



# PowerLink™ HV USA Shielded High Voltage Flexible Power Cable



## Performance & Design Benefits:

- Proudly made in the USA
- Tested to ISO 19642
- Rated Voltage Max 1000VAC and Max 1500VDC
- Operating Temperature of -40°C to +150°C
- 90% braid coverage minimum for excellent EMC Shielding
- Flexible design for improved cable assembly routing
- Durable and resistant to flame, liquids, chemicals, ozone, UV, water and abrasion
- Validated with Amphenol PowerLok G1 & G2 connectors, -5 Kits/Configurations
- Cable is designed for consistent, easy stripping and processing
- PPAP available on request
- RoHS and REACH Compliant
- Special constructions and customization options available

## Applications include:

- Transportation-EV, HEV and NEV
- On and Off-Highway Vehicles
- Industrial and Heavy Equipment
- Battery and Energy Storage
- Data Centers

## Wiring examples include:

- Battery Pack to PDU
- PDU to Charger
- PDU to MCU
- MCU to Motor
- E-axle and E-motor

## PowerLink HV USA Shielded Cable Construction:

- Stranded Bare Copper Conductor
- XLPO Cross-Linked Polyolefin Orange Insulation, 150°C
- Tinned Copper Braid Shield, 90% braid coverage minimum
- Solution set includes Shielded HV cable sizes ranging from 2.5mm<sup>2</sup> to 150mm<sup>2</sup>



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## PowerLink HV USA Shielded Design Data:

Part Number	Conductor				Insulation		Braid	Sheath				Cable	
	Size (mm <sup>2</sup> )	Construction (mm)	Diameter Max (mm)	Max DC Resistance (Ω/km)	Insulation Thickness (mm)	Insulation Diameter (mm)	Diameter Max (mm)	Jacket Thickness (mm)	Jacket Diameter (mm)	Jacket Diameter Min (mm)	Jacket Diameter Max (mm)	Copper Weight (kg/km)	Total Weight (kg/km)
TFC-HV-2.5S-OR	2.5	50/0.25	2.00	7.60	0.43	2.85	3.30	0.86	5.00	4.80	5.20	31.04	48.96
TFC-HV-04S-OR	4	56/0.29	2.52	4.71	0.53	3.55	4.00	0.91	5.80	5.60	6.00	46.61	70.36
TFC-HV-06S-OR	6	85/0.29	3.09	3.14	0.53	4.15	4.70	1.02	6.60	6.30	6.90	65.63	95.57
TFC-HV-08S-OR	8	60/0.41	3.77	2.33	0.69	5.05	5.60	1.07	7.60	7.30	7.90	90.33	129.90
TFC-HV-10S-OR	10	78/0.41	4.30	1.82	0.73	5.75	6.30	1.05	8.40	8.10	8.70	116.08	165.18
TFC-HV-16S-OR	16	126/0.41	5.40	1.11	0.81	6.90	7.50	1.14	9.70	9.40	10.00	184.25	243.92
TFC-HV-25S-OR	25	189/0.41	6.70	0.743	0.75	8.20	8.90	1.15	11.20	10.90	11.50	272.33	348.23
TFC-HV-35S-OR	35	273/0.41	7.90	0.527	0.99	9.70	10.59	1.14	12.70	12.40	13.00	370.60	466.70
TFC-HV-50S-OR	50	385/0.41	9.37	0.368	1.17	11.48	12.75	1.24	14.99	14.69	15.19	533.2	662.80
TFC-HV-70S-OR	70	361/0.51	11.58	0.259	1.27	13.72	14.78	1.27	17.04	16.74	17.30	737.6	904.50
TFC-HV-95S-OR	95	480/0.51	13.74	0.196	1.52	16.03	17.30	1.47	19.99	19.69	20.29	970.1	1191.60
TFC-HV-120S-OR	120	589/0.51	15.29	0.154	1.19	17.88	19.30	1.85	22.63	22.23	23.04	1203.2	1473.30
TFC-HV-150S-OR	150	741/0.51	17.02	0.122	1.65	20.00	21.26	1.96	24.89	24.59	25.20	1498.0	1838.60

PowerLink™ HV USA power cables are in stock & available from our partner:

Amphenol TPI: <https://www.tpil.com/product/powerlink-hv-usa>