

AFLAS® High Voltage Cable High Performance at Reduced Weight

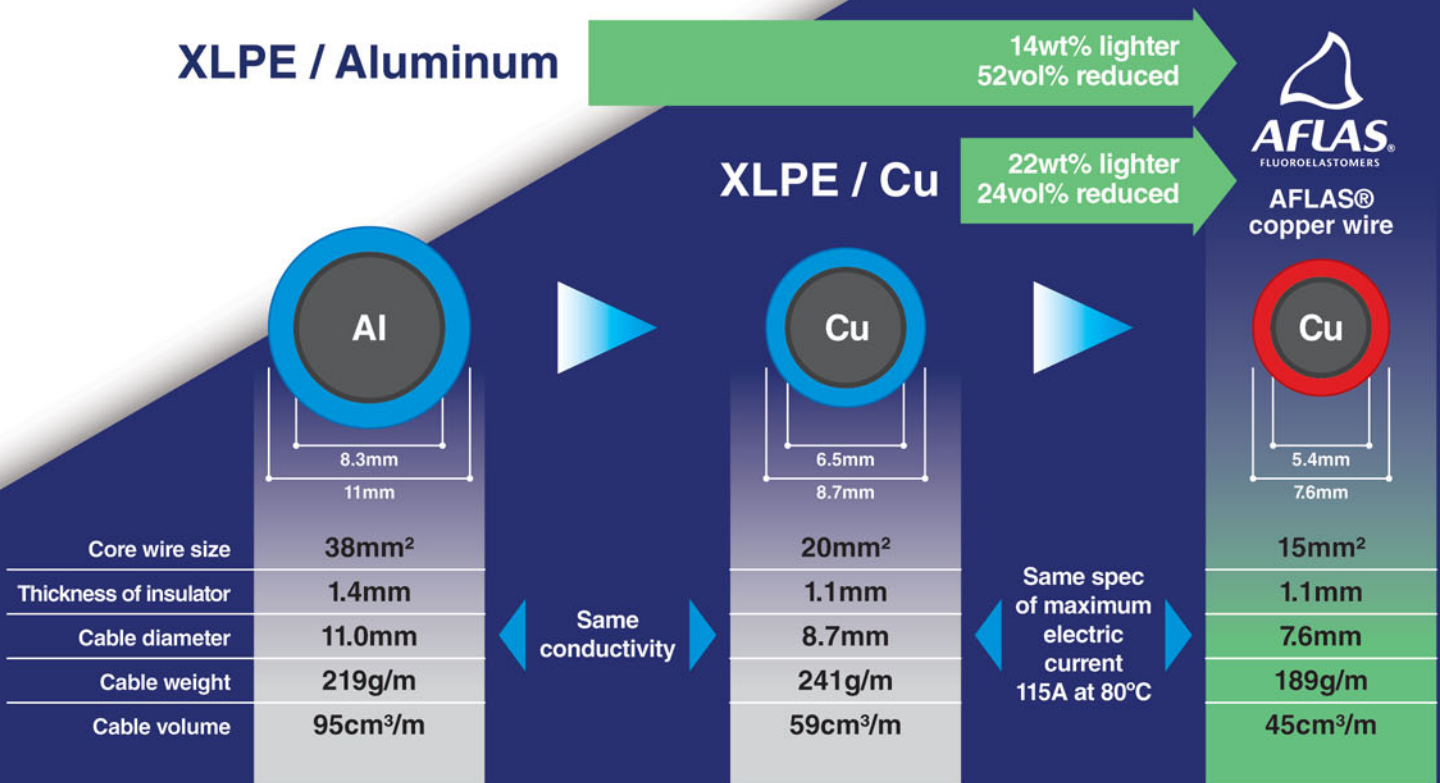


Lightweight cable constructions with sustained performance have become a necessity in the automotive industry. AFLAS® is a durable, flexible, high temperature (200°C) electrical insulation rubber material that allows for thinner wire insulation at equivalent performance levels. Ideal for HEV/EV high voltage cable.

Technology

- Non-flammable
- Vibration resistance
- Superior chemical resistance
- Service temperature at 200°C vs. XL-PE at 150°C
- Exceptional flexibility over XL-PE which is stiff
- No fillers necessary vs. XL-PE containing MgOH2

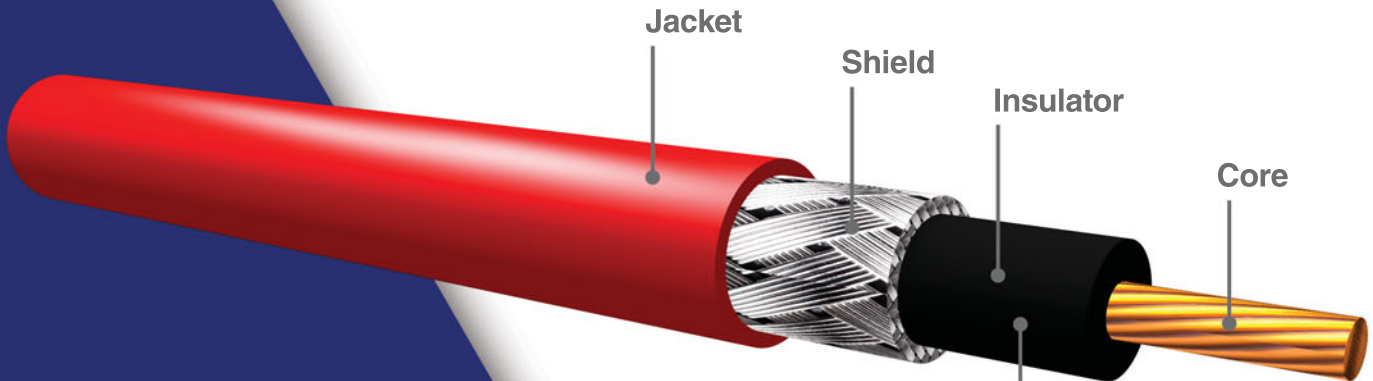
Weight Reduction Concept: Cable Comparison



AFLAS® Performance Data Compared to Other Material Constructions

	AFLAS	Other Fluoroelastomers	Silicone Rubber	Crosslink Poly Ethylene
	FEPM	FKM	Q	XL-PE as compound
Specific Gravity	1.55	1.8	1.2 example as compound	1.3 example as compound
Dielectric Breakdown (kV/mm)	23	20	25	35
Volume Resistivity ($\Omega \cdot \text{cm}$)	10^{16}	10^{13}	10^{16}	10^{16}
Dielectric Constant (1kHz)	2.8	17	3-4	2.3
Flexibility	Excellent	Excellent	Excellent	Applicable
Flame Resistance	Excellent	Excellent	Good	Applicable (with fillers)
Heat Resistance (Maximum operating temp)	200°C	200°C	180°C	150°C
Oil Resistance	Excellent	Excellent	Not Recommended	Good
Hot Water & Steam Resistance	Excellent	Applicable	Applicable	Good

● EXCELLENT
 ● GOOD
 ● APPLICABLE
 ● NOT RECOMMENDED



AFLAS®

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