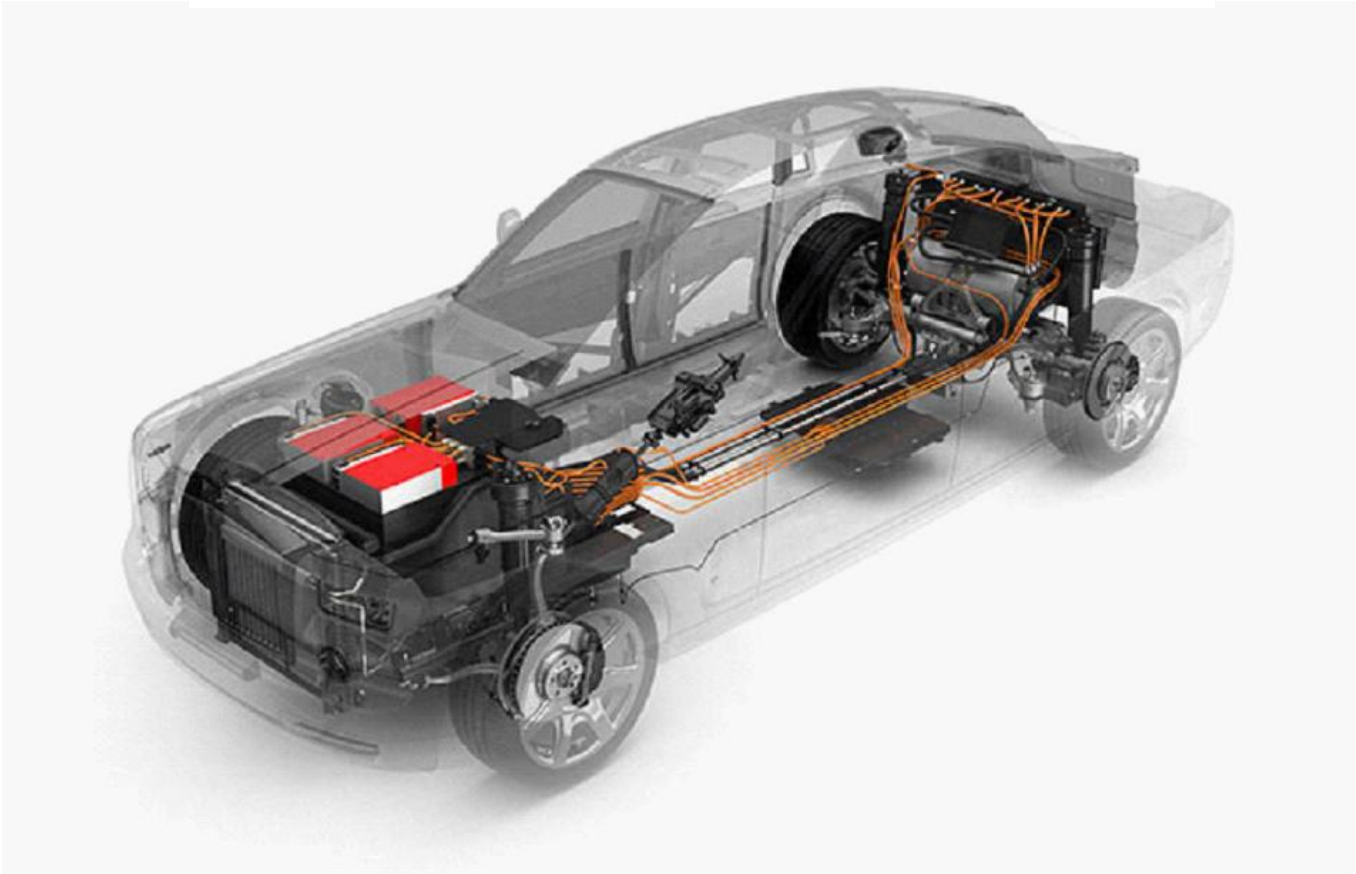




PowerLink HV Cable



POWERLINK HV CABLE

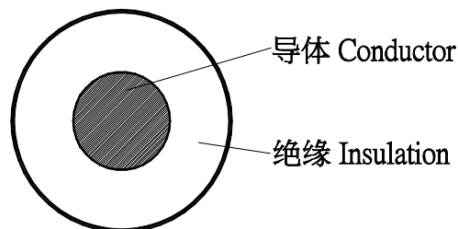
Amphenol PowerLink HV Cable are used in high temperature / oil / flame-resistance requirements condition. High voltage, flexible, electromagnetically shielded automotive cable for applications on EV, HEV, FCEV, Battery and Energy Storage wiring systems.

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 2.5mm² to 150mm²
- Application: EV, HEV, FCEV, Battery and Energy Storage



● Construction&Dimensions

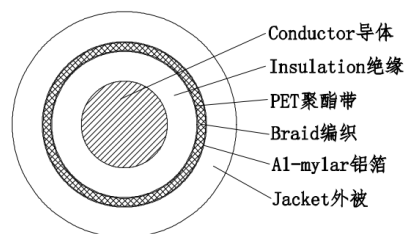
成品料号 Part Number	导体截面积 Cross-section(mm²)	导体 Conductor		绝缘 Insulation			20°C时导体直 流电阻DC Resistance at 20°C	弯曲半径 Bending Radius
		导体结构 Conductor Construction	标称直径 Nominal Dia. (mm)	平均绝缘厚度 Insulation Av. Thickness(mm)	最小绝缘厚度 Insulation Min. Thickness(mm)	绝缘外径 Insulation Dia.(mm)		
AC-CP700020	2.5	217/0.12	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 ⁹ 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 contractions≤2mm, Jacket Maximal contractions≤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:
 - Reliable to high-voltage & current conditions
 - Flexible and easy to handle for harnessing
 - Range from 2.5mm² to 150mm²
 - Excellent EMI, EMC noise reduction



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

● Construction&Dimensions

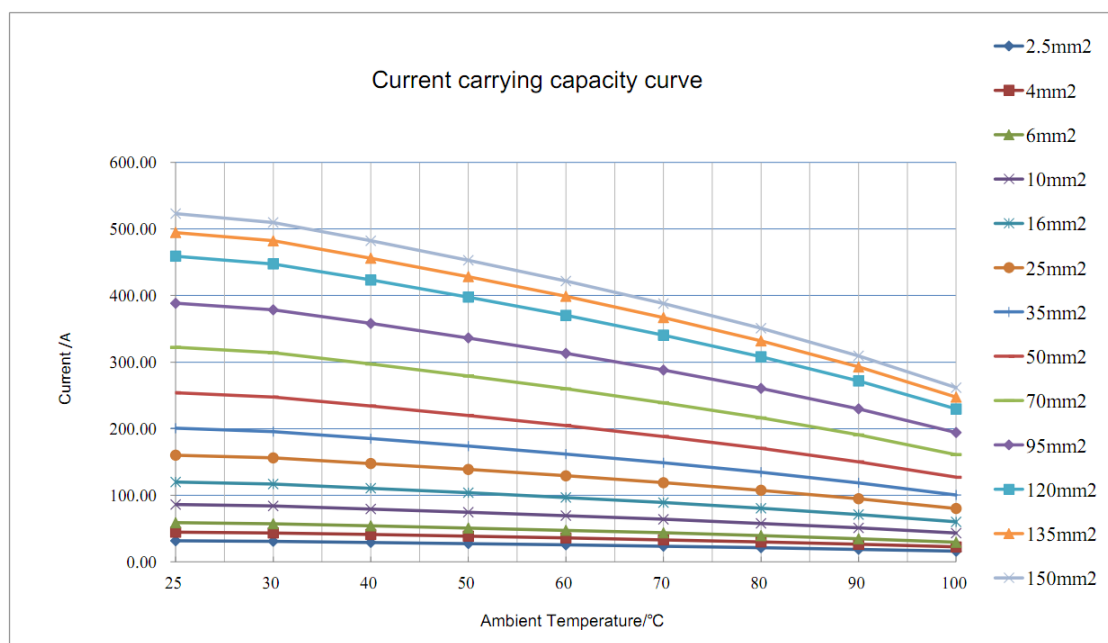
成品料号 Part Number	导体截面积 Cross-section(mm ²)	导体 Conductor		绝缘 Insulation			编织 Braid	外被 Jacket		20°C时导体直流电阻DC Resistance at 20°C	弯曲半径 Bending Radius
		导体结构 Conductor Construction	标称直径 Nominal Dia. (mm)	平均绝缘厚度 Insulation Av. Thickness(mm)	最小绝缘厚度 Insulation Min. Thickness(mm)	绝缘外径 Insulation Dia.(mm)		护套厚度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
Rated Temperature	-40°C to +125°C
Insulation Resistance Rate	≥1×10 ⁹ Ω.mm (ISO 6722 6.3)
Dielectric Strength	AC-6000V/15 MIN
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Thermal Overload Test	175°C*6H, No crack, No breakdown
Heat Shrink	150°C*15min, Maximal contractions≤2mm, Jacket Maximal contractions≤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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