

Applications

SIMBAL 'FESTOONFLEX' cables are suitable for frequent bending in applications such as trolley systems, drag chains or on other moving parts of machinery and conveyors. It is also suitable for many other applications where high mechanical stresses are involved. FESTOON-FLEX can be used in dry, humid & wet rooms and for indoor or outdoor use.

Design

1. **Conductor** :- Flexible plain copper, Class 5 to DIN VDE 0295
2. **Insulation** :- Polyester base
3. **Stranding** :- Cores stranded in layers
4. **Supporting Element** :- Central textile element
5. **Outer Sheath** :- Special polyurethane, flame resistant, halogen free.
6. **Colour** :- Black

Marking

Festoonflex 0.6/1kV core x cross section

Core Identification

Up to 5 cores - colour coded in acc. With VDE 0293

From 7 cores - white cores with black numbers

Standards

VDE 0250



Mechanical Properties	
Bending Radii (Dynamic Installations)	6 x Cable diameter
Tensile Strength :	15 N/mm ²
Max Travelling Speed :	240 m/min
Chemical Properties	
For Indoor & Outdoor applications	
Flame & Fire retardant to EN 50265-2-1	
Lead & Silicon free, Halogen free & Oil resistant	
Electrical & Thermal Properties	
Nominal Voltage	U ₀ / U 600/1000V
Test Voltage	2500V
Current Rating	See below
Max surface temperature	
- fixed installation	- 50 deg C up to + 90 deg C
- mobile installation	- 40 deg C up to + 90 deg C
Max temperature at conductor	+ 90 dge C

No. of cores & cross section	Part No.	Current rating at 30 deg C	Outer Dia. Approx	Weight Approx
3c x 1.50mm ²	08095 0150 03	20 Amps	7.5mm	0.115 kg/m
4c x 1.50mm ²	08095 0150 04	20 Amps	9mm	0.140 kg/m
7c x 1.50mm ²	08095 0150 07	20 Amps	12mm	0.218 kg/m
12c x 1.50mm ²	08095 0150 12	20 Amps	15mm	0.260 kg/m
18c x 1.50mm ²	08095 0150 18	20 Amps	16mm	0.340 kg/m
24c x 1.50mm ²	08095 0150 24	20 Amps	17mm	0.480 kg/m
30c x 1.50mm ²	08095 0150 30	20 Amps	21mm	0.680 kg/m
3c x 2.50mm ²	08095 0250 03	25 Amps	9mm	0.160 kg/m
4c x 2.50mm ²	08095 0250 04	25 Amps	10mm	0.190 kg/m
5c x 2.50mm ²	08095 0250 05	25 Amps	10mm	0.210 kg/m
7c x 2.50mm ²	08095 0250 07	25 Amps	12mm	0.295 kg/m
12c x 2.50mm ²	08095 0250 12	25 Amps	17mm	0.463 kg/m
18c x 2.50mm ²	08095 0250 18	25 Amps	17.5mm	0.576 kg/m
24c x 2.50mm ²	08095 0250 24	25 Amps	20mm	0.758 kg/m
30c x 2.50mm ²	08095 0250 30	25 Amps	26.5mm	1.080 kg/m
4c x 4.0mm ²	08095 0400 04	36 Amps	11mm	0.219 kg/m
5c x 4.0mm ²	08095 0400 05	36 Amps	12mm	0.265 kg/m
4c x 6.0mm ²	08095 0600 04	47 Amps	12.5mm	0.340 kg/m
5c x 6.0mm ²	08095 0600 05	47 Amps	14mm	0.388 kg/m
4c x 10.0mm ²	08095 1000 04	64 Amps	16mm	0.550 kg/m
5c x 10.0mm ²	08095 1000 05	64 Amps	17mm	0.614 kg/m
4c x 16.0mm ²	08095 1600 04	86 Amps	18.5mm	0.791 kg/m
5c x 16.0mm ²	08095 1600 05	86 Amps	20mm	0.968 kg/m
4c x 25.0mm ²	08095 2500 04	114 Amps	23.5mm	1.078 kg/m
5c x 25.0mm ²	08095 2500 05	114 Amps	26mm	1.466 kg/m

No. of cores & cross section	Part No.	Current rating at 30 deg C	Outer Dia. Approx	Weight Approx
4c x 35mm ²	08095 3500 04	140 Amps	27.5mm	1.566 kg/m
4c x 50mm ²	08095 5000 04	180 Amps	32.5mm	2.347 kg/m
4c x 70mm ²	08095 7000 04	242 Amps	40.6mm	3.070 kg/m
4c x 95mm ²	08095 9500 04	293 Amps	44.5mm	4.150 kg/m
1c x 16mm ²	08095 1600 01	86 Amps	9.5mm	0.170 kg/m
1c x 25mm ²	08095 2500 01	114 Amps	11mm	0.255 kg/m
1c x 35mm ²	08095 3500 01	140 Amps	13mm	0.350 kg/m
1c x 50mm ²	08095 5000 01	180 Amps	15mm	0.551 kg/m
1c x 70mm ²	08095 7000 01	242 Amps	17mm	0.748 kg/m
1c x 95mm ²	08095 9500 01	293 Amps	19mm	0.998 kg/m
1c x 120mm ²	08095 1200 01		20.5mm	1.215 kg/m
1c x 150mm ²	08095 1500 01		22.5mm	1.556 kg/m
1c x 185mm ²	08095 1850 01		25.5mm	1.850 kg/m
1c x 240mm ²	08095 2400 01		29mm	2.450 kg/m