Introduction

SAE J1128 SXL Cable, or Special Cross-Linked Polyolefin Insulated Cable, represents a class of robustly constructed cables with thick insulation walls, primarily designed for application in the automotive electric circuits of off-road vehicles and motorcycles.

Application

SXL cables are widely employed as low-tension car electric wires, commonly utilized in various automotive systems including lighting, instrument panel circuits, charging, starting, and signaling. They are particularly favored for circuits necessitating heat resistance due to their specialized construction.

Performance

Temperature Range: – 40°C to +125°C (3000 Hours)
Standard: SAE J1128
Test Voltage: 1 kV
SXL: Special Purpose XLPO insulation.
Conductor Resistance: Complies with IEC 60228/BS 6360 standards

Characteristic

Flame Resistance: SXL cables exhibit remarkable resistance to flames, ensuring enhanced safety.
Chemical Resistance: Highly resilient to corrosive substances such as lyes, acids, gasoline, and diesel, offering long-lasting durability.
PVC Thin Wall Insulation: The incorporation of PVC thin wall insulation on flexible conductors allows for a reduced diameter and weight, facilitating ease of installation.
Extra Flexibility: SXL cables are known for their exceptional flexibility, enabling ease of routing and installation.
Heat Resistance: Designed to withstand high temperatures, ensuring reliable performance even in demanding environments.

Construction

Conductor: Manufactured from soft-annealed electrolytic Copper (E-Cu ETP1) in accordance with ASTM B3, the bare conductor construction adheres to SAE J1128 specifications.
Insulation: Utilizes Electron Beam Cross-Linked Polyolefin, ensuring superior performance and longevity.
Color: Customizable based on customer requirements.
Single core configuration

Specification

-SAE J1128

Eastful Cable Lab

We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.
CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rhineland and CCS.

National Green Factory

Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China.
We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

Technical Parameters

Conductor Construction				Nom. Insulation Wall Thickness	Cable		Max. Conductor Resistance at 200C	Current Carrying Capacity	Standard Length*
Nom. Cross Section Area	No. of Strands	Max. Dia. of Single Wire	Nom. Conductor Dia.		Max. Overall Dia.	Approx. Weight			
mm^2	No.	mm	mm	mm	mm	kg/km	Ω/km	A	m
0.5	7	0.31	0.93	0.74	2.80	11	35.7	18	1000
0.8	16	0.26	1.21	0.76	3.00	15	22.7	23	1000
1	19	0.29	1.45	0.81	3.40	18	15.4	29	1000
2	19	0.36	1.80	0.89	3.90	29	9.3	40	500
3	19	0.45	2.25	0.94	4.60	42	5.9	53	500
5	19	0.57	2.85	1.04	5.30	65	3.7	70	500
8	49	0.45	3.55	1.09	6.20	93	2.4	91	500