

Applications

SIMBAL ‘HSTN/HSTCN Textroflex can be used as an elevator control cable, pendant cable or control cable for conveyors, machine tools or measuring equipment. The cable is suitable for use in dry, damp and wet areas and also for outdoor applications. It is especially suited to applications where resistance to oils and chemicals is required.

Design

1. **Conductor :-** Flexible plain copper, Class 6 to DIN VDE 0295
2. **Insulation :-** EPR Rubber compound
3. **Support Element :-** Central textile strainer element
4. **Outer Sheath :-** PCP (Neoprene)
5. **Colour :-** Black

Marking

LSTN (LSTCN), core x cross section

Core Identification

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

From 7 cores - black cores with white numbers + green/yellow earth core

Standards

DIN VDE 0250



Mechanical Properties

Bending Radii (Dynamic)	10 x cable thickness
Tensile Strength	According to cable section - please call for specific details
Free suspended height	up to 80 meters

Chemical Properties

Oil resistant acc to VDE 0472 part 803 test type B
For Indoor & Outdoor applications
Flame resistant

Electrical & Thermal Properties

Nominal Voltage	U _o / U	300/500 V
Test Voltage	3000 V Core to Core 1500 V Core to Screen	
Current Rating	See facing page	
Max surface temperature		
- fixed installation		- 40 deg C up to + 80 deg C
- mobile installation		- 25 deg C up to + 80 deg C
Max temperature at the conductor		+ 80 deg C

LSTN (Unscreened)

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	PG11 / M20S	16 Amps	9.0mm	0.12kg/m
7c x 1.00mm ²	PG16 / M25	16 Amps	13.5mm	0.255kg/m
12c x 1.00mm ²	PG29 / M32	16 Amps	19.5mm	0.500kg/m
18c x 1.00mm ²	PG29 / M32	16 Amps	20.0mm	0.570kg/m
24c x 1.00mm ²	PG29 / M32	16 Amps	22.5mm	0.745kg/m
36c x 1.00mm ²	PG36 / M40	16 Amps	27.0mm	1.060kg/m
54c x 1.00mm ²	PG42 / M50S	16 Amps	33.0mm	1.580kg/m
3c x 1.50mm ²	PG11 / M20S	20 Amps	9.5mm	0.145kg/m
4c x 1.50mm ²	PG13.5 / M20	20 Amps	11.5mm	0.195kg/m
5c x 1.50mm ²	PG13.5 / M20	20 Amps	12.0mm	0.220kg/m
7c x 1.50mm ²	PG16 / M25	20 Amps	13.5mm	0.295kg/m
9c x 1.50mm ²	PG21 / M25	20 Amps	16.5mm	0.410kg/m
12c x 1.50mm ²	PG29 / M32	20 Amps	21.0mm	0.574kg/m
18c x 1.50mm ²	PG29 / M32	20 Amps	22.0mm	0.700kg/m
24c x 1.50mm ²	PG32 / M40	20 Amps	25.0mm	0.940kg/m
42c x 1.50mm ²	PG42 / M50S	20 Amps	32.0mm	1.600kg/m
4c x 2.50mm ²	PG16 / M20	30 Amps	12.5mm	0.265kg/m
5c x 2.50mm ²	PG21 / M25	30 Amps	14.5mm	0.330kg/m
7c x 2.50mm ²	PG21 / M25	30 Amps	17.5mm	0.460kg/m
12c x 2.50mm ²	PG32 / M40	30 Amps	25.0mm	0.770kg/m
37c x 2.50mm ²	PG42 / M50	30 Amps	36.5mm	2.250kg/m
4c x 6.0mm ²	PG29 / M25	52 Amps	18.0mm	0.524kg/m

LSTCN (Screened)

6c x 0.50mm ² (Blue)	PG13.5 / M20	6 Amps	11.5mm	0.180kg/m
6c x 0.75mm ² (Blue)	PG16 / M20	13 Amps	12.0mm	0.205kg/m
4c x 1.00mm ² (Black)	PG13.5 / M20	16 Amps	11.5mm	0.185kg/m
7c x 1.00mm ² (Black)	PG21 / M25	16 Amps	15.0mm	0.300kg/m
12c x 1.00mm ² (Black)	PG29 / M32	16 Amps	20.5mm	0.545kg/m
18c x 1.00mm ² (Black)	PG29 / M32	16 Amps	21.0mm	0.630kg/m
24c x 1.00mm ² (Black)	PG32 / M40	16 Amps	25.0mm	0.900kg/m
6c x 1.50mm ² (Yellow)	PG21 / M25	20 Amps	15.0mm	0.43kg/m

Other cable sections are available on request