



Applications

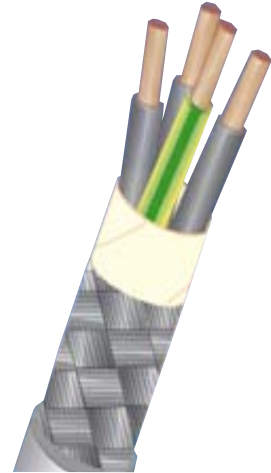
SIMBAL 'ROUNDFLEX 191-CY (UL/CSA) PVC/PVC cable is a UL - Listed and CSA certified flexible Screened control cable rated at 600 V. Used in machine tool manufacturing, heating & air conditioning, data processing etc. For Indoor / Outdoor installation of electrical equipment under medium mechanical stress. 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. **Screen** :- Tinned copper wire braid
4. **Outer Sheath** :- PVC type YM 5 to DIN VDE 0207 pt 4 & class 43 to UL std 1581
5. **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)	20 x cable thickness
Bending Radii (Static)	6 x cable thickness

Chemical Properties	
Lead & Silicon Free	
For Indoor & Outdoor applications	
Flame retardant in accordance with IEC 60 332 part 1	
Resistant to mineral oils, synthetic oils and water based coolants	

Electrical & Thermal Properties	
Nominal Voltage	600 V
Test Voltage	3000 V
Breakdown Voltage	6000 V
Current Rating	See facing page
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	
	+ 90 deg C in operation
	+ 150 deg C in short circuit

**Cable Specification**

Number of cores & nominal cross section	Gland PG / ISO	Current rating at 30 deg C	Outer diameter Approx	Weight Approx
3c x 1.00mm ² (AWG 18)	PG11.0 / M20S	16 Amps	8.8 mm	0.122 kg/m
4c x 1.00mm ² (AWG 18)	PG11.0 / M20S	16 Amps	9.6 mm	0.157 kg/m
5c x 1.00mm ² (AWG 18)	PG13.5 / M20S	16 Amps	10.3 mm	0.183 kg/m
7c x 1.00mm ² (AWG 18)	PG13.5 / M20	16 Amps	11.2 mm	0.207 kg/m
12c x 1.00mm ² (AWG 18)	PG21.0 / M25	16 Amps	14.6 mm	0.342 kg/m
18c x 1.00mm ² (AWG 18)	PG21.0 / M25	16 Amps	17.0 mm	0.472 kg/m
25c x 1.00mm ² (AWG 18)	PG29.0 / M32	16 Amps	20.1 mm	0.648 kg/m
3c x 1.50mm ² (AWG 16)	PG11.0 / M20S	20 Amps	9.6 mm	0.166 kg/m
4c x 1.50mm ² (AWG 16)	PG13.5 / M20S	20 Amps	10.3 mm	0.191 kg/m
5c x 1.50mm ² (AWG 16)	PG13.5 / M20	20 Amps	11.3 mm	0.222 kg/m
7c x 1.50mm ² (AWG 16)	PG16.0 / M20	20 Amps	12.1 mm	0.270 kg/m
12c x 1.50mm ² (AWG 16)	PG21.0 / M25	20 Amps	16.1 mm	0.464 kg/m
18c x 1.50mm ² (AWG 16)	PG29.0 / M25	20 Amps	18.7 mm	0.679 kg/m
25c x 1.50mm ² (AWG 16)	PG29.0 / M32	20 Amps	22.8 mm	0.952 kg/m
3c x 2.50mm ² (AWG 14)	PG13.5 / M20S	25 Amps	10.5 mm	0.221 kg/m
4c x 2.50mm ² (AWG 14)	PG16.0 / M20S	25 Amps	11.4 mm	0.269 kg/m
5c x 2.50mm ² (AWG 14)	PG16.0 / M20	25 Amps	12.8 mm	0.325 kg/m
7c x 2.50mm ² (AWG 14)	PG21.0 / M25	25 Amps	14.1 mm	0.421 kg/m
12c x 2.50mm ² (AWG 14)	PG29.0 / M25	25 Amps	17.9 mm	0.769 kg/m
18c x 2.50mm ² (AWG 14)	PG29.0 / M32	25 Amps	21.1 mm	1.102 kg/m
4c x 4.0mm ² (AWG 12)	PG16.0 / M25	36 Amps	13.6 mm	0.462 kg/m
5c x 4.0mm ² (AWG 12)	PG21.0 / M25	36 Amps	14.9 mm	0.535 kg/m
7c x 4.0mm ² (AWG 12)	PG21.0 / M25	36 Amps	16.2 mm	0.735 kg/m
4c x 6.0mm ² (AWG 10)	PG21.0 / M25	45 Amps	15.8 mm	0.574 kg/m
5c x 6.0mm ² (AWG 10)	PG29.0 / M25	45 Amps	17.3 mm	0.737 kg/m
7c x 6.0mm ² (AWG 10)	PG29.0 / M32	45 Amps	18.8 mm	0.950 kg/m