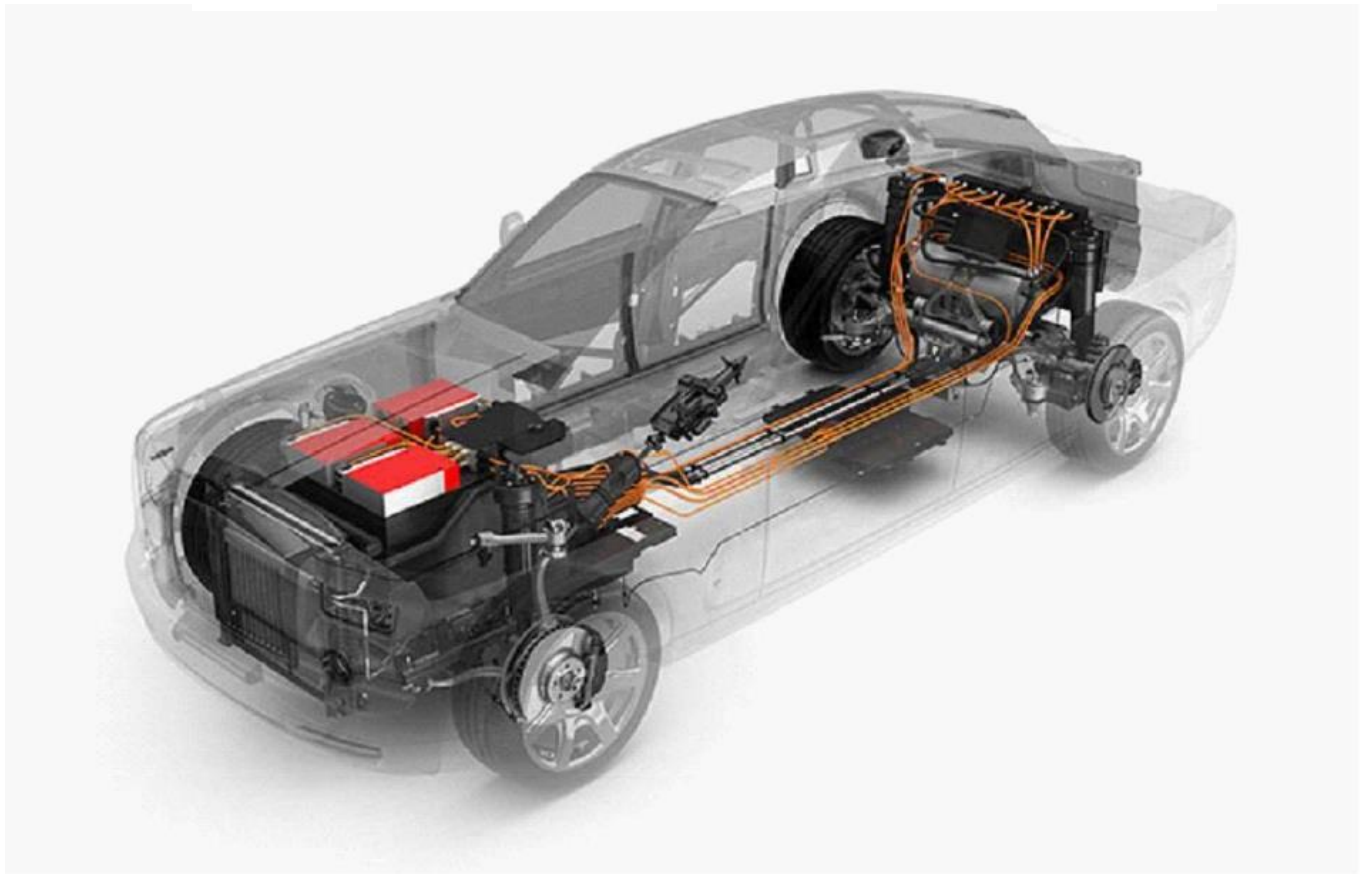




## PowerLink HV Cable



**POWERLINK HV CABLE**

**KEY FEATURES**

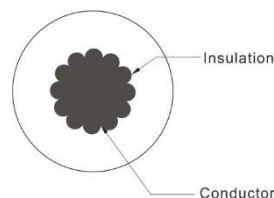
Amphenol PowerLink HV Cable are used in high temperature / oil / flame-resistance requirements condition. High voltage, flexible, electromagnetically shielded automotive cable for applications on EV, HEV, FCEV, Battery and Energy Storage wiring systems.

- 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> )	导体结构 Conductor Structure	导体直径 Conductor Diameter(mm)	平均绝缘厚度 Insulation Av. Thickness(mm)	最小绝缘厚度	绝缘外径	屏蔽覆盖率	护套厚度Jacket Thickness(mm)	线缆外径	20°C时导体直流电阻DC Resistance at 20°C	弯曲半径 Bending Radius
					Insulation Min. Thickness(mm)	Dia of Insulation(mm)	Shield Coverage		Nominal Outer Dia(mm)		
AC-CP700020	2.5	217/0.12	2.10	0.60	0.44	N/A	N/A	N/A	3.30±0.20	7.600	≥3X0D
AC-CP700040	4	350/0.12	2.90	0.55	0.40	N/A	N/A	N/A	4.10±0.20	4.710	≥3X0D
AC-CP700060	6	525/0.12	3.60	0.60	0.44	N/A	N/A	N/A	4.80±0.20	3.140	≥3X0D
AC-CP700100	10	874/0.12	4.50	0.80	0.62	N/A	N/A	N/A	6.25±0.20	1.820	≥4X0D
AC-CP700160	16	1406/0.12	6.10	1.00	0.80	N/A	N/A	N/A	8.10±0.20	1.160	≥4X0D
AC-CP700250	25	2183/0.12	6.75	1.30	1.04	N/A	N/A	N/A	10.20±0.20	0.743	≥5X0D
AC-CP700350	35	3071/0.12	8.10	1.30	1.04	N/A	N/A	N/A	11.50±0.20	0.527	≥5X0D
AC-CP700500	50	4403/0.12	9.50	1.50	1.20	N/A	N/A	N/A	13.60±0.20	0.368	≥5X0D
AC-CP700700	70	3876/0.15	11.80	1.50	1.35	N/A	N/A	N/A	15.50±0.20	0.259	≥5X0D
AC-CP700950	95	5365/0.15	13.60	1.80	1.52	N/A	N/A	N/A	18.20±0.50	0.196	≥5X0D
AC-CP701200	120	6732/0.15	15.80	1.90	1.71	N/A	N/A	N/A	19.70±0.50	0.153	≥6X0D
AC-CP701350	135	7548/0.15	16.80	2.00	1.80	N/A	N/A	N/A	21.30±0.50	0.137	≥6X0D
AC-CP701500	150	8436/0.15	17.50	2.10	1.79	N/A	N/A	N/A	22.50±0.50	0.129	≥6X0D

## ● Characteristics

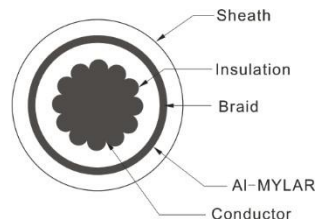
Item	Characteristics
Rating Voltage	1500V DC
Conductor Resistance(Max.) Ω/km@20°C	7.600Ω/km (2.5mm <sup>2</sup> )/ 0.527Ω/km(35mm <sup>2</sup> )
	4.710Ω/km (4mm <sup>2</sup> )/ 0.368Ω/km(50mm <sup>2</sup> )
	3.140Ω/km (6mm <sup>2</sup> )/ 0.259Ω/km(70mm <sup>2</sup> )
	1.820Ω/km (10mm <sup>2</sup> )/ 0.196Ω/km(95mm <sup>2</sup> )
	1.160Ω/km (16mm <sup>2</sup> )/ 0.153Ω/km(120mm <sup>2</sup> )
	0.743Ω/km (25mm <sup>2</sup> )/ 0.137Ω/km(135mm <sup>2</sup> )
Temperature Rating	-40°C to +125°C
Flame Test	VW-1
Withstand Voltage	6000V/5min
Oil Resistant Acid and Alkali Resistant	

# PowerLink HV Cable



## ● 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



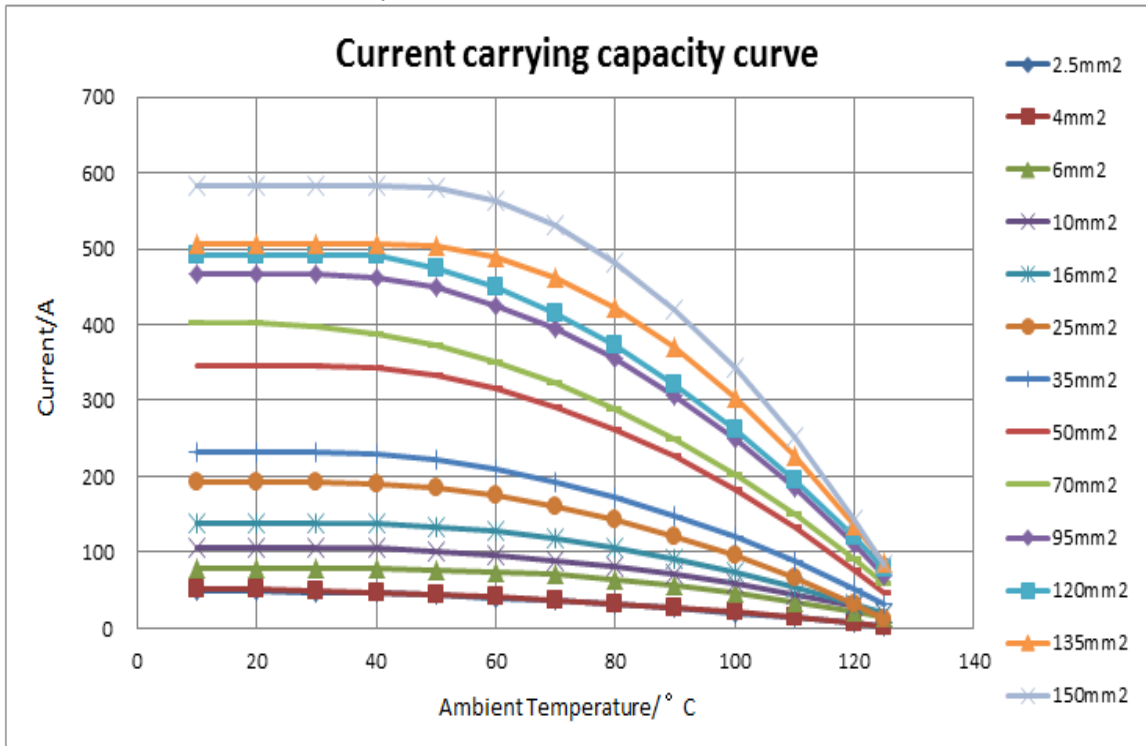
## ● Construction&Dimensions

成品料号 Part Number	导体截面积 Cross-section(mm <sup>2</sup> )	导体结构 Conductor Structure	导体直径 Conductor Diameter(mm)	平均绝缘厚度 Insulation Av. Thickness(mm)	最小绝缘厚度	绝缘外径	屏蔽覆盖率	护套厚度Jacket Thickness(mm)	线缆外径	20°C时导体直流电阻DC Resistance at 20°C	弯曲半径
					Insulation Min. Thickness(mm)	Dia of Insulation(mm)	Shield Coverage		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	≥5X0D
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	≥5X0D
AC-CP710060	6	525/0.12	3.60	0.60	0.44	4.80±0.20	80%	0.60	6.70±0.30	3.140	≥5X0D
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	≥5X0D
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	≥5X0D
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	≥5X0D
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	≥5X0D
AC-CP710500	50	4403/0.12	9.50	1.50	1.20	13.60±0.30	80%	1.40	17.0±0.50	0.368	≥5X0D
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	≥5X0D
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	≥5X0D
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	≥6X0D
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	≥6X0D
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	≥6X0D

## ● Characteristics

Item	Characteristics
Rating Voltage	1500V DC
Conductor Resistance(Max.) Ω/km@20°C	7.600Ω/km (2.5mm <sup>2</sup> )/ 0.527Ω/km(35mm <sup>2</sup> )
	4.710Ω/km 4mm <sup>2</sup> / 0.368Ω/km(50mm <sup>2</sup> )
	3.140Ω/km 6mm <sup>2</sup> / 0.259Ω/km(70mm <sup>2</sup> )
	1.820Ω/km (10mm <sup>2</sup> )/ 0.196Ω/km(95mm <sup>2</sup> )
	1.160Ω/km (16mm <sup>2</sup> )/ 0.153Ω/km(120mm <sup>2</sup> )
	0.743Ω/km (25mm <sup>2</sup> )/ 0.129Ω/km(150mm <sup>2</sup> )
Temperature Rating	-40°C to +125°C
Flame Test	VW-1
Withstand Voltage	6000V/5min
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

### Asia Pacific

ChangZhou, China  
 Tel: +86 519-8981 9713  
 Add: No.11 Fengxiang Road, New District, Changzhou, Jiangsu  
 P.C: 213001

### Asia Pacific

GuangZhou, China Tel:  
 +86 20-3210 6099  
 Add: 9th Floor, No. 10, the 4th Street, Kehui Jingu, Huangpu District, Guangzhou ,Guangdong  
 P.C: 510663

### North America

Winnipeg, Canada  
 Tel: +1 204 697 2222  
 Add: 2110 Notre Dame Avenue

### North America

Nogales, Mexico  
 Tel: +52(55) 5258 9984  
 Add: 482 Mariposa Road Building A, 85621

Email: [info@Amphenol-GEC.com](mailto:info@Amphenol-GEC.com)