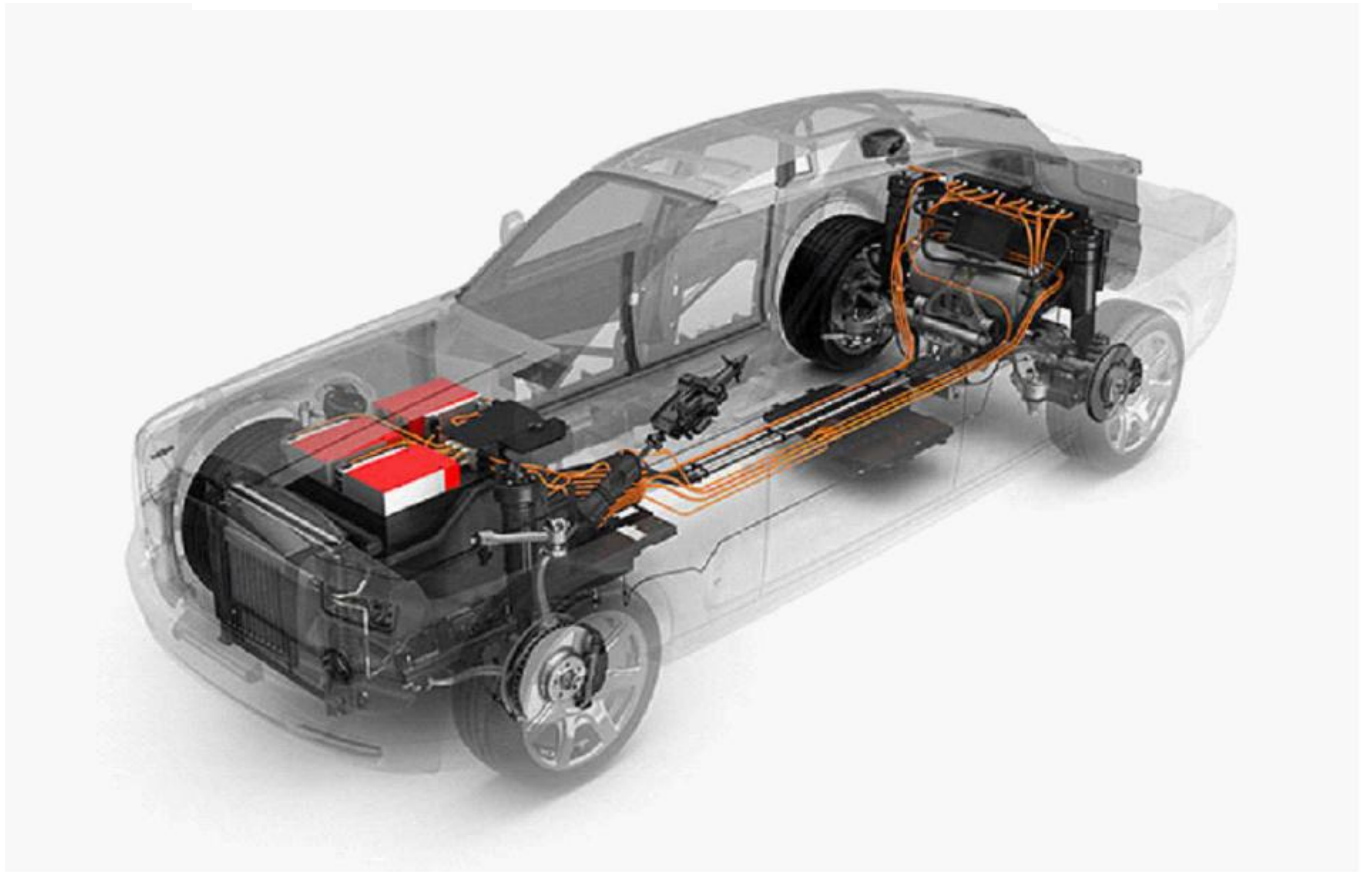




## PowerLink HV Cable



### POWERLINK HV CABLE

Amphenol PowerLink HV Cable are used in high temperature / oil / flame-resistance requirements condition. High voltage, flexible, electromagnetically shielded automotive cable for applications on EV, HEV, FCEV, Battery and Energy Storage wiring systems.

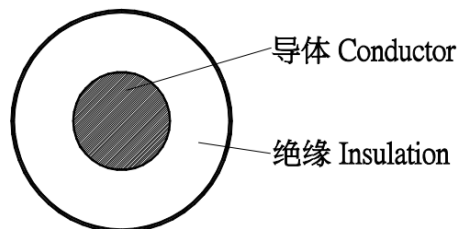
### KEY FEATURES

- Reliable to high-voltage & current conditions
- Flexible and easy to handle for harnessing
- Excellent EMC performance (only for PowerLink HV shielding cables)



## ● Descriptions:

- Product Name: PowerLink HV Cable
- Material : Conductor: Stranded bare copper  
Insulation: XLPE Orange
- RoHS and REACH Compliant
- Standard: ISO 6722 Class C 125°C



## • Features:

1. Reliable to high-voltage & current conditions
2. Flexible and easy to handle for harnessing
3. Range from 2.5mm<sup>2</sup> to 150mm<sup>2</sup>

- Application: EV, HEV, FCEV, Battery and Energy Storage

## ● Construction&Dimensions

成品料号 Part Number	导体截面积 Cross-section(mm <sup>2</sup> )	导体 Conductor		绝缘 Insulation			20°C时导体直 流电阻DC Resistance at 20°C	弯曲半径 Bending Radius
		导体结构 Conductor Construction	标称直径 Nominal Dia. (mm)	平均绝缘厚度 Insulation Av. Thickness(mm)	最小绝缘厚度 Insulation Min. Thickness(mm)	绝缘外径 Insulation Dia.(mm)		
AC-CP700020	2.5	217/0.12	2.10	0.60	0.44	3.30±0.20	7.600	≥3×OD
AC-CP700040	4	350/0.12	2.90	0.55	0.40	4.10±0.20	4.710	≥3×OD
AC-CP700060	6	525/0.12	3.60	0.60	0.44	4.80±0.20	3.140	≥3×OD
AC-CP700100	10	874/0.12	4.50	0.80	0.62	6.25±0.20	1.820	≥4×OD
AC-CP700160	16	1406/0.12	6.10	1.00	0.80	8.10±0.20	1.160	≥4×OD
AC-CP700250	25	2183/0.12	6.75	1.30	1.04	10.20±0.20	0.743	≥5×OD
AC-CP700350	35	3071/0.12	8.10	1.30	1.04	11.50±0.30	0.527	≥5×OD
AC-CP700500	50	4403/0.12	9.50	1.50	1.20	13.60±0.30	0.368	≥5×OD
AC-CP700700	70	3876/0.15	11.80	1.50	1.35	15.50±0.30	0.259	≥5×OD
AC-CP700950	95	5365/0.15	13.60	1.80	1.52	18.20±0.50	0.196	≥5×OD
AC-CP701200	120	6732/0.15	15.80	1.90	1.71	19.70±0.50	0.153	≥6×OD
AC-CP701350	135	7548/0.15	16.80	2.00	1.80	21.30±0.50	0.137	≥6×OD
AC-CP701500	150	8436/0.15	17.50	2.10	1.79	22.50±0.50	0.129	≥6×OD

## ● Characteristics

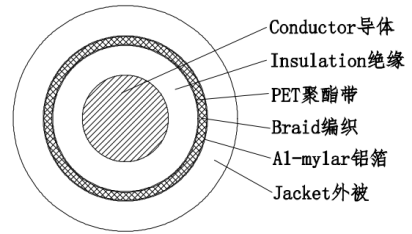
Item	Characteristics
Rated Voltage	1500V DC
Rated Temperature	-40°C to +125°C
Insulation Resistance Rate	≥1×10 <sup>9</sup> Ω.mm (ISO 6722 6.3)
Dielectric Strength	AC-6000V/15 MIN
Material Characteristic	Low Smoke, No halogen, Retardant
Flammability Test	ISO 6722
Low Temperature Test	-40°C*4H, No crack, No breakdown
Long-term Aging	125°C*3000H, No crack, No breakdown
Short-term Aging	150°C*240H, No crack, No breakdown
Thermal Overload Test	175°C*6H, No crack, No breakdown
Heat Shrink	150°C*15min, Maximal contraction≤2mm, Jacket Maximal contraction≤4mm
Printing Test	Indelibly clear
Ozone Test	Ozone conditions 192H, No breakdown

Oil Resistant Acid and Alkali Resistant



## ● Descriptions:

- Product Name: PowerLink HV Shielding Cable
- Material : Conductor: Stranded bare copper  
Insulation: XLPE Orange  
Mylar: PET  
Braiding shielding: Tinned annealed copper wire with al-mylar  
Jacket: XLPE Orange
- RoHS and REACH Compliant
- Standard: ISO 6722 Class C 125°C



## • Features:

1. Reliable to high-voltage & current conditions
2. Flexible and easy to handle for harnessing
3. Range from 2.5mm<sup>2</sup> to 150mm<sup>2</sup>
4. Excellent EMI, EMC noise reduction

- Application: EV, HEV, FCEV, Battery and Energy Storage

## ● Construction&Dimensions

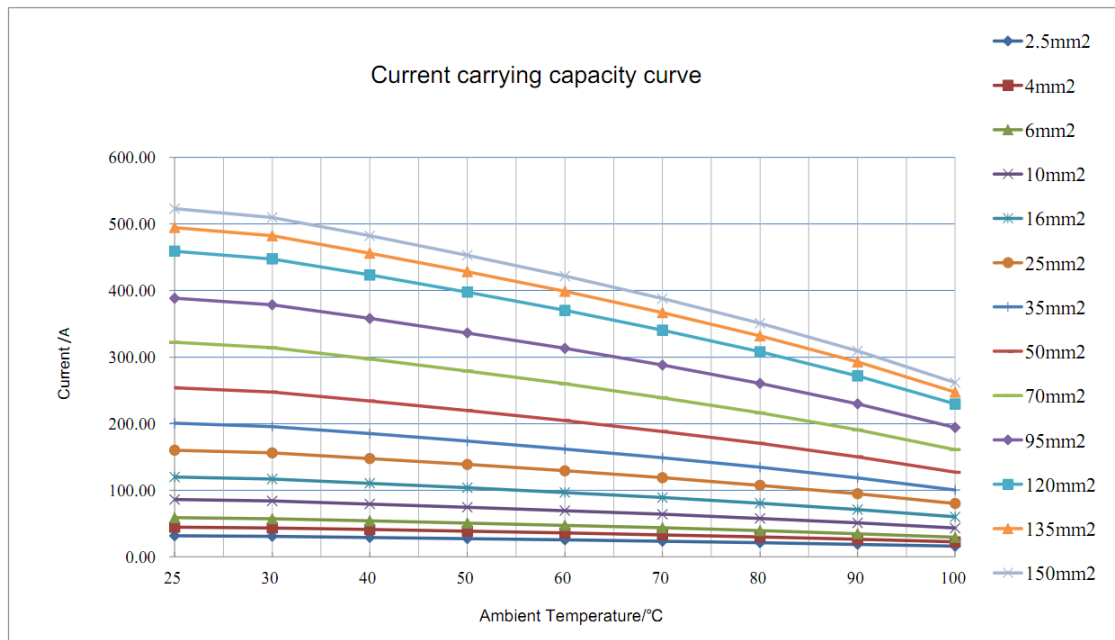
成品料号 Part Number	导体截面积 Cross-section(mm <sup>2</sup> )	导体 Conductor		绝缘 Insulation			编织 Braid	外被 Jacket		20°C时导体直流电阻DC Resistance at 20°C	弯曲半径 Bending Radius
		导体结构 Conductor Construction	标称直径 Nominal Dia. (mm)	平均绝缘厚度 Insulation Av. Thickness(mm)	最小绝缘厚度 Insulation Min. Thickness(mm)	绝缘外径 Insulation Dia.(mm)	屏蔽覆盖率 Shield Coverage	护套厚度Jacket Thickness(mm)	线缆外径 Nominal Outer Dia. (mm)		
AC-CP710020	2.5	217/0.12	2.10	0.60	0.44	3.30±0.20	80%	0.60	5.20±0.20	7.600	≥5×OD
AC-CP710040	4	350/0.12	2.90	0.55	0.40	4.10±0.20	80%	0.55	5.80±0.20	4.710	≥5×OD
AC-CP710060	6	525/0.12	3.60	0.60	0.44	4.80±0.20	80%	0.60	6.70±0.20	3.140	≥5×OD
AC-CP710100	10	874/0.12	4.50	0.80	0.62	6.25±0.20	80%	0.80	8.60±0.30	1.820	≥5×OD
AC-CP710160	16	1406/0.12	6.10	1.00	0.80	8.10±0.20	80%	1.20	11.20±0.30	1.160	≥5×OD
AC-CP710250	25	2183/0.12	6.75	1.30	1.04	10.20±0.20	80%	1.30	13.50±0.30	0.743	≥5×OD
AC-CP710350	35	3071/0.12	8.10	1.30	1.04	11.50±0.30	80%	1.20	14.50±0.50	0.527	≥5×OD
AC-CP710500	50	4403/0.12	9.50	1.50	1.20	13.60±0.30	80%	1.40	17.00±0.50	0.368	≥5×OD
AC-CP710700	70	3876/0.15	11.80	1.50	1.35	15.50±0.30	80%	1.50	19.50±0.50	0.259	≥5×OD
AC-CP710950	95	5365/0.15	13.60	1.80	1.52	18.20±0.50	80%	1.50	22.60±0.50	0.196	≥5×OD
AC-CP711200	120	6732/0.15	15.80	1.90	1.71	19.70±0.50	80%	1.50	23.50±0.50	0.153	≥6×OD
AC-CP711350	135	7548/0.15	16.80	2.00	1.80	21.30±0.50	80%	1.60	25.50±0.50	0.137	≥6×OD
AC-CP711500	150	8436/0.15	17.50	2.10	1.79	22.50±0.50	80%	1.60	27.10±0.50	0.129	≥6×OD

## ● Characteristics

Item	Characteristics
Rated Voltage	1500V DC
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Insulation Resistance Rate	≥1×10 <sup>9</sup> Ω.mm (ISO 6722 6.3)
Dielectric Strength	AC-6000V/15 MIN
Material Characteristic	Low Smoke, No halogen, Retardant
Flammability Test	ISO 6722
Low Temperature Test	-40°C*4H, No crack, No breakdown
Long-term Aging	125°C*3000H, No crack, No breakdown
Short-term Aging	150°C*240H, No crack, No breakdown
Thermal Overload Test	175°C*6H, No crack, No breakdown
Heat Shrink	150°C*15min, Maximal contraction≤2mm, Jacket Maximal contraction≤4mm
Printing Test	Indelibly clear
Ozone Test	Ozone conditions 192H, No breakdown

Oil Resistant Acid and Alkali Resistant

- PowerLink Cable characteristics Temperature VS. Current



- Working temperature for continuous current carriage(-40°C~+125°C)
- Above data is current carrying capacity recommended

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