

- Temperature rating
-40°C to +200°C
- Excellent resistance to all known automotive fluids
- Small size, light weight

Spec 55E

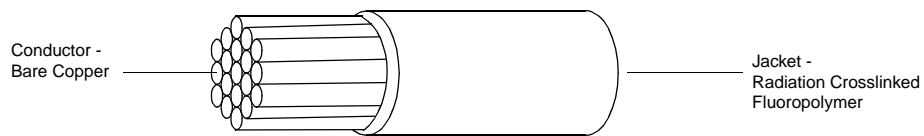
High temperature,
high performance
automotive wire

Spec 55E wire is insulated with a modified radiation crosslinked fluoropolymer. It has a temperature rating of -40°C to +200°C continuous, and combines the easy handling of a flexible wire with excellent all round performance.

The thin wall construction enables high wiring densities to be achieved and the high temperature rating enables bundles to be routed through areas in which conventional wires cannot be used. Chosen for its balance of properties, Spec 55E wire has outstanding resistance to chemicals and solvents.

The flame retarded flexible polymer is easy to handle and install and can be processed using standard lead preparation equipment.

Ordering information



Conductor		Insulated wire						
CSA mm ²	Stranding (No x Dia) mm	Diameter (mm)		Maximum resistance at 20°C ohms/km	Diameter (mm)		Maximum weight kg/km	Ordering description
		min	max		min	max		
0.35	7x0.25	0.73	0.76	53.40	1.10	1.20	4.41	55E0119-0.35-colour code
0.50	19x0.18	0.82	0.90	40.10	1.21	1.31	7.00	55E0119-0.50-colour code
0.60	19x0.20	0.94	1.01	31.30	1.33	1.43	7.13	55E0119-0.60-colour code
0.75	19x0.23	1.04	1.15	24.70	1.45	1.55	8.65	55E0119-0.75-colour code
1.00	19x0.26	1.17	1.26	19.90	1.57	1.67	10.61	55E0119-1.00-colour code
1.50	19x0.32	1.35	1.60	13.70	1.81	1.94	16.40	55E0119-1.50-colour code
2.00	19x0.36	1.66	1.79	9.80	2.06	2.19	20.29	55E0119-2.00-colour code
2.50	19x0.41	1.85	2.05	8.20	2.29	2.42	26.23	55E0119-2.50-colour code
3.00	37x0.32	2.12	2.24	6.40	2.52	2.65	30.49	55E0119-3.00-colour code

Standard colours

Colour	Black	Brown	Red	Pink	Orange	Yellow
Code	0	1	2	2L	3	4
Colour	Green	Blue	Violet	Grey	White	
Code	5	6	7	8	9	

Spec 55E Automotive wire

Typical properties of 55E0119-1-00

	Method	Typical value
Operating temperature		-40°C to +200°C
Voltage		50 V
Insulation resistance	ASTM D3032	100 M ohms for 1 km at 20°C
Relative thermal life	ASTM D3032	200°C 3000 h
Abrasion	BS2G 230 7N 0.225 mm radius	> 50 cycles
Brake fluid resistance	100°C 72 h	< 5% swell
ASTM No 2 oil resistance	100°C 72 h	< 5% swell
1N sulphuric acid	70°C 24 h	< 5% swell
Petrol + 15% methanol	70°C 24 h	< 5% swell
Diesel	70°C 24 h	< 5% swell
Insulation strip force	IEC 189-1	< 60 N
Pressure test at temperature	IEC 811-3-1	Pass at 200°C
Cold bend	IEC 811-3-1	Pass at -40°C
Flammability	IEC 332-1	Pass vertical test
Insulation shrinkage	IEC 811-3-1	< 2% (200°C)

Specifications

Volkswagen VW 60306.
Conductors to DIN 72551.
Material Safety Data Sheet available on request.

55E Performance highlights

Suitable for direct routing through high temperature areas without use of additional protection or heat-shields.

Minimal deterioration of performance due to exposure to fluids, and can be used in applications where it is continually immersed.

Suitable for use in the coldest countries - the insulation will remain flexible and will resist stone damage at low temperatures.

Tough enough to be used in harnesses without conventional secondary protection, giving cost, size and weight savings.

Supplied in barrels (if required) for fast automatic handling and lead preparation using standard equipment.

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