

**Performance & Design Benefits:**

- Proudly made in the USA
- Tested to ISO 19642-5 & ISO 19642-9 (former ISO 6722 & ISO 14572)
- Rated Voltage Max 1000VAC and Max 1500VDC
- Operating Temperature of -40C to +150C ISO 6722 Class D
- 90% braid coverage minimum for excellent EMC Shielding
- Flexible design for improved cable assembly routing
- RoHS & REACH Compliant
- Durable and resistant to flame & liquids/chemicals, ozone & UV, water & abrasion
- Designed for Amphenol PowerLok G1 & G2 connectors, -5 Kits/Configurations
- Cable is designed for consistent, easy stripping & processing
- PPAP available on request
- Special constructions and customization options available

Applications include:

- EV, HEV, FC EV
- On & Off-Highway Vehicles
- Heavy Duty/Industrial Equipment
- Battery & Energy Storage
- Data Centers

Wiring examples include:

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

HV Shielded Cable Construction:

- Stranded Bare Copper Conductor
- Cross-Linked Polyolefin Orange Insulation, 150C
- Tinned Copper Braid Shield
- Cross Linked Polyolefin Orange Jacket, 150C
- Solution set includes the HV Shielded cable sizes ranging from 35mm² to 150mm²

Cable Ordering Information

Part Number	Description
TFC-HV-35S-OR TFC-HV-50S-OR TFC-HV-70S-OR TFC-HV-95S-OR TFC-HV-120S-OR TFC-HV-150S-OR	SHIELDED HV CABLE 150C, XLPO ORANGE REEL

Component	Parameter	Units	35mm ²		50mm ²		70mm ²		95mm ²		120mm ²		150mm ²		
Conductor	Strand #	---		273		385		361		480		589		741	
	Strand Diameter	in	mm	0.0157	0.4	0.0157	0.4	0.0197	0.5	0.0197	0.5	0.0197	0.5	0.0197	0.5
	Diameter	in	mm	0.311	7.90	0.372	9.45	0.461	11.71	0.525	13.34	0.59	14.99	0.669	17.00
	DCR _{max}	Ω/kft	Ω/km	0.112	0.368	0.109	0.368	0.079	0.259	0.06	0.96	0.047	0.154	0.037	0.122
Insulation	Wall Thickness	in	mm	0.035	0.90	0.038	0.97	0.04	1.02	0.053	1.35	0.055	1.4	0.059	1.50
	Diameter	in	mm	0.382	9.70	0.452	11.48	0.54	13.72	0.631	16.03	0.704	17.88	0.787	20.00
Braid	Diameter	in	mm	0.409	10.4	0.492	12.50	0.58	14.73	0.671	17.04	0.744	18.9	0.839	21.30
Sheath	Wall Thickness	in	mm	0.045	1.14	0.049	1.24	0.049	1.24	0.058	1.47	0.073	1.85	0.071	1.80
	Diameter	in	mm	0.500	12.70	0.59	14.99	0.677	17.20	0.787	19.99	0.891	22.63	0.980	24.90
Cable	Copper Weight	lb/ft	kg/m	0.2490	0.3706	0.3583	0.5332	0.4957	0.7376	0.6487	0.9654	0.7998	1.1902	1.0127	1.5071
	Total Weight	lb/ft	kg/m	0.3136	0.4667	0.4431	0.6594	0.5965	0.8877	0.8007	1.1916	0.9982	1.4855	1.2355	1.8386

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

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