 & CSAFT1 vertical flame tested



Conductor			Finished Product			
AWG	No. of Cond	No./mm	Insulated Thickness	Braid shield	Jacket Thickness	Outside Diameter
	No./mm	mm	mm	m/n/d	mm	mm
36	2P	7/0.05	0.10	16/8/0.06	0.51	3.30
	1P	7/0.08	0.11			
	2C	7/0.127	0.12			
34	2P	7/0.06	0.13	16/8/0.06	0.51	3.60
	1P	7/0.08	0.11			
	2C	7/0.127	0.12			
32	2P	7/0.08	0.18	16/8/0.08	0.51	4.10
	1P	7/0.08	0.11			
	2C	7/0.127	0.12			
30	2P	7/0.10	0.21	16/8/0.10	0.51	4.50
	1P	7/0.10	0.12			
	2C	7/0.127	0.12			

AEX | Japanese Automobile Wire**PRODUCT DESCRIPTION**

- Rated temperature: 120°C
- According to JASO D 608-92
- Stranded, tinned or bare copper conductor 0.5-8mm²
- Cross linked polyethylene insulated
- Uniform insulation thickness of wire to ensure easy stripping and cutting
- Resistant to oil, ozone and abrasion
- Internal wiring in automobile where high flexibility thermo and mechanical strength are required

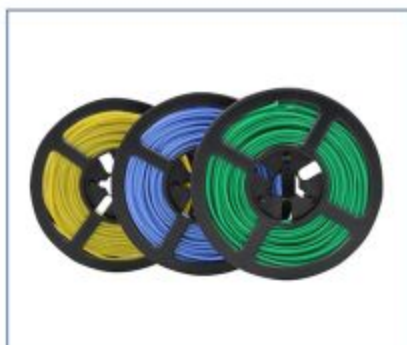


Conductor		Finished Products			Maximum Resistance at 20°C
Cross Sectional Area	No. of Cond	Insulation Thickness	Outside Diameter	Weight	
mm ²	No./mm	mm	mm	kg/km	Ω/km
0.5F	20/0.18	0.5	2.0	8.52	38.6
0.5	7/0.32	0.5	2.0	8.93	34.6
0.75F	30/0.18	0.5	2.2	11.43	25.8
0.85	11/0.32	0.5	2.2	12.35	22.0
1.25F	50/0.18	0.6	2.7	18.14	15.5
1.25	16/0.32	0.6	2.7	18.25	15.1
2	26/0.32	0.6	3.1	27.06	9.3
3	41/0.32	0.7	3.8	41.84	5.9
5	65/0.32	0.8	4.6	64.32	3.72
8	50/0.45	0.8	5.3	93.07	2.45

Note: The "F" in the table indicates that the conductor is a soft structure.

AVX | Japanese Automobile Wire**PRODUCT DESCRIPTION**

- Rated temperature: 100°C
- According to JASO D 608-92
- Stranded, tinned or bare copper conductor
0.5-8mm²
- Cross linked polyvinyl chloride insulated
- Uniform insulation thickness of wire to ensure easy stripping and cutting
- Resistant to oil, ozone and abrasion
- Internal wiring in automobile where high flexibility thermo and mechanical strength are required



Conductor		Finished Products			Maximum Resistance at 20°C
Cross Sectional Area	No. of Cond	Insulation Thickness	Outside Diameter	Weight	
mm ²	No./mm	mm	mm	kg/km	Ω/km
0.5F	20/0.18	0.5	2.0	8.52	36.7
0.5	7/0.32	0.5	2.0	8.93	32.7
0.75F	30/0.18	0.5	2.2	11.43	24.4
0.85	11/0.32	0.5	2.2	12.35	20.8
1.25F	50/0.18	0.6	2.7	18.14	14.7
1.25	16/0.32	0.6	2.7	18.25	14.3
2	26/0.32	0.6	3.1	27.06	8.81
3	41/0.32	0.7	3.8	41.84	5.59
5	65/0.32	0.8	4.6	64.32	3.52
8	50/0.45	0.8	5.3	93.07	2.32

Note: The "F" in the table indicates that the conductor is a soft structure.

AVS | Japanese Automobile Wire**PRODUCT DESCRIPTION**

- Rated temperature: 70°C
- According to JASO D 611-94
- Stranded, tinned or bare copper conductor
- PVC insulation
- Uniform insulation thickness of wire to ensure easy stripping and cutting
- Resistant to oil and abrasion
- Internal wiring in automobile where high flexibility thermo and mechanical strength are required



Conductor		Finished Product			Maximum Resistance at 20°C
Cross Sectional Area	No. of Cond	Insulation Thickness	Outside Diameter	Weight	
mm ²	No./mm	mm	mm	kg/km	Ω/km
0.3	7/0.26	0.5	1.8	6.59	50.20
0.5	7/0.32	0.5	2.0	8.93	32.70
0.85	16/0.26	0.5	2.2	12.08	22.00
0.85	11/0.32	0.5	2.2	12.35	20.80
1.25	16/0.32	0.5	2.5	17.04	14.30
2	26/0.32	0.5	2.9	25.66	8.81
3	41/0.32	0.6	3.6	40.12	5.59
5	65/0.32	0.7	4.4	62.22	3.52
0.3F	15/0.18	0.5	1.8	6.67	48.90
0.5F	20/0.18	0.5	2.0	8.52	36.70
0.75F	30/0.18	0.5	2.2	11.43	24.40
1.25F	50/0.18	0.5	2.5	16.93	14.70
2F	37/0.26	0.5	2.9	24.7	9.50

Note: The "F" in the table indicates that the conductor is a soft structure.

AVSS | Japanese Automobile Wire**PRODUCT DESCRIPTION**

- Rated temperature: 70°C
- According to JASO D 611-94
- Stranded, tinned or bare copper conductor
- PVC insulation
- Uniform insulation thickness of wire to ensure easy stripping and cutting
- Resistant to oil and abrasion
- Internal wiring in automobile where high flexibility thermo and mechanical strength are required



Conductor		Finished Product			Maximum Resistance at 20°C
Cross Sectional Area	No. of Cond	Insulation Thickness	Outside Diameter	Weight	
mm ²	No./mm	mm	mm	kg/km	Ω/km
0.3	7/0.26	0.3	1.4	5.1	50.20
0.5	7/0.32	0.3	1.6	7.25	32.70
0.85	19/0.24	0.3	1.8	10.3	21.70
0.85	7/0.4	0.3	1.8	10.45	20.80
1.25	19/0.29	0.3	2.1	14.66	14.90
2	19/0.37	0.4	2.7	24.0	9.00
0.3F	19/0.16	0.3	1.4	5.18	48.80
0.5F	19/0.19	0.3	1.6	7.07	34.60
0.75F	19/0.23	0.3	1.8	9.76	23.60
1.25F	37/0.21	0.3	2.1	14.86	14.60
2F	37/0.26	0.4	2.6	22.78	9.50

Note: The "F" in the table indicates that the conductor is a soft structure.

FLRY-A | German Automobile Wire**PRODUCT DESCRIPTION**

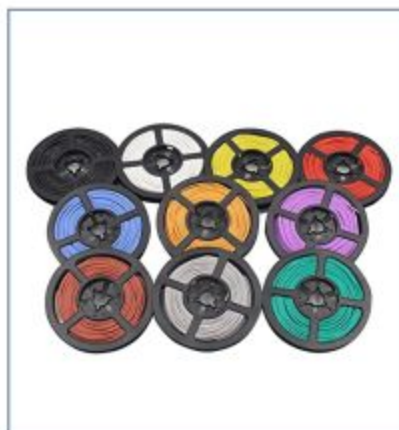
- Rated temperature: 90°C
- According to DIN72551-6/1996
- Concentric stranded, tinned or bare copper conductor
- PVC insulation
- Uniform insulation thickness of wire to ensure easy stripping and cutting
- Resistant to oil, heat and abrasion
- Internal wiring in automobile where high flexibility thermo and mechanical strength are required



Conductor		Finished Products			Maximum Resistance at 20°C
Cross Sectional Area	No. of Cond	Insulation Thickness	Outside Diameter	Weight	
mm ²	No./mm	mm	mm	kg/km	Ω/km
0.22	7/0.21	0.3	1.20	3.52	84.80
0.35	7/0.26	0.3	1.30	4.79	52.00
0.5	19/0.19	0.3	1.60	7.07	37.21
0.75	19/0.23	0.3	1.90	10.19	24.70
1	19/0.26	0.4	2.10	12.79	18.50
1.5	19/0.32	0.4	2.40	18.31	12.70

FLRY-B | German Automobile Wire**PRODUCT DESCRIPTION**

- Rated temperature: 90°C
- According to DIN72551-6/1996
- Bunch stranded, tinned or bare copper conductor
- PVC insulation
- Uniform insulation thickness of wire to ensure easy stripping and cutting
- Resistant to oil, heat and abrasion
- Inter al wiring in automobile where high flexibility thermo and mechanical strength are required



Conductor		Finished Product			Maximum Resistance at 20°C
Cross Sectional Area	No. of Cond	Insulation Thickness	Outside Diameter	Weight	
mm ²	No./mm	mm	mm	kg/km	Ω/km
0.35	12/0.20	0.3	1.40	5.44	52.00
0.5	16/0.20	0.3	1.60	7.19	37.10
0.75	24/0.20	0.3	1.90	10.51	24.70
1	32/0.20	0.4	2.10	13.55	18.50
1.5	30/0.25	0.4	2.40	18.8	12.70
2.5	50/0.25	0.4	3.00	30.63	7.60
4	56/0.30	0.5	3.70	48.03	4.70

Conductor Gauge Reference Table

Size of Conductor AWG	Diameter of Solid Conductor				Cross-Sectional Area of Stranded Conductor			
	Nominal		Minimum		Nominal		Minimum	
	Mils	mm	Mils	mm	Cmils	mm2	Cmils	mm2
4/0	460.0	11.68	455	11.56	211600	107.2	207368	105.1
3/0	409.6	10.40	406	10.31	167800	85.01	164444	83.31
2/0	364.8	9.226	361	9.17	133100	67.43	130438	66.08
1/0	324.9	8.252	322	8.18	105600	53.49	103488	52.42
1	289.3	7.348	286	7.26	83690	42.41	82016	41.56
2	257.6	6.543	255	6.48	66360	33.62	65033	32.95
3	229.4	5.827	227	5.77	52620	26.67	51568	26.14
4	204.3	5.189	202	5.13	41740	21.15	40905	20.73
5	181.9	4.620	180	4.57	33090	16.77	32428	16.43
6	162.0	4.115	160	4.06	26240	13.30	25715	13.03
7	144.3	3.665	143	3.63	20820	10.55	20404	10.34
8	128.5	3.264	127	3.23	16510	8.367	16180	8.20
9	114.4	2.906	113	2.87	13090	6.631	12828	6.50
10	101.9	2.588	101	2.57	10380	5.261	10172	5.16
11	90.7	2.30	90	2.29	8230	4.17	8065	4.09
12	80.8	2.05	80	2.03	6530	3.31	6399	3.24
13	72.0	1.83	71	1.80	5180	2.63	5076	2.58
14	64.1	1.63	63.5	1.613	4110	2.08	4028	2.04
15	57.1	1.45	56.5	1.435	3260	1.65	3195	1.62
16	50.8	1.29	50.3	1.278	2580	1.31	2528	1.28
17	45.3	1.15	44.9	1.140	2050	1.04	2009	1.02
18	40.3	1.02	40.0	1.016	1620	0.823	1588	0.807
19	35.9	0.912	35.6	0.904	1290	0.653	1264	0.641
20	32.0	0.813	31.7	0.805	1020	0.519	1000	0.509
21	28.5	0.724	28.2	0.716	812	0.412	796	0.404
22	25.3	0.643	25.0	0.635	640	0.324	627	0.318
23	22.6	0.574	22.4	0.569	511	0.259	501	0.254
24	20.1	0.511	19.9	0.506	404	0.205	396	0.201
25	17.9	0.455	17.7	0.450	320	0.162	314	0.159
26	15.9	0.404	15.7	0.399	253	0.128	248	0.126
27	14.2	0.361	14.1	0.358	202	0.102	198	0.100
28	12.6	0.320	12.5	0.318	159	0.0804	156	0.0790
29	11.3	0.287	11.2	0.284	128	0.0647	125	0.0633
30	10.0	0.254	9.9	0.251	100	0.0507	98	0.0497
31	8.9	0.226	8.81	0.224	79.2	0.0401	77.6	0.0393
32	8.0	0.203	7.92	0.201	64.0	0.0324	62.7	0.0318
33	7.1	0.180	7.03	0.179	50.4	0.0255	49.4	0.0250
34	6.3	0.160	6.24	0.158	39.7	0.020	38.9	0.0197
35	5.6	0.142	5.54	0.141	31.4	0.0159	30.8	0.0156
36	5.0	0.127	4.95	0.126	25.0	0.0127	24.5	0.0124
37	4.5	0.114	4.46	0.113	20.2	0.0103	19.8	0.0100
38	4.0	0.102	3.96	0.101	16.0	0.00811	15.7	0.00796
39	3.5	0.089	3.47	0.088	12.2	0.00621	11.9	0.00603
40	3.1	0.079	3.07	0.078	9.61	0.00487	9.42	0.00477
41	2.8	0.071	2.77	0.070	7.84	0.00397	7.68	0.00389
42	2.5	0.064	2.48	0.063	6.25	0.00317	6.13	0.003115
43	2.2	0.056	2.18	0.055	4.84	0.00245	4.74	0.00240
44	2.0	0.051	1.98	0.050	4.00	0.00203	3.92	0.00198
45	1.76	0.0447	1.74	0.044	3.10	0.00157	3.04	0.00154
46	1.57	0.0399	1.55	0.039	2.46	0.00125	2.41	0.00122
47	1.40	0.0356	1.39	0.035	1.96	0.000993	1.92	0.000973
48	1.24	0.0315	1.23	0.031	1.54	0.000768	1.51	0.000765
49	1.11	0.0282	1.10	0.028	1.23	0.000624	1.21	0.000613
50	0.99	0.0251	0.98	0.025	0.980	0.000497	0.960	0.000486



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