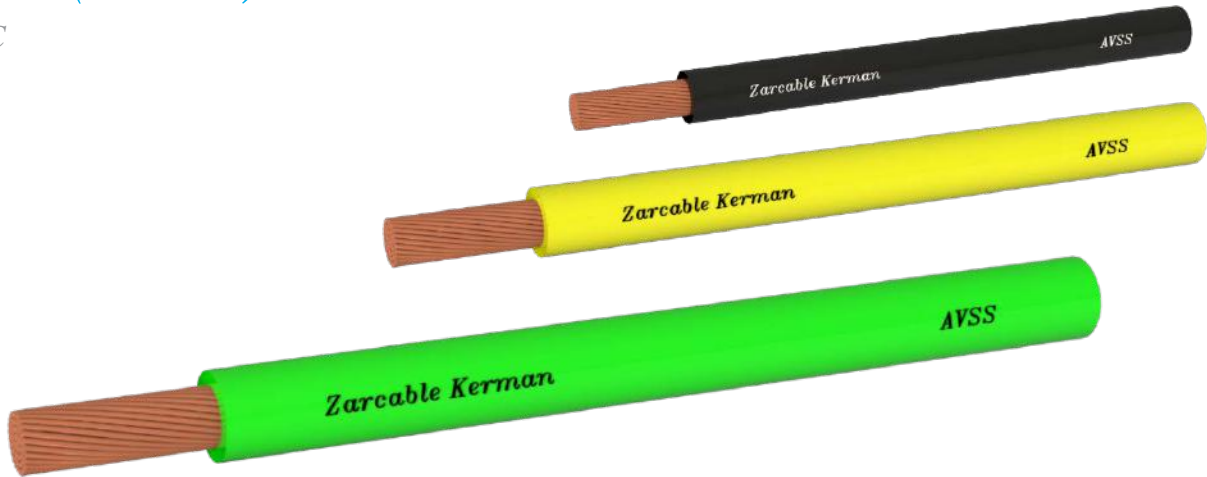


AVSS (0.3-2)

CU/PVC



PVC Insulated, Non Sheathed cable for Automotive

Construction

Conductor: Copper conductor fine wire stranded as per DIN ISO 6722 part 3 .

Insulation: Soft-PVC with properties according to ISO 6722-1, Type T1

Insulation colour: ● Black, ● Blue, ● Orange, ● Red, ○ White
Other colours available upon request

Abbreviations

A : low-tension cable for automobiles
V : Vinyl Insulated
SS : Very Tin-wall Type

Properties :

- Oil and fuel resistant as per DIN ISO 6722 part 2
- Thinner than type AVS cables while ensuring equivalent performance
- Lighter weight and small diameter type AVSS cables are best for wiring harness.

APPLICATION

Low-tension electric wire for Automobiles. Used in Motorcycles and other motor vehicles for starting, charging, lighting, signal and instrument panel circuits. Flame retardant. Highly resistant against acids, Petrol and diesel. Flexible conductors with thin wall insulation.

Technical data

Temperature range:

Max Working Temperature : +80 °C
Min Working Temperature : - 40 °C
Hot-pressure resistance test at: +120 °C

Nominal voltage: 25V AC - 60V DC

Test voltage: 3kv i.e < 0.5mm²
5kv i.e > 0.5mm²

Minimal inner bending radius: single core :8 x D

Withstand Voltage test : Spark :5000V for 15sec
Immersion :1000V for 1Min

DESIGN STANDARDS

KS C 3311
ISO 6722

AVSS (0.3-2)

CU/PVC

Nominal size (mm ²)	Construction (No/mm)	Calculated area (mm ²)	Outer diameter (mm)	Thickness (mm)	Overall diameter		Conductor resistance (Ω/Km)	Current limit (A)	Approx. weight (g/m)	Standard length (m)
					Standard (mm)	Max (mm)				
0.3f	19/0.16	0.3821	0.8	0.3	1.4	1.5	48.8	8	5	1,500
0.3	7/0.26	0.3717	0.8	0.3	1.4	1.5	50.2	8	5	1,500
0.5f	19/0.19	0.5387	1.0	0.3	1.6	1.7	36.7	10	7	1,000
0.5	7/0.32	0.5630	1.0	0.3	1.6	1.7	32.7	11	7	1,000
0.75f	19/0.23	0.7894	1.2	0.3	1.8	1.9	24.4	14	10	1,000
0.85	19/0.24	0.8595	1.2	0.3	1.8	1.9	21.7	14	10	1,000
1.25f	37/0.21	1.2815	1.5	0.3	2.1	2.2	14.7	19	14	800
1.25	19/0.29	1.2550	1.5	0.3	2.1	2.2	14.9	19	14	800
2f	37/0.26	1.9644	1.8	0.4	2.6	2.7	9.5	26	22	500

Insulation materials for the production of automotive cables

Service temperatures				Resistance to						
Temperature index	Thermal overload capacity	Cold winding test	Specific volume resistance	Abrasion	Flame retardance	Oil	Fuels	Brake fluid	Acids/alkalis	Organic agents
ISO 6722-1 oder ISO 14572			IEC 93 DIN 53482	ISO 6722-1 oder ISO 14572						
°C/3,000 h	°C/48 h	°C	Ω · cm							
100/105	125	-40	>10 ¹²	+	+	+	+	-	+	-
105	110	-50	>10 ¹²	+	+	+	+	-	+	-
125	140	-40	>10 ¹²	+	+	+	+	-	+	-
90	100	-40	>10 ¹⁶	+	--	-	+	--	+	-
105	140	-40	>10 ¹²	++	-	++	++	+	+	+
125	150	-40	>10 ¹⁶	+	--	+	+	-	+	+
125	150	-40	>10 ¹⁴	+	+	+	+	-	+	+
°C/3,000 h	°C/48 h	°C	Ω · cm							
110/125	150	-40	>10 ⁹	++	+	++	++	+	+	+
90	150	-40	>10 ⁹	++	-	++	++	+	-	+
150	180	-40	>10 ⁹	++	+	++	++	+	+	+
125	150	-40	>10 ¹⁰	-	+	+	+	-	+	-
90	120	-40	>10 ¹⁰	++	-	++	++	+	-	+
125	150	-40	>10 ¹⁴	-	+/- *	-	-	-	+	-
°C/3,000 h	°C/48 h	°C	Ω · cm							
200	225	-80	>10 ¹⁶	-	+	+	+	++	+	+
140	180	-40	>10 ¹⁰	-	-	-	-	-	-	-
105	140	-40	>10 ¹²	++	+	+	+	-	+	+
125-150	150	-40	>10 ¹⁴	+	+	+	+	-	+	+
°C/3,000 h	°C/48 h	°C	Ω · cm							
260	305	-90	>10 ¹⁸	++	++	++	++	++	++	++
210	260	-65	>10 ¹⁵	++	++	++	++	++	++	++
180	230	-65	>10 ¹⁵	++	++	++	++	++	++	++
150	160	-30	>10 ¹⁴	++	++	++	++	++	+	+
260	290	-90	>10 ¹⁵	++	++	++	++	++	++	++

++ excellent + good - fair -- poor * depending on the recipe, on demand