

HVA-XL™ 150 °C FLEXIBLE POWER CABLES



Designed for flexibility and long life, *HVA-XL™* cables are ideal for use in Automotive, Military, and Industrial applications. By utilizing an irradiated cross-linked polyolefin insulation, *HVA-XL™* cables are able to withstand temperatures up to 240 °C and remain resistant to typical automotive fluids.

In addition to being flexible, *HVA-XL™* cables are smaller and lighter than other traditional battery cables. This combination of characteristics provides you with the ability to route *HVA-XL™* cables in places where others fail.

Typical Characteristics

Temperature Range: -70C to +150C
 Voltage Rating: 600 Volts (SAE J 1654)
 Flame Resistance: Self-Extinguishing

Part Number	Conductor Size	Bare Copper Stranding	Conductor OD	Insulated OD	Current Capacity	Cable Weight
HVAXL4/0B-xx	4/0 AWG	2107/30	.602" nom.	.712" nom.	529	756 #/kft
HVAXL3/0B-xx	3/0 AWG	1568/30	.520" nom.	.640" nom.	451	515 #/kft
HVAXL2/0B-xx	2/0 AWG	1254/30	.438" nom.	.548" nom.	390	441 #/kft
HVAXL1/0B-xx	1/0 AWG	1007/30	.390" nom.	.490" nom.	339	349 #/kft
HVAXL01B-xx	1 AWG	779/30	.346" nom.	.440" nom.	293	275 #/kft
HVAXL02B-xx	2 AWG	665/30	.318" nom.	.393" nom.	255	235 #/kft
HVAXL04B-xx	4 AWG	413/30	.242" nom.	.302" nom.	190	146 #/kft
HVAXL06B-xx	6 AWG	259/30	.195" nom.	.252" nom.	155	94 #/kft
HVAXL08B-xx	8 AWG	168/30	.166" nom.	.224" nom.	106	62 #/kft
HVAXL10B-xx	10 AWG	105/30	.112" nom.	.156" nom.	80	38 #/kft

Applications

Battery Cable
 Starters / Alternators / Inverters
 AC / DC Power Distribution
 Grounding Cable
 Alternative Energy Projects
 On- or Off-road Applications
 Agriculture Equipment
 Construction Equipment
 Communication Trailers
 Emergency Equipment
 ATV & Multi-Purpose Vehicles

Available Colors

-WE White -BE Blue
 -BK Black -BN Brown
 -RD Red -OE Orange
 -GN Green -GY Gray
 -YW Yellow -VT Violet

Notes

- To order the appropriate color, replace the -xx in the cable part number with the available color code in the adjacent table.
- Please contact Orion Wire for more information regarding SAE Testing.

Fluid	Specification	Test Temp	SAE J 1127 Requirement	HVA-XL Typical Results
Engine Oil	ASTM D471, IRM-902	50 +/- 3°C	15% Max	1.6%
Gasoline	ASTM D471 Ref. Fuel C	23 +/- 5°C	15% Max	<1%
Brake Fluid	SAE J 1703	50 +/- 5°C	None	<1%
Ethanol	85% Ethanol + 15% Gasoline	23 +/- 5°C	15% Max	<1%
Diesel Fuel	ASTM D471, 90% IRM-903 + 10% p-xylene	23 +/- 5°C	15% Max	1.8%
Power Steering	ASTM D471, IRM-903	50 +/- 3°C	30% Max	1.2%
Auto Transmission	Citgo #33123 SAE J 311	50 +/- 3°C	25% Max	5.3%
Methanol			25% Max	<1%
Engine Coolant	50% Ethylene Glycol + 50% Distilled Water	50 +/- 3°C	15% Max	0%
Battery Acid	H ₂ SO ₄ Specific Gravity: 1.260 +/- .005	23 +/- 5°C	5% Max	<1%

From a phone call, a penciled sketch or a completed drawing, we have the ability to work with you to find the optimal solution for your unique application.