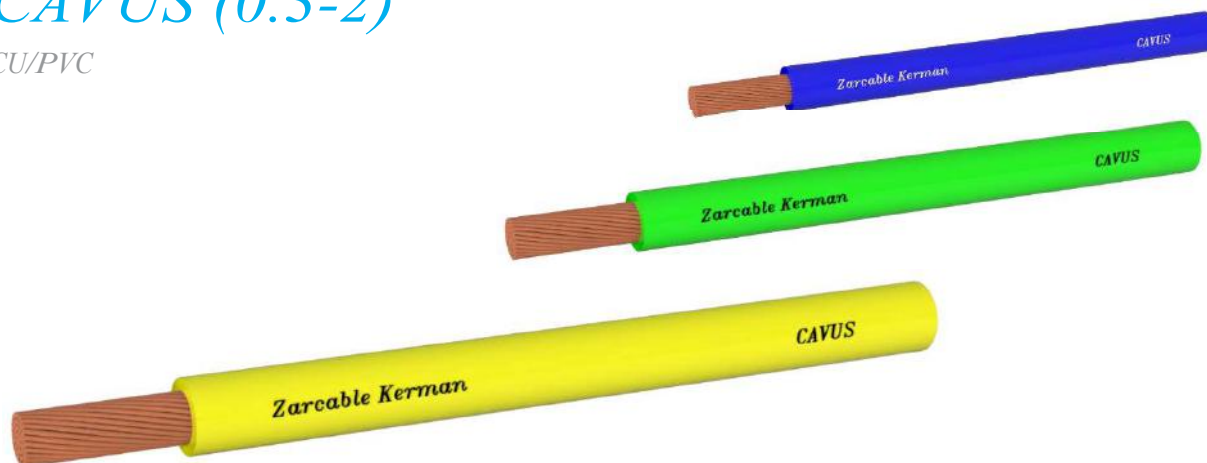


# CAVUS (0.3-2)

CU/PVC



Compressed Ultra Thin-wall PVC insulated 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

C: compressed conductor  
A : low-tension cable for automobiles  
V : Vinyl Insulated  
US : Ultra Tin-wall Type

## Properties :

- Oil and fuel resistant as per DIN ISO 6722 part 2
- Excellent flexibility
- Available in color and stripes

## 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
Ambient temperature :	+40°C

Nominal voltage: 25V AC - 60V DC

Test voltage: 3kv i.e < 0.5mm<sup>2</sup>  
5kv i.e > 0.5mm<sup>2</sup>

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

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Nominal size (mm <sup>2</sup> )	Construction (No/mm)	Calculated area (mm <sup>2</sup> )	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)				
0.3	7/SB	0.3716	0.7	0.2	1.1	1.2	50.2	8	4	2,500
0.5	7/SB	0.5629	0.9	0.2	1.3	1.4	32.7	10	6	1,500
0.85	11/SB	0.8846	1.1	0.2	1.5	1.6	20.8	14	9	1,100
1.25	16/SB	1.287	1.4	0.2	1.8	1.8	14.3	18	13	800

SB: Smooth Body

### 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				ISO 6722-1 oder ISO 14572						
°C/3,000 h	°C/48 h	°C	Ω·cm							
100/105	125	-40	>10 <sup>12</sup>	+	+	+	+	-	+	-
105	110	-50	>10 <sup>12</sup>	+	+	+	+	-	+	-
125	140	-40	>10 <sup>12</sup>	+	+	+	+	-	+	-
90	100	-40	>10 <sup>10</sup>	+	--	-	+	--	+	-
105	140	-40	>10 <sup>12</sup>	++	-	++	++	+	+	+
125	150	-40	>10 <sup>10</sup>	+	--	+	+	-	+	+
125	150	-40	>10 <sup>14</sup>	+	+	+	+	-	+	+
°C/3,000 h	°C/48 h	°C	Ω·cm							
110/125	150	-40	>10 <sup>9</sup>	++	+	++	++	+	+	+
90	150	-40	>10 <sup>9</sup>	++	-	++	++	+	-	+
150	180	-40	>10 <sup>9</sup>	++	+	++	++	+	+	+
125	150	-40	>10 <sup>10</sup>	-	+	+	+	-	+	-
90	120	-40	>10 <sup>10</sup>	++	-	++	++	+	-	+
125	150	-40	>10 <sup>14</sup>	-	+/-*	-	-	-	+	-
°C/3,000 h	°C/48 h	°C	Ω·cm							
200	225	-80	>10 <sup>10</sup>	-	+	+	+	++	+	+
140	180	-40	>10 <sup>10</sup>	-	-	-	-	-	-	-
105	140	-40	>10 <sup>12</sup>	++	+	+	+	-	+	+
125-150	150	-40	>10 <sup>14</sup>	+	+	+	+	-	+	+
°C/3,000 h	°C/48 h	°C	Ω·cm							
260	305	-90	>10 <sup>18</sup>	++	++	++	++	++	++	++
210	260	-65	>10 <sup>13</sup>	++	++	++	++	++	++	++
180	230	-65	>10 <sup>13</sup>	++	++	++	++	++	++	++
150	160	-30	>10 <sup>14</sup>	++	++	++	++	++	+	+
260	290	-90	>10 <sup>13</sup>	++	++	++	++	++	++	++

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