

Applications

SIMBAL 'ROUNDFLEX 191-YY (UL/CSA) PVC/PVC cable is a UL - Listed and CSA certified flexible control cable rated at 600 V. Used in machine tools, control systems, connection between control panels and machines, assembly lines and other industrial equipment. Suitable for installation in dry, moist or wet environments and moderate flexing applications.

Design

1. **Conductor** :- Flexible plain copper, Class 5 to DIN VDE 0295
2. **Insulation** :- PVC type YI 8 to DIN VDE 0207 pt 4 & class 43 to UL std 1581
3. **Outer Sheath** :- PVC type YM 5 to DIN VDE 0207 pt 4 & class 43 to UL std 1581
4. **Colour** - Grey (RAL 7001)

Core Identification

Black with white numbers with or without green / yellow earth core (4c and above)

Standards

HD21.13 S1, DIN VDE 0281 T13
UL style 2587 bzw. 2550 + 21098
CSA AWM I A/B II A/B



Mechanical Properties		
Bending Radii	(Dynamic Installations)	15 x Cable diameter
	(Static Installations)	4 x Cable diameter
Chemical Properties		
For Indoor & Outdoor applications (Outdoor only with UV protection)		
Flame retardant in acc. With IEC 60 332 part 1		
Lead & Silicon free		
Resistant to mineral oils, synthetic oils & water based coolants		
Electrical & Thermal Properties		
Nominal Voltage	600V	
Test Voltage	3000 V	
Breakdown Voltage	6000V	
Current Rating	See below	
Max surface temperature		
- fixed installation	- 40 deg C up to + 90 deg C	
- mobile installation	- 5 deg C up to + 90 deg C	
Max conductor temperature		
- In operation	+ 90 deg C	
- In short circuit	+ 150 deg C	

Cable Specification

Number of cores & nominal cross section	Part No.	Gland PG (Metric)	Current rating at 30 deg C	Outer diameter Approx	Weight Approx
3c x 1.00mm ² (AWG18)	08051 0100 03CSA	PG9 / M20-16	16 Amps	6.7mm	0.061 kg/m
4c x 1.00mm ² (AWG18)	08051 0100 04CSA	PG9 / M20-16	16 Amps	7.3mm	0.081 kg/m
5c x 1.00mm ² (AWG18)	08051 0100 05CSA	PG11 / M20-16	16 Amps	8.1mm	0.095 kg/m
7c x 1.00mm ² (AWG18)	08051 0100 07CSA	PG11 / M20S	16 Amps	9.2mm	0.130 kg/m
8c x 1.00mm ² (AWG18)	08051 0100 08CSA	PG13.5 / M20S	16 Amps	10mm	0.144 kg/m
9c x 1.00mm ² (AWG18)	08051 0100 09CSA	PG13.5 / M20S	16 Amps	11.1mm	0.180 kg/m
12c x 1.00mm ² (AWG18)	08051 0100 12CSA	PG16 / M20	16 Amps	11.8mm	0.211 kg/m
18c x 1.00mm ² (AWG18)	08051 0100 18CSA	PG21 / M25	16 Amps	14.1mm	0.309 kg/m
25c x 1.00mm ² (AWG18)	08051 0100 25CSA	PG21 / M25	16 Amps	17.1mm	0.413 kg/m
3c x 1.50mm ² (AWG16)	08051 0150 03CSA	PG9 / M20-16	20 Amps	7.2mm	0.091 kg/m
4c x 1.50mm ² (AWG16)	08051 0150 04CSA	PG11 / M20-16	20 Amps	8.1mm	0.117 kg/m
5c x 1.50mm ² (AWG16)	08051 0150 05CSA	PG11 / M20S	20 Amps	8.9mm	0.140 kg/m
7c x 1.50mm ² (AWG16)	08051 0150 07CSA	PG13.5 / M20S	20Amps	10.6mm	0.186 kg/m
9c x 1.50mm ² (AWG16)	08051 0150 09CSA	PG16 / M20	20 Amps	12.8mm	0.244 kg/m
12c x 1.50mm ² (AWG16)	08051 0150 12CSA	PG21 / M25	20 Amps	13.4mm	0.319 kg/m
18c x 1.50mm ² (AWG16)	08051 0150 18CSA	PG21 / M25	20 Amps	15.8mm	0.451 kg/m
25c x 1.50mm ² (AWG16)	08051 0150 25CSA	PG29 / M25	20 Amps	19.3mm	0.625 kg/m
3c x 2.50mm ² (AWG14)	08051 0250 03CSA	PG11 / M20S	25 Amps	8.7mm	0.143 kg/m
4c x 2.50mm ² (AWG14)	08051 0250 04CSA	PG13.5 / M20S	25 Amps	10.1mm	0.185 kg/m
5c x 2.50mm ² (AWG14)	08051 0250 05CSA	PG13.5 / M20S	25 Amps	10.9mm	0.221 kg/m
7c x 2.50mm ² (AWG14)	08051 0250 07CSA	PG16 / M20	25 Amps	13.1mm	0.295 kg/m
9c x 2.50mm ² (AWG14)	08051 0250 09CSA	PG21 / M25	25 Amps	15.6mm	0.429 kg/m
12c x 2.50mm ² (AWG14)	08051 0250 12CSA	PG21 / M25	25 Amps	16.7mm	0.563 kg/m
18c x 2.50mm ² (AWG14)	08051 0250 18CSA	PG29 / M32	25 Amps	19.6mm	0.854 kg/m
25c x 2.50mm ² (AWG14)	08051 0250 25CSA	PG36 / M32	25 Amps	24mm	1.180 kg/m
4c x 4.0mm ² (AWG12)	08051 0400 04CSA	PG16 / M20	36 Amps	12.5mm	0.298 kg/m
5c x 4.0mm ² (AWG12)	08051 0400 05CSA	PG21 / M25	36 Amps	15.8mm	0.358 kg/m
7c x 4.0mm ² (AWG12)	08051 0400 07CSA	PG21 / M25	36 Amps	16.3mm	0.480 kg/m
4c x 6.0mm ² (AWG10)	08051 0600 04CSA	PG21 / M25	45 Amps	14.2mm	0.402 kg/m
5c x 6.0mm ² (AWG10)	08051 0600 05CSA	PG21 / M25	45 Amps	15.9mm	0.484 kg/m
7c x 6.0mm ² (AWG10)	08051 0600 07CSA	PG29 / M32	45 Amps	19.4mm	0.830 kg/m