

Applications

SIMBAL 'FESTOONFLEX -C' 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. **Inner Sheath** :- PUR
5. **Shield** :- Tinned copper braid—coverage ca 85%
6. **Supporting Element** :- Central textile element
7. **Outer Sheath** :- PUR
8. **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 _o / 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
4c x 1.50mm ²	08095 0150 04CY	20 Amps	9.5mm	0.200 kg/m
5c x 1.50mm ²	08095 0150 05CY	20 Amps	11.5mm	0.225 kg/m
7c x 1.50mm ²	08095 0150 07CY	20 Amps	13mm	0.288 kg/m
12c x 1.50mm ²	08095 0150 12CY	20 Amps	16mm	0.330 kg/m
18c x 1.50mm ²	08095 0150 18CY	20 Amps	17mm	0.410 kg/m

4c x 2.50mm ²	08095 0250 04CY	25 Amps	11mm	0.257 kg/m
5c x 2.50mm ²	08095 0250 05CY	25 Amps	13.5mm	0.292 kg/m
7c x 2.50mm ²	08095 0250 07CY	25 Amps	18.5mm	0.533 kg/m
12c x 2.50mm ²	08095 0250 12CY	25 Amps	20mm	0.646 kg/m

4c x 4.0mm ²	08095 0400 04CY	36 Amps	12mm	0.340 kg/m
5c x 4.0mm ²	08095 0400 05CY	36 Amps	15mm	0.345 kg/m

4c x 6.0mm ²	08095 0600 04	47 Amps	13.5mm	0.410 kg/m
4c x 10.0mm ²	08095 1000 04	64 Amps	16.5mm	0.710 kg/m
4c x 16.0mm ²	08095 1600 04	86 Amps	19.5mm	1.020 kg/m
4c x 25.0mm ²	08095 2500 04	114 Amps	24.5mm	1.168 kg/m
4c x 35.0mm ²	08095 3500 04	140 Amps	28.5mm	1.666 kg/m
4c x 50.0mm ²	08095 5000 04	180 Amps	34mm	2.457 kg/m

1c x 25.0mm ²	08095 2500 01		11.5mm	0.330 kg/m
1c x 35.0mm ²	08095 3500 01		13.5mm	0.426 kg/m
1c x 50.0mm ²	08095 5000 01		16mm	0.695 kg/m
1c x 70.0mm ²	08095 7000 01		18mm	0.824 kg/m
1c x 95.0mm ²	08095 9500 01		20mm	1.180 kg/m
1c x 120.0mm ²	08095 1200 01		22mm	1.331 kg/m
1c x 150.0mm ²	08095 1500 01		23mm	1.860 kg/m
1c x 185.0mm ²	08095 1850 01		26mm	2.000 kg/m
1c x 240.0mm ²	08095 2400 01		29.5mm	2.620 kg/m

No. of cores & cross section	Part No.	Current rating at 30 deg C	Outer Dia. Approx	Weight Approx
4 x (2 x 1) C	08095 0100 04x2CY		18mm	0.320 kg/m
6 x (2 x 1) C	08095 0100 06x2CY		20mm	0.462 kg/m
2 x (2 x 1.5) C	08095 0150 02x2CY		16.5mm	0.310 kg/m
3 x (2 x 1.5) C	08095 0150 03x2CY		18.5mm	0.350 kg/m
2 x (2 x 2.5) C	08095 0250 02x2CY		18.5mm	0.340 kg/m
3 x (2 x 2.5) C	08095 0250 03x2CY		20.5mm	0.390 kg/m