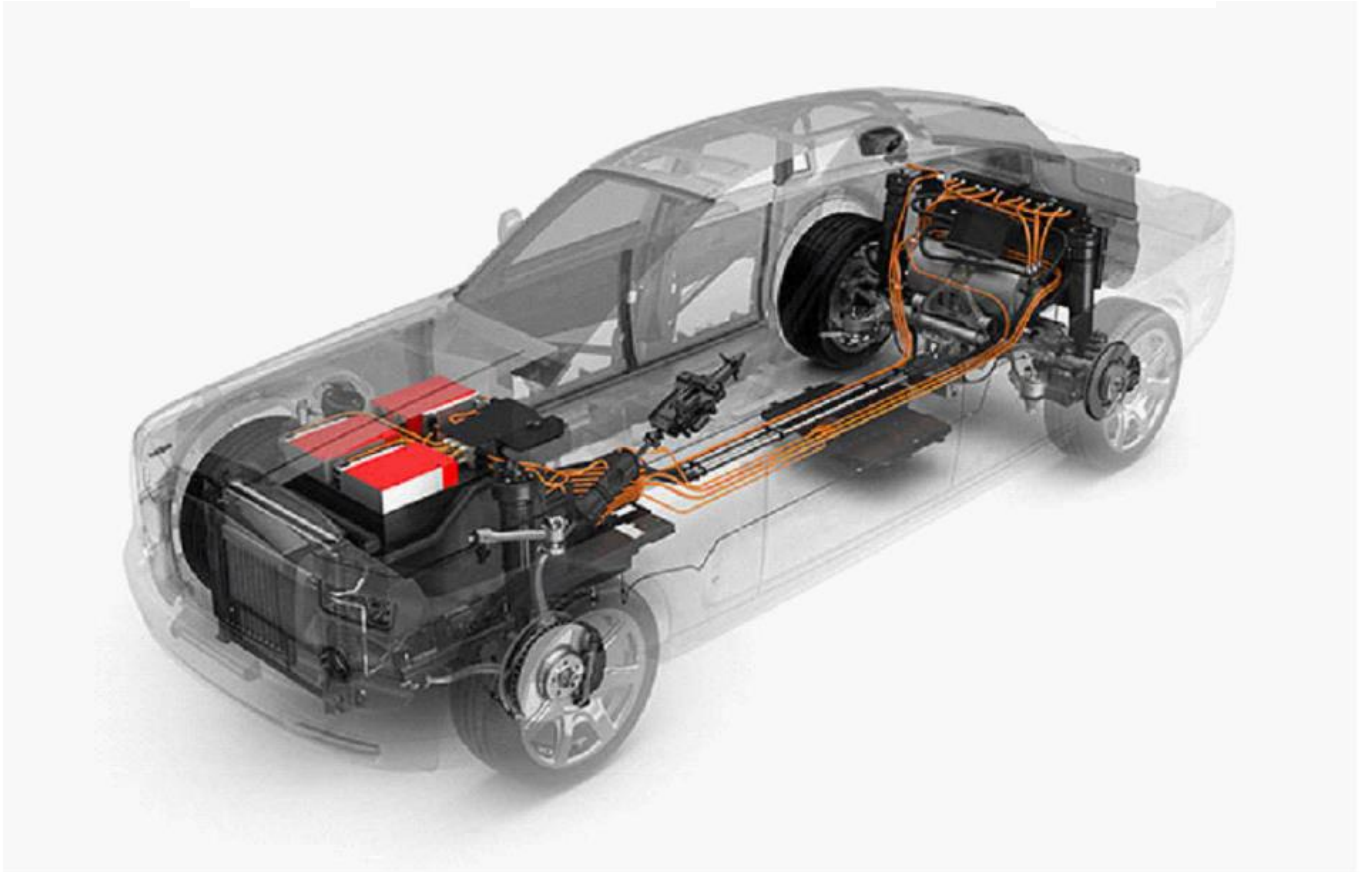




PowerLink HV Cable



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.

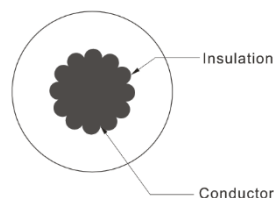
KEY FEATURES

- 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(mm ²)	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-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	0.60	0.44	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	4.65	0.80	0.62	N/A	N/A	N/A	6.25+0.20	1.820	≥3X0D
AC-CP700160	16	1406/0.12	6.10	1.00	0.80	N/A	N/A	N/A	8.10+0.20	1.160	≥3X0D
AC-CP700250	25	2183/0.12	6.70	1.30	1.17	N/A	N/A	N/A	10.20+0.20	0.743	≥5X0D
AC-CP700350	35	3071/0.12	8.10	1.30	1.17	N/A	N/A	N/A	11.50+0.20	0.527	≥5X0D
AC-CP700500	50	4403/0.12	9.50	1.50	1.35	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	14.60	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	18.30	2.10	1.79	N/A	N/A	N/A	22.50+0.50	0.129	≥6X0D

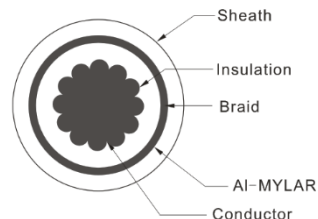
● Characteristics

Item	Characteristics
Rating Voltage	1500V DC
Conductor Resistance(Max.) Ω/km @20°C	7.600Ω/km (2.5mm ²)/ 0.527Ω/km(35mm ²)
	4.710Ω/km (4mm ²)/ 0.368Ω/km(50mm ²)
	2.890Ω/km (6mm ²)/ 0.259Ω/km(70mm ²)
	1.820Ω/km (10mm ²)/ 0.196Ω/km(95mm ²)
	1.160Ω/km (16mm ²)/ 0.153Ω/km(120mm ²)
	0.743Ω/km (25mm ²)/ 0.129Ω/km(135mm ²)
Temperature Rating	-40°C to +125°C
Flame Test	VW-1
Withstand Voltage	6000V/5min
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 2.5mm² to 150mm²
 4. Excellent EMI, EMC noise reduction
- Application: EV, HEV, FCEV, Battery and Energy Storage

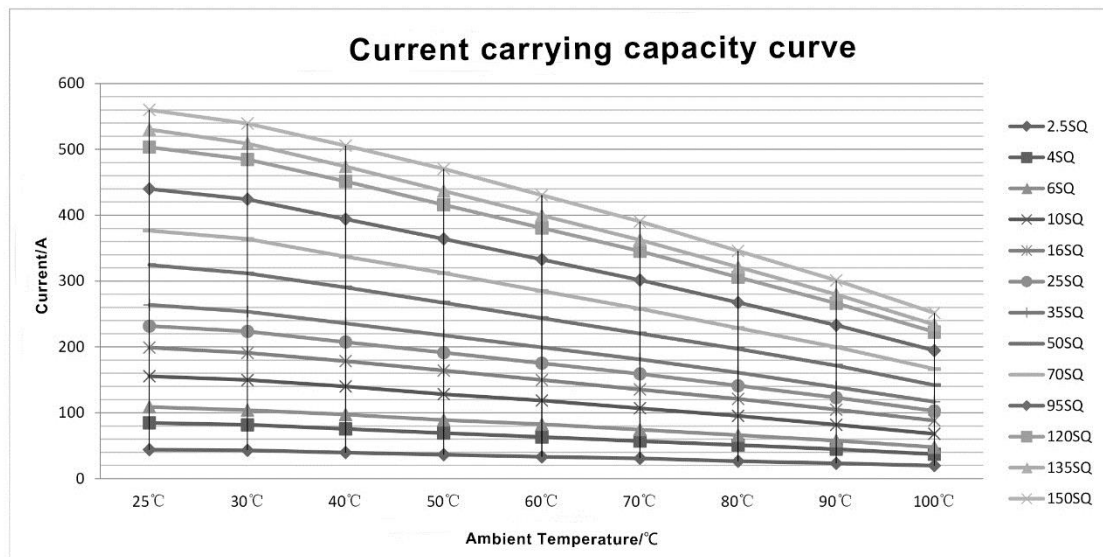
● Construction&Dimensions

成品料号 Part Number	导体截面积 Cross-section(mm ²)	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	≥4XOD
AC-CP710040	4	350/0.12	2.90	0.60	0.44	4.10+0.20	80%	0.60	5.80+0.20	4.710	≥4XOD
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	≥4XOD
AC-CP710100	10	874/0.12	4.65	0.80	0.62	6.25+0.20	80%	0.80	8.60+0.30	1.820	≥4XOD
AC-CP710160	16	1406/0.12	6.10	1.00	0.80	8.10+0.20	80%	1.30	11.20+0.30	1.160	≥4XOD
AC-CP710250	25	2183/0.12	6.70	1.30	1.04	10.20+0.20	80%	1.30	13.50+0.30	0.743	≥5XOD
AC-CP710350	35	3071/0.12	8.10	1.30	1.04	11.50+0.30	80%	1.30	14.50+0.50	0.527	≥5XOD
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	≥5XOD
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	≥5XOD
AC-CP710950	95	5365/0.15	14.60	1.80	1.52	18.20+0.50	80%	1.50	22.60+0.50	0.196	≥5XOD
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	≥6XOD
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	≥6XOD
AC-CP711500	150	8436/0.15	18.30	2.10	1.79	22.50+0.50	80%	1.60	27.10+0.50	0.129	≥6XOD

● Characteristics

Item	Characteristics
Rating Voltage	1500V DC
Conductor Resistance(Max.) Ω/km@20°C	7.600Ω/km (2.5mm ²)/ 0.527Ω/km(35mm ²)
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	2.890Ω/km 6mm ² / 0.259Ω/km(70mm ²)
	1.820Ω/km (10mm ²)/ 0.196Ω/km(95mm ²)
	1.160Ω/km (16mm ²)/ 0.153Ω/km(120mm ²)
	0.743Ω/km (25mm ²)/ 0.129Ω/km(150mm ²)
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

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